THE TREATMENT OF HIGHWAY INJURY An International Bibliography

ERIC G. HANITZSCH

The University of Michigan

Highway Safety Research Institute

Distributed by Publications Distribution Service The University of Michigan East University, Ann Arbor 48104

Library of Congress Card No. 73-627806

Printed in the United States of America by R. W. Patterson Benton Harbor, Michigan

1969

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PREFACE

The effectiveness of an emergency medical system must depend upon both the timeliness of response within the system, and the adequacy of professional care offerred by the system. The relationship between these two factors is a function of many things, such as the environment, the type and severity of injury, and the condition of the victim prior to injury.

The Highway Safety Research Institute has developed a mathematical model of a recovery system relating these various factors. The present bibliography was prepared in order to provide real data to this model. Literature was sought which reported on multiple cases of trauma from either the field treatment (ambulance) or hospital point of view. In addition, numerous summary reports of autopsy findings in cases of traumatic injury were received. Sources for this literature are world-wide. Although many indexes were used, we should mention particularly *Index Medicus.* The cut-off date for materials in this bibliography was December 1968. Erik Hanitzsch, who prepared this work, was trained as an engineer. His interest in emergency medical care came primarily from the point of view of a system designer. During his tenure at this institute he was concerned with a series of programs involving the study and design of ambulance operations. It is our hope that his collection of reports from over 500 sources, in several languages, carefully read and annotated by a single individual, will provide a ready reference to the world's literature in the field. We expect that it will prove useful to physicians and other professionals concerned with emergency services, to researchers in trauma, and to library personnel who provide support to these people.

James O'Day

Head, Systems Analysis-Information Center Highway Safety Research Institute The University of Michigan '. Ко

iv

TABLE OF CONTENTS

PREFACE iii

USER'S GUIDE vii

BIBLIOGRAPHY

Emergency Medical Care

01-Existing Systems, Organization, Suggestions for Improvement102-Minimal Equipment, Training of Personnel, Injury Patterns1003-First Aid by Pedestrians, Mobile Surgical Units2004-Helicopters, Airplanes, Conditions for Transportation by Air25

Morbidity: A Function of Type and Site of Injury, Time and Treatment

11-Head and Face 28 12-Neck and Spine 37 13-Thorax 41 14-Circulatory System 48 55 15-Abdomen 16-Pelvis 67 17-Extremities 68 18-General Discussions and Multiple Injuries 72

Causes of Death and Preventive Therapy

21-Autopsy Findings: General7522-Skull/Brain Trauma and Consequences7823-Respiratory Problems8324-Shock-Exsanguination8725-Fat Embolism97

Bibliographies

31-Bibliographies 102

AUTHOR INDEX 103

KWIC INDEX 111

EMERGENCY MEDICAL SUBJECT CODES 128

SUBJECT INDEX 131

vi

USER'S GUIDE

This Bibliography of emergency medical care contains approximately 650 annotated references, grouped according to subject into four major categories and 18 subclasses. Within each category, the references are arranged by accession number. References that fall into more than one category are cross-referenced.

English annotations were prepared by the HSRI Systems Analysis Group from the original documents in English, French, German, Spanish, and Italian, and from translations of documents in the Japanese, Romanian, and Scandinavian languages. In case of difficulty locating any of the references, the complete file of originals is available at HSRIC.

English translations of some of the foreign language documents were obtained from the Scientific Translation Service (S.T.S.). For these references an S.T.S. number appears with the bibliographic information of the reference.

There are three indexes to the Bibliography: (1) a personal author index; (2) a permuted title index; and (3) a detailed subject index based on a structured thesaurus of subject descriptors.

- 1. The personal author index references all authors by surname and initials (p. 103).
- 2. In the permuted title or KWIC (Key-Word-In-Context) index, significant words from the title are displayed alphabetically (p. 111).
- 3. The subject index uses the simple coding scheme that precedes the index itself (p. 131). Specific topics are listed under the more general ones. The contents of each document are described by as many descriptors as are needed.*

The indexes are linked to the bibliography annotations by the reference numbers assigned to each document. Each number is made up of a 2-digit prefix indicating the subject category and a 4-digit accession number, followed by the suffix S or N, where S indicates significant statistics or data content, and N indicates the reference is not statistical in content. Thus, the sample reference number 01-3726 S gives the following information:

01=	3726=	S=
Subject	Accession	Contains significant
Category	Number	statistics/data
\sim		
Reference	number:	
where to fi	ind	

the annotation

Citations in the Bibliography include the subject descriptors used for each document to permit the user to locate other items on the same subject through the subject index.

Any comments on or additions to this Bibliography may be referred to:

> Joseph C. Marsh IV Head, Highway Safety Research Information Center Huron Parkway and Baxter Road Ann Arbor, Michigan 48105

*Subjects can be combined (or coordinated) to find more specific references. For instance, areas of the body (OA) are separate from kinds of injuries (JN) but used in combination to describe a particular injury. Thus a leg fracture is indexed and retrieved by OADE (body area, leg) and JNH (kind of injury, fracture).

BIBLIOGRAPHY

01-2592 S

Jamieson, K. G./ Tait, I. A.

TRAFFIC INJURY IN BRISBANE. Report of a general survey. National Health and Medical Research Council special report series no. 13.

Royal Brisbane Hospital, Dept. of Neurology and Neurosurgery, Queensland (Australia)/ National Health and Medical Research Council. 1966. 353 p. figs. tables. Sponsor: Queensland Govt. Dept. of Health/ Margaret

Hart Martin Bequest for Brain/ Univ. of Queensland, Cancer Research.

DEC	Passenger Vehicle	Cars,	Passenger	Motor	Vehicles,
EN	Passengers	, People	9		
EO	Driver	-			
JKB	Ejection, A	Acciden	t Hazards, A	Accident	

- JLR Accident Records, Accident Investigation,
- Accident
- JN Injury
- KN Brisbane, Australia, Space

NLE Impact, Phenomena, Physical Aspect

YCD Survey, Nature of Study, Study-Report Type

YEG Tables/Graphs, Contents

During a 16-month period in 1962-63, 1000 consecutive hospital admissions (including 188 deaths) resulting from traffic injuries were investigated. Full details of the injuries were obtained by a medical research fellow, and every death was studied by detailed autopsy.

Age, driver-passenger involvement, type of accident, and type of vehicle are tabulated. Type and classification of injuries and mortality and its relationship to the complexity of injuries are discussed. Ejection, use of safety belts, and types of vehicles are correlated with injury patterns, position of victim in car, and mortality. Distance from accident site to the Hospital, and the time from accident to death, were analyzed as a function of mortality trends and causes of death. Hemorrhage and asphyxia account for one-third of all fatals.

01-3726 S

Ryan, G. A.

INJURIES IN TRAFFIC ACCIDENTS.

Guggenheim Center for Aerospace Health and Safety/ Harvard School of Public Health, Div. of Engineering and Health Services. 11 May 1967. 11 p. figs. tables. *New England Journal of Medicine*, Vol. 276, No. 19, 11 May 1967, pp. 1066-1076.

J	Accident
DE	Motor Vehicles, Vehicle
YEF	Data Statistics, Contents, Study-Report Type
WMEBD	Regression, Design, Statistical/Probability,
	Mathematical, Methods
OAI	Head, Anatomy/Body, Biomedical Aspect
OAH	Neck
OAE	Abdomen
OAOBB	Vertebrae, Bones, Musculo-Skeletal System
OAD	Lower Extremity
OADH	Pelvis
OAG	Upper Extremity
YEG	Table/Graphs, Contents, Study-Report Type

Discusses Adelaide, Australia study in 1963 and 1964. Investigated 408 accidents involving 1,315 persons. Classification of injury severity is modification of ACIR classification. Gives frequency of injuries by body area, and age distributions. Discusses mechanisms of injury to pedestrians. Analysis of impact point on motorcycle helmets indicates that Australian Standards are not adequate. Frequency of side impacts to cars comparable to front impacts. Tabulates distribution, degree of injury, and cause of injury in car accidents. Emphasis of study is on vehicle design.

01-3749 S

Bauer, K. H. ÜBER VERKEHRSUNFÄLLE AUS DER SICHT DES CHIRURGEN. [TRAFFIC ACCIDENTS AS VIEWED BY THE SURGEON.]

1954. 14 p. figs. ref. charts. tables. Langenbecks Archiv fuer Klinische Chirurgie, Vol. 279, 1954, pp. 141-166.

WSD Surgery, Medical, Methods

DE Motor Vehicles, Vehicle

J Accident

YEF Data Statistics, Contents, Study-Report Type

VN Epidemiology, Disciplines

SC Economics, Socioeconomic Aspect

VMB Biomechanics, Biomedical Sciences

Discusses national (Germany) statistics of trauma and analyzes about 2,500 trauma patients logged during five years at the Heidelberg Clinic. 7,344 of those required admission to hospital, 27% of whom had suffered traffic accidents.

Etiology of trauma, and time trends are discussed. Mortality rates are cited to prove traffic accidents are more serious than industrial accidents. Mortality rates, as analyzed by the area of the body where injuries are produced, are highest for head injuries.

Tabulates traffic and industrial accidents, frequency of occurrence of injuries by body areas, and number of fatalities by body area injured. Frequencies of multiple injuries are also shown.

Time of death after injury in days is tabulated for motor accidents as compared to industrial accidents. Average duration of absence from work is shown as a function of body area injured.

Severity of deceleration is discussed for various kinds of collision. Speed is pointed out to be the only variable that directly influences the severity of an accident which can be controlled by legislation.

01-3751 S

Gögler, E./ Laqua, H. DIE BEDEUTUNG DES UNFALLKRANKENGUTES FÜR DIE KLINISCHE CHIRURGIE. [THE SIGNIF-ICANCE OF TRAUMA RECORDS FOR CLINICAL SURGERY.]

Chirurgischen Universitätsklinik Heidelberg (Germany). 1953. 22 p. charts. figs. tables.

Langenbecks Archiv Fuer Klinische Chirurgie, Vol. 275, 1953, pp. 477-518.

JN Injury/Trauma, Accident

WSD Surgery, Medical, Methods

YEF Data Statistics, Contents, Study-Report Type

- VN Epidemiology, Disciplines
- L Time
- EA Age, People
- OAI Head, Anatomy/Body, Biomedical Aspect
- OAN Nervous System

BIBLIOGRAPHY

OAE Abdomen

JNX Multiple Severe Injuries

Authors evaluate records of 6,196 trauma patients in Heidelberg, 1947-1951. Discuss etiology of trauma and emergency-room requirements and show time trends for each accident cause, injury distributions by body area, time lapse from accident to death.

Present diagnosis, therapy, and consequences for fractures and injury to head, spine, thorax, and abdomen.

01-3805 S

Jamieson, K. G.

THE TOLL OF THE ROAD: Clinical aspects. 23 July 1966. 4 p. tables.

Medical Journal of Australia, Vol. II, No. 4, 23 July 1966, pp. 157-160.

VN Epidemiology, Disciplines

- YCD Survey, Nature of Study, Study-Report Type
- EA Age, People

Τ. Time

YEF Data Statistics, Contents

- JNK Hemorrhage, Injury/Trauma, Accident
- JNN Asphyxia/Suffocation
- OAI Head, Anatomy/Body, Biomedical Aspect
- OAF Thorax

16-month Brisbane survey covered 1000 consecutive admissions to hospital or deaths from traffic accidents. Report gives time and place of deaths, distance and time involved in transportation of victims to hospital, time of admission, and general management. Tables show etiology of trauma related to mortality rates, age and sex of surviving and dead drivers and passengers, and distributions of accidents according to day of week and time of day. Complexity of injuries is discussed; place of death and interval between arrival at hospital and death are given.

01-3811 N

Owen, J. K.

OPPORTUNITY FOR COMMUNITY LEADERSHIP: Emergency services must be reorganized.

Public Health Service, Emergency Health Services Branch, Washington, D.C. 1967. 7 p. photos.

Source: McGraw-Hill, Inc. Reprinted from The Modern Hospital, Dec. 1966.

- General Discussions, Contents, Study-Report YER Type
- QGM Medical, Education, Educational Aspect XT Medical, Equipment

Presents general situation of emergency medical care, citing studies supported by U.S. Public Health Service. Recommends creation of council on emergency medical care in every community. Checklists for evaluating emergency service facilities and organizations are given.

01-3816 N

Burger, J. G. THE ORGANIZATION OF AN EFFICIENT ACCIDENT SERVICE.

9 Nov. 1963. 4 p. figs. tables.

South African Medical Journal, Vol. 37, 9 Nov. 1963, pp. 1133-1136.

- KLC School/Hospital, Zone/Land Usage, Space IR
 - Recovery of Injured, Accident
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- YER General Discussions, Contents, Study-Report Type

Discusses organization, staffing, and equipment to improve hospital casualty departments and suggests layout. Recommends resuscitation-ward and resuscitationtrolley equipment.

01-3818 S

YALE STUDIES IN AMBULATORY MEDICAL CARE. V. Determinants of use of hospital emergency services.

Yale Univ. School of Medicine, Dept. of Epidemiology and Public Health, New Haven, Connecticut/ Yale-New Haven Hospital, Office of Ambulatory Services. July 1966. 11 p. figs. maps. tables. ref.

American Journal of Public Health, Vol. 56, No. 7, July 1966, pp. 1037-1056.

Grant No: 00037-02,03.

Sponsor: Public Health Service, Div. of Community Health Services.

- S Socioeconomic Aspect
- VN Epidemiology, Disciplines
- YCD Survey, Nature of Study, Study-Report Type
- ΕA Age, People
- JR Recovery of Injured, Accident
- JE. Single Vehicle

Methods and findings are reported of study of 2,028 consecutive visits to emergency service of Yale-New Haven Hospital during two weeks in July, 1964. Data were obtained from medical records and from interviewquestionnaires given to randomized subsample of 402 patients. Factors found significantly related to urgency rating of patient were: age, regular relationship with personal physician, professional referral, years at current address, minority-group status, and location of residence in city. Urgency ratings were found to be essentially similar for various days of week and hours of day.

01-3821 S

Manheimer, D. I./ Dewey, J./ Mellinger, G. D./ Corsa, L., Jr.

50,000 CHILD-YEARS OF ACCIDENTAL INJURIES. California State Dept. of Public Health, Family Research Center, Berkeley/ Univ. of Michigan, Center of Population Planning, Ann Arbor. June 1966. 1 p. tables. ref. Public Health Reports, Vol. 81 b. 6, June 1966, pp.

519-533.

Grant No: AC-00002.

Sponsor: Public Health Service, Div. of Accident Prevention.

EC Children, People

- Survey, Nature of Study, Study-Report Type YCD
- VN Epidemiology, Disciplines
- YEG Tables/Graphs, Contents

Data were analyzed of the accident experience of 8,874 children receiving prepaid medical care in Berkeley and Oakland, including boys and girls four to eighteen years old. Race, socioeconomic status, age, sex, birth order, number of siblings, and mother's predisposition to seek medical aid were compared to type, severity, and frequency of injuries.

01-3824 S

Waller, J. A./ Garner, R./ Lawrence, R.

UTILIZATION OF AMBULANCE SERVICES IN A RURAL COMMUNITY.

California State Dept. of Public Health, Bureau of Occupational Health, Berkeley/ Johns Hopkins Univ. School of Medicine, Baltimore, Maryland/ California Univ. Medical School, Los Angeles. March 1966. 8 p. map. tables. figs. ref.

American Journal of Public Health, Vol. 56, No. 3, March 1966, pp. 513-520.

Sponsor: National Institutes of Health.

- KBK Rural, Terrain/Habitat, Space
- JR Recovery of Injured, Accident
- VN Epidemiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- YEG Tables/Graphs
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- OAL Respiratory System

Describes 1963 study of 923 trips made by one California ambulance company. Information about each person was obtained from trip records, admission and Emergency Room records. Distribution of ambulance calls and fatalities by cause is tabulated. Attempt to correlate patient survival with distance carried brought no results except for cardiovascular-respiratory disease. Ambulance subscription systems and "speeding ambulance" are discussed.

01-3834 N

Hampton, O. P., Jr. PRESENT STATUS OF AMBULANCE SERVICE IN THE UNITED STATES.

July-Aug. 1965. 2 p.

American College of Surgeons. Bulletin, Vol. 50, July-Aug. 1965, pp. 177-179.

- FDE Service Organizations, Corporate Bodies, Society
- DEHL Ambulance, Special Purpose, Motor Vehicles, Vehicle
- YCD Survey, Nature of Study, Study-Report Type

Summarizes findings of survey of 900 cities. Of 204 cities claiming an ordinance regulating ambulance service, only 162 require attendant in addition to driver and only 174 require equipment listed by A.C.S. Committee on Trauma. Recommends that casualty-carrying vehicles not be given special privileges in city traffic.

01-3848 N

Drye, J. C./ Hyde, C. J. **THE LOUISVILLE PLAN FOR CARE OF THE INJURED.** 1965. 6 p. figs. *Postgraduate Medicine*, Vol. 38, July 1965, pp. 43-48.

JR Recovery of Injured, Accident

WSB First Aid, Medical, Methods

L Time

Discusses Police Department program to provide prompt care for accident victims. High number of D.O.A.'s at hospital in 1964. No first aid is discussed. 01-3851 N

Wade, P. A. AUTOMOBILE CRASH INJURIES.

Cornell Univ. Medical College, New York. 1966. 11 p. figs.

Louisiana State Medical Society. Journal, Vol. 118, No. 5, May 1966, pp. 167-178.

Conference: New Orleans Graduate Medical Assembly, 28th annual, 9 March 1965, Louisiana.

- JN Injury/Trauma, Accident
- JRH Transportation, Recovery of Injured, Accident
- VN Epidemiology, Disciplines
- JRJE Emergency Room, Hospital Care, Recovery of Injured, Accident

Discusses the epidemiology of automobile trauma. Improvements in automobile design, risk of ejection, value of seat belts and interlocking door latches are discussed, as are treatment, emergency medical care, and emergency-room requirements. Author claims that medical schools should include more training in trauma. Cites an analysis of 2,500 cases in 1958 in which researchers found that haste was seldom essential to patient's welfare.

01-3853 N

Owens, J. C. EMERGENCY MEDICAL SERVICES IN THE SMALL COMMUNITY.

Colorado Univ. School of Medicine, Dept. of Surgery. 1966. 9 p. figs.

Rocky Mountain Medical Journal, Vol. 63, June 1966, pp. 23–31.

Sponsor: American College of Surgeons, Colorado Committee on Trauma/ Colorado Univ. Medical Center/ Medical Education for National Defense.

Conference: Wyoming State Medical Society, 62nd annual, 25 Aug. 1965, Moran.

JRJ Hospital Care, Recovery of Injured, Accident

YCD Survey, Nature of Study, Study–Report Type

WSB First Aid, Medical, Methods

SC Economics, Socioeconomic Aspect

Reports on survey of 44 general medical hospital emergency departments with 75 beds or less in 43 communities of 10,000 population or less. Ambulance services were included in survey. Situation and quality of ambulance services and their contact with hospitals are discussed. Personnel first aid training, ambulance design and equipment, confusing highway and street signs leading to emergency hospitals, and types of emergencies are mentioned. Emergency equipment and emergencyroom procedures are evaluated.

01-3857 S Waller, J. A.
CONTROL OF ACCIDENTS IN RURAL AREAS.
California State Dept. of Public Health, Bureau of Occupational Health, Berkeley 1967. 5 p. tables. ref. *American Medical Association. Journal*, Vol. 201, No. 3, 17 July 1967, pp. 94-98.
Conference: 19th National Conference on Rural Health, 19 March 1966, Colorado Springs.

YCB Research, Nature of Study, Study-Report Type

BIBLIOGRAPHY

KBE	Mountains.	Terrain	/Habitat	Space
121010	in oun cunto,	rorrain	11401tut	, opuee

KBK Rural

- KBM Urban/Town/City
- QGM Medical, Education, Educational Aspect
- SFD Community Support, Measures, Socioeconomic

Compares accident fatality rates in urban, agricultural, and mountain counties in California. Fatal rural accidents were no more severe than urban accidents. Motor-vehicle fatalities are over $2\frac{1}{2}$ times as frequent in agricultural counties and 5 times as frequent in mountain counties as in urban counties. Reference is made to another study by the author showing a rural traffic-accident death rate as being four times the urban rate. Over 90% of rural accident deaths within the first hour occurred at accident scene, whereas only one-third of first-hour fatalities in urban areas had not been moved.

01-3862 S

Bradham, G. B.

AN ANALYSIS ON 2,418 EMERGENCY ROOM ADMISSIONS.

South Carolina Medical College, Medical College Hospital, Charleston. May 1965. 4 p. figs.

South Carolina Medical Association. Journal, Vol. 61, No. 5, May 1965, pp. 127-130.

- YCD Survey, Nature of Study, Study–Report Type JRJE Emergency Room, Hospital Care, Recovery of
- Injured, Accident YEF Data Statistics, Contents, Study-Report Type

Frequencies of admissions are given by day of month, hour of day, race, and age group.

01-3886 N

Welply, W. R.

PROVINCIAL WIDE AMBULANCE SERVICE FOR MANITOBA.

1965. 3 p. Manitoba Medical Review, Vol. 45, Jan. 1965, pp. 16-18.

JR Recovery of Injured. Accident

- DEHL Ambulance, Special Purpose, Motor Vehicles, Vehicle
- X Equipment
- SFD Community Support, Measures, Socioeconomic Aspect
- SC Economics

Follow-up to a brief presentation to the Manitoba Medical Association in 1961 recommending changes in ambulance operations. Ideal ambulance-service facilities are described. Suggestions are made for formation of rural and urban Ambulance Association.

01-3906 N

Skudder, P. A./ Wade, P. A. THE ORGANIZATION OF EMERGENCY MEDICAL FACILITIES AND SERVICES. Cornell Univ. Medical College, Dept. of Surgery, New York, New York. May 1964. 15 p. ref. Journal of Trauma, Vol. 4, May 1964, pp. 358-372.

JRJE Emergency Room, Hospital Care, Recovery of Injured, Accident

- IO Hospital
- JNX Multiple Severe Injuries, Injury/Trauma

Equipment

Authors indicate the need for new or revised emergency facilities arising from increased use following World War II. Briefly describe areas of professional organization which should be assumed by emergency room committee. Suggest physical plant for emergency department. List factors to be considered in planning new facilities, and equipment, supplies, and pharmaceuticals for emergency department; only brief treatment of equipment for ambulances.

01-3918 S

Х

Waller, J. A./ Curran, R./ Noyes, F.

TRAFFIC DEATHS: A preliminary study of urban and rural fatalities in California.

California State Dept. of Public Health, Div. of Accident Prevention/ Cornell Univ. Medical College, New York, New York/ George Washington Univ. Medical School, Washington, D.C. Oct. 1964. 5 p. tables. figs.

California Medicine, Vol. 101, No. 4, Oct. 1964, pp. 272-276.

- JNB Fatal, Injury/Trauma, Accident
- KBK Rural, Terrain/Habitat, Space
- KBM Urban/Town/City
- YCD Survey, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents
- L Time

Authors discuss a California death-certificate study of 782 victims enclosed in vehicles in 1961. Tabulations: estimated salvageability by type of accident, urban/rural location, and body areas injured; frequencies for urban or rural accidents by hour and place of residence of victims; proportion of deaths occurring at given intervals after injuries to specific anatomic areas. Indicate more fatalities within one hour of rural than of urban accidents. Distance patient transported before death versus survival times indicates earlier care and transportation for urban victims.

01-3919 N

Corcoran, J.

ACCIDENT AND EMERGENCY SERVICES IN DUBLIN.

Mater Misericordiae Hospital, Dublin (Ireland). Oct. 1964. 4 p. figs. ref.

Irish Medical Association. Journal, Vol. 55, Oct. 1964, pp. 99-105.

- JR Recovery of Injured, Accident
- JN Injury/Trauma
- KLC School/Hospital, Zone/Land Usage, Space
- YCJ Future/Projection, Nature of Study, Study-Report Type
- QD Teaching/Training, Educational Aspect

JRGI Professional/Physician, Treatment/Care

Describes Dublin ambulance service provided by the Fire Brigade, mentioning ambulance radio communications and resuscitation and suction equipment, and cooperation with the police. Recommendations include separate casualty and emergency services, and a single "Accident and Emergency" center for the whole city. Recommends an advanced first aid course for every medical student, and service as hospital orderlies for ambulance men in training.

- 01-3925 N
 - Lougheed, J. C.

THE CURRENT STATUS OF EMERGENCY TREAT-MENT IN AUTOMOBILE ACCIDENTS: With recommendations to professional and civilian personnel.

Methodist Hospital, Dept. of Surgery, Memphis, Tennessee. 1965. 6 p. tables. ref.

Southern Medical Journal, Vol. 58, Sept. 1965, pp. 1083-1088.

- JR Recovery of Injured, Accident
- JN Injury/Trauma
- JRJE Emergency Room, Hospital Care, Recovery of Injured, Accident
- YER General Discussions, Contents, Study-Report Type
- X Equipment
- QD Teaching/Training, Educational Aspect
- VN Epidemiology, Disciplines

In a five-year survey, information was compiled about the accident itself, patient's condition and treatment prior to admission, and emergency-room data. Factors discussed include first aid, equipment in ambulances, police cars, and firemen's rescue vehicles, and emergency room organization. Frequent mistakes and complications in emergency room are given. Types of injuries and body areas injured are tabulated.

01-3926 N

Waller, J. A. AMBULANCE SERVICE TRANSPORTATION OR MED-ICAL CARE.

California State Dept. of Public Health, Berkeley. Oct. 1965. 4 p. ref.

Public Health Reports, Vol. 80, No. 10, Oct. 1965, pp. 847-853.

- DEHL Ambulance, Special Purpose, Motor Vehicles, Vehicle
- JR Recovery of Injured, Accident
- QD Teaching/Training, Educational Aspect
- X Equipment
- YER General Discussions, Contents, Study-Report Type
- SC Economics, Socioeconomic Aspect

Describes ownership, organization, and financial condition of ambulance services, pointing out deficiencies in Red Cross training course and making recommendations for improvement in equipment, training, communications, and emergency medical care research.

01-3928 N

Kossuth, L. C. THE REMOVAL OF INJURED PERSONNEL FROM WRECKED VEHICLES.

Air Force Medical Service School, Gunter AFB, Alabama. 1965. 4 p.

Journal of Trauma, Vol. 5, No. 6, Nov. 1965, pp. 703-708.

JRF Extraction of Occupant, Recovery of Injured, Accident JNH Fracture WSBC Maintaining Airways, First Aid, Medical Methods

The USAF Air Training Command's Medical Service School trains men in first aid with special emphasis on techniques for removal of victims from vehicles. Management of fractured femur and lower leg and foot injury is discussed. Good procedure for management of back injuries is still being developed.

01-3941 S

Gissane, W.

THE STAGES OF DEVELOPMENT AND THE ORGAN-IZATION OF THE BIRMINGHAM ACCIDENT HOSPITAL.

Birmingham Univ. (England)/ Birmingham Accident Hospital, Road Injuries Research Group (England). Dec. 1963. 3 p. tables.

Postgraduate Medical Journal, Vol. 39, Dec. 1963, pp. 683-686.

- JRJE Emergency Room, Hospital Care, Recovery of Injured, Accident
- KLC School/Hospital, Zone/Land Usage, Space
- JN Injury/Trauma
- WSI Autopsy/Pathology, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology/Etiology, Disciplines

Points out importance of autopsy for teaching and research, which are stressed as part of accident department. Sites of fractures, types of major soft tissue injuries, and complications for 500 autopsies following road accidents are tabulated.

01-3948 S

Pike, M. C./ Proctor, D. M./ Wyllie, J. M.

ANALYSIS OF ADMISSIONS TO A CASUALTY WARD.

Aberdeen Univ., Dept. of Statistics (Scotland)/ Aberdeen Royal Infirmary, Casualty Dept. (Scotland). 1963. 3 p. figs. ref.

British Journal of Preventive and Social Medicine, Vol. 17, 1963, pp. 172-176.

- JRJE Emergency Room, Hospital Care, Recovery of Injured, Accident
- L Time
- WSC Diagnosis, Medical, Methods
- VN Epidemiology/Etiology, Disciplines
- YCF Systems Study, Nature of Study, Study-Report Type

Describe work of a short-stay casualty ward in Aberdeen, Scotland, during 1961, giving number of patients, average duration of stay, and number subsequently transferred for various diagnostic classes. Breakdown of admissions by month and day of week. Assuming a Poisson distribution of arrivals and comparing number of admissions with the number expected, it is shown that bed occupancy can be predicted with fair accuracy.

01-3955 N Noer, R. J.

EMERGENCY CARE OF CRITICALLY INJURED. Louisville Univ. School of Medicine, Dept. of Surgery, Kentucky. July 1963. 9 p. ref. Journal of Trauma, Vol. 3, July 1963, pp. 331-339. Conference: American Association for the Surgery of Trauma, 22nd annual, 29-31 Oct. 1962, Hot Springs, Virginia.

- WSB First Aid, Medical, Methods
- JNX Multiple Severe Injuries, Injury/Trauma, Accident
- **JRJE** Emergency Room, Hospital Care, Recovery of Injured, Accident
- KLC School/Hospital, Zone/Land Usage, Space

The article focuses on the system developed at Louisville General Hospital where 30% of operations are on emergency basis. After rapid evaluation in emergency room, the injured person is taken on the same litter to an operating suite which has necessary staff immediately available. Operating suite has its own X-ray equipment, since X-rays have been found to be a major factor in admission delay. There is also a postoperative recovery room.

01-3956 N

Worman, L. W./ Cook, H. E./ King, J. M.

THE TRAUMA PATIENT VS. EMERGENCY CARE: THE ROLE OF THE EMERGENCY HOSPITAL.

Milwaukee County Hospital, Wisconsin/ Marquette Univ. School of Medicine, Div. of Surgery, Milwaukee, Wisconsin. July 1963. 9 p. figs. tables.

Journal of Trauma, Vol. 3, July 1963, pp. 340-348.

Conference: American Association for the Surgery of Trauma, 22nd annual, 29-31 Oct. 1962, Hot Springs, Virginia.

KLC School/Hospital, Zone/Land Usage, Space

- JRJE Emergency Room, Hospital Care, Recovery of Injured, Accident
- WSB First Aid, Medical, Methods
- WSE Therapeutic
- JN Injury/Trauma
- YCD Survey, Nature of Study, Study-Report Type
- Epidemiology/Etiology VN SC
- Economics, Socioeconomic Aspect

Administrators of county emergency hospital argue that emergency hospital is expensive, delays definitive care of patient, prevents maintenance of efficient operating-room staff, and is not good training for surgical residents. Emergency hospital is termed particularly detrimental to trauma victim who has most to gain from diagnostic, surgical, and convalescent facilities available in modern general hospital.

01-3970 N

Bauer, K. H.

GRUNDSÄTZLICHES ZUR FRAGE DER UNFALL-HEILKUNDE. [FUNDAMENTALS OF THE THERAPY OF TRAUMA.]

1953. 5 p. figs.

Langenbecks Archiv fuer Klinische Chirurgie, Vol. 276, 1953, pp. 280-289.

JN	Injury/Trauma, Accident
VN	Epidemiology/Etiology, Disciplines
WSE	Therapeutic, Medical, Methods

Author discusses etiology of trauma, and frequency of injuries by body areas and also of certain combinations of

injury. Refers to high incidence of head injury (46%) and relative mortality rate (67.0%); low mortality rate of patients who had injuries to extremities only; and increased mortality of combinations which involve thorax and/or abdomen. Emphasis on requirements of neurosurgeon, and trauma surgeon with training for thoraxabdominal injuries.

01-4008 N

McCarroll, J. R./ Braunstein, P. W./ Cooper, W./ Helpern, M./ Seremetis, M./ Wade, P. A./ Weinberg, S. FATAL PEDESTRIAN AUTOMOTIVE ACCIDENTS. Cornell Univ. Medical College, Dept. of Public Health, New York/ Cornell Univ. Medical College, Dept. of Surgery, New York/ New York City Police Dept./ New York City, Office of the Chief Medical Examiner. 14 April 1962. 7 p. tables. ref. American Medical Association. Journal, Vol. 180, No. 2,

14 April 1962, pp. 127-133.

- EM Pedestrians, People
- JNB Fatal, Injury/Trauma, Accident
- NKFP Period, Frequency/Time, Operating Conditions, Physical Aspect
- JNX Multiple Severe Injuries

After study of 200 cases, authors describe and discuss factors involved in the accident situation, analyze injuries with respect to body site, number, effect on survival time and cause of death, and discuss importance and diagnosis of occult lesions. Data statistics: median age; incidence of alcohol in the blood; incidence of traffic violators; incidence of mechanical defects in vehicles; number of injuries and survival time; site of injury and survival time; number of occult injuries and site of injury.

01-4010 N

Wade, P. A. THE INJURED PATIENT AND THE SPECIALIST. Cornell Univ. Medical College, New York, New York. March-April 1962. 7 p. photos. figs. graphs. tables. American College of Surgeons. Bulletin, Vol. 47, March-April 1962, pp. 73-82, 94.

- Injury/Trauma, Accident JN
- Medical, Methods WS
- VN Epidemiology/Etiology, Disciplines

Discusses increasing incidence of trauma and the role of the automobile. Discusses the vehicle design changes suggested by the Cornell Group. Reviews the current state of emergency services. Discusses the necessity for physicians with a broad understanding of trauma.

01-4012 S

Hodge, P. R. FATAL TRAFFIC ACCIDENTS IN ADELAIDE. Adelaide Univ., Dept. of Pathology (Australia). 3 March 1962. 6 p. figs. tables. charts. ref. Medical Journal of Australia, Vol. 1, No. 9, 3 March 1962, pp. 309-314.

- JNB Fatal, Injury/Trauma, Accident
- Epidemiology/Etiology, Disciplines VN

L Time

Author surveys 174 traffic accident fatalities. Data statistics: overall road accident distribution; age, sex, and mode of transportation; monthly distribution; daily distribution; distribution according to time of day; distribution of injuries; blood alcohol levels; type of injury and mode of transportation.

01-4015 N

Wade, P. A. THE ACCIDENT SURGERY OF MOTORWAYS. Nov. 1961. 7 p. tables. figs. graphs. ref. Journal of Bone and Joint Surgery, Vol. 43B, No. 4, Nov. 1961, pp. 634-646.

JN	Injury/T	rauma,	Accident
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- WSD Surgery, Medical, Methods
- VN Epidemiology/Etiology, Disciplines
- YCK Case Studies, Nature of Study, Study-Report Type

Author discusses the prevention of motor accidents, describing automobile design changes which prevent or modify injuries; discusses transport of the injured and emergency room treatment. Describes 3 cases to illustrate the frequent multiple nature of injuries. Discusses the role of the orthopedic and the general surgeon.

01-4016 S

Hampson, K. W.

EPIDEMIOLOGY OF TRAFFIC CASUALTIES IN THE CANADIAN ARMED FORCES DURING 1959.

Canadian Forces Medical Service. Nov. 1961. 11 p. graphs. figs. tables. ref.

Medical Services Journal, Canada, Vol. 17, Nov. 1961, pp. 711-731.

Conference: Canadian Public Health Association, Epidemiology Section, annual, June 1961, Regina, Canada.

JNB Fatal, Injury/Trauma, Accident

VN Epidemiology/Etiology, Disciplines

Author analyzed 1,500 cases. Discusses findings from epidemiological viewpoint. Presents map of accident sequence stream. Discusses the physical laws related to injury production. Notes that some features are common to military and total populations. Recommends further parallel examinations. Data statistics: incidence of traffic deaths; type of accident; time of accident; day of accident; month of accident; mortality; hospital morbidity; accident rate/command; accident rate/province and service; accident rate/age group; accident rate/rank and service.

01-4017 N

Kubryk, D.

TRAFFIC ACCIDENTS IN CANADA.

Canadian Dept. of National Health and Welfare, Epidemiology Div., Ottawa, Ontario/ Canadian Highway Safety Council, Ontario. Nov. 1961. 5 p. tables. *Medical Services Journal, Canada*, Vol. 17, Nov. 1961, pp. 735-742.

JN Injury/Trauma, Accident VN Epidemiology/Etiology, Disciplines

Author presents data which show the extent of the traffic accident problem. Discusses causes in terms of host, agent and environment. Describes Canadian accident prevention organizations and briefly outlines their activities.

01-4024 S

Caldwell, L. A. AMBULANCE SERVICES AND TRAFFIC CASUAL-TIES: Report of the Cornwall Area Traffic Casualty Study December 1, 1959 to November 30, 1960. March 1961. 7 p. figs. Ontario Medical Review, Vol. 28, March 1961, pp.

172-182. Sponsor: Ontario Medical Association, Committee on the

Medical Aspects of Traffic Accidents, Canada.

L Time

- DEHL Ambulance, Special Purpose, Motor Vehicles, Vehicle
- IQ Hospitals, Services
- JNB Fatal, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type
- NKFP Period, Frequency/Time, Operating Conditions, Physical Aspect
- WSB First Aid, Medical, Methods
- YCD Survey, Nature of Study

Describes findings of 1960 Ontario study. For 107 accidents in which casualties were transported by ambulance, data cards were filled out by police, ambulance operators, and hospital admitting and emergency departments. Table shows for urban and rural accidents average time from moment of accident to notification of police, from notification of police to notification of ambulance, from notification of ambulance to arrival at accident scene, from arrival to departure from accident scene, and from departure from accident scene to arrival at hospital.

01-4095 N

Brass, A.

MEDICINE IN SOUTH VIETNAM TODAY.

Part 5: Vung Tau-Australian troops, American helicopters and Sydney doctors.

25 March 1967. 8 p. photos.

Medical Journal of Australia, Vol. 1, 25 March 1967, pp. 614-621.

DDCD Helicopters, Airborne, Power Vehicle, Vehicle

JRH Transportation, Recovery of Injured, Accident

IO Hospital, Services

NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect

2nd Field Ambulance, providing medical care for 5000 Australians, is described, mentioning 30-mile radius of helicopter transportation and usual maximum of 30 minutes before treatment in hospital. Dengue, malaria, hemorrhagic fever, and encephalitis are cited as health problems.

01-4096 S

Corcoran, J./ Collins, P. G./ Gallagher, J. E./ Coolican, J. E./ Montgomery, D./ O'Dea, J. St. L./ Lavelle, E. F.

ACCIDENT AND EMERGENCY SERVICES IN DUBLIN.

Irish Medical Association, Dublin (Ireland). March 1967. 8 p. tables. figs.

Irish Medical Association. Journal, Vol. LX, No. 357, March 1967, pp. 71-78.

WSC Diagnosis, Medical, Methods

- JRH Transportation, Recovery of Injured, Accident
- IO Hospital, Services
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology/Etiology, Disciplines
- XT Medical, Equipment

Study covers 9,538 emergencies treated in eleven hospitals. Frequencies for accident and non-accident cases and mode of transportation are tabulated separately for each hospital. Nature of injuries is tabulated, showing total number, number admitted to wards, and whether emergency operation was performed. Criticisms of existing services and requirements, accommodations, and equipment for Accident Emergency Center are discussed.

01-4097 S

King, B. G./ Sox, E. D. EMERGENCY MEDICAL SERVICE SYSTEM – ANAL-YSIS OF WORKLOAD.

Public Health Service, Injury Control Program, Arlington, Virginia/ San Francisco City and County Health Department, California. Nov. 1967. 14 p. tables. ref.

Public Health Reports, Vol. 82, No. 11, Nov. 1967, pp. 995-1008.

YCD	Survey, Nature of Study, Study–Report Type
NKFF	Delay, Frequency/Time, Operating Conditions,
	Physical Aspect
IQ	Ambulance, Services
XT	Medical, Equipment
QD	Teaching/Training, Educational Aspect
YEF	Data Statistics, Contents, Study-Report Type
VN	Epidemiology/Etiology, Disciplines
WSB	First Aid, Medical Methods

The first attempt at systems analysis of an urban emergency medical service system. Authors describe 1963-1964 San Francisco study to develop methodology and data as partial basis for improving emergency care system. Tabulate: frequencies of ambulance and nonambulance patients by residence, race, sex; etiology of trauma, diagnoses; means of arrival of non-ambulance patients by nature of emergency, time spent in emergency room. Analyze workload of ambulance service by: place of emergency; situation at scene; time spent; patient management; frequency of equipment and supplies used; frequency and location of specific action taken by ambulance crew. Discussion emphasizes radio communication, training of personnel, and economic aspects.

01-4102 S

Kossuth, L. C.

A SURVEY OF EMERGENCY AMBULANCE SERVICE. Sept. 1967. 2 p. ref.

Traffic Safety Research Review, Sept. 1967, pp. 73-74.

- YCD Survey, Nature of Study, Study-Report Type IQ Ambulance, Services
- XT Medical, Equipment
- WSB First Aid, Medical, Methods

Author surveyed 133 cities and towns. No agency controlled establishment of ambulance services in 38%. Less than 60% specified first aid equipment. In general, requirements for ambulance attendant training were inadequate. Author discusses establishment of local

ambulance services, equipment requirements, and attendant training.

01-4114 S

Crighton, H. C./ Giesecke, A. H.

ONE YEAR'S EXPERIENCE IN THE ANESTHETIC MANAGEMENT OF TRAUMA: 1964.

Parkland Memorial Hospital, Dallas, Texas/ Texas Univ., Southwestern Medical School, Dallas. Nov.-Dec. 1966. 5 p. figs. ref. tables.

Anesthesia and Analgesia Current Researches, Vol. 45, Nov.-Dec. 1966, pp. 835-842.

Conference: International Anesthesia Research Society, 40th congress, 27 Feb.-3 March 1966, Bal Harbour, Florida.

- JN Injury/Trauma, Accident
- WSF Anesthesia, Medical, Methods
- WSE Therapeutic
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology/Etiology, Disciplines

Historic survey of literature and analysis of 1161 cases. Authors conclude that patients require rapid assessment in the emergency room as well as the operating theater. List and discuss factors which influence anesthetic management. Discussion following paper. Data statistics: cause of injury; surgical service and number of deaths; premedication; lowest systolic blood pressure before, during, after operation; maintenance relaxant; primary anesthetic agent; total anesthesia time; primary anesthetic technique; fluid and blood therapy before and during operation.

01-4120 S

Braunstein, P. W. MEDICAL ASPECTS OF AUTOMOTIVE CRASH INJURY RESEARCH.

Automotive Crash Injury Research, New York, New York. 26 Jan. 1957. 7 p. fig. tables. ref.

American Medical Association. Journal, Vol. 163, No. 4, 26 Jan. 1957, pp. 249-255.

JN Injury/Trauma, Accident

- JNB Fatal
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type

Describes the epidemiologic study established at Cornell University Medical College in 1952. Reviews literature. Statistical data are available on overall degree of injury, degree of fatal injury by number of body areas involved, distribution of injuries among six body areas, and percentage of injured persons receiving injury to each body area, with degree of severity in each.

01-4175 S

Lehman, S. P./ Hollingsworth, K. H. **AMBULANCE SERVICE IN SEATTLE.** Seattle Dept. of Public Health, Washington, 1960. 9 p. tables. ref. *Public Health Reports*, Vol. 75, April 1960, pp. 343-351.

IQ Ambulance, Services

YCD Survey, Nature of Study, Study-Report Type

YEF Data Statistics, Contents, Study-Report Type

VN Epidemiology/Etiology, Disciplines

SCE Costs/Benefits, Economics, Socioeconomic Aspect

Authors analyze data; describe and discuss general service, method of operation, traffic demands and driver training. Review situation in other cities. Suggest advanced training of ambulance drivers. Data statistics: reporting service; cost to city; disposition of patient; time of call; age; cause of emergency service. Description of survey of ambulance service in 100 cities.

01-4179 N

SUGGESTIONS FOR COMMUNITY ACTION ON EMERGENCY MEDICAL SERVICES.

American Medical Association, Commission on Emergency Medical Services, Chicago, Illinois. n.d. 9 p.

- Professional/Physician, Treatment/ Care, Re-JRGI covery of Injured, Accident
- Ю Hospital, Services
- ю Ambulance
- OD Teaching/Training, Educational Aspect

Suggestions are designed to aid in the formation of community action programs. Authors discuss organization structure and evaluation of existing emergency systems. Describe general guidelines for the four phases of an emergency system (first aid, communications, transportation, emergency facilities).

01-4183 N

Eiseman, B.

COMBAT CASUALTY MANAGEMENT IN VIETNAM. Kentucky Univ., Lexington, Medical School, Dept. of Surgery. 1967. 11 p.

Journal of Trauma, Vol. 7, No. 1, 1967, pp. 53-63.

- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- WSD Surgery
- WSE Therapeutic
- Helicopters, Airborne, Power Vehicle, Vehicle DDCD YER General Discussions, Contents, Study-Report
 - Type

Describes type of combat and resulting type of casualties. Discusses the new chain of evacuation to local hospitals, to Guam and Japan, and/or via Clark Air Force Base in the Phillipines to the U.S. Speed of rescue, treatment by properly trained Corpsmen, and immediate surgery facilities are described. Helicopter action is significant. Resuscitation is discussed. Types of solutions and blood requirements are covered. Soft tissue wounds, head injuries, chest injuries, vascular surgery, and abdominal injuries are discussed.

01-4186 S

Herzog, K. UNTERSUCHUNGEN ÜBER DIE EIGNUNG CHIRUR-GISCHER ABTEILUNGEN ZUR VERSORGUNG VON VERKEHRSUNFALLVERLETZTEN. [INVESTIGA-TIONS ABOUT THE ADEQUACY OF EMERGENCY HOSPITALS FOR THE MEDICAL CARE OF VICTIMS OF TRAFFIC ACCIDENTS].

1962. 4 p. maps. tables.

Hefte zur Unfallheilkunde, Vol. 71, 1962, pp. 174-181.

- Ю Hospital, Services
- Survey, Nature of Study, Study-Report Type YCD
- WS Medical, Methods
- XT Medical, Equipment

Author discusses problems in West Germany caused by lack of knowledge of exact location of good emergency hospitals. Patients often are taken to the hospital by lavmen or by physicians who do not know the local environment at the scene of the accident.

Author prepared a road map containing pertinent data about all qualified emergency hospitals.

01-4190 N

King, B. G. ESTIMATING COMMUNITY REQUIREMENTS FOR THE EMERGENCY CARE OF HIGHWAY ACCIDENT VICTIMS.

Public Health Service, Injury Control Program, Ohio. 1966 approx. 10 p. figs.

IN	Injury/Trauma, Accident
ſR	Recovery of Injured
IRH	Transportation, Recovery of Injured, Accident
IRGI	Professional/Physician, Treatment/ Care
WS	Medical, Methods

Author describes and discusses importance, problems, and goals of a community system. Provides some numbers which will be of use in exploratory studies. Notes that, at present, early detection of the injured is the most difficult requirement to fulfill.

01-4193 N

Waters, J. M., Jr. THE BLOODY LANES. National Highway Safety Bureau, Div. of Emergency Treatment and Transfer of the Injured, Washington, D.C. July 1967. 8 p. Aid Newsletter, Vol. 2, No. 12, July 1967.

- DDCD Helicopters, Airborne, Power Vehicle, Vehicle Professional/Physician, Treatment/ Care, Re-JRGI covery of Injured, Accident
- QD Teaching/Training, Educational Aspect

Review of current status of emergency treatment of highway accident victims. Author discusses need; problems; current legislation; economics; ambulance service, personnel; work of National Highway Safety Bureau; role of federal and state governments, community, physicians. Reproduces Highway Safety Program Standard 4.4.11, "Emergency Medical Services."

01-4194 N

McDougall, R. PILOT STUDY ON TRAFFIC ACCIDENTS. 1 Jan. 1959. 5 p. tables. ref. Canadian Medical Association Journal, Vol. 80, 1 Jan. 1959, pp. 18-22. Sponsor: Ford Motor Company of Canada.

JN Injury/Trauma, Accident

WSB First Aid, Medical, Methods

JNBFatalYCDSurvey, Nature of Study, Study-Report TypeVNEpidemiology/Etiology, Disciplines

IO Hospitals, Services

Study covers 6-month period in Montreal. Author discusses problems, advantages and limitations of collecting morbidity data from hospital records. Lists minimum information for accident histories. Recommends further studies of this nature, particularly in relation to cause and prevention of accidents. Recommends that hospital records of all accidents be coded according to etiology. Data statistics: number of accident cases treated at hospital and total number in the city; means of transportation to hospital; ambulance runs to hospital – accidents; age; sex; pedestrian or driver; time of accident; types of injuries treated in emergency room; types of injuries admitted to hospital; percent of dangerous and fatal injuries by body area.

01-4529 S

Heikel, H. V. A.

TRAFIKOLYCKSFALLSSKADORNAS FORANDRIN-GAR UNDER 10-ARSPERIODEN 1951-1960. [CHANGES IN TRAFFIC ACCIDENT INJURIES FOR THE TEN-YEAR PERIOD OF 1951-1960.]

11 Feb. 1965. 9 p. ref. figs. tables.

Nordisk Medicin, Vol. 73, 11 Feb. 1965, pp. 125-133. Order No: STS 6330 (English translation).

YCD	Survey, Nature of Study, Study-Report Type
YEF	Data Statistics, Contents, Study-Report Type
JN	Injury/Trauma, Accident
VŇ	Epidemiology/Etiology, Disciplines

Extensive analysis of 1,831 cases dead on arrival or admitted to Bjorneborg General Hospital, Finland. Data statistics: age; sex; rate of cases in population; number of cases per month; residence of injured; means of travel; distribution by day of week, hour; type of accident; site of injury, type of vehicle; type of skull injury, type of vehicle; length of hospitalization; hospitalization cost; loss of working time; mortality; time and place of death; cause of death.

01-4535 N

COMMUNITY-WIDE EMERGENCY MEDICAL SERVICES.

American Society of Anesthesiologists, Committee on Acute Medicine, Park Ridge, Illinois. 13 May 1968. 8 p. ref.

American Medical Association Journal, Vol. 204, No. 7, 13 May 1968, pp. 595-602.

- JRGF First Aid (Red Cross), Treatment/ Care, Recovery of Injured, Accident
- JRH Transportation, Recovery of Injured, Accident JRJ Hospital Care
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods

Authors list and discuss recommendations for emergency medical care at the scene, during transportation, and in hospitals. These recommendations are not minimum standards but rather goals based on presently available techniques. Recommend that the goals be reviewed and upgraded periodically. 02-3700 N Lob, A.

CHIRURGISCHE PROBLEME DER STRASSENVER-KEHRSUNFÄLLE UND IHRE BEDEUTUNG FÜR DIE ALLGEMEINHEIT. [SURGICAL PROBLEMS OF TRAFFIC ACCIDENTS AND THEIR SIGNIFICANCE FOR THE GENERAL PUBLIC.] 1960. 16 p. tables. photos.

Medizinische Klinik, Vol. 55, 1960, pp. 875-890.

JRGI	Professional/Physician, Treatment/Care,	Re-
	covery of Injured, Accident	
DEH	Special Purpose, Motor Vehicles, Vehicle	
OAI	Head, Anatomy/Body, Biomedical Aspect	
OANBC	Spinal Cord, Central, Nervous System	
OALE	Lungs, Respiratory System	
OALG	Mediastinum	
OAKC	Blood Vessels, Cardiovascular System	
OAE	Abdomen	

Author discusses the etiology of trauma in Germany, and statistical data from insurance companies and hospitals. First aid by physician on the scene of an accident is considered. Zuckschwerdt in Hamburg has considered it unfeasible. Bauer's mobile unit in the Mannheim-Heidelberg area is mentioned. At the scene of an accident, no ultimate therapy is advisable; only stabilization of the patient is necessary to make him fit for transportation. Conditions or dangers to be handled are: aspiration, shock and hemorrhage.

Suckert is mentioned (city of Linz), who has a mobile unit containing also surgical equipment for amputations, tracheostomy set, and drugs to treat (or prevent) brain edema in head injury cases.

Organization of the hospital Emergency Room is discussed. Specific injuries and therapy are discussed: head, spine, thorax, heart and great vessels, abdomen. Frequency and mortality rates are given. Some case studies are included.

Final recommendations include overall prevention, education, training of ambulance personnel, use of helicopter, combination of physician at scene and qualified means of transportation, better hospital care.

02-3714 S

ERSTE HILFE AM UNFALLORT UND ERSTVER-SORGUNG VERKEHRSVERLETZTER NACH KLINI-KAUFNAHME. [FIRST AID AT SCENE OF ACCIDENT AND FIRST THERAPY AFTER ADMISSION TO EMERGENCY ROOM.] See 03-3714 S

02-3718 S

Wilder, R. J./ Jude, J. R./ Kouwenhoven, W. B./ McMahon, M. C.

OF 153 ATTEMPTED – CARDIOPULMONARY RE-SUSCITATIONS BY TRAINED AMBULANCE PER-SONNEL – NO FATAL INJURIES WERE PRODUCED. Johns Hopkins Hospital/ Baltimore City Hospital/ Johns Hopkins Univ. School of Medicine/ Baltimore City Fire Dept., Maryland. 1964. 4 p. tables.

American Medical Association. Journal, Vol. 190, No. 6, 9 Nov. 1964, pp. 139–142.

OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect

- OAL Respiratory System
- QD Teaching/Training, Educational Aspect
- YEF Data Statistics, Contents, Study-Report Type

L Time

YCK	Case Studies, Nature of Study
WSI	Autopsy, Medical, Methods

Authors analyze 153 reports. Describe training of personnel and discuss results. Recommend procedure. Data statistics: interval between receipt of call and first aid treatment (range and mean); transportation time (range and mean); age range; etiology; results; postmortem findings. Fifteen illustrative case reports.

02-3740 S

Lehmann, H. D.

KOMPLIKATIONEN NACH SCHWEREM GEDECKTEM SCHÄDELHIRNTRAUMA IM KLINISCHEN UND MORPHOLOGISCHEN BEFUND. [CLINICAL AND MORPHOLOGICAL FINDINGS IN COMPLICATIONS FOLLOWING SEVERE CLOSED CEREBROCRANIAL TRAUMA.]

1964. 11 p. tables. photos.

Bruns Beitrage zur Klinischen Chirurgie, Vol. 208, June 1964, pp. 480-501.

- OAI Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- JNF Thorax, Injury/Trauma, Accident
- JNP Consequences
- L Time
- YCK Case Studies, Nature of Study, Study-Report Type
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods

Author obtains reference material from 1956-1960, in Cologne, and clinical observations carried out by mobile surgical unit with physician at the scene of the accident. Of 28 patients discussed, 24 had multiple injuries, including 16 of the 17 fatalities. All were treated conservatively.

Two separate phases are considered: acute disturbances immediately after the accident and late complications.

The value of tracheostomy in the acute phase is discussed. Author tabulates for all cases the ages, associated injuries, time of unconsciousness, time of tracheostomy, acute complications, time of survival, late complications and remarks.

Time of onset of acute and of late complications, respiration rate, pulse, temperature, neurologic symptoms, and autopsy findings for cause of death are also given.

02-3748 S

Hamelmann, H.

MÖGLICHKEITEN UND GRENZEN ÄRZTLICHER HILFELEISTUNGEN AM UNFALLORT. [POSSIBIL-ITIES AND LIMITATIONS OF MEDICAL ASSISTANCE AT THE SCENE OF A DISASTER].

17 Nov. 1964. 3 p. figs.

Langenbecks Archiv fuer Klinische Chirurgie, Vol. 308, 17 Nov. 1964, pp. 41-44.

JRGI	Professional/Physician,	Treatment/Care,	Re-
	covery of Injured, Accid	lent	
WOD	The A 11 M 11 1 1 1 1 1 1	1	

- WSB First Aid, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- JRID Dead on Arrival, Hospital Admission
- JNPJ Aspiration/Dehydration, Consequences, Injury/Trauma

OAI Head, Anatomy/Body, Biomedical Aspect JNPL Shock

Two hundred emergency cases were analyzed in Bayern from the records of the Red Cross which is the agency providing all ambulance services in that province. Ten to fifteen minutes was the total delay from time of call to delivery in the hospital for urban accidents, and 20-30 minutes for rural accidents. To evaluate quality of first aid rendered on the scene, 123 autopsy records (1953-1963) were reviewed of accident victims that arrived in the clinic as D.O.A. or were dead within 48 hours. 17% had died on the scene. Etiology of trauma and frequency of various types of injury are shown. 55% of autopsy material died from the consequence of head injury; 20% from shock, 4% from aspiration, 6.5% of fat embolism.

The severity of head injuries can be reduced if anoxia as a result of obstructed airways or inadequate ventilation is prevented. Author considers the need for medical capability at the scene to reduce morbidity of an accident. First aid training is not adequate to cope with head injury, shock, aspiration.

02-3762 N

Böhler, J. DRINGLICHKEIT DER VERSORGUNG BEI UNFALL-VERLETZTEN. [URGENCY OF ACCIDENT INJURY CARE.] 1 Feb. 1964.4 p.

Medizinische Welt, Vol. 5, 1 Feb. 1964, pp. 229-232.

JR Recovery of Injured, Accident

YCC State-of-the-Art, Nature of Study, Study-Report Type

Author discusses triage essentially in hopeless cases, severely injured cases needing immediate attention to maintain proper ventilation and treatment for shock, injured patients requiring surgical treatment, and light injuries.

Transportation, especially indication (or not) for air transport, is discussed.

A list of priorities and details of emergency treatment are covered.

02-3764 N

Spitz, W. U. BEFUNDE BEI VORUBERGEHENDER WIEDER-BELEBUNG NACH ELEKTROUNFALL. [FINDINGS IN TEMPORARY RESUSCITATION FOLLOWING AC-CIDENTAL ELECTROCUTION.]

Freien Universität, Institut für gerichtliche und soziale Medizin, Berlin (Germany). March 1964. 4 p. Munchener medizinische Wochenschrift, Vol. 106, March

1964, pp. 495–498.

- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- JNPM Anoxia/Hypoxia, Consequences, Injury/ Trauma, Accident
- JNPH Pneumonia
- YCK Case Studies, Nature of Study, Study-Report Type

Report on a young man delivered as D.O.A. to the hospital after an electrical shock, followed by an immediate attempt at resuscitation and another by firemen five minutes later, both unsuccessful. Ten minutes after arrival at hospital, thoracotomy heart massage at the hospital showed first signs of spontaneous respiration. Heart fibrillation continued for about 30 minutes. Defibrillation was carried out. Heart became rhythmic and normal. Normal reflexes reappeared. Continued unconsciousness. Central hyperthermia on second day, corrected by external hypothermia; EKG normal.

Sudden death on third day. Autopsy findings are discussed. Hypoxic brain damage (9-10 minutes without) pulse at time of accident). Recommendations are made for vigorous attempts at cardiopulmonary resuscitation on the scene of the accident. The four to six minute anoxia-tolerance of the neurons is pointed out again.

02-3774 S

Jude, J. R./ Kouwenhoven, W. B./ Knickerbocker, G. G. CARDIAC ARREST: Report of application of external cardiac massage on 118 patients.

Johns Hopkins Univ. School of Medicine, Dept. of Surgery, Baltimore, Maryland/ Johns Hopkins Hospital, Dept. of Surgery, Baltimore, Maryland. 16 Dec. 1961. 8 p. photos. tables. figs.

American Medical Association. Journal, Vol. 178, No. 11, 16 Dec. 1961, pp. 1063–1070.

Sponsor: Edison Electric Institute, New York/ National Institutes of Health, Maryland/ Maryland Heart Association, Baltimore.

- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type

Evaluate and carefully describe a method of producing artificial circulation by external sternal compression, used in 138 episodes of cardiac arrest in 118 patients, restoring cardiac action in 78% of arrests. Cardiotonic drugs, electrocardiograms, defibrillation, and continued cardiovascular and pulmonary support were employed as needed. Describe causes and history of treatment for cardiac arrest.

02-3777 N

Rowe, N. L.

FIRST AID TREATMENT, DIAGNOSIS AND ROENT-GENOGRAPHY OF MAXILLOFACIAL INJURIES.

British Association of Oral Surgeons, London (England). May 1964. 4 p. figs.

Journal of Oral Surgery, Anesthesia and Hospital Dental Service, Vol. 22, May 1964, pp. 202–208.

Conference: International Conference on Oral Surgery, 1st, July 1962, London.

WSB	First Aid, Medical, Methods
WSC	Diagnosis

- WSBC Maintaining Airways
- OAIE Maxilla, Head, Anatomy/Body, Biomedical Aspect
- JNH Fracture, Injury/Trauma, Accident OAL Respiratory System

With maxillofacial injuries, prime consideration must be given to preservation of life, maintenance of function, and restoration of appearance. In immediate posttraumatic phase, acute respiratory obstruction will kill patient more rapidly than will a relatively slowly declining blood pressure or a gradually increasing intracranial pressure. Lists causes of respiratory obstruction, methods of preventing inhalation, and indications for tracheostomy. Describes methods of diagnosis and use of roentgenography.

02-3795 N

Wagner, C. J. THE MEDICAL SELF-HELP TRAINING PROGRAM. Public Health Service, Washington, D.C. 1963. 3 p. fig. Journal of Trauma, Vol. 3, 1963, pp. 326-330. Conference: American Association for the Surgery of Trauma, 21st annual, 28-30 Sept. 1961, Chicago, Illinois.

Urges that families be able to care for own health needs in war or peacetime disaster. The Medical Self-Help program, Training Kit, and the Instructor's Guide are described.

02-3807 N

Foster, P. A./ Martinez, L. THE PERFORMANCE OF THE ENGSTRÖM VENTI-LATOR.

Stellenbosch Univ., Dept. of Anaesthesia (South Africa)/ Karolinska Hospital, Thorax Clinic, Stockholm (Sweden). July-Aug. 1966. 2 p. tables. figs. ref.

Anesthesiology, Vol. 27, July-Aug. 1966, pp. 504-507.

YEG Tables/Graphs, Contents, Study-Report Type

XTL Airway Maintenance, Medical, Equipment

XTI Resuscitators

YCG Laboratory Experiment, Nature of Study

Six Engström ventilators were tested for output at zero setting, leakage out of circuit and through pneumatic valve, and calibration of dose valve. Authors conclude that pneumatic valve needs regular checking and cleaning, and that setting of dose valve is unreliable.

02-3808 N Karl, W. F.

OXYGEN CONCENTRATIONS ACHIEVED WITH MANUAL RESUSCITATOR.

1 Aug. 1966. 1 p. table. fig. ref.

New York State Journal of Medicine, 1 Aug. 1966, pp. 2018–2019.

XTI Resuscitators, Equipment

YCG Laboratory Experiment, Nature of Study, Study-Report Type

Ambu Resuscitator as designed by Ruben and Ruben and test method are described. Oxygen concentrations in percent are tabulated for four levels of oxygen flow. Effect of increasing minute volume ventilation at any level was practically negligible. Because of air dilution, the Ambu bag is not efficient for administering oxygen under intermittent positive pressure.

02-3814 N Currie, D. J. EARLY MANAGEMENT OF THE CRITICALLY IN-JURED.

QD Teaching/Training, Educational Aspect WSB First Aid, Medical, Methods

St. Michael's Hospital, Dept. of Surgery, Toronto (Canada)/ Toronto Univ., Dept. of Surgery (Canada). 22 Oct. 1966. 9 p. tables. ref.

Canadian Medical Association. Journal, Vol. 95, 22 Oct. 1966, pp. 862-870.

Conference: Thunder Bay Medical Society, 18 Nov. 1965, Port Arthur, Ontario.

- WSE Therapeutic, Medical, Methods
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- YEH Diagrams/Plans, Contents, Study-Report Type
- WSBC Maintaining Airways, First Aid, Medical
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- JNPK Blood Loss/Bleeding, Consequences, Injury/ Trauma
- JNPL Shock
- YER General Discussions, Contents, Study-Report Type

Priorities of management for injuries are given, with a detailed plan for actions and observations to be carried out on scene of accident, in emergency department, and in surgical operating room. Laboratory control of Po_2 , Pco_2 , and pH, endotracheal tubes, tracheostomy, emergency thoracotomy, therapy for cardiac arrest, fibrillation, arrhythmias, and cardiogenic and neurogenic shock are discussed. Reduction in blood volume due to bleeding and fluid loss, as in burns, and control of central venous pressure are discussed.

02-3820 N

Nobel, J. J./ Templeton, J. Y., III.

RESUSCITATION – 1966: An answer to the age-old problems of postponing death in a cardiac or pulmonary emergency takes form in a newly-designed 'mobile unit'. June 1966. 4 p. figs. ref.

Pennsylvania Medicine, Vol. 69, June 1966, pp. 38-41.

- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- XT Medical, Equipment
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- OAL Respiratory System

Doctors describe the MAX cart they designed, containing cardiopulmonary resuscitation devices and dataacquisition and data-reduction equipment. Less time is required to meet the basic physiologic demands of establishing an airway, ventilation, and artificial circulation. MAX is powered by a 70 amp-hr storage battery and can be kept on charge whenever not in use. MAX's data-acquisition system functions automatically during the clinical procedure, continuously recording on magnetic tape EKG, EEG, and pulse pressure, while recording the resuscitation team's directions, activities, and comments.

02-3845 N

Cardillo, T. E./ Munson, E. T./ Norris, J. L.

CARDIÓPULMONARY RESUSCITATION: A TEACH-ING-TRAINING PROGRAM FOR RESCUE PER-SONNEL.

Rochester Univ. School of Medicine and Dentistry, New York/ Eastman Kodak Co., Kodak Park Works, Rochest-

er, New York/ Eastman Kodak Co., Rochester, New York. June 1965. 4 p. illus. ref.

Journal of Occupational Medicine, Vol. 7, No. 6, June 1965, pp. 251-254.

- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- QD Teaching/Training, Educational Aspect
- JR Recovery of Injured, Accident

Authors describe industrial program to train employees in mouth-to-mouth breathing and closed-chest cardiac massage. 1500 employees have been trained in program which includes film and practice on manikin. Found that laymen master technique for closed-chest massage much more readily than that for mouth-tomouth resuscitation. Warn of complications produced by unskilled individuals.

02-3849 N IMMEDIATE MEASURES AT SITE OF ACCIDENT. 1966. 13 p. figs.

Journal of Trauma, Vol. 6, No. 2, pp. 285-298.

JN	Injury/Trauma, Accident
QD	Teaching/Training, Educational Aspect
WSB	First Aid, Medical, Methods
WSC	Diagnosis

Translation of German Red Cross publication on first aid, giving instructions in case of traffic accident and describing various situations of acute danger and lifesaving measures to be employed by layman: general positioning of patient, artificial respiration, pressure dressings and pressure points, positioning for patient in shock, and external cardiac massage. Lifting and transport methods are illustrated.

02-3850 N

Davies, J. W. L.

METHODS OF ASSESSMENT OF BLOOD LOSS IN THE SHOCKED AND INJURED PATIENT.

Birmingham Accident Hospital, Industrial Injuries and Burns Research Unit (England). 1966. 5 p. tables. ref. British Journal of Anaesthesia, Vol. 38, April 1966, pp. 250-254.

JNPK Blood Loss/Bleeding, Consequences, Injury/ Trauma, Accident JNPL Shock

Discusses advantages and disadvantages of methods for assessing blood loss, including indices of amount of tissue damage and measurements of limb, plasma, and red-cell volume. Some semi-automatic instruments used are the Volemetron, The Hemolitre, and the Blood Volume Computer. Estimation time varies from 20 minutes with the semi-automatic instruments to $2\frac{1}{2}-3$ hours with radioactive phosphorus.

02-3856 N Freilich, H. TEN MUSTS OF A SKILLED AND READY AMBU-LANCE SERVICE. 1 Dec. 1966. 5 p. figs. refs. Hospitals, J.A.H.A., Vol. 40, 1 Dec. 1966, pp. 53-57.

- General Discussions, Contents, Study-Report YER Type
- Recovery of Injured, Accident JR
- Teaching/Training, Educational Aspect QD

Improved ambulance service is related to cooperation among physicians, hospitals, and local government. Author mentions the New York hospital planning council as an example, discussing communications, staffing, training and supervision of personnel, equipment, receiving hospital, and public relations.

02-3858 S

Smith, H. J./ Anthonisen, N. R. **RESULTS OF CARDIAC RESUSCITATION IN 254** PATIENTS. 15 May 1965. 3 p. tables. ref. The Lancet, 15 May 1965, pp. 1027-1029.

Data Statistics, Contents, Study-Report Type YEF WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods

WUP	Physiological, Testing/Measures, Methods
WOY	Autoney Madical

- Autopsy, Medical WSI
- Consequences, Injury/Trauma, Accident INP
- OAK Cardiovascular, Anatomy/Body, Biomedical Aspect

Reviews results of resuscitation in cardiac arrests occurring in wards or emergency room. Staff of Royal Victoria Hospital, Montreal, had been instructed in external cardiac massage and artificial respiration. Results, incidence of initial arrhythmia, and underlying causes are tabulated. Factors in survival were age, arrhythmia, and etiology, with relatively high survival rate for cardiac arrest as a direct consequence of respiratory failure. Metabolic acidosis and raised arterial-lactate levels were found in most patients soon after arrest.

02-3872 N

Bertrand, G.

MANAGEMENT OF SPINAL INJURIES WITH ASSO-CIATED CORD DAMAGE.

McGill Univ., Faculty of Medicine, Montreal (Canada). March 1965. 14 p. photos. figs.

Postgraduate Medicine, Vol. 37, March 1965, pp. 249-262.

WSE Therapeutic, Medical, Methods

OANBC Spinal Cord, Central, Nervous System, Anatomy/Body, Biomedical Aspect Injury/Trauma, Accident JN

YER General Discussions, Contents, Study-Report Type

Management includes handling and transport, traction, alignment, maintenance of airways, emptying of bladder and stomach, and control of temperature. Hidden injuries, muscle functions, sensory testing, hyperalgesia, spinal shock, autonomic system, and X rays are discussed in connection with diagnosis. Therapy to decompress neural structures and to stabilize their bony envelopes and contraindications to surgery are given.

02-3873 N

Walker, J. E. C./ Alper, M. H./ Talbert, G. M. THE ROLE OF A UNIVERSITY HOSPITAL IN TEACH-

ING EMERGENCY CARE AND DISASTER MANAGE-MENT.

Harvard Medical School. March 1965. 5 p. table. ref. Journal of Medical Education, Vol. 40, March 1965, pp. 305-309.

KLC	School/Hosp	ital Zone	I and I	Usage !	Snace
KLC .	SCHOOL/110SP.	mar, Zone,	Lanu	Usage,	space

- QD Teaching/Training, Educational Aspect
- ŴSB First Aid, Medical, Methods

Peter Bent Brigham Hospital and Harvard Medical School combined to offer courses to first-aid instructors in local police and fire departments. Provides outline of course offered in tell weekly two-hour sessions. Citywide disaster exercise demonstrated that graduates were not able to perform effective triage.

02-3874 N

Safar, P./ Brose, R. A. AMBULANCE DESIGN AND EQUIPMENT FOR RE-SUSCITATION.

Pittsburgh Univ. School of Medicine, Dept. of Anesthesiology, Pennsylvania/ Presbyterian-University Hospital, Pittsburgh, Pennsylvania. March 1965. 4 p. figs. tables. ref.

Archives of Surgery, Vol. 90, March 1965, pp. 343-348.

- DEHL Ambulance, Special Purpose, Motor Vehicles, Vehicle
- XTK Oxygen Supply, Medical, Equipment
- XTJ Aspirators
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- YCH Field Experiment, Nature of Study, Study-Report Type

Describes modifications of conventional ambulance. The following are recommended: access to patient from his vertex for respiratory resuscitation and from his side for external cardiac compression; hand-operated ventilation equipment; powerful suction from ambulance engine or electric motor; large reservoir of oxygen; transparent bag-mask unit for oxygen inhalation; oropharyngeal tubes; and portable equipment for ventilation, oxygen inhalation, and suction.

02-3885 N

Braun, P./ Reitman, N./ Florin, A. A.

CLOSED-CHEST CARDIAC RESUSCITATION: Problems in the training of laymen in volunteer rescue squads. New Jersey State Dept. of Public Health, Heart and Circulatory Disease Program, Trenton/ Public Health Service, Heart Disease Control Program. 7 Jan. 1965. 6 p. tables ref.

New England Journal of Medicine, Vol. 272, No. 1, 7 Jan. 1965, pp. 1-6.

- Teaching/Training, Educational Aspect OD Resuscitation, Maintaining Airways, First Aid, WSBCR
- Medical, Methods
- Cardiovascular System, Anatomy/Body, Bio-OAK medical Aspect
- OAL **Respiratory System**

Brief discussion of training program gives results of actual rescue attempts, clinical follow-up, eight-month retest of squad members, and comparative performance after eight months. Minimum requirements are given for

courses of instruction which are now the standards recommended by New Jersey State Department of Health.

02-3887 N

Schrogie, J. J. TRAINING IN CARDIOPULMONARY RESUSCITA-TION.

Public Health Service, Div. of Chronic Diseases, Heart Disease Control Branch. Jan. 1965. 7 p. figs. ref.

Public Health Reports, Vol. 80, No. 1, Jan. 1965, pp. 68-74.

- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- OAL Respiratory System
- OAFD Ribs, Thorax
- Fracture, Injury/Trauma, Accident INH

A brief state-of-the-art report is given for treatment of cardiac arrest, describing extent of the American Heart Association's training programs and giving a survival rate of 25% in summary of 969 cases. Disagreements as to who should perform closed-chest cardiac resuscitation and guidelines for broad educational programs are discussed. New York State's advanced courses for physicians are described.

02-3888 N

Safar, P. **EMERGENCY RESUSCITATION.** 1965. 12 p. figs. ref. Clinical Anesthesia, Vol. 1, 1965, Chapter 4, pp. 71-92. Contract No: DA-49-193-MD-2160.

WSBCR	Resuscitation, Maintaining Airways, First Aid
	Medical, Methods
OAK	Cardiovascular System, Anatomy/Body, Bio
	medical Aspect
OAL	Respiratory System
Х	Equipment
WSBC	Maintaining Airways
QD	Teaching/Training, Educational Aspect
-	

Key concepts in three phases of cardiopulmonary resuscitation are discussed. The following equipment is discussed: Ruben's self-inflating bag-valve-mask unit, Laerdal kit, oxygen-bag-mask unit, and modified Kreiselman resuscitator. Special conditions like drowning and inhalation of gastric contents are mentioned.

02-3905 S

Kaplan, B. M./ Knott, A. P., Jr.

CLOSED-CHEST CARDIAC MASSAGE FOR CIR-CULATORY ARREST.

Michael Reese Hospital and Medical Center, Chicago, Illinois. July 1964. 5 p. tables. ref.

Archives of Internal Medicine, Vol. 114, July 1964, pp. 5 - 12.

Grant No: HE-0673/ HTS-5252.

Sponsor: National Heart Institute.

YEF Data Statistics, Contents, Study-Report Type OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect

- **Respiratory System** OAL
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical. Methods

VN Epidemiology, Disciplines

- WSI Autopsy
- Time T.

Discusses 100 consecutive cases, 1961-1963. Careful search was made for pre-arrest clues of impending circulatory arrest. Ventilation was direct mouth-tomouth or mouth-to-nose breathing. After closed-chest cardiac massage and ventilation had been instituted, electrocardiograph was attached, vein cutdown performed, and intravenous infusion of levarterenol begun. More specific therapeutic approach was then followed for ventricular fibrillation, ventricular standstill, and complete AV dissociation. Reports on incidence of primary admitting diagnoses, significant cardiovascular disease, and results of resuscitative efforts. Relation of interval before massage to results obtained is shown. Initial cardiac rhythm, complications in 28 patients, and prearrest EKG in 76 patients are tabulated.

02-3916 N

Littleton, J. T. ALL-PURPOSE STRETCHER REDUCES TRANSFERS OF ACUTELY INJURED.

Robert Packer Hospital, Guthrie Clinic, Ltd., Sayre, Pennsylvania. 1 Aug. 1964. 5 p. figs. ref. Hospitals, J.A.H.A., Vol. 38, 1 Aug. 1964, pp. 46-50.

- JRH Transportation, Recovery of Injured, Accident
- XTG Stretchers, Medical, Equipment
- JNX Multiple Severe Injuries, Injury/Trauma

In reply to a survey questionnaire, 300 hospital administrators reported an average of 6.7 manual moves for the average acutely injured patient between street and final hospital bed, with a maximum of eleven. Use of specially designed stretcher and mass-casualty management are discussed.

02-3945 N

Conway, J. P./ Hancock, J. E./ Ginn, W. V., Jr. VENTRICULAR FIBRILLATION: Seventeen cases with long-term survival in four. Methodist Hospital, Dept. of Medicine, Memphis, Tennessee. 23 Nov. 1963. 2 p. ref. American Medical Association. Journal, Vol. 186, No. 8, 23 Nov. 1963, pp. 803-804.

Heart, Cardiovascular System, Anatomy/Body, OAKB **Biomedical Aspect**

- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- L Time
- WSE Therapeutic

Patients were treated with an external cardiac defibrillator and closed-chest cardiac massage. A representative case report is provided. Importance of acid-base balance is discussed.

02-3949 S

Lind, B./ Stovner, J.

MOUTH-TO-MOUTH RESUSCITATION IN NORWAY. Sentralsykehuset, Dept. of Anesthesiology, Akershus (Norway)/ Norwegian Radium Hospital, Dept. of Anesthesiology, Oslo. 21 Sept. 1963. 3 p. tables. ref. *American Medical Association. Journal*, Vol. 185, No. 12, 21 Sept. 1963, pp. 933-935.

WSBCRN Mouth-to-Mouth, Resuscitation, Maintaining Airways, First Aid, Medical, Methods

- EC Children, People
- QD Teaching/Training, Educational Aspect
- JNN Asphyxia/Suffocation, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type

Follows up Norwegian campaign to teach the public the techniques of oral resuscitation. Of 40 successful rescuers interviewed, 21 had learned the procedure only from printed material or radio. Number of successful resuscitations for 85 victims is shown according to age of victim. Types of accidents and contents of mouth, correlation between duration of artificial ventilation and length of subsequent unconsciousness, and incidence of vomiting and trismus are discussed.

02-3961 S

ERFAHRUNGEN ÜBER ERSTE ÄRZTLICHE HILFE AM UNFALLORT UND AUF DEM TRANSPORT BEI SCHWERVERLETZTEN UND LEBENSBEDROHTEN. [EXPERIENCE ABOUT MEDICAL AID AT THE SCENE OF AN ACCIDENT AND DURING TRANSPORT WITH SEVERELY INJURED PATIENT.] See 03-3961 S

02-3980 S

ARZTLICHE HILFE AM UNFALLORT: Erfahrungen eines Versuches in Hamburg. [MEDICAL AID ON THE SITE OF ACCIDENT: Experiences with an experiment of Hamburg.] See 03-3980 S

02-3995 S

Händel, K.

ÜBER DIE ZEITLICHEN ZUSAMMENHÄNGE ZWISCHEN UNFALL UND TOD; DAS ERGEBNIS VON 1000 TÖDLICHEN VERKEHRSUNFÅLLEN. [ON TIME RELATIONS BETWEEN THE ACCIDENTS AND DEATH; THE RESULT OF 1000 FATAL TRAFFIC ACCIDENTS.]

1 Sept. 1964. 4 p. tables. ref.

Deutsche Zeitschrift fuer die Gesamte Gerichtliche Medizin, Vol. 55, 1 Sept. 1964, pp. 187–193.

YEF Data Statistics, Contents, Study-Report Type NKFP Period, Frequency/Time, Operating Conditions,

Physical Aspect JNB Fatal, Injury/Trauma, Accident

Author determined interval from accident to death for traffic accidents. 45% died within first hour, 69% within first 24 hours. Compares his data with that of other investigators.

02-4000 N

Kraus, H. **ROAD ACCIDENTS: ESSENTIALS IN TREATING CEREBRO-CRANIAL INJURIES.** Vienna Univ., Neurosurgical Clinic. 1963. 7 p. figs. *Ciba Sympos*, Vol. 11, 1963, pp. 115–121.

WSE Therapeutic, Medical, Methods	Therapeutic, Medical, Methods			
OAIA Skull, Head, Anatomy/Body, H	Biomedical			
Aspect				
OANBB Brain, Central, Nervous System				
WSBC Maintaining Airways, First Aid				
OAL Respiratory System				

Author reviews and discusses management of cerebro-cranial injuries. Concludes that immediate appropriate measures would prevent many deaths.

02-4019 N

Hügin, W. EARLY MEDICAL TREATMENT IN CASES OF ASPHYXIATION.

Univ. Surgical Clinic, Anaesthetic Dept., Basle (Switzerland). Sept. 1961. 6 p. ref. figs.

Triangle, The Sandoz Journal of Medical Science, Vol. 5, Sept. 1961, pp. 156–167.

- JNN Asphyxia/Suffocation, Injury/Trauma, Accident
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured
- OAL Respiratory System, Anatomy/Body, Biomedical Aspect
- WSBCT Tracheostomy, Maintaining Airways, First Aid, Medical, Methods
- YER General Discussions, Contents, Study-Report Type

Comprehensive discussion of first aid measures which require a minimum of equipment. Author describes management of a blocked air passage, lack of spontaneous respiration, cessation of circulation, and problems of transport.

02-4023 N

Peart, A. F. W. THE INTEREST OF ORGANIZED MEDICINE IN TRAFFIC ACCIDENTS.

Canadian Medical Association, Toronto. 8 April 1961. 4 p. ref.

Canadian Medical Association Journal, Vol. 84, 8 April 1961, pp. 785-788.

Conference: Ontario Medical Association, Section on Industrial Medicine and Industrial Medical Association of the Province of Quebec, annual combined conference, 14 Oct. 1960.

- JN Injury/Trauma, Accident
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured
- YER General Discussions, Contents, Study-Report Type

Author reviews the work of the Canadian Medical Association's committee on medical aspects of traffic accidents. Discusses the following problems: definition of medical standards for drivers; use of seat belts; psychological studies and driver education; emergency treatment of injured persons; causes of traffic accidents.

02-4030 N Eiseman, B./ Spencer, F. C.

TRACHEOSTOMY: AN UNDERRATED SURGICAL PROCEDURE.

Kentucky Univ. Medical School, Dept. of Surgery, Lexington. 1 June 1963. 4 p. ref.

American Medical Association. Journal, Vol. 184, No. 9, 1 June 1963, pp. 684–687.

- WSD Surgery, Medical, Methods
- WSBCT Tracheostomy, Maintaining Airways, First Aid YER General Discussions, Contents, Study-Report Type
- JNP Consequences/Complications, Injury/Trauma, Accident

Authors list and discuss indications for early tracheostomy. Describe technique, equipment, complications, and postoperative care. Describe the value of the combination of positive pressure mechanical respiration and tracheostomy.

02-4041 N

Hamilton, R. D.

FATAL HEMORRHAGE DURING TRACHEOTOMY: Report of a case and use of Sheldon Tracheotome.

Walter Reed General Hospital, Neurosurgical Service, Washington, D.C. 1 Oct. 1960. 2 p. ref.

American Medical Association. Journal, Vol. 174, No. 5, 1 Oct. 1960, pp. 530-531.

JNB Fatal, Injury/Trauma, Accident

- WSBCT Tracheostomy, Maintaining Airways, First Aid, Medical, Methods
- JNK Hemorrhage
- YCK Case Study, Nature of Study, Study-Report Type

Author reports on fatality incurred during use of Sheldon tracheotome. Mortality resulted from technical difficulty, but author concludes that it would save more lives than the conventional tracheotome during mass casualty situation.

02-4078 N

Spanknebel, G. L./ Kale, P. A.

CARDIOPULMONARY RESUSCITATION AT A COM-MUNITY TEACHING HOSPITAL: Report of 37 cases. Memorial Hospital, Dept. of Medicine, Worcester, Massachusetts. Nov. 1966. 7 p. table. ref. Maine Medical Association. Journal, Vol. 57, Nov. 1966, pp. 272-277, 281.

- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect OAL Respiratory System
- OAL Respiratory System WSBCR Resuscitation, Maintain
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- YCK Case Studies, Nature of Study, Study-Report Type
- QD Teaching/Training, Educational Aspect

Authors describe their plan of action in cardiac arrest and the resuscitation equipment used, tabulating 43 episodes with respect to sex, age, diagnosis, cause of arrest, post-arrest stay, deficiencies in treatment and result of treatment. Include some illustrative case histories.

Suggest percutaneous subclavian vein puncture and

insertion of a plastic catheter for immediate delivery of drugs to the heart and body tissues, and lidocaine hydrochloride, a valuable therapeutic adjunct. Discuss the need for some type of internal cardiac pacemaker.

Since program began in 1964, growing individual experience and improvement in resuscitative techniques produced a marked increase in the survival rate.

02-4100 N

MINIMAL EQUIPMENT FOR AMBULANCES. 1967. 4 p. figs.

American College of Surgeons. Bulletin, March-April 1967, pp. 92-96.

- XT Medical, Equipment
- IQ Ambulance, Services

YEN Standards, Contents, Study-Report Type

Lists and pictures of equipment considered essential for ambulances by the Committee on Trauma. Resuscitation unit, spine boards, universal dressing, suction apparatus are added to previous list; the tourniquet is eliminated. Mode of operation, vacuum obtained, and rate of water flow for various suction units are described.

02-4127 N

Pizzi, W. F.

THE MANAGEMENT OF MULTIPLE INJURY PATIENTS.

Beekman-Downtown Hospital, Dept. of Surgery, New York. 1968. 7 p. figs. ref.

Journal of Trauma, Vol. 8, No. 1, 1968, pp. 91-103.

Conference: American College of Surgeons, New York-Brooklyn Regional Committee on Trauma, 25 March 1967, New York.

WSE Therapeutic, Medical, Methods

- JNX Multiple Severe Injuries, Injury/Trauma, Accident
- YCK Case Studies, Nature of Study, Study-Report Type

Author describes in general the emergency procedure at Beekman-Downtown Hospital. Describes and discusses ambulance care, standards for ambulance personnel, emergency room care, and role of the consultant. Lists critical, immediate medical problems according to the speciality. Presents a classification system which has been found useful in managing patients.

02-4145 S

Stemmler, E. J.

CARDIAC RESUSCITATION: A 1-year study of patients resuscitated within a university hospital. Dept. of Medicine, Hospital of the Univ. of Pennsylvania,

Philadelphia. Oct. 1965. 4 p. tables. ref. Annals of Internal Medicine, Vol. 63, No. 4, Oct. 1965,

pp. 613–618.

Grant No: HE 5239/HE 06352.

Sponsor: Southeastern Pennsylvania Heart Association/ Public Health Service, Bethesda, Maryland.

OAK Cardiovascular System

WSBCR Resusitation

YEF Data Statistics, Contents, Study-Report Type

Study of 103 patients. Author concludes that survival

may be improved by closer patient observation and by the instruction of nursing personnel in the techniques of external cardiac massage. Notes that the procedure is unobjectionable and technically simple. Presents data which show the relationship between survival and cause of arrest, age, type of rhythm, and severity of illness.

02-4152 N

Dwyer, B.

RESUSCITATION AFTER MULTIPLE INJURIES.

St. Vincent's Hospital, Dept. of Anaesthetics, Sydney (Australia). 7 March 1964. 4 p. ref.

Medical Journal of Australia, Vol. 1, 7 March 1964, pp. 349-352.

Conference: Australian Medical Association, Orthopaedic Surgery and New South Wales Branch, combined meeting, 24 April 1963, Sydney.

- JNX Multiple Severe Injuries, Injury/Trauma, Accident
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- YER General Discussions, Contents, Study-Report Type

Author reviews the biochemical and physiological changes which follow hemorrhage. Notes that hemorrhagic shock in the young will respond to transfusion of whole blood; this is not necessarily true in elderly patients. Describes and discusses ancillary forms of resuscitation. Discusses complications of rapid massive transfusion. Notes that new techniques are needed for measurement of blood volume in the injured.

02-4170 N

Phillips, P. J. DISASTER FIRST AID: Part I. Jan.-Feb. 1968. 7 p. figs. *Police*, Vol. 12, No. 3, Jan.-Feb. 1968, pp. 74-80.

WSB	First	Aid,	Medical,	Methods
		,		

JN Injury/ Trauma, Accident

YER General Discussions, Contents, Study-Report Type

First of a series related primarily to nuclear disaster, designed to supplement elementary first-aid training. Much of the information should be useful in other accident situations.

Author presents classification of casualties with regard to priority of evacuation and treatment. Describes diagnosis and treatment of minor injuries: lacerations; sprains; fractures; dislocations; concussion; burns.

02-4180 N

Gissane, W.

MEDICAL FIRST-AID AT THE ACCIDENT SITE.

Birmingham Accident Hospital (England). Dec. 1964. 4 p. figs.

Philippine Federation of Private Medical Practioners Journal, Vol. 13, Dec. 1964, pp. 783–788.

JN Injury/ Irauma, Ad	ccident
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JRGI	Professional/ Physician,	Treatment/Care,	Re-
	covery of Injured		
****	THE CASE 36 11 1 36.01	1	

WSB First Aid, Medical, Methods

DEHM Medical Units, Special Purpose, Motor Vehicle, Vehicle Author describes and discusses treatment of acute conditions demanding immediate medical assistance. Describes a first-aid kit for physicians. Lists minimum equipment.

02-4183 N

COMBAT CASUALTY MANAGEMENT IN VIETNAM. See 01-4183 N

02-4184 N

Farrington, J. D. DEATH IN A DITCH. June 1967. 12 p. fig. photos. American College of Surgeons Bulletin, Vol. 52, No. 3, May-June 1967, pp. 121-132.

QD	Teaching/ Training, Educational Aspect
WSB	First Aid, Medical, Methods
XT	Medical, Equipment
OAH	Neck, Anatomy/ Body, Biomedical Aspect
OANBC	Spinal Cord, Central, Nervous System

Minocqua, on Highway 51 in Wisconsin, is a city of 2,000 that grows to 30,000 with the resort activities. Due to poor ambulance services and inadequate training of personnel, Dr. Farrington instructed ambulance operators in rescue techniques. Gives survey in a diagnostic form to be carried out by rescue person, with recommendations for treatment if possible. States that training of rescue workers must go beyond Red Cross, International Rescue or Bureau of Mines training courses. Emphasizes attention to neck and back injuries. Describes use of back boards, equipment for rescue vehicle.

02-4185 S

Pettinari, V./ Dagradi, A. ORGANIZZAZIONE E SCOPI DEL PRONTO SOC-CORSO STRADALE. [ORGANIZATION AND SCOPE OF HIGHWAY FIRST AID]. June 1960. 11 p. figs. map. ref.

Chirurgia italiana, Vol. 12, June 1960, pp. 277-294.

- JNB Fatal, Injury/ Trauma, Accident
- JNPJ A spiration / Dehydration, Consequences / Complications
- JNPL Shock
- JNK Hemorrhage
- WSB First Aid, Medical, Methods
- VN Epidemiology/ Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type

Discuss accident statistics and the position of traffic fatalities among other causes of death.

First aid dealt with as a problem of the community authorities. Ambulances stationed at the emergency hospitals, radius of action of about 20 to 30 kilometers.

Describe and analyze injuries: 40% head injuries, 30% joint injuries, 10% thorax, etc. Many multiple injuries.

Stress the fact that with improved first aid combined with better surgical procedures, more lives could be saved (this conclusion drawn from the analysis of fatality causing injuries). Infusions carried out on the scene of the accident, plasma carried on all ambulances.

Authors say that a physician in the ambulance should limit his activity to the reestablishment of airways and of the circulatory system. They favor creation of trauma centers for traffic accident surgery. 02-4188 N

Kossuth, L. C.

VEHICLE ACCIDENTS: IMMEDIATE CARE TO BACK INJURIES.

Air Force Medical Service School, Gunter AFB, Alabama. 1966. 10 p. photos.

Journal of Trauma, Vol. 6, No. 5, 1966, pp. 582-591. Conference: American Association for Automotive Medicine, annual, 22 Oct. 1965, Rochester, Minnesota.

OAOBB	Vertebrae/	Spine,	Bones,	Musculo-Skeletal
	System, An	atomy/ l	Body, Bi	omedical Aspect
OANBC	Spinal Cord	, Central	l, Nervou	is System
OAH	Neck			

XTH Backboards, Medical, Equipment

JR Recovery of Injured, Accident

Author describes use of MSS Winch Board, a seven foot long, waxed board, with a winch at one end. Holes in legs and pins used to adjust height to that of car floor level. Pictures show use of winch board, of chair splint for immobilizing seated patient with vertebral fractures, of head band and blanket roll, and of short board back splint. Patients in various positions are discussed and precautions to be taken are suggested.

02-4191 N

STANDARDS FOR EMERGENCY AMBULANCE SER-VICES.

American College of Surgeons, Committee on Trauma, Chicago, Illinois. May-June 1967. 2 p.

American College of Surgeons Bulletin, May-June 1967.

YEN Standards, Contents, Study-Report Type IO Ambulance, Services

Authors describe standards for organization and operation, personnel, vehicles, equipment, and communications. Discuss some other factors for which standards do not exist. List sources from which the "model ambulance ordinance" may be obtained.

02-4511 N

Wilder, R. J./ McMahon, M. C.

EMERGENCY SQUAD DOCTOR: A PLAN FOR HAN-DLING TRAPPED CASUALTIES.

Baltimore City Hospitals, Maryland/ Baltimore City Fire Dept., Maryland. Feb. 1963. 2 p.

Maryland State Medical Journal, Vol. 12, Feb. 1963, pp. 57-58.

DEHM	Medical Units, Special Purpose, Motor Vehicles,
	Vehicle
WS	Medical, Methods
WSD	Surgery
JRGI	Professional/ Physician, Treatment/ Care, Re-
	covery of Injured, Accident

Authors describe, in general, the methods, personnel, and equipment used in an emergency plan.

02-4512 N

ERFAHRUNGEN MIT DEM NOTFALLARTZWAGEN DER CHIRURGISCHEN UNIVERSITÄTSKLINIK KÖLN. [EXPERIENCES WITH THE MOBILE UNIT OF THE SURGICAL UNIVERSITY CLINIC IN COLOGNE.] See 03-4512 N

02-4523 N

Speier, F.

BEITRAG ZUR SCHOCKBEKÄMPFUNG AUF DER AUTOBAHN. [CONTRIBUTION TO THE THERAPY OF SHOCK ON THE HIGHWAY.] 1957.2 p.

Münchener Medizinische Wochenschrift, Vol. 99, 1957, pp. 1459-1460.

WSB First Aid, Medical, Methods

Professional/ Physician, Treatment/ Care, Re-JRGI covery of Injured, Accident XT

Medical, Equipment

Author describes instance where he could save a life on the scene of an accident. Ambulance arrived 20 minutes after author (M.D.) started i.v. A new infusion method is reported.

Contribution to the therapy of shock on the highway.

02-4524 N

Ungeheuer, E./ Contzen, H.

BESTECK FÜR LEBENSRETTENDE MASSNAHMEN AM UNFALLORT "ARZT-KOFFER." [THE PHYSI-CIAN'S KIT FOR LIFE-SAVING MEASURES AT THE SCENE OF THE ACCIDENT].

Frankfurt Univ., Surgery Dept. (Germany). 1963. 5 p. figs.

Münchener Medizinische Wochenschrift, Vol. 105, 5 April 1963, pp. 709-711.

XT Medical, Equipment

- JRGI Professional/ Physician, Treatment/ Care, Recovery of Injured, Accident
- Injury/ Trauma JN
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods

Without the necessary instruments and drugs the physician can hardly be more effective than the medical layman trained in first aid when he is called to prevent or deal with life-threatening situations at the scene of the accident or on the way to a hospital. A few simple and suitable instruments and tools, however, will enable him to perform the most decisive emergency treatment. The "Doctor's Box" was developed and demonstrated for first-aid emergency treatment at the scene of the accident. It contains all necessary instruments and drugs and can be used by any physician without any special training or experience.

02-4530 N

Zhukov, B. P.

TRACHEAL INTUBATION IN FIRST AND EMER-GENCY AID.

Donets Medical Institute, Bogoslavskii Surgical Clinic (Russia). 1961. 9 p. table. ref.

Sovetskana Meditsina, Vol. 25, Dec. 1961, pp. 114-117. Order No: STS 6328 (English translation).

- WSBC Maintaining Airways, First Aid, Medical, Methods
- JRGI Professional/ Physician, Treatment/ Care, Recovery of Injured, Accident

Author recommends intubation and subsequent assisted ventilation as an effective first aid procedure. Describes clinical experience (methods, indications, results) in an emergency ward situation. Three illustrative case reports.

____ 03-3700 N

CHIRURGISCHE PROBLEME DER STRASSEN VER-KEHRSUNFÄLLE UND IHRE BEDEUTUNG FÜR DIE ALLGEMEINHEIT. [SURGICAL PROBLEMS OF TRAFFIC ACCIDENTS AND THEIR SIGNIFICANCE FOR THE GENERAL PUBLIC.] See 02-3700 N

03-3704 N

Becker, T./ Hartmann, G.

SITZUNGSBERICHTE AUS CHIRURGISCHEN GESEL-LSCHAFTEN; MEDIZINISCH WISSENSCHAFTLICHE GESELLSCHAFT FÜR CHIRURGIE AN DER UNI-VERSITÄT JENA. [PROCEEDINGS OF THE SYM-POSIUM OF ASSOCIATION OF SURGEONS OF UNI-VERSITY OF JENA.]

Universitätsklinik Jena (Germany). 1963. 3 p.

Zentralblatt für Chirurgie, Vol. 88, 1963, pp. 1382-1387 (Résumé).

- YEB Proceedings, Contents, Study-Report Type
- YED Abstracts
- DEH Special Purpose, Motor Vehicles, Vehicle
- JN Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- OAF Thorax
- JNPI Fat Embolism, Consequences

Proceedings of the conference presented in summary form. (1) Reference made by Lembke in Magdeburg about experiences on 2,500 calls to the scene of an accident. In this sample, Lembke only had one death during transportation. (2) Kothe discusses injuries to esophagus in chest trauma. (3) Bellmann (Dresden) discusses advisability of a mobile unit in Dresden. Author is in favor of such a measure complemented by better training of ambulance personnel and mandatory availability of first-aid kit in each physician's (good samaritan) car. (4) Ziegler in Kirchberg analyzes Emergency Department data and the geographical location of the hospital. Improved first-aid training of police officers recommended. One common telephone number for emergency throughout the nation is suggested. Improved radio communications mentioned. (5) Haase in Templin discussed insurance problems. (6) Hartmann (from Jena) discussed organization of emergency hospital and mobile unit in Moscow. The Sklifosowsky Institute has about 120-140 admissions (Emergency Room). 80% of blood transfusions are with blood obtained from cadavers. Advantage: when a victim needs large quantities of blood, they can possibly be provided from one donor only. (7) Usbeck (Erfurt). First therapy with head injuries. Advises further research by physicians on scene and during transportation. (8) Schumann (Dresden). Therapy of skull-brain injuries. Emphasis on treatment for shock, maintenance of airways, tracheostomy. Attention necessary to danger of hyperthermia. (9) Hollwich (Jena). First aid to eye injuries. (10) Rose (Magdeburg). Head injury as seen by physician at site of accident. (11) Bummer (Zurich). First aid at scene with thorax injuries. Flail chest, hemothorax, pneumothorax and cardiopulmonary resuscitation in cases of electrocution are discussed. (12) Noller (Gera). Fat embolism. Agenda of conferences are interesting, and such discussions (and/or data provided by research-physicians) will certainly clarify some of the doubts and questions about a probabilistic model for emergency medical care.

03-3714 S

Bauer, K. H.

ERSTE HILFE AM UNFALLORT UND ERSTVER-SORGUNG VERKEHRSVERLETZTER NACH KLINI-KAUFNAHME. [FIRST AID AT SCENE OF ACCIDENT AND FIRST THERAPY AFTER ADMISSION TO EMERGENCY ROOM.]

1960. 6 p.

Hefte zur Unfallheikunde, Vol. 62, 1960, pp. 89-99.

- YEF Data Statistics, Contents, Study-Report Type
- DE Motor Vehicles, Vehicle
- J Accident
- JRG Treatment/Care, Recovery of Injured
- YCK Case Studies, Nature of Study

Experiences in German cities with first aid at the scene of an accident, by physicians with an adequately equipped mobile unit, are discussed. Etiology of trauma in Germany is described, with high frequency of traffic accidents. Types of injuries are discussed in correlation with specific type of vehicle or accident. Case studies of mobile unit action are given.

Reference is made to correlation between total number of fatalities and changes in legislation of speed limits.

Emphasis on special training for trauma of all surgeons involved in emergency medical care.

03-3715 S

Wassner, U. J./ Ecke, H.

MÖGLICHKEITEN EINER INTENSIVIERUNG DER ERSTEN HILFE FÜR UNFALLVERLETZTE IN STÄDTEN MIT LÄNDLICHER UMGEBUNG. [POSSI-BILITIES FOR INTENSIFYING FIRST AID FOR AC-CIDENTS IN CITIES WITH A RURAL ENVIRON-MENT.]

Chirurgischen Universitätsklinik Giessen (Germany). Jan. 1964. 7 p. tables. ref.

Monatsschrift fuer Unfallheilkunde Versicherungs-, Versorgungs- und Verkehrsmedizin, Vol. 67, Jan. 1964, pp. 32-44.

- YCF Systems Study, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents, Study-Report Type
- KBK Rural, Terrain/Habitat, Space
- KBM Urban/Town/City
- WSI Autopsy, Medical, Methods
- DEHM Medical Unit, Special Purpose, Motor Vehicles, Vehicle

Author carried out a methodical analysis to evaluate the possibility of reducing fatalities by means of a physician on the scene of an accident.

Accident data and fatality data are plotted in and around Giessen, to correlate frequencies of fatals with distance to hospital. Etiology of trauma and time from accident to death are tabulated. Causes of death are studied in each group of fatalities (grouped by total time from accident to death). Secondary findings and concurrent causes of death are recorded.

Frequency of medical aid measures that could have prevented death is given. Maintaining airways and starting an infusion are the most common ones.

03-3740 S

KOMPLIKATIONEN NACH SCHWEREM GEDECKTEM

SCHÄDELHIRNTRAUMA IM KLINISCHEN UND MORPHOLOGISCHEN BEFUND. [CLINICAL AND MORPHOLOGICAL FINDINGS IN COMPLICATIONS FOLLOWING SEVERE CLOSED CEREBROCRANIAL TRAUMA.] See 02-3740 S

03-3743 S

Röse, W.

DER SCHÄDELVERLETZTE AUS DER SICHT DES ARZTES AM UNFALLORT. [SKULL INJURIES AS SEEN BY THE PHYSICIAN AT THE SITE OF THE ACCIDENT.]

Chirurgischen Klinik der Medizinischen Akademie Magdeburg (Germany). Feb. 1964. 3 p. ref. figs. *Chirurg*, Vol. 35, Feb. 1964, pp. 54-56.

OANBB Brain, Central, Nervous System, Anatomy/ Body

- OAI Head
- DEHM Medical Unit, Special Purpose, Motor Vehicles, Vehicle
- YCK Case Studies, Nature of Study, Study-Report Type

Aspiration, shock and hemorrhage are discussed. Brief presentation of etiology of trauma, and of on-the-scene experience of other German physicians. Case material is discussed. Of 2393 ambulance runs carried out in three years by the Surgical Clinic of the Medical School in Magdeburg, 511 had head injuries. The severity of head, skull and brain injuries and measures required on the scene to assure transportability are discussed. Some recommendations about therapy.

03-3744 S

Röse, W. DAS SCHICKSAL DES AM UNFALLORT ÄRZTLICH VERSORGTEN SHÄDELHIRNVERLETZTEN. [THE OUTCOME OF THE CEREBROCRANIAL INJURY GIVEN MEDICAL CARE AT THE ACCIDENT SITE.]

14 March 1964. 5 p. tables. ref.

Zentralblatt fuer Chirurgie, Vol. 89, 14 March 1964, pp. 369-376.

- DEHM Medical Unit, Special Purpose, Motor Vehicles, Vehicle
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident

YEF Data Statistics, Contents, Study-Report Type JNF Concussion, Injury/Trauma

- JNH Fracture
- OAIA Skull, Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- WSI Autopsy, Medical, Methods
- L Time

Author discusses etiology of head trauma. Findings of complications of head injuries on the scene and during transportation are discussed as a result of the experience of author who in about 3 years went on 2,393 ambulance runs, of which 511 were for head injuries.

Number of severe head injuries, and number of fatals before arrival of physician, are given. Claims no fatalities during transportation. Etiology of trauma, description of accident, and description of specific type of head injury are tabulated. Autopsy results show pulmonary complications, as tabulated for 10 cases. Length of period of unconsciousness is discussed. Author claims to have reduced number of severe states of shock, and of pulmonary complications. Mortality rate 30%.

03-3754 S

ERSTE BEHANDLUNG DER VERLETZUNGSFOLGEN BEI STRASSENVERKEHRSUNFÄLLEN. [FIRST TREATMENT OF THE COMPLICATIONS OF INJURY WITH TRAFFIC ACCIDENT.] See 23-3754 S

03-3815 N Collins, J.

ORGANIZATION AND FUNCTION OF AN ACCIDENT FLYING SQUAD.

3 Sept. 1966. 3 p.

British Medical Journal, 3 Sept. 1966, pp. 578-580.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- WSD Surgery
- XT Medical, Equipment

Organization and objectives of accident flying squad started in Derby, England in 1955 are described. Accent has been mainly on industrial injuries. Staffing of squad, method of call, a major accident plan, and communications are described. The maximum number of eighteen calls per year is relatively low.

03-3820 N

RECUSCITATION - 1966: An answer to the age-old problems of postponing death in a cardiac or pulmonary emergency takes form in a newly-designed 'mobile unit'. See 02-3820 N

03-3900 N

Milner, B.

FLYING SQUAD.

Royal Alexandra Hospital for Sick Children, Brighton (England). 25 Sept. 1964. 4 p. photos.

Nursing Times, Vol. 60, 25 Sept. 1964, pp. 1251-1254.

- EC Children, People
- X Equipment
- DEHL Ambulance, Special Purpose, Motor Vehicles, Vehicle
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident

Describes special ambulance team and equipment whose sole purpose is to provide emergency care to sick babies. Portable Oxygenaire incubator is the main feature of equipment; trained infant's-ward staff nurses go on all calls. 73 infants were transported in 1962, and 88 in 1963.

03-3961 S

Friedhoff, E./ Lehmann, H. D. ERFAHRUNGEN ÜBER ERSTE ÄRZTLICHE HILFE AM UNFALLORT UND AUF DEM TRANSPORT BEI

SCHWERVERLETZTEN UND LEBENSBEDROHTEN. [EXPERIENCE ABOUT MEDICAL AID AT THE SCENE OF AN ACCIDENT AND DURING TRANSPORT WITH SEVERELY INJURED PATIENT.]

1960. 8 p. figs. tables.

Hefte zur Unfallheilkunde, Vol. 62, 1960, pp. 111-124.

- YEF Data Statistics, Contents, Study-Report Type JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- DEH Special Purpose, Motor Vehicles, Vehicle
- WSD Surgery, Medical, Methods
- YER General Discussions, Contents, Study-Report Type

Authors describe mobile unit as it is used in the city of Cologne. Tabulate etiology of trauma by number of calls, people involved, fatalities before arrival of the unit, deceased in the mobile unit, and transported by other means.

Stress promoting transportability of patient as main objective of medical team. Therapeutic measures for the respiratory system, circulatory system, pain relief, and others are indicated by frequencies for each type of trauma. The difference between urban and rural conditions is discussed. A discussion by conference participants follows.

03-3962 N

DIE ERSTVERSORGUNG AM UNFALLORT. [FIRST TREATMENT AT THE SCENE OF AN ACCIDENT.] See 04-3962 N

03-3964 N

ZUR ERSTVERSORGUNG SCHWERSTER SCHÄDEL-HIRNTRAUMEN. [ON FIRST AID IN VERY SEVERE CRANIOCEREBRAL TRAUMAS.] See 11-3964 N

03-3977 N

HUBSCHRAUBERTRANSPORT VON SCHWERVER-LETZTEN – ÄRZTLICHE AUFGABE UND ERFAHRUNGEN. [TRANSPORT BY HELICOPTER OF SEVERELY INJURED – MEDICAL FUNCTION AND EXPERIENCE.] See 04-3977 N

03-3978 S

Mahler, W.

DER OPERATIONSWAGEN DER CHIRURGISCHEN UNIVERSITÄTSKLINIK HEIDELBERG. [THE MOBILE OPERATION ROOM OF THE CHIRURGISCHE UNI-VERSITÄTSKLINIK HEIDELBERG.]

Chirurgischen Universitätsklinik Heidelberg (Germany). Sept. 1960. 5 p. photos. table. ref.

Chirurg, Vol. 31, Sept. 1960, pp. 421-425.

- WSD Surgery, Medical, Methods
- DEH Special Purpose, Motor Vehicles, Vehicle
- IO Hospitals, Services
- YCK Case Studies, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents, Study-Report Type

Author stresses that mere transportation of accident victims is dangerous for cases with severe bleeding, shock, multiple fractures, and a large number of those with brain

injuries. The surgery clinic of the Heidelberg University has a staff of about 60 doctors and 140 nurses, out of which a surgical team is scheduled to be available around the clock to go out to the scene of serious accidents. The surgical—bus is described. On every call one surgeon, two assistant surgeons, one anesthesiologist, a surgery nurse, and an aide make up the team. The major objective is not to provide major surgery on the scene of an accident but to achieve "transportability" of the victim. After the victim has been stabilized, the transportation is provided by regular ambulances of the German Red Cross.

Some case reports are given. Frequency of various kinds of injury are shown. On 20% of the calls author claims that life-saving measures by surgical team were indispensable for the survival of victim.

03-3979 S

Kootz, F./ Friedhoff, E.

NARKOSE UND INTUBATION AM UNFALLORT UND AUF DEM TRANSPORT IN DAS KRANKENHAUS. [ANESTHESIA AND INTUBATION AT THE SITE OF ACCIDENT AND TRANSPORTATION TO THE HOS-PITAL.]

Chirurgische Universitätsklinik Köln (Germany). Aug. 1960. 6 p. figs. tables. ref.

Anaesthesist, Vol. 9, Aug. 1960, pp. 256-261.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- WSBC Maintaining Airways, First Aid, Medical, Methods
- WSF Anesthesia
- DEH Special Purpose, Motor Vehicles, Vehicle
- YEF Data Statistics, Contents, Study–Report Type

The Cologne mobile unit is described. Number of cases requiring anesthesia (general) is given for the various categories of accident victims, with respective results. Endotracheal intubation at the scene of an accident is mentioned as a very important life-saving measure. Frequency and results of intubation are given. Sixteen cases of anesthesia are discussed, with description of the accident, the type of injury, the indications for and type of anesthesia, and the results.

03-3980 S

Nachtrab, H./ Buchholz, H. W.

ÄRZTLICHE HILFE AM UNFALLORT: Erfahrungen eines Versuches in Hamburg. [MEDICAL AID ON THE SITE OF ACCIDENT: Experiences with an experiment in Hamburg.]

Feb. 1966. 5 p. table. ref.

Monatsschrift für Unfallheilkunde, Versicherungs-, Versorgungs- und Verkehrsmedizin, Vol. 69, Feb. 1966, pp. 49–57.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- YEF Data Statistics, Contents, Study-Report Type
- YCK Case Studies, Nature of Study
- WSE Therapeutic, Medical, Methods

A total of 1470 calls were made, over a period of seven months, to a special "physician-ambulance" in Hamburg.

Over one-third were dry runs. Types of medical emergencies are tabulated, and the corresponding injuries are discussed. Only 48 cases were severely ill or injured. In 28 cases the presence of the physician at the scene was definitely required.

- 03-3981 S
 - Liebenow, H. C.

ÄRZTLICHE ERSTE HILFE AM UNFALLORT IN EINER MITTELSTADT. [MEDICAL FIRST AID AT THE SITE OF AN ACCIDENT IN A MEDIUM SIZE TOWN.]

Chirurgischen Klinik des Bezirkskrankenhauses Brandenburg (Havel) (Germany). 5 Aug. 1965. 3 p. ref. Deutsche Gesundh, Vol. 20, 5 Aug. 1965, pp.

Deutsche Gesundh, Vol. 20, 5 Aug. 1965, pp. 1416–1418.

JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident

KBMUrban/Town/City, Terrain/Habitat, SpaceXEquipment

Liebenow's "physician team at the scene" carried out 100 runs in 16 months (1963-64).

Author discusses organizational aspects and describes equipment. In Brandenburg-Havel, a city of about 90,000 inhabitants, work of "physician team" is in conjunction with firemen. Of 100 runs there were 34 in which there were either no injured people at all, the injured had already been transported by other means or the accident caused instantaneous death on the scene. Forty-one of the remaining cases are called justified; i.e., such that there was the requirement for a physician at the scene and during transportation.

Round trip runs varied from six to 30 miles.

03-3982 S

Koslowski, L. ERSTE HILFE AM UNFALLORT UNTER EIN-SCHLUSS DER FEHLER UND GEFAHREN. [FIRST AID AT THE ACCIDENT SITE WITH REFERENCE TO ERRORS AND DANGERS.] 1965. 3 p. tables.

Hefte zur Unfallheilkunde, Vol. 81, 1965, pp. 220-225.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- DEH Special Purpose, Motor Vehicles, Vehicle X Equipment

Of 5,900 cases of skull-brain injury brought to the Freiburg Surgical Clinic from 1950 to 1965, about 45% were seen and treated at the scene by a physician. Author gives priority of action required by laymen and physician at the scene of accident.

Importance of good communication emphasized. Insists on value of laymen's assistance and therefore, general education for first aid.

03-3983 S

Reichmann, W./ Wellmer, H. K.

ERFAHRUNGEN MIT DEM KÖLNER NOTFALLARZT-WAGEN AUS UNFALLCHIRURGISCHER SICHT. [EX-PERIENCES WITH THE COLOGNE EMERGENCY AMBULANCE FROM THE VIEWPOINT OF ACCIDENT SURGERY.] 1964. 2 p. table. figs.

Hefte zur Unfallheilkunde, Vol. 78, 1964, pp. 206-208.

DEH Special Purpose, Motor Vehicles, Vehicle

- X Equipment
- VN Epidemiology/Etiology, Disciplines
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident

WSE Therapeutic, Medical, Methods

Authors summarize continued experience with surgical van in Cologne. About one in every few ambulance calls required trauma team attention on the scene. In three years (1960–62) in a total of 8,950 ambulance calls, 774 surgical-van runs were carried out. Of these 774, a total of 310 are called fully justified.

Reasons for inefficiency in system (60% of calls did not need physician) are the inadequate assessment of severity of injury by lay people, and the unwillingness to risk a loss in time to allow for more skilled people to arrive at the scene, assess criticality and then call the surgical van and trauma team.

Of 310 runs, 187 were properly stabilized and taken to hospital alive and in improved conditions. 50% of the latter had head injuries. Tracheostomy a very frequent procedure.

03-3984 S

ÄRTZTLICHE AUFGABEN BEIM TRANSPORT VON SCHWERVERLETZTEN MIT HUBSCHRAUBERN. [TASKS OF THE PHYSICIAN IN THE TRANSPORTA-TION OF SERIOUSLY INJURED PERSONS BY HELI-COPTER.] See 04-3984 S

03-3993 N

Hackethal, K. H. DIE ERSTVERSORGUNG DES VERLETZTEN AM UNFALLORT. [FIRST MANAGEMENT OF THE IN-JURED AT THE SITE OF THE ACCIDENT.] Erlangen Universität, Chirurgischen Klinik (Germany). 22 Feb. 1963. 6 p. tables. figs. Medizinische Klinik, Vol. 58, 22 Feb. 1963, pp. 283–288.

JRGI	Professional/Physician,	Treatment/Care,	Re-
	covery of Injured, Accid	ent	

- WSB First Aid, Medical, Methods
- JN Injury/Trauma
- WSBC Maintaining Airways
- JNN Asphyxia/Suffocation
- JRH Transportation, Recovery of Injured, Accident

Author discusses in detail resuscitation, effective pain relief, preparation for transportation, adequate positioning, clear directions for transportation. Special attention given to whip-lash victims and corresponding care.

03-4018 N

SOME PROBLEMS ENCOUNTERED IN THE AERIAL TRANSPORTATION OF PATIENTS TO HOSPITAL. See 04-4018 N

03-4090 S

Friedhoff, E./ Hoffmann, V.

ARZTLICHE VERSORGUNG SCHWERVERLETZTER AM UNFALLORT UND AUF DEM TRANSPORT. [TREATMENT BY PHYSICIAN OF THE SEVERELY INJURED, AT THE SCENE OF THE ACCIDENT AND DURING TRANSPORTATION.] 1959. 8 p. figs. tables.

Münchener Medizinische Wochenschrift, Vol. 101, 1959, pp. 1430-1437.

- JRGI Physician, Treatment/Care, Recovery of Injured, Accident
- JNX Multiple Severe Injuries, Injury/Trauma
- DEHM Medical Units, Special Purpose, Motor Vehicles, Vehicle
- YEF Data Statistics, Contents, Study-Report Type
- YCK Case Studies, Nature of Study
- WSD Surgery, Medical, Methods
- NKF Frequency/Time, Operating Conditions, Physical Aspect

Authors describe most frequent causes of death on the scene of an accident and during transportation, and a mobile unit containing a small surgery room for more efficient treatment of the severely injured. 579 calls, involving 702 injured persons, during a period of about two years, are described listing in detail the following: etiology of trauma, number of deaths, number of deaths before arrival of the physician on the scene, distribution of injuries by body area, frequencies by hour of day, day of week, month of year, medical therapy provided at scene and during transportation. Intubation is considered superior to tracheostomy. Frequency of I.V.'s and aspiration (suction) to maintain airways is high. Five case reports are mentioned to demonstrate need for physician at scene.

03-4173 N

L'IMPIEGO DELL'ELICOTTERO QUALE MEZZO DI PRIMO SOCCORSO DURANTE LE OPERAZIONI DI SGOMBERO E DI TRASPORTO SANITARIO. [THE USE OF THE HELICOPTER AS A MEANS OF FIRST AID DURING OPERATIONS OF MEDICAL EVACUA-TION AND TRANSPORT.] See 04-4173 N

03-4185 S

ORGANIZZAZIONE E SCOPI DEL PRONTO SOC-CORSO STRADALE. [ORGANIZATION AND SCOPE OF HIGHWAY FIRST AID.] See 02-4185 S

03-4337 S

т.

Gogler, E. **ROAD ACCIDENTS.**

Heidelberg Univ., Surgical Clinic (Germany). 1965. 176 p. photos. tables. figs.

Series chirurgica Geigy, No. 5, 1962.

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Source: Geigy Ltd., Pharmaceuticals Div., Manchester (England).

JA	Preventive Measures, Accident
JL	Accident Investigation
JN	Injury
JD	Collision
DHC	Chassis, Vehicle Parts, Vehicle
DMD	Restraint Systems, Auxiliaries/Accessories

DHD Body (Upper)

n

- JRG Treatment/Care, Injury/Trauma
- YER General Discussions, Contents, Program-Report Type
- Photographs/Illustrations YEI

Author discusses etiology of trauma, epidemiologic aspects, injury patterns, causes of death. Case histories

documented with photos provide coverage of majority of injuries presented. First aid, emergency treatment at hospital, and surgery are discussed and documented. Bibliography, with 765 references, covers many aspects of accident causation, modes of injury, therapy, rehabilitation.

03-4505 N

AMBULANCE BRINGS OPERATING ROOM TO JAPA-NESE TRAFFIC ACCIDENT VICTIMS. 16 Sept. 1966. 2 p. photos.

Medical World News, Vol. 16, 16 Sept. 1966, pp. 44-45.

- DEHM Ambulance, Medical Units, Special Purpose, Motor Vehicles, Vehicle
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- WS Medical, Methods

Article presents labeled illustration of ambulance. Brief description of its use.

03-4511 N

EMERGENCY SQUAD DOCTOR: A plan for handling trapped casualties. See 02-4511 N

03-4512 N

Friedhoff, E. ERFAHRUNGEN MIT DEM NOTFALLARZTWAGEN DER CHIRURGISCHEN UNIVERSITÄTSKLINIK KÖLN. [EXPERIENCES WITH THE MOBILE UNIT OF THE SURGICAL UNIVERSITY CLINIC IN COLOGNE]. Cologne Univ., Surgery Dept. (Germany). 1960. 4 p. table.

Landarzt, Vol. 36, 1960, pp. 663-667.

- DEHM Medical Units, Special Purpose, Motor Vehicles, Vehicle
- WS Medical, Methods
- WSD Surgery
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- WSE Therapeutic
- VN Epidemiology/Etiology, Disciplines

Author discusses statistics of traffic accidents and need for improved emergency medical care. Describes surgical mobile unit on 2.5 ton truck chassis designed and built by Ford-Cologne for the Cologne University Clinics. Describes number of calls, persons attended, epidemiology of trauma and frequencies of various therapies as provided by trauma surgeon at the site of the accident. Emphasis on treatment for traumatic shock. High number of I.V. fluids applications, airways problems, intravenous shots for pain relief, shots in general for the circulatory system, and splinting. Three case reports.

03-4523 N

BEITRAG ZUR SCHOCKBEKÄMPFUNG AUF DER AUTOBAHN. [CONTRIBUTION TO THE THERAPY OF SHOCK ON THE HIGHWAY.] See 02-4523 N

03-4525 N Hashimoto, Y./ Sakakibara, K. MOBILE OPERATING ROOM AND EMERGENCY TREATMENT VEHICLE.

20 Aug. 1965. 14 p. figs. *Clinical Surgery*, Vol. 20, No. 8, 20 Aug. 1965. Order No: STS 6059 (English translation).

- DEHM Medical Units, Special Purpose, Motor Vehicles, Vehicle
- JRGI Professional/ Physician, Treatment/ Care, Recovery of Injured, Accident
- JNX Multiple Severe Injuries, Injury/ Trauma
- WSI Autopsy/ Pathology, Medical, Methods
- XT Medical, Equipment

Describes mobile surgery room of the Tokai Accident Control Center, affiliated with surgical section of Medical School, Nagoya University. TACC has radio communications, telemetry, three mobile operating rooms, fourteen ambulances, ten patrol cars, and two equipment transporting vehicles. Stresses accident frequency; need for prompt and adequate first aid. Dimensional description and equipment. Includes sketches, views, photographs.

03-4531 N

An outline of the mobile operating room, "Toyota-Go." Tokai Traffic Accident Control Center (Japan). n.d. 15 p. photos.

Order No: STS 6060 (English translation).

- DEHM Medical Unit, Special Purpose, Motor Vehicles, Vehicle
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- JNX Multiple Severe Injuries, Injury/Trauma
- WSI Autopsy/Pathology, Medical, Methods
- XT Medical, Equipment

Describes communication systems for the TACC. Gives dimensional description and lists equipment of the bus-surgery room: operating equipment, defibrillator, skull surgical equipment, U.S. diagnosis systems, Byrd's respirator, iron lung, surgical cabinet with instrument sets for brain, chest, abdominal, and vascular surgery and tracheotomy, scrubbing equipment, sterilizing lamp, refrigerator, telemetry equipment, air conditioning generator.

03-4539 S

Junghanns, H. BERICHT ÜBER EIN CLINOMOBIL. [REPORT ON A CLINOMOBILE.]

1964. 3 p. tables. figs.

Monatsschrift fur Unfallheilkunde Versicherungs-, Versorgungs, und Verkehrsmedizen, Vol. 78, 1964, pp. 202-206.

JN Injury/Trauma, Ac	ccident
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- DEHM Medical Units, Special Purpose, Motor Vehicles, Vehicle
- JRGI Professional/ Physician, Treatment/ Care, Recovery of Injured
- YEF Data Statistics, Contents, Program-Report Type

Report on the mobile unit of a workman's compensation hospital in Frankfurt, Germany. Author discusses organization of first aid at the scene: cooperation with police, geographical range, staff. Emphasis on first aid at the scene and reasonable transportation. 04-3762 N DRINGLICHKEIT DER VERSORGUNG BEI UN-FALLVERLETZTEN. [URGENCY OF ACCIDENT IN-JURY CARE.] See 02-3762 N

04-3962 N Gögler, E.

DIE ERSTVERSORGUNG AM UNFALLORT. [FIRST TREATMENT AT THE SCENE OF AN ACCIDENT.] Chirurgischen Universitätsklinik Heidelberg (Germany). April 1964. 5 p. ref. Regensburger Jahrbuch fur Arztliche Fortbildung, Vol.

Regensburger Jahrbuch für Arztliche Fortbuldung, Vol. 12, April 1964, pp. 15–21.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- DEH Special Purpose, Motor Vehicle, Vehicle
- WSC Diagnosis, Medical, Methods
- WSE Therapeutic

Author points out need to prepare victim for transportation; discusses difficulty of diagnosis in many cases, and use of the helicopter. Describes "physicians' kit" for emergencies. Extensive bibliography.

04-3977 N

Scholler, K. L./ Weller, S.

HUBSCHRAUBERTRANSPORT VON SCHWERVER-LETZTEN – ÄRZTLICHE AUFGABE UND ERFAHRUNGEN. [TRANSPORT BY HELICOPTER OF SEVERELY INJURED – MEDICAL FUNCTION AND EXPERIENCE.]

May 1965. 3 p. figs. tables. ref.

Therapiewoche. Karlsruhe, Vol. 15, May 1965. pp. 459-462.

DDCD Helicopters, Airborne, Power Vehicle, Vehicle JNX Multiple Severe Injuries, Injury/Trauma, Accident

JRGI Professional/Physician, Treatment/Care, Recovery of Injured

Authors discuss their experience with helicopters. Two types of utilization: patient transfer and first aid on accident scene. Helicopters in Germany can be requested from the army. Discuss machines currently available in Germany, advantages and disadvantages of the types. List number of cases and types of patients transferred, equipment carried on helicopter. Accompanying physician usually an anesthesiologist.

04-3984 S

Scholler, K. L./ Weller, S. ARZTLICHE AUFGABEN BEIM TRANSPORT VON SCHWERVERLETZTEN MIT HUBSCHRAUBERN. [TASKS OF THE PHYSICIAN IN THE TRANSPORTA-TION OF SERIOUSLY INJURED PERSONS BY HEL-ICOPTER.]

Chirurgischen Universitätsklinik Freiburg (Germany). 19 Feb. 1965. 3 p. table. fig.

Deutsche Medizinische Wochenschrift, Vol. 90, 19 Feb. 1965, pp. 344-346.

DDCD Helicopters, Airborne, Power Vehicle, Vehicle JRGI Physician, Treatment/Care, Recovery of Injured. Accident

JNP Consequences/Complications, Injury/Trauma

OAL Respiratory System, Anatomy/Body, Biomedical Aspect

Authors describe their experience with patient transfers in helicopter. All of them were cases of spinal cord injury. Age of patient, type of injury, number of days between accident and transfer, position of patient, tracheostomy and/or oxygen and type of helicopter are tabulated. Patients usually accompanied by anesthesiologist.

04-4018 N

O'Leary, T. J.

SOME PROBLEMS ENCOUNTERED IN THE AERIAL TRANSPORTATION OF PATIENTS TO HOSPITAL.

Australian Royal Flying Doctor Service. Sept. 1961. 4 p. Medical Journal of Australia, Vol. 48, No. 2, Sept. 1961, pp. 526-529.

Conference: John Alexander Cameron Memorial Lecture, 15 July 1960, Ipswich, Australia.

DDC Airborne, Power Vehicle, Vehicle

- JRH Transportation, Recovery of Injured, Accident JN Injury/Trauma
- YER General Discussions, Contents, Study-Report Type

Author describes purpose and history of the Flying Doctor Service, discusses medical personnel and method of financing, and recounts a number of difficult transport problems.

04-4021 N

MEDICAL CRITERIA FOR PASSENGER FLYING.

Aerospace Medical Association, Committee on Medical Criteria. May 1961. 8 p. tables. ref.

Aerospace Medicine, Vol. 32, No. 5, May 1961, pp. 369-382.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- DDC Airborne, Power Vehicle, Vehicle
- YER General Discussions, Contents, Study-Report Type

Author discusses factors which should be considered when establishing such criteria. Lists and describes the physiologic changes associated with flight. Lists and discusses common medical problems which may or may not require special precautions.

04-4093 N

Waters, J. M., Jr.

HELICOPTERS IN CIVIL MEDICAL EVACUATIONS. National Highway Safety Bureau, Div. of Emergency Treatment and Transfer of the Injured, Washington, D.C. 1967 approx. 13 p.

DDCD Helicopters, Airborne, Power Vehicle, Vehicle JN Injury/Trauma, Accident

JRH Transportation, Recovery of Injured

Author reviews use of helicopters by the military and indicates potential for such use in highway accidents. Suggests possible sources of helicopters for use in civil emergencies. Discusses practical and economic factors. 04-4095 N

MEDICINE IN SOUTH VIETNAM TODAY, PART 5: VUNG TAU-AUSTRALIAN TROOPS, AMERICAN HELICOPTERS AND SYDNEY DOCTORS. See 01-4095 N

04-4110 N

Myers, R. N./ Angelides, A. P./ Haupt, G. J.

A CIVILIAN AEROMEDICAL LIFESAVING PLAN, HELP.

Lankenau Hospital, Dept. of Surgery/ Lankenau Hospital, Dept. of Medicine, Pennsylvania. Oct. 1965. 3 p. ref. photos.

Pennsylvania Medicine. Journal, Vol. 68, Oct. 1965, pp. 51-53.

- JRGI Professional/ Physician, Treatment/ Care, Recovery of Injured, Accident
- DDCD Helicopters, Airborne, Power Vehicle, Vehicle

Historical background and organization of Helicopter Emergency Lifesaving Patrol (HELP) of Philadelphia.

04-4135 N

MEDICAL CRITERIA FOR PASSENGER FLYING ON SCHEDULED COMMERCIAL FLIGHTS.

Aerospace Medical Association, Committee on Medical Criteria. 4 March 1961. 2 p.

American Medical Association. Journal, Vol. 175, No. 9, 4 March 1961, pp. 796–797.

- DDC Airborne, Power Vehicle, Vehicle
- JRH Transportation, Recovery of Injured, Accident YER General Discussions, Contents, Study-Report Type
- WS Medical, Methods

04-4136 N

Stonehill, R. B.

THE PATIENT IN COMMERCIAL JET AIRCRAFT.

Air Force Hospital Lackland, Lackland AFB, Texas. 9 July 1960. 3 p. ref.

American Medical Association. Journal, Vol. 173, No. 10, 9 July 1960, pp. 1121-1123.

- DDC Airborne, Power Vehicle, Vehicle
- JRH Transportation, Recovery of Injured, Accident YER General Discussions, Contents, Study-Report Type
- WS Medical, Methods

Author describes and discusses general aeromedical considerations. Discusses suitability of air travel with respect to several common types of medical disorders.

04-4137 S

Bourne, G. EFFECTS OF FLYING ON PATIENTS WITH CAR-DIOVASCULAR DISEASE. St. Bartholomew's Hospital, London (England). 5 Feb. 1955. 4 p. figs. tables. ref.

British Medical Journal, Vol. 4909, 5 Feb. 1955, pp. 310-313.

Conference: World Congress of Cardiology, 2nd, 16 Sept. 1954, Washington.
- DDC Airborne, Power Vehicle, Vehicle
- JNP Consequences/ Complications, Injury/ Trauma, Accident
- OAK Cardiovascular System, Anatomy/ Body, Biomedical Aspect

Author reviews 30 cases, all able to travel by air. Emphasizes that each case must be considered on its merits. Data statistics: age; sex; pertinent clinical information; distance of flight.

04-4138 N

Ware, R. W./ Kahn, A. R. AUTOMATIC INDIRECT BLOOD PRESSURE DETER-

MINATION IN FLIGHT. Air Force School of Aerospace Medicine, Dept. of Bioastronautics, Brooks AFB, Texas. Jan. 1963. 5 p. figs. ref.

Journal of Applied Physiology, Vol. 18, Jan. 1963, pp. 210-214.

DDC Airborne, Power Vehicle, Vehicle

WUPD Blood Pressure, Physiological, Testing/ Measures, Methods

Authors describe technique and apparatus. Method was developed primarily for aerospace medical use but has been successfully used in other situations.

04-4139 N

O'Leary, T. J. AERIAL MEDICAL EVACUATION WITH SPECIAL EMPHASIS ON THE PRECAUTIONS NECESSARY IN PARTICULAR CIRCUMSTANCES.

Royal Flying Doctor Service, Charleville, Queensland (Australia). 23 April 1966. 3 p. ref.

Medical Journal of Australia, Vol. 1, 23 April 1966, pp. 717–719.

- DDC Airborne, Power Vehicle, Vehicle
- JRH Transportation, Recovery of Injured, Accident
- YER General Discussions, Contents, Study-Report Type

Author reviews his experiences as a flying doctor in a remote and sparsely populated section of Australia.

04-4140 N

Cara, M./ Poisvert, M. THE TRANSPORT OF PATIENTS WITH RESPIRATO-RY INSUFFICIENCY.

Hopital Necker, Paris (France). 24 March 1965. 3 p. ref. figs.

New York Academy of Sciences Annals, Vol. 121, 24 March 1965, pp. 886-890.

- OAL Respiratory System, Anatomy/ Body, Biomedical Aspect
- DDC Airborne, Power Vehicle, Vehicle
- JRH Transportation, Recovery of Injured, Accident

Authors describe system used to transport seriously ill patients who require treatment en route to the hospital (1800 cases in eight years). Describe standard equipment carried by each unit of transport (airplane, ambulance or helicopter). Briefly describe resuscitation procedures.

04-4141 N

Waller, D. J.

ASSISTED RESPIRATION IN AIR EVACUATION.

Royal Canadian Air Force, Vancouver (British Columbia). Jan. 1964. 10 p. ref. photos.

Medical Services Journal, Canada, Vol. 20, Jan. 1964, pp. 25-34.

Conference: Surgeon General's Clinical Conference, 4th annual, 25-27 March 1963, Esquimalt, British Columbia.

DDC Airborne, Power Vehicle, Vehicle

WSBCRM Mechanical, Resuscitation, Maintaining Airways, First Aid, Medical, Methods

WSBCT Tracheostomy

JRH Transportation, Recovery of Injured, Accident

Author describes experience with 24 seriously ill patients with varying degrees of hypoventilation. Describes pre-flight care, in-flight care, and results. Describes the intermittent positive pressure appartus (Bird MKVII) used, and modifications of apparatus. Concludes that this type of respirator is particularly suitable for air evacuation. Three illustrative case reports.

04-4173 N

Patti, M./ Giuffrida, L.

L'IMPIEGO DELL'ELICOTTERO QUALE MEZZO DI PRIMO SOCCORSO DURANTE LE OPERAZIONI DI SGOMBERO E DI TRASPORTO SANITARIO. [THE USE OF THE HELICOPTER AS A MEANS OF FIRST AID DURING OPERATIONS OF MEDICAL EVACUA-TION AND TRANSPORT]. Nov.-Dec. 1965. 4 p.

Annali di medicina navale e tropicale, Vol. 70, Nov.-Dec. 1965, pp. 867-872.

- DDCD Helicopter, Airborne, Power Vehicle, Vehicle JRGI Professional/ Physician, Treatment/ Care, Recovery of Injured, Accident
- YCK Case Studies, Nature of Study, Study-Report Type

Describes operation and experience of the Helicopter Group M.M. di Catania, which, in the last three years, has carried out 94 flights for medical transportation, of which approximately 10% were for traffic accidents. A physician always rides the helicopter, and the need to have this set-up is stressed based on their experience. Some sample cases are mentioned. One particularly demonstrates the need for a physician in care of a patient in acute traumatic shock to give the pilot instructions about flying height and speed, to minimize pressure variation and vibration effects.

04-4174 N

CANADIAN AIR AMBULANCE SERVICE ANSWERS WIDELY SCATTERED CALLS.

Jan. 1966. 2 p.

Modern Hospital, Vol. 106, No. 1, Jan. 1966, pp. 64-65.

- DDCB Airplane, Airborne, Power Vehicle, Vehicle
- YER General Discussions, Contents, Study-Report Type
- JRH Transportation, Recovery of Injured, Accident JRGI Professional/ Physician, Treatment/ Care

Describes development and use of this service in Alberta. Illustrates by a case outline the procedure of initiating and dealing with a call.

BIBLIOGRAPHY

04-4177 S

Lavernhe, J./ Lafontaine, E./ Lequesne, M. LE TRANSPORT AÉRIEN DES MALADES ET BLESSÉS; A propos d'une série de 707 observations. [AERIAL TRANSPORT OF THE SICK AND INJURED; Apropos of a series of 707 cases]. 23 July 1966. 3 p. tables. ref.

Presse Medicale, Vol. 74, 23 July 1966, pp. 1831-1833.

DDCB Airplanes, Airborne, Power Vehicle, Vehicle

JRH Transportation, Recovery of Injured, Accident

JN Injury/ Trauma YEF Data Statistics, Contents, Study-Report Type

Listing of conditions of patients to whom admission to flight was refused. Tabulation of illnesses, trauma and surgery conditions of those admitted for flight. Length of flights, types of plane, means of arrival at airport, and type of person accompanying the patient (none, lay, nurse or physician) are tabulated. Precautions and/or emergencies occurring during flight listed.

04-4178 N

Kirby, E. L.

PATROLLING THE ROADS WITH AIRCRAFT.

National Safety Council, Chicago, Illinois. April 1966. 2 p. photos. table.

Traffic Safety, Vol. 66, No. 4, April 1966, pp. 14-15.

DDCB Airplanes, Airborne, Power Vehicle, Vehicle Survey, Nature of Study, Study-Report Type YCD **JRH** Transportation, Recovery of Injured, Accident

Author found 18 of 45 states used aircraft, primarily for detection of traffic violations. Lists some other uses. Concludes chief disadvantage is expense. Tabulates (18 states): aircraft used; hours flown per yr.; types of roads patrolled; number of pilots; observer. Lists reasons for discontinuance (7 states).

04-4183 N

COMBAT CASUALTY MANAGEMENT IN VIET-NAM. See 01-4183 N

04-4187 N

Howard, J. R.

HELICOPTERS EXPAND HOSPITAL SERVICE AREA. Aerospace Industries Association of America, Inc., Washington, D.C. 1965. 5 p. photos.

Source: McGraw-Hill, Inc.

Conference: Flying Physicians' Association, Aug. 1965, Miami Beach, Florida.

DDCD Helicopters

There are 1000 heliports and 860 operators of 2035 helicopters in the U.S. and Canada, but in the entire U.S. only 34 hospitals are known to have designated heliports. Describes heliport site, design, size, cost. The Los Angeles area has 18, the largest network of city-center heliports in the world.

The Indiana University Medical Center uses its heliport to pick up ambulance patients at the city's edge for over-traffic flight to the hospital.

Reference is made to a Helicopter Medical Emergency Service in West Germany.

Lists the designated Hospital Heliports in the U.S.

04-4193 N THE BLOODY LANES. See 01-4193 N

11-2592 S TRAFFIC INJURY IN BRISBANE. Report of a general survey. See 01-2592 S

11-3705 S AN ANALYSIS OF 950 FATAL INJURIES. See 25-3705 S

11-3713 S EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. [AN ANALYSIS OF 827 CASES OF FATAL ACCI-DENTS.] See 24-3713 S

11-3738 S

Schürmann, K. **BESONDERE KREISLAUFREAKTIONEN IM AKUTEN** STADIUM DER SCHÄDEL-HIRNSCHÄDIGUNGEN. [SPECIAL CIRCULATORY REACTIONS IN THE ACUTE STAGE OF CRANIOCEREBRAL INJURIES.] Neurochirurgischen Abteilung der Universität Mainz (Germany). 6 Aug. 1963. 6 p. ref. figs.

Acta Neurochirurgica (Wien), Vol. 11, 6 Aug. 1963, pp. 294 - 304.

JNF	Concussion, Injury/Trauma, Accident				
JNH	Fracture				
JNK	Hemorrhage				
OAK	Cardiovascular System, Anatomy/Body, Bio-				
	medical Aspect				
OAIA	Skull, Head				
OANBR	Brain Central Nervous System				

OANBB Brain, Central, Nervous System

YEF Data Statistics, Contents, Study-Report Type

Time

1639 brain and skull injury cases were observed during seven and a half years. Material is classified by type of injury and mortality in each group is given. The relative frequency of the shock syndrome is shown. Some sample cases are discussed in detail displaying time-series clinical data on a special tabulation.

11-3741 S

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Bischof, W. PULMONALE UND ENTERALE KOMPLIKATIONEN NACH HIRNSCHADIGUNGEN. [PULMONARY AND ENTERAL COMPLICATIONS AFTER BRAIN IN-JURIES.]

23 April 1964. 11 p. ref. illus. tables.

Acta Neurochirurgica (Wien), Vol. 12, 23 April 1964, pp. 131-151.

- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- Lungs, Respiratory System OALE
- OAE Abdomen
 - Time
- YEF Data Statistics, Contents, Study-Report Type
- JNK Hemorrhage, Injury/Trauma, Accident
- YCG Laboratory Experiment, Nature of Study

Discusses frequency of acute gastrointestinal hemorrhages after brain surgery and pathological conditions of the lungs in 3620 cases, location of cerebral processes that induce intestinal hemorrhage and mortality as function of time after surgery.

With experimental injury in laboratory animals, pulmonary edema and intestinal hemorrhage were frequent. There were no cases of intestinal hemorrhage without pulmonary edema.

The author assumes that during peripheral vasoconstriction in normovolemic neurogenic shock, overloading of the pulmonary circulation occurs which leads to hemorrhages in the alveoli. The hemorrhagic lung edema reaches such proportions that all lobes of the lungs are flooded with blood. The consequent hypoxia leads to the acute gastrointestinal hemorrhage.

The therapeutic consequence of the animal experiments is that in addition to maintaining a free airway one should reduce the peripheral vasoconstriction and thus enlarge the active circulatory area, to reduce likelihood of hemorrhagic lung edema.

11-3742 S

Ketz, E. HIRNDAUERSCHÄDEN NACH STRASSENVERKEHR-SUNFÄLLEN. [PERMANENT BRAIN INJURIES FOL-LOWING TRAFFIC ACCIDENTS.]

Rheinischen Landesklinik für Hirnverletzte, Bonn (Germany). 4 March 1961. 4 p.

Schweizerische Medizinische Wochenschrift, Vol. 91, 4 March 1961, pp. 270–273.

Injury/Trauma,	Accident
	Injury/Trauma,

DE Motor Vehicles, Vehicle

OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

JNP Consequences

YCC State-of-the-Art, Nature of Study, Study-Report Type

Analyzes etiology of trauma for 119 cases, giving direction of impact, brain area damaged, and frequency of injury for each category of accident (car, motorcycle, pedestrian, etc.). Blunt head injury was predominant.

11-3743 S

DER SCHÄDELVERLETZTE AUS DER SICHT DES ARZTES AM UNFALLORT. [SKULL INJURIES AS SEEN BY THE PHYSICIAN AT THE SITE OF THE ACCIDENT.] See 03-3743 S

11-3744 S

DAS SCHICKSAL DES AM UNFALLORT ÄRZTLICH VERSORGTEN SCHADELHIRNVERLETZTEN. [THE OUTCOME OF THE CERBROCRANIAL INJURY GIVEN MEDICAL CARE AT THE ACCIDENT SITE.] See 03-3744 S

11-3746 S

Nyström, S./ Mäkelä, T. DAS AKUTE, SUBAKUTE UND CHRONISCHE SUB-DURALE HÄMATOM. Bericht über 100 Fälle. [THE ACUTE, SUBACUTE AND CHRONIC SUBDURAL HEMATOMA. Report of 100 cases.] 1964. 8 p. tables. ref. Acta Neurochirurgica (Wien), Vol. 11, 1964, pp.

Acta Neurochirurgica (Wien), Vol. 11, 1964, pp. 565–578.

OANBB	Brain, Central, Nervous System, Anatomy/
	Body, Biomedical Aspect
JNK	Hemorrhage, Injury/Trauma, Accident

YEF Data Statistics, Contents, Study-Report Type

WSC Diagnosis, Medical, Methods

WSD Surgery

L Time

Authors give a brief state-of-the-art survey. 100 cases from Toolo Hospital in Helsinki are classified by severity of trauma. Discussion covers time delays to surgery, methods of treatment, diagnostic procedures, state of consciousness, correlation between findings in angiography and surgery with respect to state of hematom (solid or liquid). Location of hemorrhage, mortality, and follow-up findings are given.

Frequencies given for all conditions.

11-3747 S

Pia, H. W.

DIE TRAUMATISCHEN HIRNBLUTUNGEN DES KINDESALTERS. [TRAUMATIC CEREBRAL HEM-ORRHAGES IN CHILDHOOD.]

Neurochirurgischen Universitätsklinik Giessen (Germany). 1964. 10 p. charts. tables. ref.

Acta Neurochirurgica (Wien), Vol. 11, 1964, pp. 583-600.

- JN Injury/Trauma, Accident
- JNK Hemorrhage
- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- EC Children, People
- L Time
- YEF Data Statistics, Contents, Study-Report Type YEE Reviews

Discusses 412 cases, giving frequencies of various sites of hemorrhage and discussing symptoms, therapy, and mortality rates for epidural hematoma, subdural hematoma, and hydroma. Etiology and frequency of associated damage are covered for subdural hematoma.

11-3752 N

Müller, N.

DIE SEKUNDÄREN MORPHOLOGISCHEN VERÄN-DERUNGEN DES GEHIRNS NACH VERLETZUNG DURCH STUMPFE GEWALT. [THE SECONDARY MORPHOLOGICAL BRAIN CHANGES AFTER BLUNT TRAUMA.]

17 June 1966. 6 p. illus. ref.

Deutsche Medizinische Wochenschrift, Vol. 91, 17 June 1966, pp. 1126-1131.

- JNP Consequences, Injury/Trauma, Accident
- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- JNE Contusion/Crushing
- YCC State-of-the-Art, Nature of Study, Study-Report Type

State-of-the-art report. Location, extent, form, and pathogenesis of secondary effects are discussed.

11-3754 S

ERSTE BEHANDLUNG DER VERLETZUNGSFOLGEN BEI STRASSENVERKEHRSUNFÄLLEN, [FIRST

TREATMENT OF THE COMPLICATIONS OF INJURY WITH TRAFFIC ACCIDENT.] See 23-3754 S

11-3760 S

Orecchia, C./ Lojacono, F./ Sigaudo, F. I TRAUMATISMI CRANIO-CEREBRALI NELLA PRATICA CHIRURGICA OSPEDALIERA (Osservazioni su 200 casi). [CRANIO-CEREBRAL INJURIES IN HOSPITAL SURGICAL PRACTICE (Observations on 200 cases).] 5 April 1964. 5 p. table. ref.

Minerva Chirurgica, Vol. 19, 15 April 1964, pp. 234-238.

- Surgery, Medical, Methods WSD
- Head, Anatomy/Body, Biomedical Aspect OAI
- OANBB Brain, Central, Nervous System
- Data Statistics, Contents, Study-Report Type YEF

Authors discuss etiology and advisability of surgery and classify cases by severity, using criteria of physiological parameters, state of consciousness, pupillary reactions, complete neurological examination. Table relates severity group to mortality for tracheostomy, craniotomy, and conservative treatments.

11-3761 S

Caprotti, G./ Tirone, S. CONSIDERAZIONI CLINICHE E STATISTICHE SU 1513 CRANIOLESI. [CLINICAL AND STATISTICAL CONSIDERATIONS ON 1513 CRANIAL INJURIES.] 31 Oct. 1963, 5 p. tables. ref. Minerva Chirurgica, Vol. 18, 31 Oct. 1963, pp. 913-917.

YEF Data Statistics, Contents, Study-Report Type

- OAI Head, Anatomy/Body, Biomedical Aspect
- VN Epidemiology, Disciplines
- WSC Diagnosis, Medical, Methods
- WSD Surgery

Discuss diagnostic problems and physiopathology of the head-injured patient for various degrees of coma, and summarize etiology of trauma, condition of patient on admission, associated injuries, and clinical results covering 2 years' observations in a Milan hospital. Therapy only discussed very briefly.

11-3784 N

Meacham, W. F.

THE MANAGEMENT OF HEAD INJURIES COMPLI-CATED BY MAJOR EXTRACRANIAL TRAUMA. 1964. 6 p. ref.

Clinical Neurosurgery, Vol. 12, 1964, pp. 161-170.

- JN Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- OAF Thorax
- OAE Abdomen
- **Multiple Severe Injuries** JNX
- State-of-the-Art, Nature of Study, Study-YCC Report Type

Clinical priorities following head injury and establishing adequate blood circulation before diagnosis of causes of shock are discussed. Management with complicating thoracic and abdominal injuries, injuries to the great vessels of the neck, and post-traumatic fat embolism is also discussed.

11-3792 S

Youmans, J. R. CAUSES OF SHOCK WITH HEAD INJURY. South Carolina Medical College, Div. of Neurological Surgery, Charleston. March 1964. 3 p. tables. ref. Journal of Trauma, Vol. 4, March 1964, pp. 204-209. Grant No: NB-04991-01.

Sponsor: National Institutes of Health.

Conference: American Association for the Surgery of Trauma, 23rd annual, 24–26 Oct. 1963, San Francisco, California.

- Injury/ Trauma, Accident JN
- **JNPL** Shock, Consequences
- Multiple Severe Injuries JNX
- OAI Head, Anatomy/Body, Biomedical Aspects
- **JNPM** Anoxia/Hypoxia
- YEF Data Statistics, Contents, Study-Report Type

Of 654 patients with diagnosis of head injury during seven-year period, only 13.1% were in any degree of shock. Author found shock to be due to one or more of the following: blood loss, brain injury, general trauma, hypoxia, and "spinal shock." If severely injured patient does not have bilaterally dilated and fixed pupil and if airway is adequate, shock is almost always on basis other than head injury.

11-3793 N

Stark, R. B. EARLY VERSUS LATE TREATMENT OF FACIAL FRACTURES. St. Luke's Hospital, Robert Abbe Laboratory of Plastic Surgery, New York. 1964. 5 p. photos. figs. ref. Journal of Trauma, Vol. 4, March 1964, pp. 158-167. Conference: American Association for the Surgery of Trauma, 23rd annual, 24-26 Oct. 1963, San Francisco, California.

Time L

- JNH Fracture, Injury/Trauma, Accident
- WSE Therapeutic, Medical, Methods
- OAIB Face, Head, Anatomy/Body, Biomedical Aspect

Brief state-of-the-art report for treatment of facial fractures, with discussion of early fixation of bony fragments (two weeks or less after injury) versus late treatment. Direct wiring is described and recommended. Case reports are given.

11-3802 S

PEDESTRIAN DEATHS IN OSLO TRAFFIC ACCI-DENTS. See 18-3802 S

11-3854 S

Lewis, N. R. **REHABILITATION AFTER HEAD INJURY.** Great Britain Royal Air Force, Medical Rehabilitation Unit, Chessington (England). 1966. 3 p. tables. Royal Society of Medicine. Proceedings, Vol. 59, July 1966, pp. 623-625.

OAI Head, Anatomy/Body, Biomedical Aspect

JNP Consequences, Injury/Trauma, Accident

Time L

YCK Case Studies, Nature of Study, Study-Report Type

Discusses 140 airmen with head injuries admitted to RAF Rehabilitation Unit from 1956 to 1966. Physical examination and psychometric tests on arrival were used to assess progress. Periods of unconsciousness are correlated to defects resulting from head injury, time in hospital, time at Rehabilitation Unit, and number of invalids.

11-3880 S

Miller, H./ Stern, G. THE LONG-TERM PROGNOSIS OF SEVERE HEAD

INJURY. Newcastle Univ., Dept. of Neurology. 30 Jan. 1965. 5 p. ref.

The Lancet, Vol. 1, 30 Jan. 1965, pp. 225-229.

JNE Contusion/Crushing, Injury/Trauma, Accident

- JNF Concussion
- JNH Fracture
- JNP Consequences
- OAI Head, Anatomy/Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report

TypeYEFData Statistics, Contents

Long-term follow-up study of 100 consecutive cases of severe head injury with post-traumatic amnesia is reported. Sixty-four injuries resulted from traffic accidents. Only one death was attributable to sequelae of head injury. Sixteen patients manifested psychiatric symptoms on re-examination, and 19 developed epilepsy. Half of patients escaped loss of occupational status. Brief case reports are included.

11-3882 S

THE PATHOLOGY OF PEDESTRIAN AUTOMOTIVE ACCIDENT VICTIMS. See 21-3882 S

11-3884 S

Raaf, J.

TREATMENT OF THE PATIENT WITH ACUTE HEAD INJURY.

Oregon Univ. Medical School, Dept. of Neurosurgery, Portland/ Good Samaritan Hospital, Portland, Oregon. March 1964. 4 p. figs. tables.

Journal of Trauma, Vol. 4, March 1964, pp. 168–174. Conference: American Association for the Surgery of Trauma, 23rd annual, 24–26 Oct. 1963, San Francisco, California.

- OAI Head, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods
- WSD Surgery

YEF Data Statistics, Contents, Study-Report Type JNH Fracture, Injury/Trauma, Accident

Mortality rates by type of treatment and five-year period are given for 2,024 patients with craniocerebral injury treated from 1937 through 1962. Elevation of simple depressed skull fracture, debridement of compound skull fracture, evacuation of intracranial hematoma, internal decompression, drainage of meningeal effusions, and decompression by bone removal are discussed. 11-3922 S

Rowbotham, G. F./ Maciver, I. N./ Dickson, J./ Bousfield, M. E.

ANALYSIS OF 1,400 CASES OF ACUTE INJURY TO THE HEAD.

Newcastle Regional Centre of Neurological Surgery (England). 27 March 1954. 5 p. tables.

British Medical Journal, Vol. 1, 27 March 1954, pp. 726-730.

Sponsor: Newcastle Regional Hospital Board, No. 1.

- JNH Fracture, Injury/Trauma, Accident
- JNF Concussion
- YEF Data Statistics, Contents, Study-Report Type
- OAI Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System

JNK Hemorrhage

Etiology, severity and nature of injury, cause of death, and appraisal of surgical treatment are given for 1000 adults and 400 children, 1945–1951, grouping cases by state of coma, semicoma, confusion or full consciousness on admission. Etiology and mortality are tabulated by age and sex, and extradural hemorrhages and crushing injuries of head are discussed in detail. Follow-up reports on survivors are discussed.

11-3923 N

Edberg, S./ Rieker, J./ Angrist, A. A. INTRACEREBRAL VASCULAR LESIONS FOLLOW-ING CRANIAL IMPACT: A proposed mechanism. Albert Einstein College of Medicine, Dept. of Pathology, Bronx, New York/ New York City Office of the Chief Medical Examiner. April 1965. 5 p. figs. ref. Journal of Forensic Sciences, Vol. 10, No. 2, April 1965, pp. 158–166. Conference: American Academy of Forensic Sciences, 16th annual, 27 Feb. 1964, Chicago, Illinois.

- OAI Head, Anatomy/Body, Biomedical Aspect
- OAKC Blood Vessels, Cardiovascular System
- JNF Concussion, Injury/Trauma, Accident
- YCG Laboratory Experiment, Nature of Study,
- Study-Report TypeVMBBiomechanics, Biomedical Sciences, Disciplines

The authors describe past experiments to record effects of impact on skull models, and current study of traumatic intracerebral hemorrhages with box model of intracerebral vascular system. Suggest reversal on impact of blood flow at venous capillary junction, with likelihood of rupture and hemorrhage. Short state-of-the-art discussion.

11-3932 S

Denny-Brown, D.

DISABILITY ARISING FROM CLOSED HEAD INJURY.

Boston City Hospital, Neurological Unit, Massachusetts/ Harvard Medical School, Dept. of Neurology, Cambridge, Massachusetts. 24 Feb. 1945. 8 p. tables. American Medical Association. Journal, Vol. 127, No. 8,

24 Feb. 1945, pp. 429-436.

- JNF Concussion, Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- JNP Consequences
- P Pyschological Aspect

YEF Data Statistics, Contents

Contains brief state-of-the-art report. Investigators analyzed 200 cases, with follow-up from four months to over a year later. Frequencies are given for duration of absence from work as a function of age, sex, education, occupation, psychiatric evaluation of post-traumatic state, other injury, clinical conditions, tests (EEG, intellectual performance, etc.), and complications.

11-3933 S

Barr, J. B./ Ralston, G. J. HEAD INJURIES IN A PERIPHERAL HOSPITAL: A five-year survey.

Kilmarnock Infirmary (Scotland). 5 Sept. 1964. 4 p. figs. ref. table.

The Lancet, Vol. 2, 5 Sept. 1964, pp. 519-522.

OAI Head, Anatomy/Body, Biomedical Aspect

- JNF Concussion, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type
- WSE Therapeutic, Medical, Methods

JNP Consequences

Survey management of head injuries in hospitals with no special neurosurgical facilities. Provide critical review of nature, frequency, etiology, and management of 532 acute head injuries in mixed agricultural and industrial area. Frequency of causes by age and sex, fatality rates according to various levels of consciousness on admission, time lost from work, and some information on length of stay in the hospital are given. Follow-up questionnaire one and four years after injury showed no significant difference in the complaints about the effects of head injury. Recommend formation of head injury rehabilitation center.

11-3938 S

Hendrick, E. B./ Harwood-Hash, D. C. F./ Hudson, A. R. HEAD INJURIES IN CHILDREN: A survey of 4465 consecutive cases at the Hospital for Sick Children, Toronto, Canada.

1964. 10 p. graph. tables. ref.

Clinical Neurosurgery, Vol. 11, 1964, pp. 46-65.

Sponsor: Hospital for Sick Children, Surgical Studies Fund, Toronto (Canada).

- JNH Fracture, Injury/Trauma, Accident
- JNE Contusion/Crushing/Blunt
- JNF Concussion
- EA Age, People
- EC Children
- YEF Data Statistics, Contents, Study-Report Type
- OAI Head, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- L Time
- WSC Diagnosis, Medical, Methods
- WSD Surgery
- JNK Hemorrhage

Study covers 1954–1962 and includes only children under fifteen. Types of accidents are compared for various age groups. Level of consciousness is correlated with triad of extradural hematoma, subdural hematoma, and brain damage. If shock was present, cause was extracranial. Types and location of linear or depressed fracture are discussed. Neurological signs are discussed and their frequency of occurrence given. Diagnostic studies, therapy, and additional surgery are discussed.

11-3960 S

Nick, J./ Sicard-Nick, C.

LES CÉPHALÉES POST-TRAUMATIQUES TAR-DIVES. Étude séméiologique, physiopathologique et thérapeutique, a propos de 240 cas. [LATE POST-TRAUMATIC HEADACHE. Symptomatologic, physiopathological and therapeutic study, apropos of 240 cases.] 30 Oct. 1965. 6 p. ref. tables.

La Presse Medicale, Vol. 73, 30 Oct. 1965, pp. 2587-2592.

- OAI Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- JNE Contusion/ Crushing/Blunt, Injury/Trauma, Accident
- JNF Concussion
- JNP Consequences/Complications
- YEF Data Statistics, Contents, Study-Report Type
- NKFP Period, Frequency/Time, Operating Conditions,
- Physical Aspect PF Behavioral Factors, Psychological Aspect

Authors define chronic post-traumatic headache when the pain persists or appears three months after the injury. Frequency of cases is given according to the length of the period of coma. Aches are classified as local, cervical, and psychological with frequency again given by length of unconsciousness. Another classification is given by arterial, venous, neuralgic, and "localized, undefined." Frequency according to unconsciousness given.

Therapies are discussed.

11-3963 S

Obrador Alcalde, S. TRAUMATISMOS CRANEOENCEFALICOS. [CRANIO-CEREBRAL TRAUMA.] 15 Aug. 1966. 7 p. table.

Revista Clinica Española, Vol. 102, 15 Aug. 1966, pp. 174-180.

OAI Head, Anatomy/Body, Biomedical Aspect

- OANBB Brain, Central, Nervous System
- JNH Fracture, Injury/Trauma, Accident
- JNE Contussion/Crushing/Blunt
- YEF Data Statistics, Contents, Study-Report Type
- WSC Diagnosis, Medical, Methods
- WSE Therapeutic

Brief state-of-the-art report. Author discusses data from own clinic, giving etiology of trauma and details of cases with and without skull fracture or severe brain injury, and refers to frequency of surgical cases in each group, associated injury, and mortality.

11-3964 N

Kramer, G. ZUR ERSTVERSORGUNG SCHWERSTER SCHÄDEL-HIRNTRAUMEN. [ON FIRST AID IN VERY SEVERE CRANIOCEREBRAL TRAUMAS.] 7 April 1962. 6 p. ref. Medizinische Welt, Vol. 14, 7 April 1962, pp. 739–744.

OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

YCC State-of-the-Art, Nature of Study, Study-Report Type

OAI	Head
JN	Injury/Trauma, Accident
YCC	State-of-the-Art, Nature of Study, Study-
	Report Type
JNPL	Shock, Consequences/Complications
JNPM	Anoxia/Hypoxia

WSC Diagnosis, Medical, Methods

Brief literature review. Importance of ventilation, circulation, and control of agitated patient are discussed. Hypothermia is discussed separately. Difficulty of diagnosis of intra-cranial hemorrhage is pointed out.

11-3966 S

Pothe, H.

ZUR DIAGNOSTIK UND THERAPIE DER EPI-DURALEN BLUTUNG, [DIAGNOSIS AND TREAT-MENT OF EPIDURAL HEMORRHAGE.]

Chirurgischen Klinik der Medizinischen Akademie Erfurt (Germany). 1966. 7 p. figs. table. ref.

Deutsche Medizinische Wochenschrift, Vol. 91, 1966, pp. 1186-1192.

JNK Hemorrhage, Injury/Trauma, Accident

- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- WSC Diagnosis, Medical, Methods
- WSE Therapeutic
- YEF Data Statistics, Contents, Study-Report Type
- JNP Consequences/Complications

Author's observations from 15 years of records, covering 3,247 cases of closed injury to brain. Tabulation shows etiology, consequences, surgery and final outcome for 33 cases of epidural hemorrhage. Diagnostic procedures are discussed. Case histories reported.

11-3976 S

DER TÖDLICHE VERKEHRSUNFALL AUS DER SICHT DES PATHOLOGEN. [THE FATAL TRAFFIC ACCIDENT FROM THE PATHOLOGIST'S VIEW-**POINT.]** See 23-3976 S

11-3978 S

DER OPERATIONSWAGEN DER CHIRURGISCHEN UNIVERSITÄTSKLINIK HEIDELBERG. [THE MOBILE OPERATING ROOM OF THE CHIRURGISCHE UNI-VERSITÄTSKLINIK HEIDELBERG.] See 03-3978 S

11-3982 S

ERSTE HILFE AM UNFALLORT UNTER EIN-SCHLUSS DER FEHLER UND GEFAHREN. [FIRST AID AT THE ACCIDENT SITE WITH REFERENCE TO ERRORS AND DANGERS.] See 03-3982 S

11-4002 S

Schrire, T.

THE COMATOSE INJURED PATIENT.

Groote Schuur Hospital, Casualty Dept., Cape Town (South Africa)/ Cape Town Univ., Dept. of Surgery (South Africa). 8 Sept. 1962. 5 p. table. ref. South African Medical Journal, Vol. 36, 8 Sept. 1962, pp. 747-751.

JNX Multiple Severe Injuries, Injury/Trauma, Accident

- YEF Data Statistics, Contents, Study-Report Type
- Head, Anatomy/Body, Biomedical Aspect OAI Diagnosis, Medical, Methods WSC
- WSE
 - Therapeutic

Studies 169 patients treated by a multiple injury unit. Author describes principles of management, diagnostic procedures, routine examination, and priorities for treatment. Stresses the severity of a concomitant chest injury. Data statistics: associated injuries; mortality; causes of death; concomitant chest injury and mortality; type of head injury and mortality in 1303 patients admitted to neurosurgical service.

11-4009 S

INJURIES FROM ROAD ACCIDENTS. See 18-4009 S

11-4027 S

MULTIPLE INJURIES: The management of the patient with a fractured femur and a head injury. See 17-4027 S

11-4042 S

Wallace, P. B./ Meirowsky, A. M. THE REPAIR OF DURAL DEFECTS BY GRAFT: An analysis of 540 penetrating wounds of the brain incurred in the Korean War. Vanderbilt Univ. School of Medicine, Dept. of Surgery, Div. of Neurological Surgery, Nashville, Tennessee. Feb. 1960. 4 p. tables. fig. ref. Annals of Surgery, Vol. 151, No. 2, Feb. 1960, pp. 174-180.

OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- WSD Surgery, Medical, Methods
- Epidemiology/Etiology, Disciplines VN
- YEF Data Statistics, Contents, Study-Report Type
- **JNP** Consequences/Complications

Provides description and evaluation of surgical techniques for the following types of graft: fascia lata, temporal or occipital fascia, periosteum, and gelfilm or fibrin film. Cites case report of cortical herniation resulting from defective graft. Advantages of watertight closure of dural defect include: fluid fistula, facilitation of cranioplasty, and avoidance of corticomeningeal scar formation.

11-4063 S

Thum, H. J. DIE BEURTEILUNG UND BEHANDLUNG SCHÄD-ELVERLETZTER: Beobachtungen bei 7486 Schädelverletzten. [THE EVALUATION AND THERAPY OF SKULL INJURIES: Observations on 7486 skull injuries]. 1 Jan. 1960. 4 p. figs.

Deutsche Medizinsche Wochenschrift, Vol. 85, 1 Jan. 1960, pp. 31-34.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- **JNF** Concussion
- JNG Laceration/Openwound/Penetrating
- OAIA Skull, Head, Anatomy/Body, Biomedical Aspect

OANBB Brain, Central, Nervous System

YEF Data Statistics, Contents, Study-Report Type WSE Therapeutic, Medical, Methods

Author comments on experience from 1952 to 1956. No correlation was found between severity of external injury and the severity of the total injury (i.e., including brain injury) in those cases where no skull fracture had occurred.

Diagnosis and therapy are discussed. Commotio and contusio are defined and discussed.

11-4068 S

Bohmer, G./ Carlsson, C. A.

ENTSCHEIDENDE FAKTOREN FUR DEN BEHAND-LUNGSERFOLG BEIM EPIDURALHAMATOM: Eine Analyse von 64 Fallen. [DECISIVE FACTORS IN THE SUCCESS OF TREATMENT OF EPIDURAL HEMA-TOMA: An analysis of 64 cases].

Sodersjukhuset Neurochirurgischen Klinik, Stockholm (Sweden). Oct. 1964. 8 p. tables. charts. ref.

Monatsschrift fur Unfallheilkunde, Vol. 67, Oct. 1964, pp. 414-428.

JNK Hemorrhage, Injury/Trauma, Accident

- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods
- JNE Contusion/Crushing/Blunt
- EA Age, People
- VN Epidemiology/Etiology, Disciplines
- JNP Consequences/Complications

Mortality rates from literature are compared. Age distributions, mortality rates and etiology of trauma are discussed. State of consciousness and mortality are correlated. The frequency of neurologic symptoms is given. Time interval to surgery, and mortality are displayed on graph, coded by the neurologic symptoms.

Frequency of deaths and survivors are given for each type of symptom. X ray, echoencephalography, surgery, and associated injuries, and follow-up results are discussed. Causes of death are given. Mortality rate of 36% could have been 12% if all cases had been operated on in time.

11-4081 S

A PROPOS DE 268 TRAUMATISMES THORACIQUES FERMES. [APROPOS OF 268 CLOSED CHEST INJU-RIES.] See 13-4081 S

11-4086 S

Nockemann, P. F.

DIE HIRNERSCHÜTTERUNG: Ergebnisse aus der Behandlung von 3056 Fällen. [BRAIN CONCUSSION: Results from the therapy of 3056 cases.] 28 May 1960. 7 p. tables. ref.

Zentralblatt fur Chirurgie, Vol. 85, 28 May 1960, pp. 1232-1245.

OANBB	Brain, Central,	Nervous	System,	Anatomy/
	Body, Biomedia	al Aspect		

JNF Concussion, Injury/Trauma, Accident

YEF Data Statistics, Contents, Study-Report Type

YCC State-of-the-Art, Nature of Study

State-of-the-art discussion. Author gives etiology of trauma. Tabulates length of unconsciousness for 1,266

cases, and number of cases of circulatory disturbances as result of commotio by severity of disturbance and by year. Average length of stationary treatment 8.2 days, average length of inability to work 31.9 days.

11-4089 S

Nockemann, P. F. DIE WIEDEREINGLIEDERUNG SCHADEL--HIRN-VERLETZTER: Ergebnisse aus der Behandlung von 4139 Fallen. [REHABILITATION OF CRANIO-CEREBRAL INJURIES: Results of therapy of 4139 cases.]

4 June 1960. 7 p. ref. tables. graphs.

Medizinische Welt, Vol. 23, 4 June 1960, pp. 1288-1294.

- JNF Concussion, Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- NKF Frequency/Time, Operating Conditions, Physical Aspect

Author makes a literature survey and discusses stateof-the-art. Tabulates types of skull fractures for 952 cases, and discusses therapy and complications for facial bones, skull basis and upper skull.

Length in days for stationary treatment of 1266 cases of commotio cerebri is represented on a graph (minimum 1 day, maximum 25 days, peak frequency about 7 days). Similar graph for length of disability to work (minimum 2 days, maximum 60, peak frequency 29 days). Frequency of various types of skull and brain injuries are tabulated by year (1953 to 1958). Length of stationary treatment for 89 closed skull-brain injuries is compared to that of 21 open skull-brain injuries. Frequency of disability to work displayed for the same cases.

Rehabilitation toward occupation same as preaccident employment, stepwise rehabilitation, change in occupation, and permanent disability, are tabulated for closed brain injury, open brain injury, and commotio. Frequencies of insurance and/or pensions are discussed.

11-4092 S

Crozzoli, N. R. CONSIDERAZIONI STATISTICHE E DI TERAPIA SU 517 TRAUMATIZZATI CRANIO-ENCEFALICI. [STATISTICAL AND THERAPEUTIC CONSIDERA-TIONS ON 517 PATIENTS WITH CRANIOCEREBRAL INJURIES.]

3 March 1966. 9 p. tables, charts, figs. ref. Minerva Medica, Vol. 57, 3 March 1966, pp. 745-753.

 -			

- JN Injury/Trauma, Accident JNB Fatal
- JNB Fatal JNH Fracture
- OAI Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- VN Epidemiology/Etiology, Disciplines
- EA Age, People
- EF Sex
- JNX Multiple Severe Injuries
- YEF Data Statistics, Contents, Study-Report Type

Etiology of trauma given: age, type of accident, frequency of commotio, contusio, hematoma, and lacerations, given with and without skull fracture, and with associated injuries. Associated injuries are tabulated in detail by type.

Types of skull fracture given with respective frequen-

cies. Etiology given for 48 fatals, compared with diagnosis and causes of death. Consequences and therapy of head injuries discussed.

11-4104 S

Wray, J. B./ Davis, C. H.

THE MANAGEMENT OF SKELETAL FRACTURES IN THE PATIENT WITH A HEAD INJURY.

Bowman Gray School of Medicine, Dept. of Surgery, Winston-Salem, North Carolina. June 1960. 6 p. table. figs. ref.

Southern Medical Journal, Vol. 53, June 1960, pp. 748-753.

Conference: Southern Medical Association, Section on Orthopedic and Traumatic Surgery, 53rd annual, 16-19 Nov. 1959, Atlanta, Georgia.

- OAI Head, Anatomy/Body, Biomedical Aspect
- OAO Musculo-Skeletal System
- JNH Fracture, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type
- WSC Diagnosis, Medical, Methods
- WSE Therapeutic

Discuss, with some case studies, 75 patients (1949–1958) with significant head injuries and skeletal fractures, giving frequency of injuries by body area. Principles of management are given and priorities established for injuries affecting vascular, respiratory, or other vital organs. Mortality rate in closed head injury was over double that in compound head injuries.

11-4106 S

UNRECOGNIZED ABDOMINAL TRAUMA IN PA-TIENTS WITH HEAD INJURIES. See 15-4106 S

11-4107 S

Brandesky, G.

SEVERE HEAD INJURIES IN CHILDREN: Treatment and long-range outlook.

2nd Surgical Clinic, Univ. of Vienna, Vienna, Austria. March 1965.6 p. tables. figs. ref.

Clinical Pediatrics, Vol. 4, March 1965, pp. 141–146. Conference: British Association of Paediatric Surgeons, XIth International Congress, 31 Aug.-4 Sept. 1965,

Rotterdam.

- OAI Head, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type

EC Children, People

Discusses review and follow-up of cases of children up to age 16 from 1950 to 1959. Frequency of diagnoses, neurological disorders, combined injuries, and deaths are tabulated. Through follow-up studies, incidence of late symptoms is tabulated as a function of concussion or fracture. Some cases are cited. Author could not find that duration of unconsciousness indicates degree of cerebral injury. Concludes that children have much better chance of survival after severe craniocerebral trauma than do adults.

11-4108 S

Irving, M. H./ Irving, P. M. ASSOCIATED INJURIES IN HEAD INJURED PA-TIENTS. Newcastle General Hospital, Regional Neurological Centre (England)/ Sydney Univ., Dept. of Surgery, Sydney, New South Wales (Australia). 1967. 12 p. figs. ref. *Journal of Trauma*, Vol. 7, No. 4, 1967, pp. 500–511.

- JN Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- JNX Multiple Severe Injuries
- YEF Data Statistics, Contents, Study--Report Type
- WSC Diagnosis, Medical, Methods
- OAIB Face

OAF Thorax

OAE Abdomen

354 patients with head injuries, 47% with significant associated injuries. Authors describe and discuss the most common types of associated injuries particularly with respect to diagnostic problems. Data statistics: type of accident and severity of associated injury; type of accident, severity of associated injury and mortality; types of associated injuries and diagnostic difficulties; number of significant injuries.

11-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

11-4124 S

McKissock, W./ Taylor, J. C./ Bloom, W. H./ Till, K. EXTRADURAL HAEMATOMA: Observations of 125 cases. St. George's Hospital, Dept. of Neurosurgery, London (England)/ Hospital for Sick Children, London (England). 23 July 1960, 6 p. tables. ref.

Lancet, Vol. 2, 23 July 1960, pp. 167-172.

- JNK Hemorrhage, Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- WSE Therapeutic, Medical, Methods
- WSI Autopsy/ Pathology

Authors describe and discuss clinical features, diagnosis, treatment, and prognosis in adults and children. Analyze data and find prognosis to be correlated with: age; level of consciousness at time of operation; and rate of evolution. Discuss errors in management and emphasize need for prompt diagnosis. Data statistics: age; sex; type of accident; clinical picture; mortality; treatment; postmortem findings; disability; interval between operation and injury; absence of skull fracture; level of consciousness.

11-4151 N

Lundberg, N./ Troupp, H./ Lorin, H. CONTINUOUS RECORDING OF THE

VENTRICULAR-FLUID PRESSURE IN PATIENTS WITH SEVERE ACUTE TRAUMATIC BRAIN INJURY: A preliminary report.

Lund Univ., Dept. of Neurological Surgery (Sweden). June 1965. 6 p. figs. ref.

Journal of Neurosurgery, Vol. 22, June 1965, pp. 581-590.

Conference: Scandinavian Neurosurgical Society, 17th annual, Sept. 1963, Helsinki.

JNE	Contusion/	Crushing/	Blunt,	Injury/	Trauma,
	Accident				

WU Testing/ Measures, Methods

OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

Authors describe methods and materials. Describe and discuss findings, comparing them with findings in non-traumatic cases. Conclude that procedure is safe and offers a more rational basis for treatment than do conventional control methods. 4 illustrative case reports.

11-4162 N

Akerlund, E.

THE LATE PROGNOSIS IN SEVERE HEAD INJURIES. Falu Lasarett, Dept. of Surgery, Falun (Sweden). July 1959. 2 p. tables.

Acta Chirurgica Scandinavica, Vol. 117, July 1959, pp. 275-277.

OAI	Head, Anatomy/ Body, Biomedical Aspect				
JNP	Consequences/ Complications, Injury/ Trauma,				
	Accident				

VN Epidemiology/ Etiology, Disciplines

Twenty-six patients who survived after being unconscious for at least a week. Author concludes grave neurologic defects can be anticipated when unconsciousness lasts for more than a month. Data statistics: age; origin of injury; duration of unconsciousness and status at follow-up; main causes of disability.

11-4166 S

Happel, W./ Ketz, E./ Peters, G.

ZUR DIFFERENTIALDIAGNOSE GEDECKTFR HIRNDAUERSCHÄDEN: eine Übersicht über 4031 Fälle, [ON THE DIFFERENTIAL DIAGNOSIS OF PER-MANENT CLOSED BRAIN INJURIES: A survey of 4031 cases.]

1963. 11 p. tables. ref.

Deutsche Zeitschrift fur Nervenheilkunde, Vol. 184, 1963, pp. 487-507.

JNF Concussions, Injury/ Trauma, Accident

JNE Contusion/ Crushing/ Blunt

JNP Consequences/ Complications

- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect

YEF Data Statistics, Contents, Study-Report Type VN Epidemiology/Etiology, Disciplines

Brief state-of-the-art report. Of 10,000 patients admitted to the Bonn clinic for brain injuries from 1952 to 1960, authors selected 4,031 on the basis of preadmission records, encephalographic and electrophysiologic reports as victims of traumatic, permanent brain injury. Give etiology and age distribution according to type of trauma (open or closed). High number of war injuries (penetrating trauma).

For blunt trauma reversibility of brain damage tabulated as a function of length of unconsciousness. Chi-square tests indicate not always significant correlation. Another table correlates length of unconsciousness to level of impact of traumatic agent. Blunt trauma on large area significantly correlated to long unconsciousness, as opposed to penetrating and blunt trauma on small impact area. No correlation found (chi-square test) between length of unconsciousness and condition or absence of skull fracture.

Period of unconsciousness correlated to direction of impact. Fewer cases without unconsciousness for front impact than back or side impact.

Clincial symptoms of permanent injury to brain, tabulated for 1042 cases, as a function of direction of impact. Aphasia, alexia, agraphia, and acalculia, occur most frequenctly with left side impact. Initial psychoses associated with blunt impact caused on large area.

11-4199 N

Segerberg, L. H./ Spurling, R. G. ACUTE CRANIOCEREBRAL TRAUMA: Essential considerations of diagnosis and treatment.

Louisville Univ., Dept. of Surgery, Kentucky. 8 Oct. 1949.6 p.

American Medical Association. Journal, Vol. 141, No. 6, 8 Oct. 1949, pp. 371-376.

Conference: American Medical Association, Section on Surgery, General and Abdominal, 9 June 1949, Atlantic City, New Jersey.

OAI	Head, Anatomy/ Body, Biomedical Aspect
OANDD	Prain Control Namous System

OANBB	Brain, Central, Nervous System
JN	Iniury/ Trauma, Accident

- JN Injury/ Trauma, Accident WSC Diagnosis, Medical, Methods
- YER General Discussions, Contents, Study-Report Type

Authors outline and discuss essential considerations in the diagnosis and treatment of acute head injuries. Article is intended for physicians, other than neurosurgeons, who routinely encounter such injuries.

11-4337 S

ROAD ACCIDENTS. See 03-4337 S

11-4501 S

THE INCIDENCE AND SIGNIFICANCE OF SHOCK IN HEAD INJURY. See 24-4501 S

11-4502 S

Ulin, A. W./ Rosomoff, H. L./ Berkowitz, D./ Olsen, A. K. ACUTE HEAD INJURY: A review of one thousand cases. Hahnemann Medical College and Hospital, Dept. of Surgery, Philadelphia, Pennsylvania. 1953. 6 p. tables. ref. *American Surgeon*, Vol. 19, 1953, pp. 226–236.

- OAI Head, Anatomy/ Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- YEF Data Statistics, Contents, Study-Report Type JNX Multiple Severe Injuries, Injury/ Trauma, Accident
- OAL Respiratory System

Authors present classification of head injuries. Recommend classification as a practical clinical approach to assessing severity of patient's condition. Discuss selective hospitalization, use of X ray in diagnosis, significance of neurologic signs and coma, spinal type, concomitant systemic injury and associated medical disease, factors contributing to mortality, indications for tracheostomy, and indications for exploratory craniotomy. Data statistics: mortality; type of head injury; complications; and neurologic manifestations. 11-4504 S

DIED IN HOSPITAL: A three-year study of deaths following trauma. See 21-4504 S

11-4536 S

Burner, M./ Regli, F./ del Vivo, R. E. KLINISCHE ERFAHRUNGEN IN DER NEURO-CHIRURGISCHEN KLINIK ZÜRICH BEI AKUTEN SCHÄDEL-HIRN-VERLETZUNGEN. [CLINICAL EX-PERIENCES IN THE NEUROSURGICAL CLINIC IN ZURICH WITH ACUTE SKULL AND BRAIN INJU-RIES].

15 June 1961. 14 p. tables. figs.

Zeitschrift fuer Unfallmedizin und Berufskrankheiten, Vol. 54, 15 June 1961, pp. 123–144.

JN Injury/ Trauma, Accident

OAI Head, Anatomy/ Body, Biomedical Aspect

- OANBB Brain, Central, Nervous System
- YEF Data Statistics, Contents, Program-Report Type
- WSC Diagnosis, Medical, Methods
- JNP Consequences/ Complications
- JNF Concussion
- JNH Fracture
- JNK Hemorrhage

289 cases of acute brain-skull injury patients are analyzed. Types of hemorrhage (epi- and sub-dural or combinations, intra-cerebral), contusions without hemorrhage, and brain lacerations are tabulated. Delay from accident to admission and from admission to surgery are tabulated. The free interval is discussed.

Mortality, type of injury, severity of unconsciousness are correlated. Etiology, state of unconsciousness, neurologic symptoms, type of injury, post-operative therapy and results are shown on table.

11-4537 S

Dubitscher, F.

FESTSTELLUNGEN BEI 1000 HIRNVERLETZTEN AN HAND DER VERSORGUNGSAMTSAKTEN. [FIN-DINGS IN 1000 BRAIN-INJURED PERSONS ON THE BASIS OF VETERANS' COMPENSATION RECORDS]. Sept. 1959. 10 p. tables.

Monatsschrift für Unfallheilkunde, Versicherungs- und Verkehrmedizin, Vol. 62, Sept. 1959, pp. 321-339.

JN Injury/ Trauma, Accident

- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- YEF Data Statistics, Contents, Program-Report Type
- SCE Costs/ Benefits, Economics, Socioeconomic Aspect

1000 brain injury cases analyzed from the insurance records. Type of injury and etiology tabulated. Category of compensation, neurologic, psychologic and vegetative problems are tabulated as a function of the location of the injury. Systolic and diastolic blood pressure values in age categories compared to "normal" values. Frequency and timing (after injury) of spasms given by location of injury. Occupation before and after accident shown, allowing for some economic analysis.

11-4540 S

Echlin, F. A./ Sordillo, S. V. R./ Garvey, T. Q., Jr.

ACUTE, SUBACUTE, AND CHRONIC SUBDURAL HEMATOMA.

New York Univ.-Bellevue Medical Center, Dept. of Neurosurgery. 4 Aug. 1956. 6 p. figs. ref. *American Medical Association Journal*, Vol. 161, No. 14, 4 Aug. 1956, pp. 1345-1350.

JN	Injury/ Trauma, Accident				
JNK	Hemorrhage				
OAI	Head, Anatomy/ Body, Biomedical Aspect				
OANBB	Brain, Central, Nervous System				
YEF	Data Statistics, Contents, Program-Report				
	Туре				
WSC	Diagnosis, Medical, Methods				
WSD	Surgery				

Discussion of 300 cases. Defines concept of sub-acute condition-surgery on 7th to 21st day after injury. Mortality rates given in each group. Spinal fluid, X-ray and surgical findings for all diagnostic problems, and causes of death discussed.

12-2592 S

TRAFFIC INJURY IN BRISBANE. Report of a general survey. See 01-2592 S

12-3702 S

Pate, J. W./ Wilson, H. **ARTERIAL INJURIES OF THE BASE OF THE NECK.** Tennessee Univ. 1964. 3 p. ref. tables. figs. *Archives of Surgery*, Vol. 89, Dec. 1964, pp. 1106–1110. Conference: American College of Surgeons, Tennessee Chapter, 14 April 1964, Memphis.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect

In 21 patients over a 12-year period, arterial injuries t the base of neck were associated with 20% mortality

at the base of neck were associated with 20% mortality from uncontrolled hemorrhage and cerebral ischemia. Describes incisions to be made during surgery in injuries to carotid, innominate, and subclavian arteries.

12-3713 S

EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. [AN ANALYSIS OF 827 CASES OF FATAL ACCI-DENTS.] See 24-3713 S

12-3728 S AUTOPSY FINDINGS IN 127 PATIENTS FOLLOWING FATAL TRAFFIC ACCIDENTS. See 22-3728 S

12-3771 N

Drompp, B. W./ Grimes, A. EMERGENCY MANAGEMENT OF CERVICAL SPINE INJURIES. Arkansas Univ. Medical Center, Div. of Orthopedic Surgery. Sept. 1963. 6 p. photos. ref. Arkansas Medical Society. Journal, Vol. 60, No. 4, Sept. 1963, pp. 129–134.

JN Injury/Trauma, Accident

OANBC	Spinal	Cord,	Central,	Nervous	System,
	Anatomy	/Body, i	Biomedical	l Aspect	
WSC	Diagnosi	s. Medica	al. Method	s -	

- WSE Therapeutic
- YCK Case Studies, Nature of Study, Study-Report Type

Authors outline method of evaluation and care of neck injuries with fracture or fracture-dislocation, and describe signs of fracture in comatose and conscious patients. Four cases are used for illustration.

12-3782 N

Guttmann, L.

SOME PROBLEMS IN THE INITIAL MANAGEMENT OF SPINAL CORD INJURIES.

National Spinal Injuries Centre, Stoke Mandeville Hospital, Aylesbury (England). Jan. 1964. 3 p. figs. ref. Physiotherapy, Vol. 50, Jan. 1964, pp. 10-14.

WSE Therapeutic, Medical, Methods

WSB First Aid

OANBC Spinal Cord, Central, Nervous System, Anatomy/Body, Biomedical Aspect

Director describes treatment employed at National Spinal Injuries Centre in England, including physiotherapy and electrotherapy. Gives essential points in first aid for patients with suspected spinal fracture. Lists symptoms of respiratory difficulties.

12-3803 N

Sandor, F.

DIAPHRAGMATIC RESPIRATION: A sign of cervical cord lesion in the unconscious patient ("horizontal paradox").

19 Feb. 1966. 2 p. figs. ref.

British Medical Journal, Vol. 1, 19 Feb. 1966, pp. 465-466.

Sponsor: Newcastle Regional Hospital Board (England).

- OANBC Spinal Cord, Central, Nervous System, Anatomy/Body, Biomedical Aspect
- OALF Diaphragm, Respiratory System
- YCK Case Studies, Nature of Study, Study-Report Type

Describes how observing type of respiration allowed correct diagnosis of cervical-cord damage in two unconscious patients. Suggests that diaphragmatic respiration be looked for in patients with severe head injuries, especially vertical fractures of skull.

12-3839 N

Harris, H. H./ Ainsworth, J. Z.

IMMEDIATE MANAGEMENT OF LARYNGEAL AND TRACHEAL INJURIES.

Baylor Univ., College of Medicine, Dept. of Oto-laryngology, Houston, Texas. July 1965. 13 p. figs. tables. ref.

Laryngoscope, Vol. 75, July 1965, pp. 1103-1115.

Conference: American Laryngological, Rhinological and Otological Society, Inc., Southern Section, 15 Jan. 1965, Charleston, South Carolina.

OALC Larynx, Respiratory System, Anatomy/Body, **Biomedical Aspect**

- OALD Trachea/Bronci
- Laceration/Openwound, Injury/Trauma, JNG Accident
- JNE Contusion/Crushing
- WSD Surgery, Medical, Methods
- YCK Case Studies, Nature of Study, Study-Report Type

Review 22 cases of acute injury, with a detailed description of treatment, types of airways, and voices which resulted. Tracheotomy is said to be necessary with subcutaneous emphysema or laryngeal obstruction. Although internal splinting or skin graft was not used for stab wounds, no strictures developed. For other injuries, value of open reduction with replacement of cartilage, suturing of internal lacerations, internal splinting with split thickness graft, and wire fixation is stressed.

12-3843 S

Hass, A./ Lowman, E. W./ Bergofsky, E. H.

IMPAIRMENT OF RESPIRATION AFTER SPINAL CORD INJURY.

New York Univ. School of Medicine, Dept. of Physical Medicine and Rehabilitation. June 1965. 4 p. tables. figs. ref.

Archives of Physical Medicine and Rehabilitation, Vol. 46, June 1965, pp. 399-405.

Grant No: RT-1/ U-1249.

Sponsor: Dept. of Health, Education and Welfare, Vocational Rehabilitation Administration, Washington, D.C./ New York City Health Research Council.

JN Injury/Trauma, Accident

- OAL **Respiratory System**
- OANBC Spinal Cord, Central, Nervous System, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type

Assessment of respiratory performance in 31 male patients with spinal-cord injury; tables include average values of pulmonary-function studies, and pulmonary gas exchange. Respiratory insufficiency develops months after injury due to dysfunction of thorax rather than to intrinsic lung disease. Ventilation is worsened by sitting position, but not by application of braces.

12-3882 S

THE PATHOLOGY OF PEDESTRIAN AUTOMOTIVE ACCIDENT VICTIMS. See 21-3882 S

12-3911 S Holinger, P. H./ Curtin, J. W. AUTOMOBILE ACCIDENTS AND LARYNGEAL AND UPPER TRACHEAL TRAUMA. Presbyterian-St. Luke's Hospital/ Illinois Univ., College of Medicine. April 1964. 4 p. figs. table. ref. Presbyterian-St. Luke's Hospital Chicago Medical Bulletin, Vol. 3, April 1964, pp. 46-52.

- Injury/Trauma, Accident IN
- OALD Trachea/Bronchi, Respiratory System, Anatomy/Body, Biomedical Aspect
- VN Epidemiology, Disciplines
- WSE Therapeutic, Medical, Methods

Discusses 34 patients with laryngeal trauma, 28 from automobile accidents. Of the 28 tracheomtomy patients,

15 required extensive external laryngeal or cervical trachea reconstruction because of stenosis or atresia. Techniques of reconstruction are discussed in detail.

12-3959 S

Rossier, A./ Brunner, U.

ZUR INITIALEN BEHANDLUNG DER FRISCHEN TRAUMATISCHEN QUERSCHNITTSLÄSION. [ON THE INITIAL TREATMENT OF ACUTE TRAUMATIC SPINAL CORD INJURIES.]

Chirurgischen Universitätsklinik B, Zürich (Germany). 1964. 9 p. tables. ref.

Schweizerische Medizinische Wochenschrift, Vol. 94, 7 March 1964, pp. 362-370.

OANBC	Spinal	Cord,	Central,	Nervous	System,
	Anatomy	/Body,	Biomedical	Aspect	
INI	In in my /T	auma A	logidant		

- Injury/Trauma, Accident JN WSE Therapeutic, Medical, Methods
- WSC Diagnosis

OALE Lungs, Respiratory System

JNP Consequences/Complications

YEF Data Statistics, Contents, Study-Report Type

The management of patients with acute spinal cord injuries is discussed. Repeated neurological tests are important. A review of the indications for early laminectomy is followed by a discussion of the treatment for paralysis of bladder and bowel, physiotherapeutic measures and the correction of metabolic disorders in the initial stages of paraplegia. Authors noted high rate of pulmonary embolisms. Pathogenesis and prophylaxis of deep venous thrombosis in traumatic spinal cord injuries are discussed.

12-4001 S

Jones, M. D.

CERVICAL SPINE CINERADIOGRAPHY AFTER TRAFFIC ACCIDENTS.

California Univ. Medical School, Dept. of Radiology, Dec. 1962. 4 p. tables. figs. ref.

Archives of Surgery, Vol. 85, Dec. 1962, pp. 974-981.

JN Injury/Trauma, Accident

- OAOBB Vertebrae/Spine, Bones, Musculo-Skeletal System, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- WSC Diagnosis, Medical, Methods
- WSE Therapeutic
- INW Whiplash

Author reviews the literature with respect to cervical spine syndromes. Discusses mode of injury, mechanism of injury, incidence of abnormal findings and symptomatology. After cineradiographic studies of 61 patients, concludes that this method complements static X-ray studies and is most valuable in detecting abnormal function. Data statistics: distribution of patients in hyperextension and hyperflexion accidents; symptoms following hyperextension and hyperflexion accidents; comparison of original and second interpretations of cineradiographs; abnormalities seen in cineradiographs and plain X rays; results of last cineradiographic examination.

12-4006 S

Fitz-Hugh, G. S./ Wallenborn, W. M./ McGovern, F.

INJURIES OF THE LARYNX AND CERVICAL TRAUMA.

Virginia Univ. Hospital, Dept. of Otolaryngology, Charlottesville. June 1962. 13 p. tables. figs. ref. Annals of Otology, Rhinology and Laryngology, Vol. 71, June 1962, pp. 419-442.

OAOBB	Vertebrae/Spine, Bones, Musculo-Skeletal
	System, Anatomy/Body, Biomedical Aspect
OALC	Larynx, Respiratory System
JN	Injury/Trauma, Accident
VN	Epidemiology/Etiology, Disciplines
YEF	Data Statistics, Contents, Study-Report Type

YCK Case Studies, Nature of Study

Authors survey 28 cases and review literature, discussing incidence, etiology, diagnosis and treatment. Describe management of closed and open injuries. Tabulate age, type of injury, etiology, symptoms, treatment, result and associated injuries for each case giving 7 illustrative case reports.

12-4039 S

Burke, M. H./ Hicks, A. F./ Robins, M./ Kessler, H. SURVIVAL OF PATIENTS WITH INJURIES OF THE SPINAL CORD.

Veterans Administration, Dept. of Medicine and Surgery, Washington, D.C. 9 Jan. 1960. 4 p. figs. tables. ref. American Medical Association. Journal, Vol. 172, No. 2, 9 Jan. 1960, pp. 121-124.

JN Injury/Trauma, Accident

OANBC	Spinal	Cord,	Central,	Nervous	System,
	Anatomy	/Body,	Biomedical	Aspect	
JNP	Consequ	ences/Co	mplication	IS	

YEF Data Statistics, Contents, Study-Report Type

Life table technique was used to compare longevity of 5,575 paraplegic or quadriplegic patients with that of the general population. All patients were treated in one Veterans Administration hospital in the course of a ten-year period ending in 1955. During first year after injury patients had mortality five to ten times higher than that of patients who survived first year. Of patients under 35 at time of injury, 80% were likely to survive for at least 10 years. Disparity of life expectancy between injured and normal people increases in older age groups.

12-4104 S

THE MANAGEMENT OF SKELETAL FRACTURES IN THE PATIENT WITH A HEAD INJURY. See 11-4104 S

12-4105 N

Fletcher, B. D./ Brogdon, B. G. SEAT-BELT FRACTURES OF THE SPINE AND STERNUM.

Johns Hopkins Hospital, Dept. of Radiology, Baltimore, Maryland. 10 April 1967. 2 p. ref.

American Medical Association. Journal, Vol. 200, No. 2, 10 April 1967, pp. 167-168.

- INH Fracture, Injury/Trauma, Accident
- Seat Belts, Restraint Systems, Auxiliaries/ Accessories, Vehicle Vertebrae/ Spine, Bones, Musculo-Skeletal DMDB
- OAOBB System, Anatomy/Body, Biomedical Aspect OAF / Thorax

YCK Case Studies, Nature of Study, Study-Report Type

Report is made on two cases. An improperly positioned or inadequately tightened lap belt may act as a fulcrum to produce transverse fractures of lumber vertebrae. References are made to other cases. Frequency of such injury is low.

12-4116 N

Saldeen, T.

FATAL NECK INJURIES CAUSED BY USE OF DIAG-ONAL SAFETY BELTS.

Lund Univ., Dept. of Forensic Medicine (Sweden). 1967. 7 p. figs. ref.

Journal of Trauma, Vol. 7, No. 6, 1967, pp. 856-862.

JNB Fatal, Injury/Trauma, Accident

JUD	Fatal, Injuly/Hauma, Accucit
OAH	Neck, Anatomy/ Body, Biomedical Aspect
JKB	Ejection, Accident Hazards
DMDC	Shoulder Harnesses, Restraint Systems, Auxil-
	iaries/ Accessories, Vehicle
INO	Dismemberment/ Decapitation

Three case reports. All victims were ejected from the car, with decapitation or fracture of the cervical vertebrae. Author concludes that these cases reflect the risk involved with the combination of inadequate car-door locks and a diagonal belt used without a lap belt.

12-4117 S

Lausberg, G.

DIFFERENTIAL THE RAPEUTISCHE EROERTER-UNGEN BEI RUECKENMARKS-UND CAUDAVER-LETZUNGEN. [DIFFERENTIAL THERAPEUTIC DIS-CUSSIONS ON SPINAL CORD AND CAUDER INJU-RIES.]

Giessen Univ., Neurosurgical Dept. (Germany). 17 June 1966. 6 p. table. figs. ref.

Deutsche Medizinische Wochenschrift, Vol. 91, 17 June 1966, pp. 1109–14.

WSE Therapeutic, Medical, Methods

JN Injury/ Trauma, Accident

OANBC Spinal Cord, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

Author discusses conservative treatment as compared to surgery and, based on his own series of 70 cases, recommends conservative treatment. Indication for laminectomy given by restriction to the passage of fluid rather than by the X-ray measurement of the restriction. Table shows relationship between restriction and mortality for cervical spine, dorsal and lumbar and caudal injury, and the complete or incomplete "cross-section" syndrome. Unsuccessful procedures are discussed. Case reports are included.

12-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

12-4150 N

Curtin, J. W./ Holinger, P. H./ Greeley, P. W. BLUNT TRAUMA TO THE LARYNX AND UPPER TRACHEA: Immediate treatment, complications and late reconstructive procedures. Illinois Univ., Chicago, College of Medicine, Dept. of Surgery/ Illinois Univ., Chicago, College of Medicine, Dept. of Otolaryngology/ Presbyterian-St. Luke's Hospital, Chicago, Illinois/ Illinois Univ., Chicago, Research and Educational Hospitals. 1966. 6 p. photos. ref.

Journal of Trauma, Vol. 6, No. 4, July 1966, pp. 493-502.

Conference: American Association for the Surgery of Trauma, 25th annual, 14–16 Oct. 1965, Philadelphia, Pennsylvania.

- JNE Contusion/ Crushing/ Blunt, Injury/ Trauma, Accident
- OALC Larynx, Respiratory System, Anatomy/ Body, Biomedical Aspect
- OALD Trachea/ Bronchi
- WSD Surgery, Medical, Methods

Authors also discuss incidence and cause of injury. Describe general management and operative procedures in some detail.

12-4159 N

Haller, J. A., Jr.

BULLET TRANSECTION OF BOTH COMMON CAROT-ID ARTERIES WITH IMMEDIATE REPAIR AND SUR-VIVAL.

Louisville Univ., Dept. of Surgery, Kentucky. May 1962. 2 p. figs. ref.

American Journal of Surgery, Vol. 103, May 1962, pp. 532–535.

- JNG Laceration/ Openwound/ Penetrating, Injury/ Trauma, Accident
- OAKC Blood Vessels, Cardiovascular System, Anatomy/ Body, Biomedical Aspect
- NKFF Delay, Frequency/ Time, Operating Conditions, Physical Aspect
- WSD Surgery, Medical, Methods

Patient showed no neurologic deficit. Author discusses possible explanations. Emphasizes that a penetrating wound into an area of large vessels demands immediate exploration.

12-4167 N

Paterson, D. C.

THE EARLY DIAGNOSIS OF CERVICAL CORD INJURIES.

Royal Adelaide Hospital, Paraplegic Unit (Australia). Aug. 1966. 4 p. ref. tables. figs.

Australian and New Zealand Journal of Surgery, Vol. 36, Aug. 1966, pp. 17–23.

- WSC Diagnosis, Medical, Methods
- OANBC Spinal Cord, Central, Nervous System, Anatomy/Body, Biomedical Aspect
- JN Injury/ Trauma, Accident
- YCK Case Studies, Nature of Study, Study-Report Type

VN Epidemiology/ Etiology, Disciplines

Author describes 3 patients with multiple injuries in which signs of cervical injuries were overlooked initially, resulting in quadriplegia in one case. Describes mechanism of injury, clinical features, use of X ray in diagnosis. Emphasizes that diagnosis must be at least tentative in the emergency room if the patient is to receive proper treatment. 12-4337 S

12-4514 S

ROAD ACCIDENTS. See 03-4337 S

Kimura, M. ON THE TREATMENT OF SPINAL CORD INJURY: Review and analysis of 2300 cases.

Tohoku Labour Accident Hospital, Orthopaedic Dept., Sendai (Japan). March 1964. 8 p. fig. photos. ref. tables. Japanese Orthopaedic Association. Journal, Vol. 37, March 1964, pp. 987-999.

Conference: Japanese Accident Medical Association, 10th, Oct. 1962.

- OANBC Spinal Cord, Central, Nervous System, Anatomy/ Body, Biomedical Aspect IN
- Injury/ Trauma, Accident Data Statistics, Contents, Study-Report Type YEF
- NKFF Delay, Frequency/ Time, Operating Conditions, Physical Aspect
- WSD Surgery

Operations were performed in 531 cases. Author emphasizes that the final step of treatment is rehabilitation. Describes and discusses general principles of management. Describes surgical methods. Data statistics: fixation, reduction and/or laminectomy; type of injury related to interval from injury to operation, results, and operative findings.

12-4515 S

Freed, M. M./ Bakst, H. J./ Barrie, D. L. LIFE EXPECTANCY, SURVIVAL RATES, AND CAUSES OF DEATH IN CIVILIAN PATIENTS WITH SPINAL CORD TRAUMA.

Boston Univ. School of Medicine, Massachusetts. July 1966. 4 p. ref. tables.

Archives of Physical Medicine and Rehabilitation, Vol. 47, July 1966, pp. 457-463.

Conference: American Congress of Physical Medicine and Rehabilitation, 43rd annual, 24 Aug. 1965, Philadelphia, Pennsylvania.

JN	Injury/	Trauma,	Accident
	/		

- NKFF Delay, Frequency/ Time, Operating Conditions, Physical Aspect
- OANBC Spinal Cord, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

JNP Consequences/ Complications

Data Statistics, Contents, Study-Report Type YEF

243 cases with permanent neurological impairment. Authors discuss and describe casues of death in this and other series. Suggest that findings are of immediate significance for those involved in the care of this type of patient. Data statistics: occupation, mortality; age at the time of injury; cause of death and relation to cord injury; survival time; cardiac arrest and time of operation.

12-4538 N

Kuhlendahl, H. DIE NEUROLOGISCHEN SYNDROME BEI DER ÜBERSTRECKUNGSVERLETZUNG DER HALSWIR-BELSÄULE UND DEM SOG. SCHLEUDERTRAUMA. [THE NEUROLOGICAL SYNDROMES IN INJURIES CAUSING HYPER-EXTENSION OF THE CERVICAL

SPINE AND THE SO-CALLED WHIPLASH INJURY]. 29 May 1964. 6 p. ref.

Munchener Medizinische Wochenschrift, Vol. 106, 29 May 1964, pp. 1025-1030.

- JNW Whiplash, Injury/ Trauma, Accident
- Case Studies, Nature of Program, Program-Re-YCK port Type
- WSC Diagnosis, Medical, Methods

Four case reports. Diagnostic problems discussed.

13-2592 S

TRAFFIC INJURY IN BRISBANE. Report of a general survey. See 01-2592 S

13-3712 S

Ransdell, H. T., Jr. TREATMENT OF FLAIL CHEST INJURIES WITH A PISTON RESPIRATOR. Louisville Univ. School of Medicine, Dept. of Surgery, Kentucky. 1965. 5 p. ref. tables. Journal of Trauma, Vol. 5, No. 3, 1965, pp. 412-420. Conference: American Association of the Surgery of Trauma, 24th annual, 1-3 Oct. 1964, Chicago, Illinois.

- OAF Thorax, Anatomy/Body, Biomedical Aspect
- JRG Treatment/Care, Recovery of Injured, Accident
- NKF Frequency/Time
- XTI Resuscitators
- YEF Data Statistics, Contents, Study-Report Type

Compares two groups of patients during two different time periods admitted to hospital with flail chest injuries, largely resulting from automobile accidents. Thirty-nine treated with traditional therapy, 47 with piston respirator. There was 25% reduction in mortality in piston respirator group. "Stiff lung" syndrome, or congestive atelectasis, did not occur in any patient placed on piston respirator in initial treatment. Tracheitis and Staphylococcus pneumonia are replacing "stiff lung" syndrome as major causes of death.

13-3713 S

EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. [AN ANALYSIS OF 827 CASES OF FATAL ACCI-DENTS.] See 24-3713 S

13-3723 S

Solheim, K. CLOSED THORACIC INJURIES.

Uppsala Univ., Dept. of Pathology (Sweden). 1963. 5 p. tables. figs. ref.

Acta Chirurgica Scandinavica, Vol. 126, 1963, pp. 549-557.

Sponsor: Norges Almenvitenskapelige Forskningsrad, Sweden.

Conference: Norwegian Surgical Association, 3 Nov. 1962, Oslo, Norway.

- Thorax, Anatomy/Body, Biomedical Aspect OAF
- Contusion/Crushing, Injury/Trauma, Accident JNE
- Age, People EA
- EF Sex
- JNX Multiple Severe Injuries
- Diagnosis, Medical, Methods WSC
- OALF Diaphragm, Respiratory Systems

Analyses 139 Oslo patients who arrived alive at hospital during ten-year period. Source of injury, frequency, treatment, and results are tabulated for 65 patients with pneumothorax. Pleural suction and exsufflation are usually adequate treatment of pneumothorax if correct diagnosis is made in time. All 64 patients who had hemothorax alone were treated with thoracocentesis. Some of the 44 fatalities in this group involved intrathoracic injuries. Review of literature. Stresses that because of high mortality, thoracic injuries should be given priority in patients with multiple injuries. "Wetlung" condition is described.

13-3753 N

Sperling, E. BEITRAG ZUR TRAUMATISCHEN BRONCHUS-RUPTUR. [CONTRIBUTION TO TRAUMATIC BRONC-HIAL RUPTURES.]

Chirurgischen Universitätsklinik der Charite Berlin (Germany). Jan. 1964. 8 p. illus. tables. ref.

Chirurg, Vol. 35, Jan. 1964, pp. 3-10.

- Laceration/Openwound, Injury/Trauma, JNG Accident
- Trachea/Bronchi, Respiratory System, OALD Anatomy/Body, Biomedical Aspect
- State-of-the-Art, Nature of Study, Study-YCC Report Type
- Case Studies YCK
- Surgery, Medical, Methods WSD
- OAF Thorax

Rupture of bronchi is rare and generally associated with blunt chest trauma. After a state-of-the-art report, author discusses case studies in detail, indicating bronchus-anastomosis as the best therapy.

13-3767 S

TODESURSACHEN BEI FRISCHEN THORAXVER-LETZUNGEN. [DEATH CAUSES IN RECENT THO-RACIC INJURIES.] See 23-3767 S

13-3781 N

Reams, G. B. A SIMPLIFIED TREATMENT OF PNEUMOTHORAX IN A MASS CASUALTY SITUATION.

Air Force Hospital Keesler, Keesler AFB, Mississippi. June 1963. 2 p. figs. ref.

Military Medicine, Vol. 128, June 1963, pp. 543-544.

- WSE Therapeutic, Medical, Methods
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- OALE Lungs, Respiratory System

Thermonuclear injuries are considered to include low-velocity missile wounds of the chest. A kit of equipment was developed for therapy of pneumo-thorax; its contents and use are described.

13-3783 N

Joynt, G. H. C.

NONPENETRATING CHEST TRAUMA IN ADULTS. Toronto Western Hospital/ Toronto Univ. (Canada). June 1964. 5 p. ref.

Geriatrics, Vol. 19, June 1964, pp. 407-414.

- OAF Thorax, Anatomy/Body, Biomedical Aspect
- INE Contusion/Crushing, Injury/Trauma, Accident
- EEC Adults, Old Aged
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- WSE Therapeutic, Medical, Methods

Discusses management of blunt chest trauma, including prevention of respiratory and circulatory failure, techniques of emergency handling of patient prior to arrival at hospital, and special treatment required by fractures of ribs, pneumothorax, hemothorax, flail chest, fractures of sternum, tears of trachea or main bronchus, traumatic rupture of diaphragm, and damage of heart and great vessels. Studies comparing mortality rates for penetrating and blunt chest injuries are cited.

13-3784 N

THE MANAGEMENT OF HEAD INJURIES COMPLI-CATED BY MAJOR EXTRACRANIAL TRAUMA. See 11-3784 N

13-3794 S

Garzon, A. A./ Becker, W. H./ Lyons, H. A./ Karlson, K. E.

EFFECT OF CHEST TRAUMA UPON RESPIRATORY FUNCTION.

New York State Univ. College of Medicine, Dept. of Surgery, Brooklyn/ New York State Univ. College of Medicine, Dept. of Medicine, Brooklyn. 1965. 4 p. fig. ref.

Journal of Trauma, Vol. 5, No. 3, 1965, pp. 404-411. Conference: American Association for the Surgery of Trauma, 24th annual, 1-3 Oct. 1964, Chicago, Illinois.

Thorax, Anatomy/Body, Biomedical Aspect OAF

JN Injury/Trauma, Accident

YEG Tables/Graphs, Contents, Study-Report Type OAFD Ribs

Ten patients with one or two fractured ribs were treated by intercostal procaine nerve block or adhesive strapping. Five patients with multiple unilateral rib fractures were treated by intercostal nerve block, and five with traumatic hemothorax or pneumothorax by closed thoracostomy tube drainage of the pleural space. In first ten patients, acute arterial oxygen desaturation was present, and vital capacity and maximal voluntary ventilation were reduced. Patients with acute traumatic collapse of the lung showed arterial oxygen desaturation, reduced minimum ventilation, and decreased vital capacity. Pulmonary compliance, resistance and work in patients with multiple unilateral rib fractures appeared to be minimally affected by trauma.

13-3798 S

Conn, J. H./ Hardy, J. D./ Fain, W. R./ Netterville, R. E. THORACIC TRAUMA: Analysis of 1022 cases. Veterans Administration Center, Dept. of Surgery, Jackson, Mississippi/ Mississippi Univ. Medical Center, Dept. of Surgery, Jackson. 1963. 10 p. figs. ref. tables. Journal of Trauma, Vol. 3, 1963, pp. 22-40. Conference: American Association for the Surgery of Trauma, 21st annual, 28-30 Sept. 1961, Chicago, Illinois.

ING Laceration/Openwound, Injury/Trauma, Accident

JNEContusion/CrushingOAFThorax, Anatomy/Body, Biomedical AspectOAKCardiovascular SystemOALRespiratory SystemVNEpidemiology, DisciplinesEAAge, PeopleYEFData Statistics, Contents, Study-Report Type

Over 14-year period, 385 patients had penetrating and 637 had nonpenetrating injuries. Mortality is related to causes of injury and shock on admission. Frequency and management of hemothorax, pneumothorax, rib fractures, flail chest, and tracheoesophageal, diaphragmatic, tracheobronchial, cardiovascular, and associated injuries are discussed. Common avoidable errors in management are discussed.

13-3835 N

AGRICULTURAL TRACTOR ACCIDENTS: A description of 14 tractor accidents and a comparison with road traffic accidents. See 18-3835 N

13-3836 N

McClenathan, J. E./ Brettschneider, L. TRAUMATIC THORACIC AORTIC ANEURYSMS. National Naval Medical Center, Naval Hospital, Dept. of Thoracic Surgery, Bethesda, Maryland. July 1965. 9 p. figs. tables. ref.

Journal of Thoracic and Cardiovascular Surgery, Vol. 50, No. 1, July 1965, pp. 74–82.

OAKC	Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
JN	Injury/Trauma, Accident
YCD	Survey, Nature of Study, Study-Report Type
L	Time
WSD	Surgery, Medical, Methods

WSI Autopsy

Report reviews series of 14 cases, all with blunt deceleration injuries inflicted from 18 days to 11 years before surgery. Traumatic thoracic aortic rupture should be suspected in every case of horizontal deceleration chest injury with mediastinal widening. Reviews controversy in literature as to whether surgery should be employed for acute and chronic traumatic thoracic aneurysms. Partial left heart bypass and hypothermia are recommended.

13-3841 S

Lloyd, J. W./ Smith, A. C./ O'Connor, B. T. CLASSIFICATION OF CHEST INJURIES AS AN AID TO TREATMENT.

Radcliffe Infirmary, Nuffield Dept. of Anaesthetics, Oxford (England)/ Radcliffe Infirmary, Accident Service, Oxford (England). 12 June 1965. 6 p. figs. table. ref. British Medical Journal, Vol. 1, 12 June 1965, pp. 1518-1523.

JNE Contusion/Crushing, Injury/Trauma, Accident

- WSE Therapeutic, Medical, Methods
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- OAL Respiratory System
- JNX Multiple Severe Injuries
- YCK Case Studies, Nature of Study, Study-Report Type
- OAI Head
- JNH Fracture

Describes treatment of 121 patients, 33 of whom required intermittent positive-pressure respiration (IPPR). Patients should be classified by ventilatory capacity, not anatomical extent of injury. Mild injury should be treated by pain relief alone. Moderate injury may require tracheostomy. Measurements of pH, Pco_2 and Po_2 indicate whether IPPR is required. Six case reports are presented.

13-3859 N

Constantinescu, O. A NEW METHOD OF TREATING THE FLAIL CHEST WALL.

May 1965. 7 p. figs. ref.

American Journal of Surgery, Vol. 109, May 1965, pp. 604-610.

WSE Therapeutic, Medical, Methods

OAF Thorax, Anatomy/Body, Biomedical Aspect

OAFD Ribs

OAL Respiratory System

Provides state-of-the-art report for treatment of injury to rib panel, describing the author's "anchor" type hook used to secure external plastic panel. Conditions for correct treatment of rib panel are given. Case reports are briefly cited for bilateral anterior sternocostal panels, anterolateral hemipanel, anterolateral and lateral panels, and posterior and posterolateral panels. Author finds apparatus is readily applicable and does not incur trauma, hazards, or complications.

13-3864 S

Reid, J. M./ Baird, W. L. M. CRUSHED CHEST INJURY: Some physiological disturbances and their correction. Glasgow Royal Infirmary, Univ. Dept. of Anaesthetics (Scotland). 24 April 1965. 5 p. tables. figs. ref. British Medical Journal, Vol. 1, 24 April 1965, pp.

1105–1109.

OAF Thorax, Anatomy/Body, Biomedical Aspect

- OAFD Ribs
- JNH Fracture, Injury/Trauma, Accident
- JNE Contusion/Crushing
- OAL Respiratory System
- OAK Cardiovascular System
- YEF Data Statistics, Contents, Study-Report Type L Time

Authors present 33 cases, describing 3 classes of injury by ability to maintain spontaneous respiration, type of treatment required, associated injuries, and state of consciousness. Age, pulmonary trauma on X ray, obstructive lung disease, head injury, bony thoracic injury, other injuries, renal or hepatic failure, tracheostomy, and survival are tabulated for each class.

13-3881 N

INJURY PRODUCED BY SEAT BELTS: Report of 2 cases. See 15-3881 N

13-3895 N Alivisatos, C. N./ Bonellos, C. H./ Avlamis, G. P./ Sarris, M. C./ Romanos, A. N. TRAUMATIC CLOSED RUPTURE OF THE DIAPHRAGM. Athens Univ., Propaedeutic Surgical Clinic (Greece). Oct. 1964. 4 p. ref.

Diseases of the Chest, Vol. 46, No. 4, Oct. 1964, pp. 435-440.

- Laceration/Openwound, Injury/Trauma, JNG Accident
- Diaphragm, Respiratory System, Anatomy/ OALF Body, Biomedical Aspect
- Case Studies, Nature of Study, Study-Report YCK Type

Four cases are described, three from nonpenetrating injury and one involving strangulation of stomach following esophagomyotomy. Two cases had large avulsion of sternocostal insertion of diaphragm. Rupture of diaphragm should be suspected after injury of trunk or operation of diaphragm on basis of clinical or radiological data relative to chest or epigastrium.

13-3907 S

Cato, F. L./ Norman, W. D.

TRAUMATIC HEMOTHORAX: An analysis of 276 cases. Louisiana State Univ., School of Medicine, Dept. of Surgery/ Louisiana State Univ. Surgical Service, Charity Hospital, New Orleans. 1940. 6 p. figs. ref. Surgery, Vol. 7, 1940, pp. 848-859.

JNG	Laceration/Openwound,	Injury/Trauma,
	Accident	
** ***	a	

- JNE Contusion/Crushing
- Thorax, Anatomy/Body, Biomedical Aspect OAF
- YEF Data Statistics, Contents, Study-Report Type
- WSI Autopsy, Medical, Methods
- WSC Diagnosis
- JNK Hemorrhage

WSD Surgery

Cases of hemothorax following chest injuries have been analyzed with reference to incidence, symptomatology, diagnostic methods and therapeutic procedures. Cases were drawn from 1932 to 1936, and no DOA's were included in study.

13-3909 N

Hebert, W. M./ Schlessinger, E./ Lewis, R./ Samson, P. C. A REGIMEN FOR THE EARLY CARE OF THE PA-TIENT WITH CRUSHED CHEST.

Highland Alameda County Hospital, Oakland, California/ San Joaquin General Hospital, Stockton, California. May 1964. 8 p. photos. ref.

Journal of Trauma, Vol. 4, May 1964, pp. 325-338. Conference: Stockton Surgical Society, 1 Aug. 1961.

Tim

- Thorax, Anatomy/Body, Biomedical Aspect OAF
- Contusion/Crushing, Injury/Trauma, Accident JNE
- WSE Therapeutic, Medical, Methods
- OAFD Ribs

JNH Fracture

OAL **Respiratory System**

Classification for crushing injuries of chest is given. Conservative therapy is recommended for relatively minor but potentially serious injuries. For serious injuries necessitating surgery or intensive care, immediate and definitive care is discussed as opposed to protracted therapy, emphasizing importance of tracheostomy care.

Thoracotomy and cardiac management are discussed. Organization of specialized teams for care of these patients is recommended.

13-3912 S

Garzon, A. A./ Amer, N. L./ Karlson, K. E.

TREATMENT OF PENETRATING WOUNDS OF THE CHEST.

New York State Univ. College of Medicine, Brooklyn/ Kings County Hospital, New York. March 1964. 5 p. tables. ref.

Archives of Surgery, Vol. 88, March 1964, pp. 397-404.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology, Disciplines
- WSD Surgery
- JNK Hemorrhage

Reviews records of 301 consecutive patients admitted alive. Etiology of injury and age distribution are given. Cases are grouped by type of management; incidence of hypotension, length of hospitalization, amount of pleural drainage, indication for thoracotomy cases requiring laparotomy, associated injuries, and deaths are tabulated for each group. Experience of other authors is tabulated giving year, number of cases, total mortality, thoracic mortality, type of injury, incidence of thoracotomy, complications, and treatment.

13-3936 S

Göthman, B./ Högman, L. CURRENT TREATMENT OF ACUTE THORACIC IN-JURIES.

Centrallasarettet, Dept. of Surgery, Örebro (Sweden). 1964. 6 p. ref.

Acta Chirurgica Scandinavica, Vol. 127, 1964, pp. 609-618.

- OAF Thorax, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods JNE Contusion/Crushing/Blunt, Injury/Trauma,
- Accident
- YEF Data Statistics, Contents, Study-Report Type VN Epidemiology/Etiology, Disciplines
- Age, People EA
- JNX
- Multiple Severe Injuries
- YCK Case Studies, Nature of Study

Brief state-of-the-art report on six year study of Swedish treatment of 219 cases of acute thoracic injury. Traffic accidents were responsible for about half of the cases. Mortality, age, sex, length of hospitalization, causation, associated injuries, and specific nature of thoracic injuries are tabulated according to severity of injuries. Frequency of surgical procedures and other therapy for group with most severe injuries is discussed. Nine cases are presented in detail.

13-3999 N

Ker. H. CLOSED TRAUMATIC RUPTURE OF THE DIA-PHRAGM.

Merthyr Hospital, Glamorgan (England)/ Aberdare Hospital, Glamorgan (England). 1963. 2 p. figs. ref. British Journal of Surgery, Vol. 50, 1963, pp. 891-893.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OALF Diaphragm, Respiratory System, Anatomy/ Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type

Author gives 2 case reports and discusses problems in diagnosis and treatment.

13-4014 S

PATTERNS OF THORACIC INJURIES IN FATAL TRAFFIC ACCIDENTS. See 24-4014 S

13-4045 S

Cordice, J. W. V., Jr./ Cabezon, J. CHEST TRAUMA WITH PNEUMOTHORAX AND HEMOTHORAX.

New York City Dept. of Hospitals, Harlem Hospital Center, Dept. of Surgery, New York. Sept. 1965. 12 p. tables. figs. ref.

Journal of Thoracic and Cardiovascular Surgery, Vol. 50, No. 3, Sept. 1965, pp. 316-338.

Sponsor: George H. Humphreys, II, New York.

- OAF Thorax, Anatomy/Body, Biomedical Aspect
- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- JNE Contusion/Crushing/Blunt
- VN Epidemiology/Etiology, Disciplines
- JNX Multiple Severe Injuries
- YEF Data Statistics, Contents, Study-Report Type WSC Diagnosis, Medical, Methods
- WSD Surgery
- WSE Therapeutic
- OAL Respiratory System

Describes etiology, clinical characteristics, treatment, complications, and incidence of death for 432 cases of penetrating trauma and 70 cases of blunt trauma. Initial treatment is for shock and respiratory embarrassment. Indications for exploratory surgery are uncontrolled bleeding, cardiac tamponade, diaphragmatic penetration, penetration of esophagus, trachea, or major bronchus, and imbedded foreign body in "dangerous" region.

13-4056 N

Thomson, N. B., Jr. THORACIC INJURIES IN CHILDREN.

Children's Hospital, Dept. of Cardiovascular Surgery, Buffalo, New York/ Buffalo Univ. School of Medicine, New York. 1962. 7 p. photos. ref. Journal of Trauma, Vol. 2, 1962, pp. 76–88.

- JN Injury/Trauma, Accident
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- EC Children, People
- WSBC Maintaining Airways, First Aid, Medical, Methods
- YCK Case Studies, Nature of Study, Study-Report Type
- OAL Respiratory System

Seven detailed case reports illustrate differences between responses of children and adults to thoracic trauma. Differences result from resiliency of child's thoracic cage, small lung capacity, lesser blood volume, and small airway. Gives principles in management of thoracic injuries in children.

13-4067 N

Kempf, F. K./ Deister, J. THORAXVERLETZUNGEN: Ihre Komplikationen und Behandlung. [THORACIC INJURIES: Their complications and therapy.]

May 1964. 9 p. photos. ref.

Monatsschrift für Unfallheilkunde, Vol. 67, May 1964, pp. 185-200.

JN Injury/Trauma, Accident

- OAF Thorax, Anatomy/Body, Biomedical Aspect
- JNP Consequences/Complications
- WSE Therapeutic, Medical, Methods
- VN Epidemiology/Etiology, Disciplines
- YCK Case Studies, Nature of Study, Study-Report Type

Automotive accidents represent over 50% of authors' cases. The incidence of associated injuries is very high. Difficulty of adequate diagnosis is pointed out. Six selected case reports demonstrate importance of correct, early diagnosis.

13-4072 S

Schramel, R./ Kellum, H./ Creech, O., Jr. ANALYSIS OF FACTORS AFFECTING SURVIVAL

AFTER CHEST INJURIES.

Tulane Univ. School of Medicine, Dept. of Surgery, New Orleans, Louisiana/ Charity Hospital, New Orleans, Louisiana. Nov. 1961. 4 p. tables. ref.

Journal of Trauma, Vol. 1, Nov. 1961, pp. 600-607.

Contract No: DA-49-007-MD-796.

Grant No: H-4429.

Conference: American Association for the Surgery of Trauma, 20th annual, 5-7 Oct. 1960, Coronado, California.

- YEF Data Statistics, Contents, Study-Report Type JNG Laceration/Openwound/Penetrating, Injury/
- Trauma, Accident
- JNE Contusion/Crushing/Blunt
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines

Analyze 265 cases over 5-year period, with mortality of 7% for penetrating and 28% for nonpenetrating injuries. In penetrating injuries, presence of wounds of heart and great vessels and correct assessment of injury are two major factors in survival. Age and associated injuries are major factors for nonpentrating injuries.

13-4077 N

Jenny, R. H.

VERLETZUNGEN DES THORAKALEN OSOPHAGUS. [INJURIES OF THE THORACIC ESOPHAGUS.] Wien Universitat, Chirurgischen Klinik (Austria). Feb. 1960. 4 p. tables. figs. Klinische Medizin, Vol. 15, Feb. 1960, pp. 86–92.

JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident OAJI Esophagus, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect

Brief state-of-the-art report with discussion of case reports. Rare event. Mortality 50%. Tabulation for 6 cases gives age, cause for admission, delay after occurrence, findings, therapy, and outcome.

13-4081 S

Humm, R.

A PROPOS DE 268 TRAUMATISMES THORACIQUES FERMES. [APROPOS OF 268 CLOSED CHEST INJU-RIES.]

9 Feb. 1963. 5 p.

Schweizerische Medizinische Wochenschrift, Vol. 93, 9 Feb. 1963, pp. 234–238.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- JNP Consequences/Complications
- WSE Therapeutic, Medical, Methods
- OAL Respiratory System
- YEF Data Statistics, Contents, Study-Report Type

The author presents statistical data on 268 cases of closed thoracic trauma observed over four and one half years at the University Surgical Clinic, Geneva. He distinguishes between trauma which did not involve a loose lateral area ("stove-in" chest) (92%), and that which produced a "stove-in" chest moving abnormally on respiration (8%). The frequency of multiple trauma is pointed out (34% presented skull trauma and 32% fractures of the limbs, the shoulder or pelvic girdles). Finally, the evolution of these cases as group, with an analysis of the deaths (9%) and a description of treatment, with a particular reference to the use of the Engstrom machine, is reviewed.

13-4087 S

Rodewald, G./ Harms, H.

FUNKTIONELLE SPÄTERGEBNISSE NACH SCHWEREN BRUSTKORBTRAUMEN. [LATE SE-QUELAE OF SEVERE CHEST INJURIES].

Hamburg Universitat (Germany). 1965. 3 p. table. fig. ref. Zentralblatt fur Chirurgie, Vol. 90, 1965, pp. 1231–1235.

- JNP Consequences/Complications, Injury/Trauma, Accident
- JNX Multiple Severe Injuries
- OAL Respiratory System, Anatomy/Body, Biomedical Aspects
- OAF Thorax

Authors define severe chest injuries, and limit cases by exclusion of rare occurrences such as complete transection of lungs and injuries to the heart and great vessels. Follow-up investigations carried out on 19 patients about 2 to 3 years after the accident. Tabulation shows 4 ratings (severe, medium, light, and severe independent of accident) for immediate consequences, injury, clinical picture, follow-up examination: clinic observation, X ray, spirometry, blood gases, and ultimately the subjective appraisal of patient.

Discuss blood-gas analysis irregularities, point out consequences independent of adequate spyrometric result.

13-4091 N Schairer, E.

SPÄTRUPTUR DER SPEISERÖHRE NACH STUMPFEM TRAUMA. [LATE RUPTURE OF THE ESOPHAGUS AFTER BLUNT TRAUMA.]

Pathologisch-Histologischen Institut Ulm (Germany). 25 Dec. 1959. 3 p.

Medizinische Klinik, Vol. 54, 25 Dec. 1959, pp. 2327-2329.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OAJI Esophagus, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect
- JNP Consequences/Complications
- YCK Case Studies, Nature of Study, Study-Report Type

Literature survey. One case report. Rupture occurred three weeks after original trauma. Author presents hypothesis about the mechanism of rupture. Diagnosis discussed.

13-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

13-4125 S

Sherman, R. T. EXPERIENCE WITH 472 CIVILIAN PENETRATING WOUNDS OF THE CHEST. Tennessee Univ., Memphis, College of Medicine/ John Gaston Hospital, Memphis, Tennessee. Jan. 1966. 3 p. tables. ref.

Military Medicine, Vol. 131, Jan. 1966, pp. 63-67.

- OAF Thorax, Anatomy/ Body, Biomedical Aspect
- JNG Laceration/ Openwound/ Penetrating, Injury/ Trauma, Accident
- VN Epidemiology/ Etiology, Disciplines
- WSE Therapeutic, Medical, Methods
- JNP Consequences/ Complications

Author discusses etiology, management, late complications and results of treatment. Describes six major principles of treatment. Discusses data statistics: age, sex, race, and type of wound; eitology, results of tube thoracotomy and thoracentesis; late complications and mortality; type of treatment and mortality.

13-4129 N

Border, J. R./ Hopkinson, B. R./ Schenk, W. G.
MECHANISMS OF PULMONARY TRAUMA: An experimental study.
New York State Univ., Buffalo, Dept. of Surgery/ E. J.
Meyer Memorial Hospital, Buffalo, New York. 1968. 9 p. tables. figs. ref.
Journal of Trauma, Vol. 8, No. 1, 1968, pp. 47–62.
Grant No: HE 03181.
Sponsor: National Heart Institute, Maryland/ United Health Foundation of Western New York.
OAL Respiratory System
JNE Contusion/Crushing/Blunt

JNE	Contusion/Crushing/Blu
YCG	Laboratory Experiment

Authors describe a type of thoracoabdominal trauma

without rib fractures. In patients with this injury initial X rays may be negative. Death from severe arterial hypoxia is not rare. This type of injury was simulated in dogs. Authors describe material and methods. Present and discuss findings. Postulate that atelectasis is initially present in the condition. Suggest possibility that the lesion could be prevented by early and continued reinflation of the atelectatic lung.

13-4130 N

Epstein, L. I./ Lempke, R. E.

RUPTURE OF THE RIGHT HEMIDIAPHRAGM DUE TO BLUNT TRAUMA.

Indiana Univ., Indianapolis, Medical Center, Dept. of Surgery/ Veterans Administration Hospital, Indianapolis, Surgical Service. 1968. 6 p. ref. table. figs.

Journal of Trauma, Vol. 8, No. 1, 1968, pp. 19-28.

- JNE Contusion/ Crushing/ Blunt, Injury/ Trauma, Accident
- OALF Diaphragm, Respiratory System, Anatomy/ Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type

Authors give 3 case reports and review 36 cases previously reported with respect to age, sex, agent, sensorium, associated injuries, time from injury to operation, symptoms at delayed operation, and result. Note the high incidence of associated injury to the pelvis, spine or brain. Note that the condition is often undiagnosed initially. Discuss the medical and non-medical consequences of a delay in diagnosis.

13-4160 S

Gray, A. R./ Harrison, W. H., Jr./ Couves, C. M./ Howard, J. M.

PENETRATING INJURIES TO THE CHEST: Clinical results in the management of 769 patients.

Nov. 1960. 4 p. charts. ref. tables.

American Journal of Surgery, Vol. 100, Nov. 1960, pp. 709-714.

- Laceration/ Openwound/ Penetrating, Injury/ JNG Trauma, Accident
- OAF Thorax, Anatomy/ Body, Biomedical Aspect
- Epidemiology/ Etiology, Disciplines VN
- YEF Data Statistics, Contents, Study-Report Type

Patients admitted to Grady Memorial Hospital, Atlanta. Authors describe general management in some detail. Present and analyze data. Note that mortality has decreased from 13% (1935) to 3.8% (1958). Data statistics: mortality; immediate complications; cause of injury; median hospital stay, type of treatment; nature of fatal injuries; hypotension on admission; shock unexplained by hemorrhage; associated injuries; empyema.

13-4161 S

Harrison, W. H., Jr./ Gray, A. R./ Couves, C. M./ Howard, L M

SEVERE NON-PENETRATING INJURIES TO THE CHEST: Clinical results in the management of 216 patients.

Nov. 1960. 5 p. charts. ref. tables.

American Journal of Surgery, Vol. 100, Nov. 1960, pp. 715-722.

- WSE Therapeutic, Medical, Methods
- Contusion/ Crushing/ Blunt, Injury/ Trauma, JNE Accident
- Thorax, Anatomy/ Body, Biomedical Aspect OAF
- Epidemiology/ Etiology, Disciplines VN
- YEF Data Statistics, Contents, Study-Report Type

Patients admitted to Grady Memorial Hospital (Atlanta, Georgia). In general, method of treatment was most conservative possible. Authors present and discuss findings. Mortality rate was 7 percent. Data statistics: mortality and age; type of accident; number and location of injuries; complications; number of ribs fractured; shock; associated injuries; empyema. Tabulate, for 8 fatal cases: age; survival time, ribs fractured; pneumo- and hemothorax; shock; treatment.

13-4163 S

Johansson, L./ Silander, T.

TWENTY-ONE YEARS OF THORACIC INJURIES: A clinical study of 313 cases.

Karolinska Hospital, Thorax Clinic (Sweden). 1959. 12 p. figs. ref. tables.

Acta Chirurgica Scandinavica. Supplement, Vol. 245, 1959, pp. 91-112.

- Contusion/ Crushing/ Blunt, Injury/ Trauma, JNE Accident
- OAF Thorax, Anatomy/ Body, Biomedical Aspect
- VN Epidemiology/ Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- OAFD Ribs
- JNH Fracture OAL **Respiratory System**

Authors analyze data. Describe and discuss symptoms, treatment, and results in cases with rib fractures, bronchial rupture, aortic aneurysm, traumatic myocardiac injury, and penetrating heart and lung wounds. Data statistics: age; type of accident; annual distribution of thoracic fractures; distribution of rib fractures; distribution and combinations of injuries; type of thoracic injury. Four illustrative case histories.

13-4182 N Taubert, E.

KLINIK UND FORSCHUNG; BEITRAG ZUR TRAUMA-TISCHEN ZWERCHFELLRUPTUR. [CONTRIBUTION TO TRAUMATIC RUPTURE OF THE DIAPHRAGM.] Berlin Univ. Hospital, Surgery Dept. (Germany). Aug. 1965. 6 p. figs. photos. ref.

Chirurg, Vol. 36, Aug. 1965, pp. 337-342.

- JNE Contusion/ Crushing/ Blunt, Injury/ Trauma, Accident
- OALF Diaphragm, Respiratory System, Anatomy/ Body, Biomedical Aspect

Discussion of mechanism of injury. Prolapse of abdominal organs. X rays and case histories. Mortality low, usually affected by associated injuries. Maximum delay from occurrence to detection in Taubert's series is 17 years.

13-4337 S ROAD ACCIDENTS. See 03-4337 S 13-4504 S

DIED IN HOSPITAL: A three-year study of deaths following trauma. See 21-4504 S

13-4513 S

ÜBER DIE RIPPENSERIENFRAKTUREN DURCH VERKEHRSUNFÄLLE UND DEN DERZEITIGEN STAND IHRER BEHANDLUNG. [ON SERIAL RIB FRACTURES CAUSED BY TRAFFIC ACCIDENTS AND THE CURRENT STATUS OF THEIR TREAT-MENT. See 24-4513 S

13-4518 S

Keller, J. W./ Meckstroth, C. V./ Sanzenbacher, L./ Pace, W. G.

THORACIC INJURIES DUE TO BLUNT TRAUMA.

Ohio State Univ. Hospitals, Dept. of Surgery, Columbus/ Ohio State Univ., College of Medicine, Columbus. 1967. 6 p. figs. ref.

Journal of Trauma, Vol. 7, No. 4, 1967, pp. 541-550. Conference: American Association for the Surgery of Trauma, 26th annual, 6-8 Oct. 1966, Santa Barbara, California.

- JNE Contusion/ Crushing/ Blunt, Injury/ Trauma, Accident
- OAF Thorax, Anatomy/ Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type

WSE Therapeutic, Medical, Methods

Clinical study of 188 cases of severe thoracic injury. Authors discuss incidence, type of thoracic injury, associated injuries, diagnosis and treatment. Conclude that death is most often due to severe extrathoracic injuries, but that untreated thoracic damage may increase the mortality rate. Emphasize necessity of prompt diagnosis and treatment. Data statistics: mortality; type of thoracic injury; and associated injuries.

13-4520 S

Stevens, E./ Templeton, A. W.

TRAÚMATIĆ NÓNPENETRATING LUNG CONTUSION.

Missouri Univ., Medical Center, Dept. of Radiology, Columbus. Aug. 1965. 6 p. figs. table. ref. *Radiology*, Vol. 85, Aug. 1965, pp. 247-252.

- JNE Contusion/ Crushing/ Blunt, Injury/ Trauma, Accident
- OALE Lungs, Respiratory System, Anatomy/ Body, Biomedical Aspect
- YER General Discussions, Contents, Study-Report Type

Clinical study of 20 patients. Authors found poor correlation between X-ray and clinical findings. Discuss characteristic patterns, mechanism and course of injury. Data statistics: frequency of clinical findings; frequency of two parenchymal infiltrative patterns.

13-4526 S

Johansson, L./ Silander, T. THORAXSKADOR I TRAFIKEN. [CHEST INJURIES IN TRAFFIC ACCIDENTS.] 8 Dec. 1965. 6 p. ref. figs. tables. *Lakartidningen*, Vol. 62, 9 Dec. 1965, pp. 4114–4123. Order No: STS 6331 (English translation).

- JN Injury/ Trauma, Accident
- OAF Thorax, Anatomy/ Body, Biomedical Aspect
- VN Epidemiology/ Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- OAKC Blood Vessels, Cardiovascular System
- OALF Diaphragm, Respiratory System
- WSBCT Tracheostomy, Maintaining Airways, First Aid, Medical, Methods

Authors describe and discuss general principles of management. Discuss mechanisms of injury, diagnosis, and treatment of intrathoracic injuries. Analyze data from 395 cases. Data statistics: average hospital stay; percent of tracheotomies; percent of traffic accidents; sex; average age; number of broken ribs; sternal fractures; mortality; pleural complications.

14-3702 S

ARTERIAL INJURIES OF THE BASE OF THE NECK. See 12-3702 S

14-3707 S

COMPLICATIONS ARTERIELLES DES TRAUMA-TISMES FERMÉS DES MEMBRES. Premier rapport. [ARTERIAL COMPLICATIONS OF CLOSED INJURIES TO LIMBS. First report.] See 17-3707 S

14-3708 S

THE MANAGEMENT OF CIVILIAN ARTERIAL INJURIES. See 17-3708 S

14-3713 S

EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. [AN ANALYSIS OF 827 CASES OF FATAL ACCI-DENTS.] See 24-3713 S

14-3716 N

Stoney, R. J./ Roe, B. B./ Redington, J. V.
RUPTURE OF THORACIC AORTA DUE TO CLOSED-CHEST TRAUMA.
California Univ. Medical Center, Dept. of Surgery. Nov. 1964. 4 p. figs.
Archives of Surgery, Vol. 89, Nov. 1964, pp. 840-847.
Conference: International Cardiovascular Society, 12th Scientific meeting, North American Chapter, 20 June 1964, San Francisco, California.
OAKC Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect

- L Time
- WSD Surgery, Medical, Methods
- YCK Case Studies, Nature of Study, Study-Report Type

Review literature and three case studies of traumatic aortic rupture. 80% of victims die before reaching hospital. Triad of crushing chest injury, mediastinal widening, and left hemothorax should suggest diagnosis. Recommend prompt surgical intervention in all cases of suspected aortic rupture.

14-3717 S

Logan, W. D., Jr./ Jordan, W. C./ Soracco, G. **PENETRATING CARDIAC INJURIES.**

Emory Univ. School of Medicine, Dept. of Surgery/ Grady Memorial Hospital. Oct. 1964. 2 p. tables. ref. American Surgeon, Vol. 30, No. 10, Oct. 1964, pp. 664-667.

Conference: Southeastern Surgical Congress, 21-28 March 1964.

JNG	Laceration/Openwound,	Injury/Trauma,	
	Accident		

- JNX Multiple Severe Injuries
- OAKB Heart, Cardiovascular System, Anatomy/Body, **Biomedical Aspect**
- YEF Data Statistics, Contents, Study-Report Type

Compares results of three treatments in 30 patients with injury severe enough to cause considerable bleeding into the chest or cardiac tamponade. Reports no deaths among those treated with pericardiocentesis alone, high mortality for those treated by thoracotomy alone or pericardiocentesis followed thoracotomy. Pericardiocentesis does not increase late complications.

14-3719 S

Lundevall, J.

TRAUMATIC RUPTURE OF THE AORTA WITH SPE-CIAL REFERENCE TO ROAD ACCIDENTS.

Oslo Univ., Institute of Forensic Medicine (Norway). 1964. 3 p. table. ref.

Acta Pathologica et Microbiologica Scandinavica, Vol. 62, 1964, pp. 29-33.

JN	Injury/Trauma, Accident	
OAKC	Blood Vessels, Cardiovascular	System,
	Anatomy/Body, Biomedical Aspect	
WSI	Autopsy, Medical, Methods	
EA	Age, People	
L	Time	
JNK	Hemorrhage	

Describes 21 fatal closed injuries over ten-year period. Because of intrathoracic hemorrhage, survival time is rarely long enough to permit surgical treatment.

14-3725 S

Quast, D. C./ Shirkey, A. L./ Fitzgerald, J. B./ Beall, A.C., Jr./ De Bakey, M.E.

SURGICAL CORRECTION OF INJURIES OF THE VENA CAVA: An analysis of sixty-one cases.

Baylor Univ. College of Medicine, Cora and Webb Mading Dept. of Surgery, Houston, Texas/ Jefferson Davis General Hospital, Houston, Texas/ Ben Taub General Hospital, Houston, Texas. 1965. 5 p. ref. tables. figs.

Journal of Trauma, Vol. 5, 1965, pp. 3-10

Contract No: DA-49-007-MD-2523/ HE-03137/ HE-05387.

Sponsor: Army Research and Development Command/ Public Health Service.

Conference: American Association for the Surgery of Trauma, 24th annual, 1-3 Oct. 1964, Chicago, Illinois.

- OAKCC Veins, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect WSD
- Surgery, Medical, Methods JNX Multiple Severe Injuries, Injury/Trauma, Acci-
- dent INK Hemorrhage
- **JNPL** Shock, Consequences

Describes 61 patients with vena caval injuries who were alive on admission to hospital. Cases extend from 1946-1964. Gunshots, stabbings, and blunt trauma accounted for inferior and superior vena caval wounds. Details of treatment given. In presence of continuing hemorrhage, operation should not await resuscitation. Drawings illustrate location of vena caval injuries in the sample and control of hemorrhage by direct pressure during surgery. Blood loss and shock responsible for 28 of the 31 fatalities. Associated injuries to other major vascular structures were frequent.

14-3766 S

Zehnder, M. A. SYMPTOMATOLOGIE UND VERLAUF DER AORTEN-RUPTUR BEI GESCHLOSSENER THORAXVERLET-ZUNG: An Hand von 12 Fällen. [SYMPTOMS AND THERAPY OF RUPTURE OF THE AORTA WITH CLOSED CHEST INJURY: Study of 12 cases.]

Hartford Hospital, Hartford, Connecticut. June 1960. 24 p. figs. tables. ref.

Thoraxchirurgie, Vol. 8, No. 1, June 1960, pp. 1-46.

OAKCB	Arteries, Blood Vessels, Cardiovascular System,
	Anatomy/Body, Biomedical Aspect

		• /	
WSC	Diagnosis.	Medical.	Methods

NSE	Therapeutic	

- YCK Case Studies, Nature of Study, Study-Report Type
- L Time YEF Data Statistics, Contents

State-of-the-art review covering occurrence and frequency of traumatic rupture of the aorta and traumatic aneurisms of the thoracic aorta with and without surgery. 2510 cases are covered in the referred literature. A review of the spontaneous (non-trauma) cases found in the literature is also made. 12 case studies out of own data are discussed, arranged in order of length of survival time.

The mechanism of injury, the most frequent location, length of survival, rib fractures, and the injury produced in seven cases to perfectly normal and health aortas are discussed. The anatomical sequence of events and symptoms with closed-chest injury of the aorta are discussed in table form, for early cases, for the period of "illusion," and the period of "oblivion." Seven cases are mentioned with time of survival, in which author considers retrospectively that early detection and management could have been life saving.

On the basis of author's cases a complete discussion is presented of diagnostic techniques and symptoms.

14-3767 S

TODESURSACHEN BEI FRISCHEN THORAXVERLET-ZUNGEN. [DEATH CAUSES IN RECENT THORACIC INJURIES. See 23-3767 S

14-3776 S

von Berg, V. J./ Moggi, L./ Jacobson, L. F./ Jordan, P., Jr./ Johnston, C. G.

TEN YEARS' EXPERIENCE WITH PENETRATING INJURIES OF THE HEART.

Wayne State Univ. College of Medicine, Dept. of Surgery, Detroit, Michigan. 1961. 5 p. tables. ref. figs.

Journal of Trauma, Vol. 1, 1961, pp. 186-194.

Grant No: H-3465(C2)/ H-2553(C3).

Sponsor: National Institutes of Health/ Receiving Hos pital Research Corp.

Conference: American Association for the Surgery of Trauma, 20th annual, 5-7 Oct. 1960, Coronado, California.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- VN Epidemiology, Disciplines
- L Time
- YEF Data Statistics, Contents, Study-Report Type JNK Hemorrhage
- WSD Surgery, Medical, Methods

Describe treatment and results of 102 cases treated during 1949–1958 with overall mortality rate of 13%. Decision whether to perform cardiorrhaphy was based on Beck's triad, positive pericardial aspiration, and/or radiological confirmation of cardiac injury. Recommend operative treatment for control of hemorrhage. Simple aspiration of pericardial sac limited to small number of cases where bleeding did not recur. Type of injury, location of wound are important in selection of therapy.

14-3780 N

SOME COMPLICATIONS OF UPPER LIMB INJURIES. See 17-3780 N

14-3798 S THORACIC TRAUMA: Analysis of 1022 cases. See 13-3798 S

14-3828 S

Greendyke, R. M. TRAUMATIC RUPTURE OF AORTA. Special reference to automobile accidents.

14 Feb. 1966. 4 p. figs. tables. ref.

American Medical Association. Journal, Vol. 195, No. 7, 14 Feb. 1966, pp. 119–122.

- OAKC Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WSI Autopsy, Medical, Methods
- JNB Fatal, Injury/Trauma, Accident
- JKB Ejection, Accident Hazards
- YEF Data Statistics, Contents, Study-Report Type
- YCB Research, Nature of Study

42 cases of traumatic aortic rupture were found in 1259 autopsies performed in one county. Cites literature to demonstrate rise in occurrence. One of six victims of fatal auto accidents sustained aortic rupture. Rupture was twice as common in ejected occupants as in those not ejected. Gives frequency of various bone fractures associated with aortic rupture. Study suggests that rapid deceleration and application of varying gravity units of force determine whether aortic rupture will occur to automobile occupants involved in accidents.

14-3829 S

Wilson, R. F./ Bassett, J. S. PENETRATING WOUNDS OF THE PERICARDIUM OR ITS CONTENTS.

Wayne State Univ. College of Medicine, Dept. of Surgery, Detroit, Michigan. 14 Feb. 1966. 6 p. tables. ref.

American Medical Association. Journal, Vol. 195, No. 7, 14 Feb. 1966, pp. 105–110.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type JNPK Blood Loss/Bleeding, Consequences

Authors emphasize valuable factors in diagnosis, prognosis, and treatment of 200 patients. Pericardicentesis was used mainly as diagnostic and temporary therapeutic measure, and cardiorrhaphy was performed in 187 cases. Beck's triad, present in only 40%, was of limited diagnostic value. Twenty-two deaths were related primarily to bleeding, five to myocardial infarctions, and nine to combined bleeding, tamponade, and/or infarction.

14-3830 S

Maynard, A. de L./ Brooks, H. A./ Froix, C. J. L. **PENETRATING WOUNDS OF THE HEART.** Harlem Hospital Center, Dept. of Surgery, New York/ Columbia Univ. College of Physicians and Surgeons, New York. May 1965. 4 p. figs. tables. ref. *Archives of Surgery*, Vol. 90, May 1965, pp. 680–686.

- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- JNG Laceration/Openwound, Injury/Trauma, Accident
- L Time
- JNK Hemorrhage
- YEF Data Statistics, Contents, Study-Report Type
- WSD Surgery, Medical, Methods

According to Medical Examiner's records in New York City, about 30% of those with penetrating heart wounds reach hospital alive. Of 64 such patients, 58 were subjected to surgery with 53 survivals and five deaths. "Delayed" or secondary hemorrhage is discussed with brief case reports. Attention is directed to clinicopathological complex of acute hemopericardium with tamponade plus massive hemothorax, the result of heart wound and laceration of internal mammary vessels.

14-3836 N

TRAUMATIC THORACIC AORTIC ANEURYSMS. See 13-3836 N

14-3846 S

Ricks, R. K./ Howell, J. F./ Beall, A. C., Jr./ De Bakey, M. E.

GUNSHOT WOUNDS OF THE HEART: A review. Baylor Univ. College of Medicine, Cora and Webb Mading Dept. of Surgery, Houston, Texas/ Jefferson Davis General Hospital, Houston, Texas. June 1965. 3 p. tables. ref. Surgery, Vol. 57, No. 6, June 1965, pp. 787–790. Grant No: HE-03137.

Contract No: DA-49-007-MD-2523.

Sponsor: Public Health Service/ Army Research and Development Command.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YER General Discussion, Contents, Study-Report Type
- JNB Fatal
- WSD Surgery, Medical, Methods

Describes 31 cases alive on arrival at hospital. Gives clinical condition, plan of treatment, associated organ injury, complications, and results of treatments. Recommends pericardiocentesis as primary method of management.

14-3847 S

THE RECOGNITION AND MANAGEMENT OF PERI-PHERAL ARTERIAL INJURIES. See 17-3847 S

14-3861 N

Cheng, H. C./ Ripstein, C. B./ Burns, H. SUCCESSFUL SURGICAL MANAGEMENT OF THROUGH-AND-THROUGH GUNSHOT WOUND OF THE HEART: A case report. Brookdale Hospital Center, Brooklyn, New York. May 1965. 3 p. figs. ref.

Journal of Thoracic and Cardiovascular Surgery, Vol. 49, No. 5, May 1965, pp. 868-873.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- WSD Surgery, Medical, Methods
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type

Presents case report of 14-year old boy with through-and-through gunshot wound of heart and lung. After emergency exploratory thoracotomy, wounds were repaired surgically and patient fully recovered. Perforated interventricular septum healed spontaneously.

14-3863 N

CLOSED TRAUMATIC RUPTURE OF COMMON FEM-ORAL ARTERY. See 17-3863 N

14-3876 N

Lui, A. H. F./ Glas, W. W./ Bercu, B. A. STAB WOUND OF THE HEART WITH TAMPONADE AND INTERVENTRICULAR SEPTAL DEFECT. Wayne County General Hospital, Eloise, Michigan. March 1965, 4 p. ref. Journal of Thoracic and Cardiovascular Surgery, Vol. 49,

No. 3, March 1965, pp. 517–522.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- JNP Consequences
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- WSD Surgery, Medicial, Methods

Authors give detailed case report on infrequent injury and review similar injuries discussed by other authors. In this case, initial pericardiocentesis was followed by surgical repair $4\frac{1}{2}$ hours after admission. Several months later, persistent ventricular septic defect was repaired with aid of pump oxygenator. In general, period of observation prior to repair allows one to evaluate hemodynamic significance to left-to-right shunt, permits healing of small defects, and permits wound edges to become fibrotic. 14-3892 N

McKnight, J. T./ Meyer, J. A./ Neville, J. F., Jr. NONPENETRATING TRAUMATIC RUPTURE OF THE THORACIC AORTA.

New York State Univ., Upstate Medical Center, Dept. of Surgery, Syracuse. Dec. 1964. 3 p. ref.

Annals of Surgery, Vol. 160, No. 6, Dec. 1964, pp. 1069-1072.

- JNE Contusion/Crushing, Injury/Trauma, Accident OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type
- WSD Surgery, Medical, Methods

Discusses occurrence and etiology of acute traumatic rupture of aorta, with two case reports and reference to earlier data. Of patients who arrive at hospital alive, 85% will live long enough for surgical intervention. Surgical procedure, difficulty of diagnosis and formation of false aneurism are discussed. Diagnostic value of a widened superior mediastinum is emphasized.

14-3893 N

Lucido, J. L./ Voorhees, R. J. IMMEDIATE THORACOTOMY FOR WOUNDS OF THE HEART.

St. Louis Univ. School of Medicine, Dept. of Surgery, Missouri/ St. Louis County Hospital, Thoracic Surgical Service, Missouri/ St. Louis City Hospital, Surgical Service, Missouri. Nov. 1964. 3 p. table. ref.

American Journal of Surgery, Vol. 108, Nov. 1964, pp. 664–669.

Conference: Southwestern Surgical Congress, 16th annual, 27–30 April 1964, Texas.

- WSD Surgery, Medical, Methods
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- OAKB Heart, Cardiovascular System
- WU Testing/Measures
- YCK Case Studies, Nature of Study, Study-Report Type
- L Time
- WSC Diagnosis

Clinical data on five successful cardiorrhaphies are tabulated with description of injury, surgical procedure, and postoperative information. Pericardial tamponade, diagnostic procedures, and management of injuries are discussed and heart wounds classified. Pericardiocentesis not always satisfactory. Bias is claimed in statistics indicating high mortality rates for thoracotomy, because usually only critical patients are operated on.

14-3901 N

MANAGEMENT OF FRACTURE WITH VASCULAR INJURY. See 17-3901 N

14-3942 N

Samuel, E. **DECELERATION INJURIES OF HEART AND LUNG.** Royal Edinburgh Infirmary (England). Dec. 1963. 6 p. figs. ref.

Postgraduate Medical Journal, Vol. 39, Dec. 1963, pp. 695-704.

JNE	Contusion/Crushing/Blunt,	Injury/Trauma,
	Accident	
O I TZD	TT (C C Contractor Construct	A materia /D - Are

- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- OALE Lungs, Respiratory System
- NKE Deceleration, Operating Conditions, Physical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type

Deceleration injuries incurred in automobile accidents are classified as impact injuries (chest-wall injuries, pleural changes, pulmonary damage, mediastinal hematoma) and momentum injuries (thoracic-duct, diaphragm, heart and aorta, cardiac injuries, and pericardial effusion). Importance and difficulty of recognizing type of injury is stressed. Radiologic features of pulmonary and cardiac injuries following nonpenetrating trauma are considered.

14-3944 S

DEEP VENOUS THROMBOSIS FOLLOWING FRAC-TURES OF THE TIBIAL SHAFT: A phlebographic study of 40 patients one to two weeks after injury and after fracture union. See 17-3944 S

14-3976 S

DER TÖDLICHE VERKEHRSUNFALL AUS DER SICHT DES PATHOLOGEN. [THE FATAL TRAFFIC ACCIDENT FROM THE PATHOLOGIST'S VIEW-POINT.] See 23-3976 S

14-4013 N

THROMBOEMBOLIC COMPLICATIONS OF ORTHO-PEDICS AND THE SURGERY OF TRAUMA. See 17-4013 N

14-4029 S

Beall, A. C., Jr. PENETRATING WOUNDS OF THE AORTA.

Baylor Univ. College of Medicine, Cora and Webb Mading Dept. of Surgery, Houston, Texas/ Jefferson Davis General Hospital, Houston, Texas. May 1960. 5 p. tables. figs. ref.

American Journal of Surgery, Vol. 99, May 1960, pp. 770-774.

Grant No: H-3137.

Sponsor: Public Health Service.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WSD Surgery, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- JNP Consequences/Complications

Authors survey 23 cases of penetrating wounds of the aorta. Discuss etiology, location of injury, associated injuries, condition of patients, resuscitation, repair, and results. Conclude that attempted resuscitation and repair are mandatory. Clinical summary for each case in tabular form. 14-4032 S

Spencer, F. C./ Guerin, P. F./ Blake, H. A./ Bahnson, H. T.

A REPORT OF FIFTEEN PATIENTS WITH TRAU-MATIC RUPTURE OF THE THORACIC AORTA.

Johns Hopkins Hospital, Dept. of Surgery, Baltimore, Maryland/ Johns Hopkins Univ., School of Medicine, Dept. of Surgery, Baltimore, Maryland/ Maryland Chief Medical Examiner Office/ Walter Reed General Hospital, Washington, D.C. Jan. 1961. 12 p. tables. figs. ref.

Journal of Thoracic and Cardiovascular Surgery, Vol. 41, No. 1, Jan. 1961, pp. 1–22.

Grant No: H-226.

Sponsor: National Heart Institute, Bethesda, Maryland. Conference: American Association for Thoracic Surgery, 40th annual, 11–13 May 1960, Miami Beach, Florida.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OAKC Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- WSC Diagnosis, Medical, Methods
- WSD Surgery

Report concerns authors' experience with 15 patients seen soon after aortic rupture or seen with aneurysm a long time after injury. 14 were victims of automobile accidents. Brief case histories of 7 patients seen soon after injury. These cases demonstrate aortic transection may be present with few external signs and that wide mediastinum on chest roentgenogram and history of injury are most helpful diagnostic aids. There is often time for reparative treatment. Table cites 43 cases of traumatic thoracic aneurysms collected from literature and states cause, duration, location, symptoms, size of aneurysm, operative procedure if any, and subsequent course.

14-4033 S

Strassmann, G. TRAUMATIC RUPTURE OF THE AORTA.

New York City, Office of the Chief Medical Examiner, New York/ Metropolitan State Hospital, Waltham, Massachusetts. 1947. 4 p. figs. ref.

American Heart Journal, Vol. 33, 1947, pp. 508-515.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OAKC Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WSC Diagnosis, Medical, Methods
- WSD Surgery

Traumatic rupture of the aorta is more frequent than literature suggests. Study of 7,000 autopsies conducted between 1936 and 1942 yielded 72 cases of traumatic rupture and 24 of spontaneous rupture. Differences between the two types of lesions regarding occurrence, origin, and pathologic picture are discussed. 51 cases of traumatic rupture resulted from automobile accidents, the most frequent victims being pedestrians. In 59 cases of traumatic rupture, death occurred within one hour of injury.

14-4040 S

Griswold, R. A./ Drye, J. C. CARDIAC WOUNDS.

Louisville Univ. School of Medicine, Dept. of Surgery, Kentucky/ Louisville General Hospital, Kentucky. June 1954. 2 p. graph. ref.

Annals of Surgery, Vol. 139, No. 6, June 1954, pp. 783-785.

Conference: Southern Surgical Association, 9 Dec. 1953, Hot Springs, Virginia.

- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- JNG Laceration/Openwound/Penetrating
- YEF Data Statistics, Contents, Study-Report Type WSD Surgery, Medical, Methods

Compare treatment and mortality of two series of patients (108) with cardiac wounds. When more liberal indications for surgery were used in more recent series, operability rose to 90%, and total mortality decreased from 46% to 32%. Exploratory thoracotomy is said to be far safer than aspiration. Hospital's most important change in management of cardiac wounds has been to decrease extent of diagnostic procedures prior to surgery.

14-4048 N

Jahnke, E. J., Jr./ Fisher, G. W./ Jones, R. C.

ACUTE TRAUMATIC RUPTURE OF THE THORACIC AORTA: Report of six consecutive cases of successful early repair.

Walter Reed General Hospital, Thoracic and Cardiovascular Surgery Service, Washington, D.C./ Walter Reed General Hospital, Cardiology Service, Washington, D.C. July 1964. 8 p. figs. tables. ref.

Journal of Thoracic and Cardiovascular Surgery, Vol. 48, No. 1, July 1964, pp. 63–77.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OAKC Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WSD Surgery, Medical, Methods
- NKFP Period, Frequency/Time, Operating Conditions, Physical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type

Comprehensive case reports, brief review of the literature. Stresses the significance of a widened mediastinum. Discusses the value of preoperative forward aortograms.

14-4059 S

Zehnder, M. A.

AORTENRUPTUR BEI STUMPFEM THORAX-TRAUMA: Retrospektive Auswertung der Kasuistik und zukünftige chirurgische Möglichkeiten. [AORTIC RUP-TURE IN BLUNT THORACIC TRAUMAS: Retrospective evaluation of the casuistics and future surgical possibilities].

Hartford Hospital, Hartford, Connecticut. Dec. 1959. 12 p. tables. figs. photos.

Helvetica Chirurgica Acta, Vol. 26, Dec. 1959, pp. 442-464.

JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident

- OAF Thorax, Anatomy/Body, Biomedical Aspect
- OAKCB Arteries, Blood Vessels, Cardiovascular System
- WSC Diagnosis, Medical, Methods
- WSD Surgery
- WSE Therapeutic
- YCK Case Studies, Nature of Study, Study-Report Type

Author describes 20 cases giving time of survival, first "free-interval" symptoms after first interval, critical interval after "delayed transrupture," diagnosis, thoracic fractures, description of the aortic injury, secondary injuries, and second "free-interval."

Critical deceleration factors for various types of accidents are discussed. Misdiagnoses are discussed.

14-4061 S

DIE URSACHEN POSTOPERATIVER TODESFÄLLE. [THE CAUSES OF POST OPERATIVE DEATHS.] See 18-4061 S

14-4071 S

ARTERIAL INJURIES IN CIVILIAN PRACTICE: A current reappraisal with analysis of forty-three cases. See 17-4071 S

14-4072 S

ANALYSIS OF FACTORS AFFECTING SURVIVAL AFTER CHEST INJURIES. See 13-4072 S

14-4083 S

Griswold, R. A./ Maguire, C. H. PENETRATING WOUNDS OF THE HEART AND PERICARDIUM.

Louisville Univ. School of Medicine, Kentucky/ Louisville City Hospital, Kentucky. 1942. 7 p. figs. tables. ref. Surgery, Gynecology and Obstetrics, Vol. 74, 1942, pp.

406-418. Conference: American College of Surgeons, Clinical Congress, 3-7 Nov. 1941, Boston, Massachusetts.

- NKF Frequency/Time, Operating Conditions, Physical Aspect
- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type WSD Surgery, Medical, Methods
- WSC Diagnosis

Authors discuss pathology, diagnosis, treatment, postoperative treatment, and prognosis for 47 cases. Present brief summary of each case.

14-4122 N

Kaulbach, W./ Krebs, H.

STERNUMFRAKTUR UND HERZTRAUMA. [FRAC-TURE OF THE STERNUM AND INJURY TO THE HEART].

Heidelberg Univ., Surgical Clinic (Germany). 1960. 4 p. table. figs. ref.

Monatsschrift fuer Unfallheilkunde und Versicherungsmedizin, Vol. 63, 1960, pp. 321–327. JN Injury/Trauma, Accident

OAF Thorax, Anatomy/Body, Biomedical Aspect VN Epidemiology/Etiology, Disciplines

Authors show increasing trend of occurrence from 1945–1959. Etiology, complications and associated injury, and observations of EKG as affected by sternum injury (commotio cordis) discussed.

14-4157 S

Maguire, C. H./ Griswold, R. A. FURTHER OBSERVATIONS ON PENETRATING WOUNDS OF THE HEART AND PERICARDIUM. Louisville Univ., Dept. of Surgery, Kentucky/ Louisville General Hospital, Kentucky. Nov. 1947. 6 p. figs. ref. tables.

American Journal of Surgery, Vol. 74, Nov. 1947, pp. 721-731.

- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents

Authors review previous experience with 47 cases and report on 33 further cases. Describe and discuss pathology, diagnosis, and treatment. Present short resumé for each of 23 patients operated upon. Data statistics: cases admitted; time from injury to admission; operated cases; postoperative deaths; mortality.

14-4158 S

Ransdell, H. T., Jr./ Glass, H., Jr.

GUNSHOT WOUNDS OF THE HEART: A review of twenty cases.

Louisville Univ., Dept. of Surgery, Kentucky/ Louisville General Hospital, Kentucky. May 1960. 5 p. figs. ref. tables.

American Journal of Surgery, Vol. 99, May 1960, pp. 788-797.

JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident

OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect

YEF Data Statistics, Contents, Study-Report Type WSE Therapeutic, Medical, Methods

Authors describe and discuss findings. Discuss diagnosis and pathology. Recommend immediate operation and give detailed description of their treatment procedure. Data statistics: location and type of wound and treatment; type of tamponade. Tabulate, for each patient: race; sex; age; weapon; time from wound to admission; time from admission to operation; route in hospital; location of wound; type of wound; result; other injuries; wound entrance; wound exit; tamponade; time in hospital.

14-4159 N

BULLET TRANSECTION OF BOTH COMMON CAROT-ID ARTERIES WITH IMMEDIATE REPAIR AND SUR-VIVAL. See 12-4159 N 14-4165 N

Kleinert, H. E.

HOMOGRAFT PATCH REPAIR OF BULLET WOUNDS OF THE AORTA: Experimental study and report of a case.

Louisville Univ., Dept. of Surgery, Kentucky. May 1958. 6 p. figs. ref. tables.

Archives of Surgery, Vol. 76, May 1958, pp. 811-820.

- OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WSD Surgery, Medical, Methods
- YCK Case Studies, Nature of Study, Study-Report Type
- YCG Laboratory Experiment

Author describes case of successful repair and a study of experimentally produced aortic wounds in dogs. Concludes that a homograft patch should not be necessary. Reports pathological findings.

14-4197 S

ARTERIAL REPAIR DURING THE KOREAN WAR. See 17-4197 S

14-4509 S

Bland, E. F./ Beebe, G. W. **MISSILES IN THE HEART: A twenty-year follow-up** report of World War II cases. Massachusetts General Hospital, Boston/ National Research Council, Div. of Medical Sciences, Washington, D.C. 12 May 1966. 8 p. tables. figs. ref. New England Journal of Medicine, Vol. 274, No. 19, 12 May 1966, pp. 1039–1046. Sponsor: Veterans Administration, Washington, D.C.

- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type YCL Evaluation/Effectiveness, Nature of Study

Clinical study of 40 cases. Authors conclude that actual risk from a retained fragment in the heart is minimal, but that the resulting psychic trauma can be disabling. Suggest removal of such fragments whenever possible, and maximum reassurance of the patient.

14-4522 S

Maynard, A. L./ Avecilla, M. J./ Naclerio, E. A.

THE MANAGEMENT OF WOUNDS OF THE HEART. A recent series of 43 cases with comment on pericardicentesis in hemopericardium.

Harlem Hospital Center, Surgical Service, New York, New York. Dec. 1956. 3 p. figs. ref. *Annals of Surgery*, Vol. 144, No. 6, Dec. 1956, pp.

Annals of Surgery, Vol. 144, No. 6, Dec. 1956, pp. 1018-1022.

- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- JNP Consequences/Complications
- WSD Surgery, Medical, Methods

Authors recommend surgical therapy in serious wounds of the heart. Discourage use of pericardiocentesis as definitive therapy. Describe surgical procedure. Data statistics: mortality; treatment; complications; necropsy findings; time of death.

14-4527 S

Zeldenrust, J./ Aarts, J. H. TRAUMATISCHE AORTA-RUPTUUR BIJ VER-KEERSONGEVALLEN. [TRAUMATIC AORTIC RUP-TURE IN TRAFFIC ACCIDENTS.] 10 March 1962. 5 p. ref. figs.

Nederlandsch Tijdschrift voor Geneesklunds, Vol. 106, 10 March 1962, pp. 464-468.

Order No: STS 6329 (English translation).

- YEF Data Statistics, Contents, Study-Report Type Contusion/Crushing/Blunt, Injury/Trauma, JNE Accident
- OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect

Eighty-eight cases of aortic rupture and 28 of other aortic damage in 800 traffic accident fatalities. Authors describe and discuss victim's mode of transportation, cause, pathology, pre-existing pathology, associated injuries, complications, diagnosis and effect of safety belts.

14-4528 S

Jensen, O. M.

TRAUMATISK AORTARUPTUR: En analyse af 68 fatale tilfaelde. [TRAUMATIC AORTIC RUPTURE: An analysis of 68 fatal cases.] 1964. 5 p. ref. tables. Nordisk Medicin, Vol. 71, No. 11, 1964, pp. 337-341.

Order No: STS 6333 (English translation).

NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect JN

Injury/Trauma, Accident

- OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, BiomedicalAspect
- YEF Data Statistics, Contents, Study-Report Type **JNE** Contusion/Crushing/Blunt

Cases examined at National Morgue of Jutland between 1920 and 1963.

Author notes the increasing incidence of this injury. Believes higher driving speeds a likely explanation. Analyzes data and discusses origin of the injury, clinical findings, and treatment in surviving patients. Concludes most such patients are beyond therapeutic aid; future efforts should be concentrated on prophylactic measures. Data statistics: year of injury; age; sex; appearance, course of rupture; location of rupture; secondary lesions; external conditions (type of accident); survival time.

14-4533 S

17 LÉSIONS ARTÉRIELLES FÉMORO-POPLITÉES TRAITÉES PAR RECONSTRUCTION IMMÉDIATE. [17 FEMORO POPLITIAL ARTERIAL LESIONS TREATED BY IMMEDIATE RECONSTRUCTION.] See 17-4533 S

15-2592 S

TRAFFIC INJURY IN BRISBANE. Report of a general survey. See 01-2592 S

15-3701 S

Shirkey, A. L./ Wukasch, D. C./ Beall, A. C., Jr./ Gordon, W. B., Jr./ De Bakev, M. E.

SURGICAL MANAGEMENT OF SPLENIC INJURIES. Baylor Univ. College of Medicine, Cora and Webb Mading Dept. of Surgery/ Jefferson Davis General Hospital, Houston, Texas. Nov. 1964. 3 p. tables. ref. American Journal of Surgery, Vol. 108, Nov. 1964, pp.

630-635.

Contract No: DA-49-193-MD-2523.

Grant No: HE-03137.

Sponsor: Public Health Service/ Army. Conference: Southwestern Surgical Congress, 16th annual, 27-30 April 1964, San Antonio, Texas.

YEF Data Statistics, Contents, Study-Report Type OAJN Spleen, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect

INK Hemorrhage, Injury/Trauma, Accident

JNX Multiple Severe Injuries

Examines 125 cases with penetrating and 64 cases with blunt trauma to spleen during 17-year period. Mortality with penetrating injury was 18%. Because of associated injury, mortality rate with blunt trauma was 30%. The 43 blunt-trauma cases resulting from auto accidents suffered 30% mortality. Lists associated injuries for penetrating and blunt injuries, describes management of abdominal wounds and surgical techniques. Isolated splenic injuries cause death only through blood loss. Because the only treatment, splenectomy, is simple, the key to lowering mortality is early recognition. Because of dangers of delayed splenic rupture, all patients with history of trauma of left side of chest, left flank or left upper abdomen must be closely observed for minimum of two weeks.

15-3706 S

McClelland, R. N./ Shires, T. MANAGEMENT OF LIVER TRAUMA IN 259 CONSEC-UTIVE PATIENTS.

Texas Univ., Southwestern Medical School, Dept. of Surgery, Dallas. Feb. 1965. 5 p. ref. tables.

Annals of Surgery, Vol. 161, No. 2, Feb. 1965, pp. 248-257.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- OAJM Liver/Biliary Tract, Digestive System/ Alimentary Tract, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- Consequences, Injury/Trauma JNP
- **JNK** Hemorrhage

Describe cases reviewed at hospital, 1953-1963, including 31 instances of blunt trauma with 25 resulting from automobile accidents. Methods of diagnosis are discussed, including results with peritoneal tap. Early exploration, use of optimal amounts of blood and electrolyte solutions, adequate drainage, suture and resection to control hemorrhage, and the use of antibiotics have decreased mortality from liver injury.

15-3709 S

Perry, J. F., Jr. A FIVE-YEAR SURVEY OF 152 ACUTE ABDOM-INAL INJURIES.

Ancker Hospital, Dept. of Surgery/ Minnesota Univ. School of Medicine, Minneapolis. 1965. 5 p. tables. ref. Journal of Trauma, Vol. 5, 1965, pp. 53-61.

- YEF Data Statistics, Contents, Study-Report Type INE Contusion/Crushing, Injury/Trauma, Accident
- JNG Laceration/Openwound
- Abdomen, Anatomy/Body, Biomedical Aspect OAE
- OAJM Liver/Biliary Tract, Digestive System/ Alimentary Tract
- WSC Diagnosis, Medical, Methods

Describes 92 civilian hospital patients with blunt and 60 with penetrating trauma, including 73 blunt-trauma victims of traffic accidents. Lists numbers of penetrating and blunt injuries involving specific organs. Death occurred in 6.7% with penetrating wounds, 45.7% with blunt trauma. Recommends exploration of all patients with penetrating abdominal wounds or suspected abdominal visceral involvement after blunt trauma.

15-3710 S

CONCEALED HEMORRHAGE DUE TO PELVIC FRAC-TURE. See 24-3710 S

15-3720 S

Solheim, K.

CLOSED ABDOMINAL INJURIES.

Uppsala Univ., Dept. of Pathology (Sweden). 1963. 8 p. ref. tables. fig.

Acta Chirurgica Scandinavica, Vol. 126, pp. 579-592, 1963

Sponsor: Norges Almenvitenskapelige Forskiningsrad. Conference: Norwegian Surgical Association, 3 Nov. 1962, Oslo, Norway.

JNE	Contusion/Crushing,	Injury/Trauma,	Acciden
OAE	Abdomen, Anatomy	Body, Biomedia	cal Aspect

- Data Statistics, Contents, Study-Report Type YEF
- EA Age, People
- EF Sex
- OAMB Kidneys, Urogenital System
- Liver/Biliary Tract, Digestive System/Alimen-OAJM tary Tract
- OAJN Spleen/Lymph Tracts
- Diagnosis, Medical, Methods WSC
- Time L
- JNK Hemorrhage

Author reports on treatment and survival rates of 291 patients in Oslo. Gives mortality rates, overall and by type of injury; diagnostic and treatment procedures for injuries to different abdominal organs; and indications for exploratory laparotomy and Roentgen examination.

15-3741 S

PULMONALE UND ENTERALE KOMPLIKATIONEN NACH HIRNSCHÄDIGUNGEN. [PULMONARY AND ENTERAL COMPLICATIONS AFTER BRAIN INJU-RIES.] See 11-3741 S

15-3750 S

Oberniedermayr, A. DIE STUMPFEN BAUCHVERLETZUNGEN IM KIN-DESALTER. [BLUNT ABDOMINAL INJURIES IN CHILDHOOD.]

5 Nov. 1963. 7 p. illus.

Langenbecks Archiv fuer Klinische Chirurgie, Vol. 304, 5 Nov. 1963, pp. 583-595.

- JNE Contusion/Crushing, Injury/Trauma, Accident OAE
- Abdomen, Anatomy/Body, Biomedical Aspect EC
- Children, People WSD
- Surgery, Medical, Methods YEF
- Data Statistics, Contents, Study-Report Type JNPL Shock, Consequences

Discusses 62,574 cases over three decades, including 36 cases of blunt injury to abdomen and 41 to the urogenital tract. Low frequency of this kind of injury and diagnosis of child as compared to adult are discussed. Case study is given of bilateral rupture of kidney.

15-3770 N

MASSIVE LIVER INJURY AND SHOCK. See 24-3770 N

15-3772 S

O'Brien, S. E./ Fyshe, T. G.

REPORT ON 41 CASES OF RUPTURE OF THE SPLEEN.

July 1961. 3 p. ref.

Canadian Journal of Surgery, Vol. 4, 1961, pp. 434-438.

- YCK Case Studies, Nature of Study, Study-Report Type
- YEK Law/Code/Statute, Contents
- Spleen, Digestive System/Alimentary Tract, OAJN Anatomy/Body, Biomedical Aspect
- WSC Diagnosis, Medical, Methods
- L Time
- JNK Hemorrhage, Injury/Trauma, Accident

Authors describe symptoms and abdominal signs with case reports on five instances of delayed rupture. Of cases studied, six patients died. Injury is treacherous because start and amount of bleeding are unpredictable. In presence of hemorrhage and/or hematoma formation, prompt splenectomy is recommended.

15-3785 S

Nation, E. F./ Massey, B. D. **RENAL TRAUMA: Experience with 258 cases.** 1963.3 p. Journal of Urology, Vol. 89, No. 6, June 1963, pp. 775-778. Conference: American Urological Association, Western Section, Inc., 23-26 April 1962, San Francisco, California VEE Data Statistics Contants Study Deport Type

IEF	Data Statistics, Contents, Study-Report Type
OAMB	Kidneys, Urogenital System, Anatomy/Body,
	Biomedical Aspect
VN	Epidemiology, Disciplines
WSD	Surgery, Medical, Methods
WSE	Therapeutic

Analyzes cases of renal injury due to external trauma during nine-year period, the etiology of trauma, type of injury and associated injuries, symptoms, treatment, and mortality. Excretory urography usually gives sufficient information for early urological management. Retrograde pyelography is done only if doubt remains concerning the status of the upper urinary tract. Emergency surgery for

renal injury should be performed only if there is continued hemorrhage.

15-3797 S

Sherman, R. T./ Parrish, R. A.

MANAGEMENT OF SHOTGUN INJURIES: A review of 152 cases.

Tennessee Univ. Div. of Surgery/ John Gaston Hospital, Memphis, Tennessee. 1963. 6 p. tables. figs. ref. Journal of Trauma, Vol. 3, 1963, pp. 76-86.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type
- WSE Therapeutic, Medical, Methods
- WSD Surgery
- VN Epidemiology, Disciplines
- OAI Head, Anatomy/Body, Biomedical Aspect
- OAE Abdomen
- OAF Thorax

Records of 152 patients with shotgun injuries and 382 with wounds produced by other firearms show mortality from shotgun wounds over twice that of other gunshot wounds. Shotgun wounds were separated into three types by range and observed pathology. Cases were analyzed by type and location of wounds, methods of management, results, and major secondary procedures.

15-3799 S

Root, G. T./ Christensen, B. H. EARLY SURGICAL TREATMENT OF ABDOMINAL INJURIES IN THE TRAFFIC VICTIM. Highland Alameda County Hospital, Oakland, California. Sept. 1957. 2 p. ref. tables. figs. Surgery, Gynecology, and Obstetrics, Vol. 105, Sept. 1957, pp. 264-267.

- JN Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- WSD Surgery, Medical, Methods
- VN Epidemiology, Disciplines
- L Time

YEF Data Statistics, Contents, Study-Report Type JNX Multiple Severe Injuries

Review of 1,988 records of traffic victims. 45 deaths in series and 44% were associated with abdominal injuries. Authors urge early abdominal exploration in patients with significant symptoms. Data statistics: sex; number of accidents per month; type of accident; disposition of patients; type of injury; findings, treatment and results in patients with abdominal symptoms; number of deaths per type of injury.

Mikesky, W. E./ Howard, J. M./ DeBakey, M. E. INJURIES OF THE LIVER IN 300 CONSECUTIVE PATIENTS.

Baylor Univ. College of Medicine, Dept. of Surgery, Houston, Texas/ Jefferson Davis General Hospital, Houston, Texas. Oct. 1956. 8 p. figs. ref. tables.

Surgery, Gynecology, and Obstetrics, Vol. 103, Oct. 1956, pp. 323-337.

Sponsor: Baylor Univ. College of Medicine, Cora and Webb Mading Fund for Medical Research.

- OAJM Liver, Digestive System/ Alimentary Tract, Anatomy/Body, Biomedical Aspects
- JNX Multiple Severe Injuries, Injury/Trauma, Accident
- VN Epidemiology, Disciplines
- L Time WSD Surgery, Medical, Methods
- JNP Consequences
- JNK Hemorrhage
- WSI Autopsy
- YEC Bibliography, Contents, Study-Report Type
- YEF Data Statistics

Study is based on patients alive on admission to hospital. Agent, type, location, and path of injuries and associated injuries, surgical management and complications, and reduction of mortality between 1939 and 1954 are discussed. Decrease in mortality attributed to more adequate blood replacement, antibiotic therapy, and earlier, improved surgical care. Further progress will depend on refinements of hepatic debridement and resection to control hepatic hemorrhage. Major contributing causes of death are tabulated for 62 patients.

15-3819 S

Barnett, W. O./ Hardy, J. D./ Yelverton, R. L.
PANCREATIC TRAUMA: Review of 23 cases.
Mississispi Univ. Medical Center, Dept. of Surgery, Jackson. June 1966. 5 p. tables. figs. ref.
Annals of Surgery, Vol. 163, No. 6, June 1966, pp. 892–901.
Grant No: AM-04644-05.
Sponsor: National Institutes of Health.
Conference: Southern Surgical Association, 7-9 Dec. 1965, Hot Springs, Virginia.

- OAE Abdomen, Anatomy/Body, Biomedical Aspect JNG Laceration/Openwound, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type

Study covers patients who underwent one or more abdominal operations during 10-year period. Patients were grouped according to blunt, penetrating, or surgical trauma. Type of injury, wounding agent, and operative procedure are given for blunt trauma. Penetrating injuries are discussed in more detail indicating operations utilized and additional injuries. Nature of injury and operation, complications, treatment, and results are given for surgical-trauma cases.

15-3823 N

Fahlund, G. T. R./ Smedley, W. P.

TRAUMATIC RUPTURE OF THE SPLEEN: A ten-year experience with 18 cases.

Geisinger Medical Center, Danville, Pennsylvania. May 1966. 3 p. ref. illus. tables.

The American Surgeon, Vol. 32, No. 5, May 1966, pp. 325-328.

JNE Contusion/Crushing, Injury/Trauma, Accident JNPL Shock, Consequences

- OAJN Spleen, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type
- WSD Surgery, Medical, Methods

¹⁵⁻³⁸⁰¹ S

Blunt trauma occurred in thirteen cases, five due to automobile accidents. Causes listed in table. Possible results of such trauma are given, with three case reports.

15-3825 S

Hopson, W. B./ Sherman, R. T./ Sanders, J. W.

STAB WOUNDS OF THE ABDOMEN: 5-year review of 297 cases.

Tennessee Univ., Div. of Surgery, Memphis. March 1966. 4 p. tables. ref.

The American Surgeon, Vol. 32, No. 3, March 1966, pp. 213-218.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology, Disciplines
- WSC Diagnosis, Medical, Methods
- WSD Surgery

Clinical and operative findings analyzed. Patients, averaging 28.5 years of age, were divided into three groups based on presence of peritoneal penetration and visceral injury. Time from injury to admission and from admission to surgery is given. In 17% of the patients time from injury to admission in the hospital was over four hours; in 34% of the patients time from admission to surgery was over four hours. Early laparotomy was performed in all patients. Overall morbidity was 23%, and mortality was 1.3%. Stab wounds account for more than 50% of penetrating abdominal wounds in most series.

15-3826 N

Sturim, H. S.

SURGICAL MANAGEMENT OF TRAUMATIC TRAN-SECTION OF THE PANCREAS: Review of nine cases and literature review.

Washington Univ. School of Medicine, Dept. of Surgery, St. Louis, Missouri. March 1966. 5 p. tables. fig. ref.

Annals of Surgery, Vol. 163, No. 3, March 1966, pp. 399-407.

WSD Surgery, Medical, Methods

- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- YEE Reviews, Contents

Article contains case summarizations of 47 cases collected from literature covering the years 1827 to 1965. Very high incidence of recovery in cases from year 1905 on. New clinical material consists of nine cases handled between 1950 and 1965. Time from injury to surgery is included in table. Text points up difficulties in diagnosis, particularly where wound is non-penetrating. Automobile is chief cause. Surgery reduces risks of pancreatic complication but may not be feasible in critical cases.

15-3827 N

Sizer, J. S./ Wayne, E. R./ Frederick, P. L. DELAYED RUPTURE OF THE SPLEEN: Review of the literature and report of six cases. March 1966. 3 p. illus. ref. Archives of Surgery, Vol. 92, March 1966, pp. 362-366.

JNE Contusion/Crushing, Injury/Trauma, Accident

- OAJN Spleen, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type
- YCC State-of-the-Art
- WSC Diagnosis, Medical, Methods
- OAE Abdomen
- JNK Hemorrhage

Contains comprehensive review of 306 cases reported in English literature since 1866. Details are given for six additional cases. Frequency, latent period, mortality and associated injuries are discussed.

15-3842 S

Tomskey, G. C./ Schlottman, G. C./ Mardis, H. K. **INJURIES OF THE KIDNEY.** Louisiana State Univ., School of Medicine, Dept. of Urology, New Orleans. June 1965. 11 p. figs.

G.P., Vol. 31, No. 6, June 1965, pp. 78-88.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAMB Kidneys, Urogenital System, Anatomy/Body, Biomedical Aspect
- WSD Surgery, Medical, Methods
- JNE Contusion/Crushing
- WSC Diagnosis
- YEF Data Statistics, Contents, Study-Report Type
- YCK Case Studies, Nature of Study

Reviews diagnosis, treatment, and results of 207 patients with primary renal injury. Primary cause was penetrating wound in 44 patients and blunt trauma in 163. Recommends exploration of all penetrating wounds immediately after initial X-ray evaluations, and conservative management of nonpenetrating trauma except in event of uncontrollable hemorrhage, infection, or urinary extravasation. Five case reports illustrate conservative management.

15-3860 N

Dorton, H. E. COMPLETE DIVISION OF THE COMMON BILE DUCT DUE TO BLUNT ABDOMINAL TRAUMA: Case report. May 1965. 2 p. ref.

The American Surgeon, Vol. 31, No. 5, May 1965, pp. 333-335.

- JNE Contusion/Crushing, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- OAJM Liver/Biliary Tract, Digestive System/ Alimentary Tract
- YCK Case Studies, Nature of Study, Study-Report Type

Article focuses on one case, giving symptoms and delay from time of injury to operation and describing technique of repair and clinical course.

15-3865 N

Mueller, C. B. THE MECHANISM OF ACUTE RENAL FAILURE AFTER INJURY AND TRANSFUSION REACTION AND ITS PREVENTION BY SOLUTE DIURESIS. New York State Univ., Upstate Medical Center, Dept. of Surgery, Syracuse. April 1965. 6 p. ref. Surgical Clinics of North America, Vol. 45, April 1965, pp. 499-508.

Grant No: A-01393.

Sponsor: Public Health Service, Institute of Arthritis and Metabolism.

JN Injury/Trauma, Accident

OAMB Kidneys, Urogenital System, Anatomy/Body, Biomedical Aspect

YER General Discussions, Contents, Study-Report Type

After a brief state-of-the-art discussion mechanism of failure is given. Due to infrequency of occurrence, experimental models were employed to conclude that tubular'obstruction by casts and cell debris causes "lower nephron nephrosis." Solute diuresis and several actions of mannitol, including its clinical use in emergencies, are described.

15-3866 S

Willox, G. L. NONPENETRATING INJURIES OF ABDOMEN CAUSING RUPTURE OF SPLEEN: Report of 100 cases. April 1965. 3 p.

Archives of Surgery, Vol. 90, April 1965, pp. 498–502. Conference: Western Surgical Association, 72nd annual, 19–21 Nov. 1964, Colorado.

- JNE Contusion/Crushing, Injury/Trauma, Accident OAJN Spleen/Lymph Tracts, Digestive System/ Alimentary Tract, Anatomy/Body, Biomedical Aspect
- OAE Abdomen
- YEFData Statistics, Contents, Study-Report TypeVNEpidemiology, Disciplines
- WSC Diagnosis, Medical, Methods
- WSD Surgery

Gives etiology of 100 patients with rupture of spleen resulting chiefly from automobile accidents. Mortality was 17%. Clinical diagnosis was based on history of injury, evidence of peritoneal irritation, and shock. Diagnostic aids listed are absence of bowel sounds, rise in white blood count, abdominal paracentesis, and X ray. Treatment is removal of spleen, even for smallest tears. Delayed primary rupture occurred in 19% of cases.

15-3867 N

Cornell, W. P./ Ebert, P. A./ Zuidema, G. D.

X-RAY DIAGNOSIS OF PENETRATING WOUNDS OF THE ABDOMEN: Preliminary report.

Johns Hopkins Univ. School of Medicine. April 1965. 2 p. figs.

Journal of Surgical Research, Vol. V., No. 4, April 1965, pp. 142–145.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect WSC Diagnosis, Medical, Methods
- YER General Discussions, Contents, Study-Report Type
- WSX X Ray

Study strongly suggests that surgery and its risks may be dispensed with through diagnosis as to penetration of peritoneal cavity by X ray using contrast material. X rays revealed that 14 of 24 cases did not require surgery. 15-3879 S

Hanna, W. A./ Bell, D. M./ Cochran, W. LIVER INJURIES IN NORTHERN IRELAND. Feb. 1965. 5 p. chart. tables. ref. British Journal of Surgery, Vol. 52, No. 2, Feb. 1965, pp. 99–106.

JNP	Consequences, Injury/Trauma, Accident
OAJM	Liver, Digestive System/Alimentary Tract,
	Anatomy/Body, Biomedical Aspect
YEF	Data Statistics, Contents, Study-Report Type
YCC	State-of-the-Art, Nature of Study

- L Time
- WSI Autopsy, Medical, Methods

Present findings of 112 autopsies and in clinical series of 48 patients, comparing experience and conclusions with those of other authors. In autopsy series, authors consider frequency and type of trauma responsible for injuries and seriousness of problem. In clinical series, discuss results of treatment and possible deficiencies in management, recommending surgery for all cases and technique of Wangensteen for emergency major resection.

15-3881 N

Fisher, P. INJURY PRODUCED BY SEAT BELTS: Report of 2 cases.

May 1965. 2 p. ref.

Journal of Occupational Medicine, Vol. 7, No. 5, May 1965, pp. 211-212.

Conference: American Association of Automotive Medicine, annual, Oct. 1964, Louisville, Kentucky.

JN Injury/Trauma, Accident

- DMDB Seat Belts, Restraint Systems, Auxiliaries/ Accessories, Vehicle
- YCK Case Studies, Nature of Study, Study-Report Type

Results given of extensive studies made on the use of restraining devices. Because of the increased use of restraining devices in automobiles, injuries attributable to the seat belt are more frequent.

Case report presented of two women injured in a Volkswagen, both wearing a three-point combination lap and diagonal belt. One received a misplaced fracture of the sternum, the other rib fractures and a ruptured spleen.

Author concludes full shoulder harness restraint is probably the best and recommends better, safer automobile design to enable proper installation of suitable restraining devices.

15-3882 S

THE PATHOLOGY OF PEDESTRIAN AUTOMOTIVE ACCIDENT VICTIMS. See 21-3882 S

15-3891 S

Fitzgerald, J. B./ Quast, D. C./ Beall, A. C., Jr./ De Bakey, M. E.

SURGICAL EXPERIENCE WITH 103 TRUNCAL SHOT-GUN WOUNDS.

Baylor Univ. College of Medicine, Cora and Webb Mading Dept. of Surgery, Houston, Texas/ Jefferson Davis General Hospital, Houston, Texas/ Ben Taub General Hospital, Houston, Texas. 1965. 7 p. tables. figs. ref. Journal of Trauma, Vol. 5, 1965, pp. 72–84. Contract No: DA-49-007-MD-2523.

Grant No: HE-03137/ HE-5387.

Sponsor: Army Research and Development Command/ Public Health Service.

Conference: American Association for the Surgery of Trauma, 24th annual, 1-3 Oct. 1964, Chicago, Illinois.

- WSD Surgery, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect L Time
- JNX Multiple Severe Injuries
- WSE Therapeutic

Patients alive on arrival at hospital were grouped by therapy: observation, observation and tube thoracostomy, general anesthesia with major procedure extrapleural or extraperitoneal, and general anesthesia with thoracotomy or laparotomy. For each group, authors tabulated average period of hospitalization, clinical shock on admission, volume of blood received, and operative procedure employed. Frequencies and mortality rates for major organs and organ systems injured, and frequencies of postoperative complications, initial and secondary operative procedures, and causes of death are given.

15-3899 N

Thal, A. P./ Wilson, R. F.

A PATTERN OF SEVERE BLUNT TRAUMA TO THE REGION OF THE PANCREAS.

Wayne State Univ., College of Medicine, Dept. of Surgery, Michigan/ Detroit Receiving Hospital, Michigan/ Dearborn Veterans Administration Hospital, Michigan. Oct. 1964. 4 p. figs. ref.

Surgery, Gynecology and Obstetrics, Vol. 119, Oct. 1964, pp. 773-778.

Grant No: AM 06385-02.

Sponsor: National Institutes of Health/ Michigan Heart Association/ Receiving Hospital Research Corp.

- JNE Contusion/Crushing, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect YCK Case Studies, Nature of Study, Study–Report
- Type WSC Diagnosis, Medical, Methods
- WSC Diagnosis, Methodi, Metho

JNK Hemorrhage

Etiology of injury to head of pancreas is discussed. Management consists of removal of damaged head of pancreas and repair of biliary system, if possible. Three case reports of injury sustained by steering wheel are given.

15-3902 N

Hartmen, S. W./ Greaney, E. M., Jr. TRAUMATIC INJURIES TO THE BILIARY SYSTEM IN CHILDREN.

Los Angeles Childrens Hospital, Dept. of Surgery, California. Aug. 1964. 4 p. figs. ref.

American Journal of Surgery, Vol. 108, Aug. 1964, pp. 150-156.

Conference: Pacific Coast Surgical Association, annual, 9–12 Feb. 1964, San Francisco, California.

OAJM Liver/Biliary Tract, Digestive System/

Alimentary Tract, Anatomy/Body, Biomedical Aspect

- EC Children, People
- JN Injury/Trauma, Accident
- YCK Case Studies, Nature of Study, Study-Report Type

WSC Diagnosis, Medical, Methods

Give 5 case reports. Discuss delay in diagnosis and use of operative cholangiography.

15-3908 S

Killen, D. A.

INJURY OF THE SUPERIOR MESENTERIC VESSELS SECONDARY TO NONPENETRATING ADBOMINAL TRAUMA.

DeWitt Army Hospital, Surgical Service, Fort Belvoir, Virginia. May 1964. 4 p. tables. ref.

The American Surgeon, Vol. 30, No. 5, May 1964, pp. 306-312.

- JNE Contusion/Crushing, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- YCK Case Studies, Nature of Study, Study-Report Type
- YCC State-of-the-Art
- YEC Bibliography, Contents
- WSD Surgery, Medical, Methods

Author discusses rarity of this injury, giving two case reports and summarizing literature. 1320 cases from 11 studies are tabulated by organs injured. The most frequently injured organs were spleen, kidney, and liver; major vessels most often injured were the vena cava, renal artery, and superior mesenteric artery and vein. A separate table shows reference, age, sex, mechanism of injury, time treated, operative findings and procedures, and complications for seven case reports found in the literature.

15-3914 S

Hermann, R. E./ Hubay, C. A. **PERFORATING INJURY OF THE SMALL INTESTINE:** Mechanisms of injury and factors affecting mortality. Cleveland Clinic Foundation, Ohio/ Cleveland University Hospitals, Ohio. Feb. 1964. 3 p. tables. ref. Archives of Surgery, Vol. 88, Feb. 1964, pp. 290–294.

- JNG Laceration/Openwound, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect OAJK Small Intestine, Digestive System/Alimentary Tract
- YEF Data Statistics, Contents, Study-Report Type VN Epidemiology, Disciplines

Fifty consecutive cases were studied. Age distribution, incidence of associated injuries, time from injury to operative repair and associated number of deaths, and mechanisms of perforation are tabulated. Morbidity associated with injuries was primarily due to infection or intestinal obstruction.

15-3915 S

Currie, R. A./ Watne, A. L./ Heiskell, E. F., Jr./ Gerwig, W. H., Jr.

BLUNT ABDOMINAL TRAUMA.

West Virginia Univ. Medical Center, Dept. of Surgery, Morgantown. Feb. 1964. 8 p. fig. tables. ref.

American Journal of Surgery, Vol. 107, Feb. 1964, pp. 321-328.

JNE Contusion/Crushing, Injury/Trauma, Accident

- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology, Disciplines
- JNX Multiple Severe Injuries
- JNH Fracture
- WSD Surgery, Medical, Methods
- WSC Diagnosis

Reviews hospital records of twenty-nine patients with clinical or autopsy diagnoses of blunt abdominal trauma, discussing etiology of trauma. Tabulates types of abdominal injury, other soft tissue injuries, fractures, and surgery performed for twelve patients with multiple injuries. Diagnostic aids are discussed.

15-3929 N

Hurwitt, E. S./ Silver, C. E.

SEAT-BELT HERNIA: A ventral hernia following an automobile crash.

Montefiore Hospital and Medical Center, Surgical Div., New York. 15 Nov. 1965. 3 p. figs. ref.

American Medical Association. Journal, Vol. 194, No. 7, 15 Nov. 1965, pp. 829-831.

- DMDB Seat Belts, Restraint Systems, Auxiliaries/ Accessories, Vehicle
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- JNE Contusion/Crushing, Injury/Trauma, Accident YCK Case Studies, Nature of Study, Study-Report
- Туре

Authors describe a rare type of injury and assume that it will be more common in the future. Case report included.

Nietlispach, L. BESONDERHEITEN BEIM STUMPFEN BAUCH-TRAUMA. [SPECIAL FEATURES- OF BLUNT AB-DOMINAL TRAUMA.]

Aarau Chirurgischen Klinik des Kantonsspitals (Germany). 1965. 6 p. tables. ref.

Gastroenterologia, Vol. 103, No. 4, 1965, pp. 209-219.

- OAE Abdomen, Anatomy/Body, Biomedical Aspect JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- WSD Surgery, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- JNP Consequences/Complications

Author's experience with 118 patients is discussed, giving details of frequency of various organ injuries, number of cases that had surgery, and complications. Case reports are discussed. Of the cases treated conservatively some had unrecognized organic injuries causing late complications.

15-3976 S

DER TÖDLICHE VERKEHRSUNFALL AUS DER

SICHT DES PATHOLOGEN. [THE FATAL TRAFFIC ACCIDENT FROM THE PATHOLOGIST'S VIEW-POINT.] See 23-3976 S

15-3991 S

Maurer, G./ Schäfer, H. DAS STUMPFE BAUCHTRAUMA. [BLUNT AB-DOMINAL TRAUMA.] München Städtischen Krankenhauses, Chirurgischen Klinik (Germany). June 1965. 5 p. graphs. ref. Chirurg, Vol. 36, June 1965, pp. 263–267.

- OAE Abdomen, Anatomy/Body, Biomedical Aspect JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology/Etiology, Disciplines
- WSC Diagnosis, Medical, Methods

JNK Hemorrhage

Of 71,800 surgical patients treated from 1957-1964, there were 217 cases of blunt abdominal trauma. Authors discuss etiology of trauma and give frequency of injuries to different organs. Discuss in detail injuries to spleen, liver, large and small intestine, and retroperitoneal organs; compare number of cases treated conservatively to number of surgical procedures, with indication of results.

15-4005 S

Moss, L. K./ Schmidt, F. E./ Creech, O., Jr. ANALYSIS OF 500 STAB WOUNDS OF THE AB-DOMEN.

Tulane Univ. School of Medicine, Dept. of Surgery, New Orleans, Louisiana/ Charity Hospital, New Orleans, Louisiana. July 1962. 4 p. tables. figs. graphs. ref. *American Surgeon*, Vol. 28, July 1962, pp. 483–489.

- OAE Abdomen, Anatomy/Body, Biomedical Aspect JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type

Authors found incomplete correlation between preoperative clinical evaluation and findings at operation. Concluded that early abdominal exploration is the only reliable index of intraperitoneal penetration and injury.

All cases underwent abdominal exploration and were divided into four categories by degree and extent of injury. Data include: incidence of shock, peritonitis, evisceration, postoperative complications and mortality rate (for each category), incidence of age, sex, race, wounding agents, wound sites, organ injury, intraperitoneal penetration, intraperitoneal injury and etiology of shock (for entire group).

Mortality rate was 1.1%.

15-4022 S

Wilson, H./ Sherman, R.

CIVILIAN PENETRATING WOUNDS OF THE AB-DOMEN. I. Factors in mortality and differences from military wounds in 494 cases.

Tennessee Univ., Div. of Surgery, Memphis. May 1961.6 p. tables. ref.

Annals of Surgery, Vol. 153, No. 5, May 1961, pp. 639-649.

Conference: Southern Surgical Association, 6-8 Dec. 1960, Boca Raton, Florida.

¹⁵⁻³⁹⁶⁷ S

JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident

OAE Abdomen, Anatomy/Body, Biomedical Aspect

- JNX Multiple Severe Injuries
- YEF Data Statistics, Contents, Study-Report Type

WSC Diagnosis, Medical, Methods

Authors conclude that civilian cases are not entirely comparable to those reported in military series. Recommend further studies of civilian series and appropriate revision of military standards of treatment. Data statistics: age, sex, race, and type of wound; mortality and type of wound (treated cases); mortality and laparotomy (no perforation found); value of X ray in diagnosis; accuracy of diagnosis and results (no laparotomy); etiology and mortality; number organs injured and mortality; organ injured and mortality; causes of death.

15-4028 S

Fitzgerald, J. B./ Crawford, E. S./ De Bakey, M. E. SURGICAL CONSIDERATIONS OF NON-PENE-TRATING ABDOMINAL INJURIES. An analysis of 200 cases.

Baylor Univ., College of Medicine, Cora and Webb Mading Dept. of Surgery, Houston, Texas/ Jefferson Davis General Hospital, Houston, Texas. July 1960. 4 p. tables. ref. *American Journal of Surgery*, Vol. 100, July 1960, pp. 22-29.

JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident

OAE Abdomen, Anatomy/Body, Biomedical Aspect

- WSD Surgery, Medical, Methods
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- WSE Therapeutic
- JNK Hemorrhage

Covers 100 patients dead on arrival and 100 patients alive on admission to hospital, 97% and 70%, respectively, with multiple injuries, and 83.5% injured in motor vehicle accidents. Authors discuss method and type of injury, condition of survivors on admission, treatment, and results; they conclude, generally, that prognosis is poor. Suggest that the greatest opportunity for life saving procedures lies in prevention. Data statistics: type of trauma; abdominal organs injured and mortality; associated injuries and mortality.

15-4035 N

Hill, R. M.

ABDOMINAL INJURIES.

Cumberland Infirmary, Carlisle (England). June 1964. 4 p. tables. ref.

The Practitioner, Vol. 192, June 1964, pp. 766-773.

OAE Abdomen, Anatomy/Body, Biomedical Aspect JNX Multiple Severe Injuries, Injury/Trauma, Acci-

dent JNPL Shock, Consequences/Complications

General discussion emphasizes that traffic, industrial, and agricultural accidents where abdominal injury is suspected require admission to hospital. Briefly reviews literature as to frequency of injury for various abdominal sites. Diagnosis and treatment are briefly indicated for some injuries. 15-4044 S Spadaro, G.

> LE LESIONI DELLA MILZA NEI TRAUMI CHIUSI ED APERTI DELL'ADDOME: Considerazioni su 91 casi. [LESIONS OF THE SPLEEN IN CLOSED AND OPEN TRAUMAS OF THE ABDOMEN: Considerations of 91 cases.]

1959. 11 p. tables. graphs. figs. ref.

Annali Italiani di Chirurgia, Vol. 36, 1959, pp. 129-149.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- JNG Laceration/Openwound/Penetrating
- OAJN Spleen/Lymph Tracts, Digestive System/ Alimentary Tract, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- YCC State-of-the-Art, Nature of Study
- WSC Diagnosis, Medical, Methods
- WSD Surgery

Modes of injury are discussed: direct impact on splenic region, direct impact on abdomen in general, indirect trauma from falls, etc. 79 cases of blunt trauma, and 12 cases of penetrating trauma are tabulated giving the following: date, sex, age, pre-operative diagnosis, description of spleen injury, type of surgery, and results. A frequency distribution and mortality figures by age are given. Cases of associated injuries to other organs are described, including mortality and causes of death.

Details of the splenic injury and their frequencies are given. Symptoms and diagnosis are discussed. Author includes a state-of-the-art survey, with number of cases and mortality.

15-4046 N

COMBINED RENAL AND RESPIRATORY FAILURE AFTER TRAUMA. See 23-4046 N

15-4047 S

Stephens, F. O./ Hollings, R. M.

CLOSED ABDOMINAL INJURIES: An analysis of 168 consecutive cases with particular reference to diagnostic problems.

Sydney Univ. (Australia)/ Royal North Shore Hospital, Sydney (Australia). 3 Aug. 1963. 4 p. graph. tables. ref. *Medical Journal of Australia*, Vol. 2, 3 Aug. 1963, pp. 173–176.

JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident

OAE Abdomen, Anatomy/Body, Biomedical Aspect

- WSC Diagnosis, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type

Authors list and discuss causes of diagnostic difficulty. Describe essential and ancillary diagnostic methods. Present 5 case reports to illustrate the use of paracentesis. Analyze the 43 fatal cases with respect to type of accident, time of death, presence of multiple injuries, and diagnostic difficulties. Note that road accidents accounted for 74%. Present data which show the overall road accident picture.

15-4051 S

Hellström, G. LESIONS ASSOCIATED WITH CLOSED LIVER IN-JURY: A clinical study of 192 fatal cases.
Uppsala Univ., Akademiska Sjukhuset, Dept. of Surgery (Sweden). 1966. 8 p. tables. ref.

Acta Chirurgica Scandinavica, Vol. 131, 1966, pp. 460-475.

- OAJM Liver/Biliary Tract, Digestive System/ Alimentary Tract, Anatomy/Body, Biomedical Aspect
- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type
- YCC State-of-the-Art, Nature of Study
- VN Epidemiology/Etiology, Disciplines

Author notes that the mortality in nonpenetrating wounds of the liver is higher than that in rupture of the spleen. Presents data from several literature sources.

Analyzes 192 fatal cases of closed liver injury with respect to sex, age, survival time, accident situation, extent of liver trauma, and associated injuries. Discusses the possible role of liver trauma in producing lesions in other parts of the body, and possible causes of death when no lethal injury is apparent at autopsy.

Includes some case histories and an excellent literature review.

- 15-4052 N
 - Jenkins, S. G., Jr.

MANAGEMENT OF BLUNT ABDOMINAL TRAUMA. Sept. 1965. 5 p. tables. ref.

North Carolina Medical Journal, Vol. 26, Sept. 1965, pp. 391-395.

- OAE Abdomen, Anatomy/Body, Biomedical Aspect JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident INK Hemorrhage
- Diagnosis, Medical, Methods WSC
- WSD Surgery

Author reviews literature and discusses mechanism of injury; diagnosis; delayed abdominal hemorrhage; mortality; and treatment.

15-4054 S

Kleinert, H. E./ Romero, J.

BLUNT ABDOMINAL TRAUMA: Review of cases admitted to a general hospital over a 10 year period.

Louisville Univ., School of Medicine, Dept. of Surgery, Kentucky/ Louisville General Hospital, Kentucky. 1961. 8 p. tables. ref.

Journal of Trauma, Vol. 1, 1961, pp. 226-240.

Conference: American Association for the Surgery of Trauma, 19th annual, 24-26 Sept. 1959, Bretton Woods, New Hampshire.

- INE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology/Etiology, Disciplines
- Spleen/Lymph Tracts, Digestive System/ OAJN Alimentary Tract
- OAJM Liver/Biliary Tract
- OAMB Kidneys, Urogenital System
- OAMC Bladder
- NKFB Reaction Time, Frequency/Time, Operating Conditions, Physical Aspect

WSC Diagnosis, Medical, Methods WSE

Therapeutic

Authors review results of 161 patients with 24% mortality in effort to determine better means for early diagnosis. List etiological factors and organs injured, and discuss diagnostic criteria and treatment for different organs. Cystogram, intravenous pyelogram, and retrograde pyelogram were most useful laboratory aids.

15-4064 S

PELVIC FRACTURES: Associated intestinal and mesenteric lesions, See 16-4064 S

15-4073 S

Carlton, C. E., Jr./ Scott, R., Jr.

PENETRATING RENAL INJURIES: An analysis of 100 cases.

Baylor Univ. College of Medicine, Cora and Webb Mading Dept. of Surgery, Houston, Texas. Nov. 1960. 3 p. tables. figs.

Journal of Urology, Vol. 84, No. 5, Nov. 1960, pp. 599-603.

Conference: American Urological Association, Inc., annual, 16-19 May 1960, Chicago, Illinois.

- Laceration/Openwound/Penetrating, Injury/ ING Trauma, Accident
- Kidneys, Urogenital System, Anatomy/Body, OAMB **Biomedical Aspect**
- WSC Diagnosis, Medical, Methods
- WSE Therapeutic
- JNP Consequences/Complications

Authors recommend excretory urography and exploratory laparotomy as diagnostic procedures. Recommend surgical treatment. Note that hematuria was not found in 20%. Data statistics: mode of injury; incidence of hematuria; symptoms and physical findings; results of plain film of abdomen; results of excretory urography; types of treatment and complications; incidence of associated injuries.

15-4082 S

Olinde, H. D. H.

NONPENETRATING WOUNDS OF THE ABDOMEN: A report of 47 cases with review of the literature. Confederate Memorial Medical Center, Shreveport, Louisiana. Oct. 1960. 7 p. tables. ref. Southern Medical Journal, Vol. 53, Oct. 1960, pp. 1270-1282.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- OAE Abdomen, Anatomy/Body, Biomedical Aspect VN Epidemiology/Etiology, Disciplines

Reviews cases admitted to hospital over 5-year period, comparing frequency of causes with that found by other researchers. In this series, 4.3% were auto-pedestrian accidents and 48.9% were auto-collisions. Discusses injuries to various organ systems and to specific organs, factors affecting extent of injury, immediate management, indications for operations, anesthesia, and postoperative management.

15-4084 S

Crosthwait, R. W./ Allen, J. E./ Murga, F./ Beall, A. C., Jr./ DeBakey, M. E.

THE SURGICAL MANAGEMENT OF 640 CONSECU-TIVE LIVER INJURIES IN CIVILIAN PRACTICE.

Baylor Univ. College of Medicine, Cora and Webb Mading Dept. of Surgery, Houston, Texas/ Jefferson Davis General Hospital, Houston, Texas. June 1962. 3 p. tables. ref. Surgery, Gynecology and Obstetrics, Vol. 114, June 1962, pp. 650-654.

Grant No: H-3137/ HTS-5387.

Sponsor: Houston Heart Association, Texas/ Texas Heart Association/ Public Health Service.

- WSD Surgery, Medical, Methods
- Liver/Biliary Tract, Digestive System/ OAJM Alimentary Tract, Anatomy/Body, Biomedical Aspect
- WSI Autopsy/Pathology
- Multiple Severe Injuries, Injury/Trauma, Ac-JNX cident

INP Consequences/Complications

Study covers period 1939-1961. First 300 cases previously reported. Authors describe and discuss incidence, type of injury, associated injuries, management and surgical technique, results, causes of death, and complications. Attribute marked decrease in mortality rate to adequate use of massive whole blood transfusions and surgical intervention. Note that incidence of blunt trauma has increased. Correlate number of associate organs injured and mortality. Mortality highest for blunt trauma (as compared to stab wound and gunshot wound).

15-4101 N

Blumenberg, R. M.

THE SEAT BELT SYNDROME: Sigmoid colon perforation.

Army Hospital Ryukyu Islands, Dept. of Surgery. April 1967. 2 p. ref.

Annals of Surgery, Vol. 165, No. 4, April 1967, pp. 637-639.

- Seat Belts, Restraint Systems, Auxiliaries/ DMDB Accessories, Vehicle
- OAE Abdomen, Anatomy/Body, Biomedical Aspect Contusion/Crushing/Blunt, Injury/Trauma, Ac-JNE cident
- JNP Consequences/Complications
- YCK Case Studies, Nature of Study, Study-Report Type

Discusses nature and mechanisms of intra-abdominal and pelvic visceral and mesenteric injuries incurred while wearing a seat belt. Case of perforation of sigmoid colon following seat belt injury is reported.

15-4103 N

LeMire, J. R./ Earley, D. E./ Hawley, C. INTRA-ABDOMINAL INJURIES CAUSED BY AUTO-MOBILE SEAT BELTS.

Christ Hospital, Dept. of Radiology, Cincinnati, Ohio. 4 Sept. 1967. 3 p. ref.

American Medical Association. Journal, Vol. 201, No. 10, 4 Sept. 1967, pp. 735-737.

JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident

- DMDB Seat Belts, Restraint Systems, Auxiliaries/ Accessories, Vehicle
- OAE Abdomen, Anatomy/Body, Biomedical Aspect

JNP Consequences/Complications

YCK Case Studies, Nature of Study, Study-Report Type

Summarizes the only 23 cases reported in the literature on intra-abdominal injury due to lap-type or chestharness automobile safety belts. Reports are made on two additional cases. Intra-abdominal injury associated with wearing a seat belt is often unrecognized when patient is first seen. Any of the abdominal viscera may be involved.

15-4106 S

Wilson, C. B./ Vidrine, A., Jr./ Rives, J. D.

UNRECOGNIZED ABDOMINAL TRAUMA IN PATIENTS WITH HEAD INJURIES.

Louisiana State Univ., New Orleans, School of Medicine, Dept. of Surgery/ Louisiana State Univ., New Orleans, Surgical Service, Charity Hospital. 1965. 3 p. tables. figs. ref.

Annals of Surgery, Vol. 161, No. 4, April 1965, pp. 608-613.

- WSC Diagnosis, Medical, Methods
- Abdomen, Anatomy/Body, Biomedical Aspect OAE OAI Head
- YEF Data Statistics, Contents, Study-Report Type Contusion/Crushing/Blunt, Injury/Trauma, Ac-JNE cident
- JNPL Shock, Consequences/Complications

Authors review findings for 363 patients with abdominal trauma (91 with concomitant head injuries). Note coexistence of abdominal and head injuries is a particularly lethal combination. Discuss and describe factors in mismanagement of patients with such injuries. Data statistics (with respect to absence or presence of head injuries): incidence of coma and shock; incidence of shock in presence of associated injuries; frequency and results of paracentesis.

15-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

15-4126 S

Shaftan, G. W./ Gliedman, M. L./ Cappelletti, R. R. **INJURIES OF THE LIVER: A review of 111 cases.** Kings County Hospital Center, Brooklyn, New York/ New York State Univ., Brooklyn Downstate Medical Center, Dept. of Surgery. Jan. 1963. 7 p. tables. ref. Journal of Trauma, Vol. 3, No. 1, Jan. 1963, pp. 63-75. Conference: American Association for the Surgery of Trauma, 20th annual, 5-7 Oct. 1960, Coronada, California.

- Contusion/Crushing/Blunt, Injury/Trauma, Ac-JNE cident
- JNG Laceration/Openwound/Penetrating
- OAJM Liver/Biliary Tract, Digestive System/ Alimentary Tract, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- WSE Therapeutic, Medical, Methods
- Autopsy/Pathology WSI

All patients were alive on admission to hospital. Authors discuss diagnosis, complications, associated injuries, treatment, and mortality. Analyze the relationship of mortality to various factors. Describe and discuss management procedures followed in this hospital. Emphasize importance of adequate resuscitation, diagnosis, and drainage. Data statistics: age; race; sex; mortality; degree, incidence of shock; number of organs injured; extra-abdominal injuries; hemoperitoneum; type, extent of liver injury; principal causes of death. Discussion follows article.

15-4131 S

Sturim, H. S. THE SURGICAL MANAGEMENT OF PANCREATIC INJURIES.

Washington Univ. School of Medicine, Dept. of Surgery, St. Louis, Missouri/ Veterans Administration Hospital, St. Louis, Missouri. 1965. 6 p. tables. ref.

Journal of Trauma, Vol. 5, No. 6, 1965, pp. 693-702.

JNE	Contusion/Crushing/Blunt, Injury/Trauma, A	Ac-
	cident	

- JNG Laceration/Openwound/Penetrating
- OAJP Pancreas, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect
- WSD Surgery, Medical, Methods
- WSE Therapeutic
- JNP Consequences/Complications
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type

Author reviews 40 cases. Discusses mechanism of injury, diagnosis, surgical management, associated injuries and complications. Data statistics: type of wound and mortality; mortality and associated injuries; type of wound and associated injuries; method of treatment; complications. Brief case summaries of six fatalities.

15-4132 N

Williams, J. S./ Lies, B. A., Jr./ Hale, H. W., Jr. THE AUTOMOTIVE SAFETY BELT: In saving a life may produce intra-abdominal injuries.

Rochester Univ., School of Medicine and Dentistry, New York/ New York State Univ., Buffalo. 1966. 7 p. tables. figs. ref.

Journal of Trauma, Vol. 6, No. 3, 1966, pp. 303-315. Conference: American Association for the Surgery of Trauma, 25th annual, 14-16 Oct. 1965, Philadelphia, Pennsylvania.

JN	Injury/Trauma.	Accident

DMDB	Seat	Belts,	Restraint	Systems,	Auxiliaries/
	Acces	ssories,	Vehicle		

- DMDC Shoulder Harnesses
- OAE Abdomen, Anatomy/Body, Biomedical Aspect

YCK Case Studies, Contents, Study-Report Type

Discussion in detail of four case reports of injury from lap-type seat belt.

Present also two tables, comparing findings by various authors on situation of accident, symptoms and physical findings, timing of operation after injury, pathology, and course. One table is for lap-type safety belt, the other for shoulder type. Discuss mechanism of abdominal injuries by lap belts and by shoulder belts. 15-4144 S

Thompson, R. J., Jr./ Hinshaw, D. B.

PANCREATIC TRAUMA: Review of 87 cases.

Loma Linda Univ., School of Medicine, Dept. of Surgery, California/ Los Angeles County Hospital, California. Jan. 1966. 5 p. charts, figs. ref. tables.

Annals of Surgery, Vol. 163, No. 1, Jan. 1966, pp. 153-160.

Conference: American College of Surgeons, Southern California Chapter, 24 Jan. 1965.

IN Iniury/Trauma, Accid	ent
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- OAJP Pancreas, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- WSE Therapeutic, Medical, Methods

Authors present data and discuss diagnosis, factors which influence the mortality rate, and surgical management. Note that pancreatic trauma is becoming more common. Data statistics: mechanism of injury and mortality; associated injuries and mortality; mortality, age and sex; types of associated injuries; cause of death; mortality and location of injury; pancreatic complications; method of treatment and mortality.

15-4146 S

Pridgen, J. E./ Herff, A. F., Jr./ Watkins, H. O./ Halbert, D. S./ d'Avila, R./ Crouch, D. M./ Prud'homme, J. L.
PENETRATING WOUNDS OF THE ABDOMEN:
Analysis of 776 operative cases.
Texas Univ., San Antonio, Dept. of Surgery. June 1967. 4
p. figs. ref. tables.
Annals of Surgery, Vol. 165, No. 6, June 1967, pp. 901–907.
Conference: Southern Surgical Association, annual, 6–8
Dec. 1966, Boca Raton, Florida.

- WSD Surgery, Medical, Methods
- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- WSI Autopsy/Pathology

Authors compare findings in two series (1950–57 and 1957–66). Earlier series previously reported. Discuss incidence and treatment of gastrointestinal wounds; surgical management of wounds to liver, pancreas, and the vascular system. Describe total patient care and emphasize the advantages of complete preoperative care in the emergency ward and operating room. Data statistics: age; sex; race; type of wound and blood utilized; wounds of gastrointestinal tract; wounds of hollow viscera; wounds of solid viscera; vascular injuries, treatment and result; causes of death.

15-4147 S

Wilson, D. H.

INCIDENCE, AETIOLOGY, DIAGNOSIS, AND PROG-NOSIS OF CLOSED ABDOMINAL INJURIES: A study of 265 consecutive cases.

Leeds General Infirmary, Casualty Dept. (England). Jan. 1963. 5 p. tables. ref.

British Journal of Surgery, Vol. 50, Jan. 1963, pp. 381-389.

Sponsor: Leeds General Infirmary, Board of Governors (England).

VN	Epidemiology/Etiology, Disciplines
	Lplaciniology, Enology, Disciplines

- WSC Diagnosis, Medical, Methods
- OAE Abdomen, Anatomy/Body, Biomedical Aspect JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect

Author presents data and discusses findings. Discusses factors influencing diagnosis and prognosis in each type of closed abdominal injury. Suggests that further decrease in the mortality rate could be achieved by improved facilities for early diagnosis and use of recent improvements in resuscitation procedures. Data statistics: age; sex; type of accident and age; type of injury; treatment and mortality; final diagnosis of patients with abdominal wall injuries.

15-4149 S

MAJOR ABDOMINAL INJURIES ASSOCIATED WITH PELVIC FRACTURES. See 16-4149 S

15-4196 S

Allen, R. B./ Curry, G. J.

ABDOMINAL TRAUMA: A study of 297 consecutive cases.

Hurley Hospital, Section for the Surgery of Trauma, Flint, Michigan. March 1957. 7 p. tables. ref.

American Journal of Surgery, Vol. 93, March 1957, pp. 398-404.

- Contusion/Crushing/Blunt, Injury/Trauma, Ac-JNE cident
- JNG Laceration/Openwound/Penetrating
- Abdomen, Anatomy/Body, Biomedical Aspect OAE NKFF Delay, Frequency/Time, Operating Conditions,
- Physical Aspect YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology/Etiology, Disciplines
- WSD Surgery, Medical, Methods
- Shock, Consequences/Complications JNPL

Authors analyze data and discuss etiology, types of injuries, associated injuries, shock, selection of patients for operation, morbidity, mortality and important factors in management. Data statistics: age; sex; mortality; type of injury; type of accident; treatment; degree of shock; interval between admission and operation; duration of hospitalization.

15-4198 S

Zabinski, E. J./ Harkins, H. N.

DELAYED SPLENIC RUPTURE: A clinical syndrome following trauma; report of four cases with an analysis of one hundred and seventy-seven cases collected from the literature.

Henry Ford Hospital, Div. of General Surgery, Detroit, Michigan. 1943. 14 p. tables. ref. Archives of Surgery, Vol. 46, 1943, pp. 186–213.

- Contusion/Crushing/Blunt, Injury/Trauma, Ac-INE cident
- NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect

- Spleen/Lymph Tracts, Digestive System/ OAJN Alimentary Tract, Anatomy/Body, Biomedical Aspect
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- YCK Case Studies
- YEF Data Statistics, Contents
- Epidemiology/Etiology, Disciplines VN

Authors analyze 70 cases in detail. Discuss incidence, initial injury, diagnosis, treatment, complications and mortality. Data statistics: age, sex; type of accident; length of latent period; pathologic changes.

15-4504 S

DIED IN HOSPITAL: A three-year study of deaths following trauma. See 21-4504 S

15-4506 S

Hellstrom, G.

CLOSED INJURY OF THE LIVER: Analysis of a series of 300 cases.

Uppsala Univ., Dept. of Surgery (Sweden). Dec. 1961. 6 p. figs. ref. tables.

- Acta Chirurgica Scandinavica, Vol. 122, Dec. 1961, pp. 490-501.
- OAJM Liver/Biliary Tract, Digestive System/ Alimentary Tract, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- VN Epidemiology/Etiology, Disciplines
- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect
- WSE Therapeutic, Medical, Methods
- WSD Surgery

Author analyzes and discusses data from 20-year period. Reviews mortality compared to closed rupture of the spleen. Notes a striking increase in the incidence of this injury and consistently high mortality. Stresses the difficulty and importance of early diagnosis and proper surgical management. Does not recommend the use of gauze packing. Data statistics: mortality; age; sex; location and cause of injury; treatment; interval between admission and operation; postoperative course; other injuries; time of death.

15-4513 S ÜBER DIE RIPPENSERIENFRAKTUREN DURCH VERKEHRSUNFÄLLE UND DEN DERZEITIGEN STAND IHRER BEHANDLUNG, [ON SERIAL RIB FRACTURES CAUSED BY TRAFFIC ACCIDENTS AND THE CURRENT STATUS OF THEIR TREAT-MENT.] See 24-4513 S

15-4542 S

Hung, C. R./ Tsai, T. C./ Kao, T. C.

NONPENETRATING ABDOMINAL INJURY: A report of 98 cases.

National Taiwan Univ., Dept. of Surgery, Taipei. 28 March 1962. 13 p. tables. figs. ref. Formosan Medical Association Journal, Vol. 61, No. 3, 28

March 1962, pp. 292-317.

- OAE Abdomen, Anatomy/Body, Biomedical Aspect JNE Contusion/Crushing/Blunt, Injury/Trauma, Ac-
- cident
- VN Epidemiology/Etiology, Disciplines

Authors present and discuss data. Discuss mechanism of injury, condition of patient on admission, diagnosis, and treatment. Recommend early exploratory laparotomy on the basis of history of trauma and clinical findings. Data statistics: age and sex; causes of injuries; occupation; abdominal organ injured and mortality; extra-abdominal injuries and mortality.

16-2592 S

TRAFFIC INJURIES IN BRISBANE. Report of a general survey. See 01-2592 S

16-3705 S

AN ANALYSIS OF 950 FATAL INJURIES. See 25-3705 S

16-3710 S

CONCEALED HEMORRHAGE DUE TO PELVIC FRAC-TURE. See 24-3710 S

16-3728 S

AUTOPSY FINDINGS IN 127 PATIENTS FOLLOWING FATAL TRAFFIC ACCIDENTS. See 22-3728 S

16-3786 S

THE EFFECT OF SUBLINGUAL POTASSIUM HEPARIN (CLARIN) ON THE SERUM LIPASE ACTIVITY OF PATIENTS FOLLOWING FRACTURES. See 25-3786 S

16-3789 S

Eichenholtz, S. N./ Stark, R. M.

CENTRAL ACETABULAR FRACTURES: A review of thirty-five cases.

Veterans Administration Hospital, Bronx, New York/ Hospital for Special Surgery, New York. June 1964. 11 p. figs. ref.

Journal of Bone and Joint Surgery, Vol. 46-A, No. 4, June 1964, pp. 695-714.

Conference: American Academy of Orthopaedic Surgeons, annual, 24 Jan. 1963, Miami Beach, Florida.

JNH Fracture, Injury/Trauma, Accident

OADH	Pelvis, Lower Extremity, Anatomy/Body, Bio-	-
	medical Aspect	

WSD Surgery, Medical, Methods

- WSE Therapeutic
- YCK Case Studies, Nature of Study, Study-Report Type

Describe injury and results of treatment, with follow-up an average of four years after treatment. Review controversy found in literature over merits of open and closed treatment. Conclude that 75% of patients can achieve good results by closed treatment. Displaced noncomminuted fractures with intact femoral head may be suitable for open reduction and internal fixation. Gross interposed bone fragments and fracture of femoral head may require cup arthroplasty.

16-3790 S

Peltier, L. F. COMPLICATIONS ASSOCIATED WITH FRACTURES OF THE PELVIS.

American Academy of Orthopaedic Surgeons/ Kansas Univ. Medical Center, Section of Orthopedic Surgery, Kansas City. July 1965. 5 p. ref. figs. tables.

Journal of Bone and Joint Surgery, Vol. 47-A, No. 5, July 1965, pp. 1060-1069.

INP	Consequences,	Injury/Trauma	, Accident
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- JNK Hemorrhage
- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect
- OAM Urogenital System
- OALF Diaphragm, Respiratory System
- YEF Data Statistics, Contents, Study-Report Type

WSD Surgery, Medical, Methods

Discussion based on 186 patients with fractures of pelvis, 60% of which had additional injuries. Fractures were classified according to whether they affected weight-bearing. Highest mortality rate was among patients with bilateral fractures of pubic rami, central dislocations of hip, and fractures of hemipelvis. Management of intraperitoneal and intrapelvic retroperitoneal hemorrhage is discussed, and other rare complications are briefly dealt with. Cites conclusions of other authors concerning specific injuries and hemorrhage complicating pelvic fractures.

16-3882 S

THE PATHOLOGY OF PEDESTRIAN AUTOMOTIVE ACCIDENT VICTIMS. See 21-3882 S

16-4034 N

Sullivan, C. R.

FRACTURES OF THE PELVIS: Fundamentals of management.

Mayo Clinic, Section of Orthopedic Surgery, Rochester, Minnesota/ Mayo Foundation, Section of Orthopedic Surgery, Rochester, Minnesota. Jan. 1966. 11 p. figs. tables. ref.

Postgraduate Medicine, Vol. 39, Jan. 1966, pp. 45-55.

- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect
- JNH Fracture, Injury/Trauma, Accident
- WSE Therapeutic, Medical, Methods
- JNP Consequences/Complications

Pelvic fracture per se is of less importance than the visceral damage almost invariably accompanying it. Text with illustrations describes five common nonoperative methods of handling. Operative treatment is discussed briefly. Complications are listed in table.

16-4050 S

MASSIVE HEMORRHAGE FROM PELVIC FRAC-TURES. See 24-4050 S

16-4064 S

Moore, J. R. PELVIC FRACTURES: Associated intestinal and mesenteric lesions.

BIBLIOGRAPHY

July 1966. 5 p. tables. ref.

Canadian Journal of Surgery, Vol. 9, July 1966, pp. 253-261.

Sponsor: British Columbia Workmen's Compensation Board/ British Columbia Univ., Trauma Research Unit, Vancouver, British Columbia/ Vancouver General Hospital, British Columbia.

- JNH Fracture, Injury/Trauma, Accident
- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect
- OAJL Large Intestine, Digestive System/Alimentary Tract
- JNG Laceration/Openwound/Penetrating
- YEF Data Statistics, Contents, Study-Report Type
- OAJK Small Intestine
- WSC Diagnosis, Medical, Methods

Reports on 25 patients with intestinal perforation, with or without mesenteric laceration, and one with mesenteric laceration only. 58% mortality rate was partly because many accidents occurred at distant and relatively inaccessible sites. Reviews literature on pelvic injuries, emphasizing diagnosis of blunt intra-abdominal injury. Hemoglobin and hematocrit determinations, leukocyte counts, four-quadrant peritoneal tap, and radiographs cannot be relied upon for early diagnosis.

16-4075 N

Ahrer, E./ Marberger, H.

BECKENVERLETZUNGEN UND HARNTRAKTS-KOMPLIKATIONEN. [PELVIC INJURIES AND URINARY TRACT COMPLICATIONS.] Innsbruck Universität, Chirurgischen Klinik (Germany).

Nov. 1959. 5 p. tables, figs, photos, ref. Klinische Medizin, Vol. 14, Nov. 1959, pp. 565-572.

Rumbene Meurzin, vol. 11, 100, 1555, pp. 505-57.

JNH Fracture, Injury/Trauma, Accident

- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect
- OAM Urogenital System

JNP Consequences/Complications

Authors discuss etiology of trauma, and show frequency of occurrence of specific types of pelvic fracture. Mechanism of injury to genitourinary tract is explained with sketches and X rays. Frequency of transection of uretra, rupture of bladder, and complications is given for male and female patients in sample. Therapy and urgency of proper diagnosis is discussed.

16-4085 S

Chang, T. H./ Miyakawa, G./ Sunday, H. B.

COMPLICATED PELVIC FRACTURES (with case reports).

Charleston General Hospital, Dept. of Orthopedic and Traumatic Surgery, West Virginia. Jan. 1961. 9 p. photos. ref.

West Virginia Medical Journal, Vol. 57, No. 1, Jan. 1961, pp. 12-20.

Conference: American College of Surgeons, West Virginia Chapter, 1-2 April 1960, White Sulphur Springs, West Virginia.

JNH Fracture, Injury/Trauma, Accident

- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect
- JNP Consequences/Complications

YCK Case Studies, Nature of Study, Study-Report Type

Authors present classification scheme for pelvic fractures and associated injuries. Describe and discuss diagnosis and treatment of pelvic fractures. Analyze 14/108 cases with associated injuries. Describe management procedures by means of 9 representative case reports. Data statistics: sex; age; race; cause of injury; type of pelvic fracture; type of associated injury; result; average length of hospital stay.

16-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

16-4149 S

Levine, J. I./ Crampton, R. S. MAJOR ABDOMINAL INJURIES ASSOCIATED WITH PELVIC FRACTURES Meadowbrook Hospital, Dept. of Surgery, Hempstead, New York. Feb. 1963. 3 p. tables. ref. Surgery, Gynecology and Obstetrics, Vol. 116, Feb. 1963, pp. 223-226.

- JNP Consequences/Complications, Injury/Trauma, Accident
- JNH Fractures
- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type

Authors review 35 cases. Correlate the type of fracture and type of abdominal injury. Describe and discuss major complications. Data statistics: associated injuries; type of fracture and type of accident.

16-4337 S

ROAD ACCIDENTS. See 03-4337 S

17-2592 S

TRAFFIC INJURY IN BRISBANE. Report of a general survey. See 01-2592 S

17-3703 S DIE KLINISCHE DEDEUTUNG DER TRAUMA-TISCHEN FETTEMBOLIE. [THE CLINICAL SIGNIFI-CANCE OF TRAUMATIC FAT EMBOLISM.] See 25-3703 S

17-3705 S AN ANALYSIS OF 950 FATAL INJURIES. See 25-3705 S

17-3707 S

Lena, A./ d'Allaines, C. COMPLICATIONS ARTERIELLES DES TRAUMA-TISMES FERMES DES MEMBRES. Premier rapport. [ARTERIAL COMPLICATIONS OF CLOSED INJURIES TO LIMBS. First report.] 1963. 16 p. tables.

Journal de Chirurgie (Paris), Vol. 86, 1963, pp. 197-212.

JNE	Contusion/Crushing, Injury/Trauma, Accident
OAKCB	Arteries, Blood Vessels, Cardiovascular System,
	Anatomy/Body, Biomedical Aspect
OAD	Lower Extremity
OAG	Upper Extremity
YEF	Data Statistics, Contents, Study-Report Type

WSDG Amputation, Surgery, Medical, Methods L Time

Authors give state-of-the-art report associated with their findings. Discuss types of arterial injuries, with tables of amputation frequencies according to artery injured and interval between accident and surgery; evaluate diagnostic techniques, especially arteriography, and surgical and other therapies.

17-3708 S

Patman, R. D./ Poulos, E./ Sires, G. T. THE MANAGEMENT OF CIVILIAN ARTERIAL IN-JURIES.

Texas Univ., Southwestern Medical School, Dept. of Surgery, Dallas. April 1964. 8 p. ref. figs. tables. Surgery, Gynecology, and Obstetrics, Vol. 118, No. 4, April 1964, pp. 725-738.

WSD Surgery.	Medical.	Methods
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OAKC	Blood	Vessels,	Cardiovascular	System,
	Anatom	/Body, Bio	medical Aspect	
YEF	Data Sta	tistics, Cor	itents, Study-Rep	ort Type
JNP	Consequ	ences, Injur	y/Trauma, Accider	nt
JNK	Hemorrh	age		

Analyze 271 arterial injuries in 256 patients seen over twelve years, tabulating locations and types of wounds. 48% in shock upon arrival at hospital. Mortality rate of 8.2%, and true amputation rate of 3.8%. Average blood replacement was 930 c.c. and average replacement with physiologic salt solution was 2,095 c.c. Detailed description of types of arterial injury in which lateral repair, replacement grafts, and end-to-end anastomosis is best repair technique. Only 18.6% of injuries to extremities were treated by ligation as definitive measure. Ancillary procedures are emphasized, including relief of associated vasospasm and indications for fasciotomy.

17-3721 S

FAT EMBOLISM IN FATAL AUTOMOBILE ACCI-DENTS. See 25-3721 S

17-3722 S

FAT EMBOLISM STUDIED IN 100 PATIENTS DYING AFTER INJURY. See 25-3722 S

17-3724 S

MORTALITY RELATED TO VARIOUS METHODS OF TREATMENT OF FEMORAL SHAFT FRACTURES. See 25-3724 S

17-3728 S

AUTOPSY FINDINGS IN 127 PATIENTS FOLLOWING FATAL TRAFFIC ACCIDENTS. See 22-3728 S

17-3780 N

Grogono, B. J. S. SOME COMPLICATIONS OF UPPER LIMB INJURIES. May 1966. 5 p. photos. figs. tables. ref.

Manitoba Medical Review, Vol. 46, May 1966, pp. 324-333.

Upper Extremity, Anatomy/Body, Biomedical OAG Aspect

- JNP Consequences, Injury/Trauma, Accident
- Therapeutic, Medical, Methods WSE
- OAKC Blood Vessels, Cardiovascular System

INH Fracture

Vascular trauma, myositis ossificans, and fractures of the humeral shaft complicate upper-limb injuries. Value of vascular surgery is reflected in table demonstrating reduction in amputation rates from World War I to the Korean War. Discusses signs and symptoms for vascular complications, Volkman's ischemic contracture (with case reports), and recovery after arterial occlusion, as well as capsular calcification and pararticular ossification (with X rays).

17-3786 S

THE EFFECT OF SUBLINGUAL POTASSIUM HEPARIN (CLARIN) ON THE SERUM LIPASE ACTIVITY OF PATIENTS FOLLOWING FRACTURES. See 25-3786 S

17-3788 S

Hinchey, J. J./ Day, P. L. PRIMARY PROTHETIC REPLACEMENT IN FRESH FEMORAL-NECK FRACTURES. March 1964. 10 p. tables. figs. ref. Journal of Bone and Joint Surgery, Vol. 46-A, No. 2, March 1964, pp. 223-240. Conference: American Orthopaedic Association, annual, 29 May 1962, Castle Harbour, Bermuda.

- YEF Data Statistics, Contents, Study-Report Type JNH
- Fracture, Injury/Trauma, Accident OADEB Femur, Leg, Lower Extremity, Anatomy/Body, **Biomedical Aspect**
- WSE Therapeutic, Medical, Methods
- WSD Surgery
- Old Aged, Adults, People EEC
- JNP Consequences

Two doctors report on 294 Moore Vitallium prosthetic replacements of the femoral head which they performed, 1953-1960, on 288 patients, mostly elderly. List indications for use of prosthesis, management, general and local complications, and short-term evaluation of results. Illustrations of roentgenograms show bone formations about prosthesis.

17-3789 S

CENTRAL ACETABULAR FRACTURES: A review of thirty-five cases. See 16-3789 S

17-3835 N

AGRICULTURAL TRACTOR ACCIDENTS: A description of 14 tractor accidents and a comparison with road traffic accidents. See 18-3835 N

17-3847 S

Goldman, B. S./ Firor, W. B./ Key, J. A. THE RECOGNITION AND MANAGEMENT OF PERI-PHERAL ARTERIAL INJURIES. Toronto General Hospital, Div. of Cardiovascular Surgery (Canada)/ Ontario Heart Foundation (Canada)/ Toronto Univ., Dept. of Surgery (Canada). 1965. 7 p. tables. figs. Canadian Medical Association. Journal, Vol. 92, 29 May 1965, pp. 1154-1160.

WSC	Diagnosis, l	Medical,	Methods
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- WSE Therapeutic
- WSD Surgery
- Arteries, Blood Vessels, Cardiovascular System, OAKCB Anatomy/Body, Biomedical Aspect
- Time
- WSDG Amputation
- YCK Case Studies, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents

In 61 cases (1953-1964), 50% of the injuries were not immediately recognized. Locations of injuries and classification of arterial lesions are given. Early- and latemanagement results are given for each type of repair. Case reports and a few unsatisfactory results are discussed.

17-3863 N

Fraser, G. A. CLOSED TRAUMATIC RUPTURE OF COMMON FEMORAL ARTERY.

Poole General Hospital, Dept. of Surgery, Dorset (England). April 1965. 4 p. illus. ref.

Annals of Surgery, Vol. 161, No. 4, April 1965, pp. 539-544.

Contusion/Crushing, Injury/Trauma, Accident INE OAKCB Arteries, Blood Vessels, Cardiovascular System,

- Anatomy/Body, Biomedical Aspect
- OADG Thigh, Lower Extremity
- YCK Case Studies, Nature of Study, Study-Report Type
- WSD Surgery, Medical, Methods
- State-of-the-Art, Nature of Study YCC

Contains brief state-of-the-art discussion for acute arterial injury. Two cases of acute injury of common femoral artery due to blunt trauma are reported, one with successful end-to-end anastomosis, and another who underwent two unsuccessful operations before successful freeze-dried homograft 21 months after accident.

17-3901 N

Miller, D. S./ Gilbert, R. L. MANAGEMENT OF FRACTURE WITH VASCULAR INJURY.

Chicago Medical School, Dept. of Orthopedic Surgery, Illinois/ Air Force, Scott Air Force Base, Belleville, Illinois. Sept. 1964. 6 p. ref.

Geriatrics, Vol. 19, Sept. 1964, pp. 658-668.

- Fracture, Injury/Trauma, Accident **JNH**
- Therapeutic, Medical, Methods WSE
- Blood Vessels, Cardiovascular System, OAKC Anatomy/Body, Biomedical Aspect
- WSC Diagnosis
- OAD Lower Extremity
- Case Studies, Nature of Study, Study-Report YCK Type

Cases are reported of four patients in their seventies. Complications, differential diagnosis, injuries to lower limbs, and frequent associated arterial injuries are discussed.

17-3917 S

Kulowski, Jr. FRACTURES OF THE SHAFT OF THE FEMUR RE-SULTING FROM AUTOMOBILE ACCIDENTS. Oct. 1964. 5 p. tables. figs. ref. International College of Surgeons. Journal, Vol. 42, Oct. 1964, pp. 412-420.

- Fracture, Injury/Trauma, Accident JNH
- OADEB Femur, Leg, Lower Extremity, Anatomy/Body, **Biomedical Aspect**
- VN Epidemiology, Disciplines
- $\mathbf{E}\mathbf{A}$ Age, People
- \mathbf{EF} Sex
- YEF Data Statistics, Contents, Study-Report Type

Etiology, types and speeds of impact, risk of injury according to seat occupied, femoral-shaft morbidity, and age and sex are given for 50 patients (1947-1962). Seat belt is mentioned as effective restraining device.

17-3921 S

Dencker, H. SHAFT FRACTURES OF THE FEMUR: A comparative study of the results of various methods of treatment in 1.003 cases. Göteborg Univ., Dept. of Surgery (Sweden). 1965. 7 p. tables. ref. Acta Chirurgica Scandinavica, Vol. 130, 1965, pp. 173-184.

JNH Fracture, Injury/Trauma, Accident

- Femur, Leg, Lower Extremity, Anatomy/Body, OADEB **Biomedical Aspect**
- Age, People EA
- WSE Therapeutic, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- INP Consequences

Deals with 992 patients in Sweden, 1952-1954, 54 percent between 17 and 39 years of age, with follow-up investigation 4-8 years after accident. Tabulates frequency of fracture types according to closed and open fractures, and methods of treatment. Discusses complications. Recommends traction with wire through the tibial tuberosity as standard treatment for both closed and open fractures of the femur.

17-3930 S

Lucas, G. L./ Wirka, H. W. ORTHOPEDIC PROBLEMS IN AGRICULTURAL TRAUMA. Wisconsin Univ. Hospital, Dept. of Surgery, Div. of Orthopedics, Madison. Dec. 1965. 5 p. table. ref. Wisconsin Medical Journal, Vol. 64, Dec. 1965, pp. 471-475.

- JNH Fracture, Injury/Trauma, Accident
- General Discussion, Contents, Study-Report YER Type
- VN Epidemiology, Disciplines
- JNP Consequences

EA Age, People

WSE Therapeutic, Medical, Methods

Of 100,000 accidental deaths per year in the U.S., 4,500 are among farmers. For every fatality, there are approximately 100 seriously disabling accidents. Authors review 19 cases, ages 17-66, giving etiology, injury, and complicating factors. Agricultural trauma frequently produces serious musculoskeletal injury requiring orthopedic surgery.

17-3937 S

Stören, G.

CONSERVATIVE TREATMENT OF ANKLE FRAC-TURES: Follow up of 99 fractures treated conservatively. Lillehammer Fylkessykehus, Dept. of Surgery (Norway). 1964. 4 p. tables. ref.

Acta Chirurgica Scandinavica, Vol. 128, 1964, pp. 45-50.

JNH Fracture, Injury/Trauma, Accident

OADA Ankle, Lower Extremity, Anatomy/Body, Biomedical Aspect

OADED Tibia, Leg

- WSE Therapeutic, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type

Study comprises 99 severe cases during 1945–1958, followed up after mean interval of eight years. Table correlates position on admission and result of reduction. Results compare favorably with those of previous studies on conservative treatments and operative methods.

17-3944 S

Hjelmstedt, A./ Sundstrom, R. DEEP VENOUS THROMBOSIS FOLLOWING FRAC-TURES OF THE TIBIAL SHAFT: A phlebographic study

of 40 patients one to two weeks after injury and after fracture union.

1963.6 p. tables. ref. figs.

Acta Chirurgica Scandinavica, Vol. 126, 1963, pp. 211-220.

OADED Tibia, Leg, Lower Extremity, Anatomy/Body, Biomedical Aspect

OAKCC Veins, Blood Vessels, Cardiovascular System

JNH Fracture, Injury/Trauma, Accident

- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study–Report Type JNPO Occlusion, Thrombosis, Clot

Tables show incidence of thrombosis by age and sex, in relation to fracture and trauma of reduction, following open and closed reduction, and with different fracture types and age groups. In one case in which the patient succumbed to pulmonary embolism, thrombosis was studied at autopsy. Literature review covers findings on thrombosis of other researchers. Anticoagulant therapy is discussed.

17-3946 S

FAT EMBOLISM: Fat absorption from the site of injury. See 25-3946 S

17-3965 S

Kapandji, A./ Alexandre, J.-H./ Frain, Ph./ Boury, G. ÉTUDE STATISTIQUE GLOBALE DE 216 CAS DE

FRACTURE DU COL DUX FÉMUR. [OVER-ALL STATISTICAL STUDY OF 216 CASES OF FEMORAL NECK FRACTURE.]

Hopital Broussais, Paris (France). Dec. 1965. 8 p. figs. ref. Annales de Chirurgie, Vol. 19, Dec. 1965, pp. 1616-1623.

JNH Fracture, Injury/Trauma, Accident

- YEF Data Statistics, Contents, Study–Report Type OADEB Femur, Leg, Lower Extremity, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods

JNP Consequences/Complications

WSD Surgery

Data include etiology, length of stay in hospital, type of fracture by age, surgical vs. conservative treatment, types of nailing, results and complications. High incidence of aged patients. Mortality rates are compared for different kinds of therapy.

17-4013 N

Anlyan, W. G./ Goldner, J. L./ Clippinger, F. W. THROMBOEMBOLIC COMPLICATIONS OF ORTHO-PEDICS AND THE SURGERY OF TRAUMA. Duke Univ. School of Medicine, Dept. of Surgery, Div. of

Orthopaedic Surgery, Durham, North Carolina. Feb. 1962. 4 p. ref.

North Carolina Medical Journal, Vol. 23, No. 2, Feb. 1962, pp. 45-50.

WSD Surgery, Medical, Methods

JNP Consequences/Complications, Injury/Trauma, Accident

JNPO Occlusion/Thrombosis/Clot

JNH Fracture

YCK Case Studies, Nature of Study

Authors review a 12-year experience. Discuss incidence, diagnosis, treatment and prevention. Ten illustrative case reports.

17-4027 S

Gibson, J. M. C.

MULTIPLE INJURIES: The management of the patient with a fractured femur and a head injury.

Radcliffe Infirmary, Oxford (England). Aug. 1960. 4 p. ref.

Journal of Bone and Joint Surgery, Vol. 42B, No. 3, Aug. 1960, pp. 425-431.

- JNH Fracture, Injury/Trauma, Accident
- JNX Multiple Severe Injuries
- OADEB Femur, Leg, Lower Extremity, Anatomy/Body, Biomedical Aspect
- OAI Head

WSE Therapeutic, Medical, Methods

Clinical study of 59 cases, 56 the result of road accidents. Author describes problems, immediate assessment and treatment, definitive treatment of fractured femur, and results. Five illustrative case reports.

17-4037 S

Boury, G./ Plummerault, J./ Alexandre, J. H. ÉTUDE ANALYTIQUE DE 122 FRACTURES DIA-PHYSAIRES DE JAMBE CHEZ L'ADULTE. [ANALYTI-

BIBLIOGRAPHY

CAL STUDY OF 122 DIAPHYSIAL LEG FRACTURES IN ADULTS.] 1965. 8 p. figs. ref.

Annales de Chirurgie, Vol. 19, 1965, pp. 1624-1631.

JNH Fracture, Injury/Trauma, Accident

- OADE Leg, Lower Extremity, Anatomy/Body, Biomedical Aspect
- JNP Consequences/Complications
- NKFP Period, Frequency/Time, Operating Conditions, Physical Aspect

Authors give frequency of cases by sex and age; tabular correlation of site of fracture (upper third, middle, lower third of leg) with type of fracture (transverse, oblique, spiroid, multiple). Discuss therapy: orthopedic (conservative) treatment, and osteosynthesis (bolting, nailing, plates, etc.). All categories are discussed giving time for recovery, and results.

17-4071 S

Neely, W. A./ Hardy, J. D./ Artz, C. P.

ARTERIAL INJURIES IN CIVILIAN PRACTICE: A current reappraisal with analysis of forty-three cases.

Mississippi Univ., Medical Center, Dept. of Surgery, Jackson, July 1961. 8 p. ref. fig.

Journal of Trauma, Vol. 1, July 1961, pp. 424-439.

Grant No: RG 7181.

Sponsor: Mississippi Heart Association/ National Institutes of Health.

Conference: American Association for the Surgery of Trauma, 20th annual, 5-7 Oct. 1960, Coronado, California.

JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident

OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect

- WSE Therapeutic, Medical, Methods
- WSD Surgery

result for each case.

YEF Data Statistics, Contents, Study-Report Type YCK Case Studies, Nature of Study

Series reflects changes in management of arterial injuries over five years with current emphasis on early direct repair. Cases are classified according to complete division, incomplete division, puncture wounds, contusions, and arteriospasm and kinking. Cites injury, interval before evaluation, pathology, operative procedure, and

17-4104 S

THE MANAGEMENT OF SKELETAL FRACTURES IN THE PATIENT WITH A HEAD INJURY. See 11-4104 S

17**-**4197 S

Hughes, C. W. ARTERIAL REPAIR DURING THE KOREAN WAR. Walter Reed Army Medical Center, Div. of Surgery, Washington, D.C. April 1958. 4 p. tables. ref. Annals of Surgery, Vol. 147, No. 4, April 1958, pp. 555-561.

- OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect WSD Surgery, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type

JNP Consequences/Complications, Injury/Trauma, Accident

Author reviews literature and his experience. Summarizes reports of 304 major vessel repairs, describes methods of treatment. Discusses accompanying vein injuries. Amputation rate of 13% after suture repair, 51% following ligation. Data statistics: artery injured; type of treatment; result of treatment.

17-4337 S

ROAD ACCIDENTS. See 03-4337 S

17-4533 S

Le Peltier, M. 17 LÉSIONS ARTÉRIELLES FÉMORO-POPLITÉES TRAITÉES PAR RECONSTRUCTION IMMÉDIATE. [17 FEMORO POPLITEAL ARTERIAL LESIONS TREATED BY IMMEDIATE RECONSTRUCTION]. June 1963. 5 p.

Societe de Medecine Militaire Francaise Bulletin Mensuel, Vol. 57, June 1963, pp. 251–258.

JN Injury/Trauma, Accident

WSD Surgery, Medical, Methods

OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect

Case reports are given for 17 femoro popliteal arterial lesions treated by immediate reconstruction. Findings are summarized giving rating of results by existence of pulse, effect of delay in operating, associated injuries and causes for amputation.

17-4534 S

LA CAUSA DI MORTE NEI TRAUMATIZZATI: Studio clinico-statistico ed anatomo-patologico. [CAUSE OF DEATH IN TRAUMATIZED PATIENTS: Clinico-statistical and anatomo-pathologic study.] See 25-4534 S

18-3705 S

AN ANALYSIS OF 950 FATAL INJURIES. See 25-3705 S

18-3709 S

A FIVE-YEAR SURVEY OF 152 ACUTE AB-DOMINAL INJURIES. See 15-3709 S

18-3717 S

PENETRATING CARDIAC INJURIES. See 14-3717 S

18-3723 S

CLOSED THORACIC INJURIES, See 13-3723 S

18-3728 S

AUTOPSY FINDINGS IN 127 PATIENTS FOLLOWING FATAL TRAFFIC ACCIDENTS. See 22-3728 S

18-3784 N THE MANAGEMENT OF HEAD INJURIES COMPLI-CATED BY MAJOR EXTRACRANIAL TRAUMA. See 11-3784 N 18-3785 S

PENAL TRAUMA: Experience with 258 cases. See 15-3785 S

18-3790 S

COMPLICATIONS ASSOCIATED WITH FRACTURES OF THE PELVIS. See 16-3790 S

18-3798 S

THORACIC TRAUMA: Analysis of 1022 cases. See 13-3798 S

- 18-3801 S
 - INJURIES OF THE LIVER IN 300 CONSECUTIVE PATIENTS. See 15-3801 S
- 18-3802 S

Solheim, K. PEDESTRIAN DEATHS IN OSLO TRAFFIC ACCI-DENTS. 11 Jan. 1964. 3 p. tables. ref. British Medical Journal, Vol. 1, 11 Jan. 1964, pp. 81-83. EM Pedestrians, People

JNB	Fatal, Injury/Trauma, Accident
L	Time
JNX	Multiple Severe Injuries
EA	Age
EF	Sex
VN	Epidemiology, Disciplines
WSI	Autopsy, Medical, Method
YEF	Data Statistics, Contents, Study-Report Type
JNPJ	Aspiration/Dehydration, Consequences
WSB	First Aid

A 10-year series of 168 pedestrians fatally injured in traffic accidents in Oslo is discussed. These account for 65% of traffic fatalities during same period. Distribution by age and sex, survival period, frequency of injury according to body areas and mortality, and effect of multiple injuries on survival period are tabulated. Intoxication among fatally-injured pedestrians is discussed.

18-3828 S

TRAUMATIC RUPTURE OF AORTA. Special reference to automobile accidents. See 14-3828 S

18-3835 N

Rees, W. D. AGRICULTURAL TRACTOR ACCIDENTS: A description of 14 tractor accidents and a comparison with road traffic accidents. 10 July 1965. 4 p. tables. ref.

British Medical Journal, Vol. 2, 10 July 1965, pp. 63-66.

- JNB Fatal, Injury/Trauma, Accident
- KBK Rural, Terrain/Habitat, Space
- YCK Case Studies, Nature of Study, Study-Report Type VN Epidemiology, Disciplines
- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect
- **JNE** Contusion/Crushing

14 case reports are given. Tractor accidents are shown to have much higher mortality and serious-injury rates than road-traffic accidents, with 25% mortality in injury with overturned tractor. Injuries are of crush type most frequently to trunk. Typical tractor-accident victim is described. Safety frames are recommended.

18-3846 S GUNSHOT WOUNDS OF THE HEART: A review. See 14-3846 S

18-3891 S SURGICAL EXPERIENCE WITH 103 TRUNCAL SHOT-GUN WOUNDS. See 15-3891 S

18-3908 S

INJURY OF THE SUPERIOR MESENTERIC VESSELS SECONDARY TO NONPENETRATING ABDOMINAL **TRAUMA.** See 15-3908 S

18-3912 S

- TREATMENT OF PENETRATING WOUNDS OF THE CHEST. See 13-3912 S
- 18-3931 N

THE INCIDENCE AND MECHANISMS OF SHOCK IN HEAD INJURY. See 22-3931 N

18-3967 S

BESONDERHEITEN BEIM STUMPFEN BAUCH-TRAUMA. [SPECIAL FEATURES OF BLUNT AB-DOMINAL TRAUMA.] See 15-3967 S

18-4002 S

THE COMATOSE INJURED PATIENT. See 11-4002 S

18-4003 N

McFarland, R. A.

RESEARCH ON ACCIDENTAL TRAUMA IN THE ARMED SERVICES: A summary of the research program of the Commission on Accidental Trauma.

Armed Forces Epidemiological Board, Commission on Accidental Trauma, Washington, D.C./ Harvard School of Public Health, Cambridge, Massachusetts. Aug. 1962. 8 p. graphs. tables. ref.

Military Medicine, Vol. 127, No. 8, Aug. 1962, pp. 615-629.

- YCB Research, Nature of Study, Study-Report Type
- VN Epidemiology/Etiology, Disciplines JN
 - Injury/Trauma, Accident

Nonbattle injuries were found to present a serious problem to the Armed Services. "Private motor vehicles result in more fatalities than any other single cause." Author describes the research sponsored in the last ten years by the Commission. Projects were of the following types: epidemiological studies and surveys; studies relating to host factors (personal characteristics of drivers involved in accidents); studies relating to host-agent interrelationships; studies relating to host-agent-environment interrelationships; countermeasure research. Describes two countermeasures which substantially reduced the accident rate, and some other practical application of research results.

18-4007 S

Garrett, J. W./ Braunstein, P. W. THE SEAT BELT SYNDROME. May 1962. 10 p. photos. tables. ref.

Journal of Trauma, Vol. 2, No. 3, May 1962, pp. 220–238.

Conference: American Association for the Surgery of Trauma, 21st annual, 28–30 Sept. 1961, Chicago, Illinois.

- WSC Diagnosis, Medical, Methods
- DMDB Seat Belts, Restraint Systems, Auxiliaries/ Accessories, Vehicle
- YCK Case Studies, Nature of Study, Study-Report Type

Authors studied 2,778 accident-involved automobiles in which at least one occupant was wearing a seat belt. Concluded that seat belts did not significantly increase the frequency or severity of injuries. Found less than 1% of instances of belt failure among 3,325 users. Data statistics: accident type and injuries (with and without belts); highest impact speed; lower torso injuries; type of belt failure.

18-4009 S

Gissane, W./ Bull, J. INJURIES FROM ROAD ACCIDENTS. Birmingham Accident Hospital, Road Injuries Research Group (England). April 1962. 5 p. tables. illus. ref. *The Practitioner*, Vol. 188, April 1962, pp. 489–497.

IN	Injury/	Trauma.	Accident
511	111 01 11		

- VN Epidemiology/Etiology, Disciplines
- EA Age, People
- EF Sex

Details of 350 fatalities. Authors note the severity and multiplicity of these injuries and the high incidence of brain injuries. Discuss the need and some possible mechanisms for prompt and efficient treatment. Describe modifications of vehicle design which might reduce frequency and severity of some types of accidents. Data statistics: mode of transportation, types of injuries and complications; age; sex; survival time.

18-4022 S

CIVILIAN PENETRATING WOUNDS OF THE AB-DOMEN. I. Factors in mortality and differences from military wounds in 494 cases. See 15-4022 S

18-4028 S

SURGICAL CONSIDERATIONS OF NON-PENETRA-TING ABDOMINAL INJURIES, See 15-4028 S

18-4044 S

LE LESIONI DELLA MILZA NEI TRAUMI CHIUSI ED APERTI DELL'ADDOME: Considerazioni su 91 casi. [LESIONS OF THE SPLEEN IN CLOSED AND OPEN TRAUMAS OF THE ABDOMEN: Considerations on 91 cases.] See 15-4044 S 18-4047 S

CLOSED ABDOMINAL INJURIES: An analysis of 168 consecutive cases with particular reference to diagnostic problems. See 15-4047 S

18-4051 S

LESIONS ASSOCIATED WITH CLOSED LIVER IN-JURY: A clinical study of 192 fatal cases. See 15-4051 S

18-4058 N

Ponka, J. L./ Antoni, R. O.

EMERGENCY MANAGEMENT OF THORACO-ABDOMINAL TRAUMA: A study of 275 injury patients. June 1961. 5 p. table. figs.

Henry Ford Hospital Medical Bulletin, Vol. 9, June 1961, pp. 263-270.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- JNG Laceration/Openwound/Penetrating
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- OAF Thorax
- WSE Surgery, Medical, Methods

General findings from 275 cases of thoraco-abdominal trauma between 1953 and 1956 are discussed. Possibility of involvement of multiple organs with both penetrating and nonpenetrating injuries is emphasized. Establishment of adequate airway and maintenance of circulation is first consideration and must be assured before X rays are taken. Essentials for management of chest and upper abdominal injuries are presented, and teamwork by members of different surgical specialties is emphasized.

18-4061 S

Kunz, H./ Domanig, E., Jr./ Howanietz, L. DIE URSACHEN POSTOPERATIVER TODESFÄLLE. [THE CAUSES OF POST OPERATIVE DEATHS.]. Wien Universitat, Chirurgischen Klinik (Austria). 1962. 11 p. tables. graphs. ref. Langenbecks Archiv fuer Klinische Chirurgie, Vol. 299, 1962, pp. 441-460.

JNB Fatal, Injury/Trauma, Accident

- JNP Consequences/Complications
- WSD Surgery, Medical, Methods
- WSC Diagnosis
- VN Epidemiology/Etiology, Disciplines

WSI Autopsy/Pathology

2,596 cases of post-operative death are discussed. In the period 1957-1960, of 557 cases there were 101 in which surgical procedure was needed to treat severe injuries. Trends of the frequencies of various causes of death are shown and discussed. 215 cases were caused by pulmonary embolism.

18-4064 S

PELVIC FRACTURES: Associated intestinal and mesenteric lesions. See 16-4064 S

18-4072 S

ANALYSIS OF FACTORS AFFECTING SURVIVAL AFTER CHEST INJURIES. See 13-4072 S

18-4073 S

PENETRATING RENAL INJURIES: An analysis of 100 cases. See 15-4073 S

18-4081 S

A PROPOS DE 268 TRAUMATISMES THORACIQUES FERMES. [APROPOS OF 268 CLOSED CHEST IN-JURIES. See 13-4081 S

18-4084 S

THE SURGICAL MANAGEMENT OF 640 CONSECU-TIVE LIVER INJURIES IN CIVILIAN PRACTICE. See 15-4084 S

18-4085 S

COMPLICATED PELVIC FRACTURES (WITH CASE REPORTS). See 16-4085 S

18-4092 S

CONSIDERAZIONI STATISTICHE E DI TERAPIA SU 517 TRAUMATIZZATI CRANIO-ENCEFALICI. [STATISTICAL AND THERAPEUTIC CONSIDERA-TIONS ON 517 PATIENTS WITH CRANIOCEREBRAL INJURIES.] See 11-4092 S

18-4106 S

UNRECOGNIZED ABDOMINAL TRAUMA IN PATIENTS WITH HEAD INJURIES. See 15-4106 S

18-4108 S

ASSOCIATED INJURIES IN HEAD INJURED PATIENTS. See 11-4108 S

18-4126 S

INJURIES OF THE LIVER: A review of 111 cases. See 15-4126 S

18-4133 S

Izant, R. J., Jr./ Hubay, C. A.

THE ANNUAL INJURY OF 15,000,000 CHILDREN: A limited study of childhood accidental injury and death. Western Reserve Univ., School of Medicine, Div. of Pediatric Surgery, Cleveland, Ohio/ Univ. Hospitals, Cleveland, Ohio. 1966. 6 p. ref. tables. charts. Journal of Trauma, Vol. 6, No. 1, 1966, pp. 65–74. Conference: American Association for the Surgery of Trauma, 25th annual, 14–16 Oct. 1965, Philadelphia, Pennsylvania.

JN	Injury/T	rauma.	Accident

- EC Children, People
- JNB Fatal
- VN Epidemiology/Etiology, Disciplines

YEF Data Statistics, Contents, Study-Report Type

From 5,646 child accidents treated in an emergency ward, authors project data to estimate national rate of 15,000,000/year. Discuss prevention. Data statistics: number of children treated and total number of patients; age distribution of patients; type of injury; mechanisms of injury (detailed with respect to motor vehicles); hospital admissions and service. 18-4149 S

MAJOR ABDOMINAL INJURIES ASSOCIATED WITH PELVIC FRACTURES. See 16-4149 S

18-4160 S

PENETRATING INJURIES TO THE CHEST: Clinical results in the management of 769 patients. See 13-4160 S

18-4172 N Brunius, U./ Lindgren, S.
SAKERHETSBALTETS SKYDDSEFFEKT: En analys av 210 baltes-fall. [PROTECTION OFFERED BY SAFETY BELTS: An analysis of 210 safety-belt cases.]
1961. 4 p. table. ref.
Nordisk Medicin, Vol. 66, 2 Nov. 1961, pp. 1500-1503. Order No: ST 6332 (English translation).

- JN Injury/Trauma, Accident
- DMDB Seat Belts, Restraint Systems, Auxiliaries/ Accessories, Vehicle
- DMDC Shoulder Harnesses

Study done in Sweden. Authors found no injuries produced or aggravated by use of safety belts. Conclude that maximum protection is offered in front-end collisions and turnover accidents; belt proved useful in 6 out of 10 cases. Data statistics: protective effect of belt; type of collision; speed of vehicle. 8 case histories.

18-4337 S

ROAD ACCIDENTS. See 03-4337 S

18-4500 S

FACTORS IN THE MORTALITY OF CLOSED HEAD INJURIES. See 22:4500 S

18-4518 S

THORACIC INJURIES DUE TO BLUNT TRAUMA. See 13-4518 S

21-3713 S

EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. [AN ANALYSIS OF 827 CASES OF FATAL ACCI-DENTS.] See 24-3713 S

21-3723 S

CLOSED THORACIC INJURIES. See 13-3723 S

21-3748 S

MÖGLICHKEITEN UND GRENZEN ÄRZTLICHER HILFELEISTUNGEN AM UNFALLORT. [POSSIBILI-TIES AND LIMITATIONS OF MEDICAL ASSISTANCE AT THE SCENE OF A DISASTER.] See 02-3748 S

21-3757 N

Testart, J. LA MORT PAR EMBOLIE PULMONAIRE (II). [DEATH FROM PULMONARY EMBOLISM (II).] 8 May 1965. 5 p. biblio. La Presse Medicale, Vol. 73, 8 May 1965, pp. 1355-1360.

JN	Injury/Trauma, Accident		
OALE	Lungs, Respiratory System, Anatomy/Body,		
	Biomedical Aspect		
JNPI	Fat Embolism, Consequences		
YCC	State-of-the-Art, Nature of Study, Study-		
	Report Type		

YEC Bibliography, Contents

General state-of-the-art report: (a) reflex vasospasm, (b) pulmonary arterial hypertension, (c) pulmonary arterial obstruction: infarction, (d) pharmacologyexperiments with various drugs, (e) analogy with the action of certain hormones. Concludes that embolism normally occurs as a mechanical blocking of the arterioles.

21-3758 S

Sprüth, G./ Laur, A. ELEKTROKARDIOGRAPHISCHE FRÜHBEO-BACHTUNGEN BEI LUNGENEMBOLIE. [EARLY ELECTROCARDIOGRAPHIC OBSERVATIONS IN PULMONARY EMBOLISM.]

Feb. 1964. 6 p. tables. figs. ref. Zeitschrift für Kreislaufforschung, Vol. 53, Feb. 1964, pp. 153-163.

- OAKB Heart, Cardiovascular System, Anatomy/Body, **Biomedical Aspect**
- INPI Fat Embolism, Consequences, Injury/Trauma, Accident

OALE Lungs, Respiratory System

YEF Data Statistics, Contents, Study-Report Type

From 1958 through 1962, authors observed 94 cases with 104 occurrences of pulmonary embolism. Only observations within 24 hours of occurrence are discussed in this report. Clinical symptoms are classified as light, medium, or severe. A relatively high incidence of alterations on the EKG is verified within the first 24 hours. An analysis is made to demonstrate some correlation between various irregularities in the EKG and severity of embolism and also to the time of first EKG recorded. Sample EKG's are discussed. The frequency of the S_1Q_3 type of change is compared to findings of other researchers.

21-3879 S

LIVER INJURIES IN NORTHERN IRELAND. See 15-3879 S

21-3882 S

McCarroll, J. R./ Braunstein, P. W./ Weinberg, S. B./ Seremetis, M G./ Cooper, W.

THE PATHOLOGY OF PEDESTRIAN AUTOMOTIVE ACCIDENT VICTIMS.

Cornell Univ. Medical College, Dept. of Public Health/ Cornell Univ. Medical College, Dept. of Surgery/ New York City, Office of the Chief Medical Examiner. 1965. 4 p. figs.

Journal of Trauma, Vol. 5, No. 3, May 1965, pp. 421-426.

Grant No: PHS AC-00019.

Sponsor: National Institutes of Health, Div. of General Medical Sciences/ Public Health Service, Div. of Accident Prevention.

JNB	Fatal, Injury/Trauma, Accident
EM	Pedestrians, People

- WSI Autopsy, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type

200 autopsies are covered in effort to determine internal injuries and to correlate them with typical body-surface lesions. Frequency of principal injuries by body area, their mortality rates, associated injuries, and time to death are discussed for head, neck and spine injuries, lesions of abdomen, and pelvic fractures.

21-3924 N

McManus, J. F. A.

THE AUTOPSY AS RESEARCH.

Indiana Univ. School of Medicine, Dept. of Pathology, Bloomington. 6 Sept. 1965. 3 p. American Medical Association. Journal, Vol. 193, No. 10,

6 Sept. 1965, pp. 808-810.

- WSI Autopsy/Pathology, Medical, Methods
- YER General Discussions, Contents, Study-Report Type

Challenges lack of research in autopsy, claiming that some techniques are thirty to sixty years old, that autopsy is frequently performed by junior pathologists or medical students, and that it is understaffed, underfinanced, and generally neglected.

21-3941 S

THE STAGES OF DEVELOPMENT AND THE ORGANI-ZATION OF THE BIRMINGHAM ACCIDENT HOSPI-TAL. See 01-3941 S

21-3959 S ZUR INITIALEN BEHANDLUNG DER FRISCHEN TRAUMATISCHEN QUERSCHNITTSLÄSION. [ON THE INITIAL TREATMENT OF ACUTE TRAUMATIC SPINAL CORD INJURIES.] See 12-3959 S

21-3961 S ERFAHRUNGEN ÜBER ERSTE ÄRZTLICHE HILFE AM UNFALLORT UND AUF DEM TRANSPORT BEI SCHWERVERLETZTEN UND LEBENSBEDROHTEN. **[EXPERIENCE ABOUT MEDICAL AID AT THE SCENE** OF AN ACCIDENT AND DURING TRANSPORT WITH SEVERELY INJURED PATIENT.] See 03-3961 S

21-4053 N

Massey, T. N., Jr. PULMONARY EMBOLISM: Review of fifty autopsy cases in which pulmonary embolism was the cause or a major contributing cause of death. Feb. 1966. 4 p. tables. ref. North Carolina Medical Journal, Vol. 27, Feb. 1966, pp. 63-66.

- OAL Respiratory System, Anatomy/Body, Biomedical Aspect
- **JNPO** Occlusion/Thrombosis/Clot, Consequences/ Complications, Injury/Trauma, Accident
- WSI Autopsy, Medical, Methods

WSC Diagnosis

Authors conclude that the condition is often unrecognized and usually inadequately treated. Discuss diagnosis and management.

21-4115 S

Gissane, W.

THE BASIC SURGERY OF MAJOR ROAD INJURIES. Birmingham Univ. (England). May 1962. 10 p. tables. photos. fig. ref.

London. Royal College of Surgeons of England. Annals, Vol. 30, May 1962, pp. 281–298. Conference: Royal College of Surgeons of England,

Conference: Royal College of Surgeons of England, Robert Jones Lecture, 14 Dec. 1961.

JN Injury/Trauma, Accident

YCC	State-of-the-Art, Nature of Study, Study-	
	Report Type	
~ ~ ~ ~ ~		

- JNH Fracture
- JNG Laceration/Openwound/Penetrating
- NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect
- OAL Respiratory System, Anatomy/Body, Biomedical Aspect
- JNPL Shock, Consequences/Complications
- YEF Data Statistics, Contents, Study-Report Type

Author describes and discusses incidence, causes, and nature of road injuries. Presents data from 350 necropsies. Discusses injuries to the respiratory system, hemorrhagic shock, multiple injuries, head injuries and open wounds, with particular reference to diagnosis and priority of treatment. Concludes that mortality rate can be reduced by prompt treatment. Describes three-tiered scheme proposed in the Interim Report of the Accident Services Review Committee. Emphasizes the need for comprehensive accident departments. Data statistics: mode of travel; sites of severe injuries; time of death.

21-4119 S

Tonge, J. I./ O'Reilly, M. J. J./ Davison, A./ Derrick, E. H. FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964.

Institute of Forensic Pathology, Dept. of Health, Brisbane (Australia)/ Queensland Institute of Medical Research (Australia). 21 Nov. 1964. 10 p. fig. tables. ref.

Medical Journal of Australia, Vol. II, No. 21, 21 Nov. 1964, pp. 811-821.

- JNB Fatal, Injury/Trauma, Accident
- JN Injury/Trauma
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- WSI Autopsy/Pathology, Medical, Methods
- JKB Ejection, Accident Hazards

Authors present data on 2214 fatalities, derived from necropsies and police records, discuss implications. Data statistics: mode of transportation; year of accident; sex; actual and expected number of fatalities; number of vehicles, fatalities; deaths by time of day; distribution of abdominal injuries; distribution of injuries to neck, spine, pelvis; distribution of upper and lower limb fractures; total number of injuries; total number of victims; injuries per victim; uncomplicated extradural and subdural hemorrhage; cervical fracture; multiple fractures of lower limbs; pneumonia; fat embolism; traumatic asphyxia; blood alcohol levels; burning and drowning; ejection. When large numbers are involved, data are tabulated by mode of transportation and/or period in which accident occurred.

21-4134 S

Schubert, G. E./ Koeberle, H.

THE INCIDENCE OF MORBID-ANATOMICAL EVI-

DENCE OF SHOCK-KIDNEY AND OTHER RENAL DISORDERS IN UNSELECTED AUTOPSY MATERIAL. Tubingen Univ., Institute of Pathology (Germany). May 1966.8 p. figs. tables. ref.

German Medical Monthly, Vol. 11, May 1966, pp. 192-199.

Sponsor: German Research Association, Bonn.

- WSI Autopsy/Pathology, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type OAMB Kidneys, Urogenital System, Anatomy/Body,
- Biomedical Aspect
- JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident

For two groups of 3,400 and 747 cases, authors describe pathological and histological criteria. Found pathological signs of acute renal failure in 4.3% and 10.2%. Clinical indications were present in 33% and 53% of the pathologically diagnosed cases. Incidence of interstitial inflammatory renal lesions was 6.9% and 6%.

21-4164 S

Knight, B.

FATAL PULMONARY EMBOLISM: Factors of forensic interest in 400 cases.

Newcastle-Upon-Tyne Univ. (England). July 1966. 3 p. charts.

Medicine, Science and the Law, Vol. 6, July 1966, pp. 150-154.

- JNB Fatal, Injury/Trauma, Accident
- OALE Lungs, Respiratory System, Anatomy/Body, Biomedical Aspect
- JNPO Occlusion/Thrombosis/Clot, Consequences/ Complications
- YEF Data Statistics, Contents, Study-Report Type VN Epidemiology/Etiology, Disciplines

In 200 coroner's cases and 200 cases drawn from hospital records, massive pulmonary embolism was the primary cause of death. Author presents and analyzes data from both groups. In 60% of cases, death occurred within 3 weeks following a fracture, significant soft tissue trauma, or a surgical operation. In about 25% of cases, death occurred without previous trauma or immobilization. Data statistics: sex; age; cause of embolism; previous trauma; seasonal variation; interval between trauma and embolism; duration of immobilization.

21-4169 S

Gorham, L. W.

A STUDY OF PULMONARY EMBOLISM: Part I. A clinicopathological investigation of 100 cases of massive embolism of the pulmonary artery; diagnosis by physical signs and differentiation from acute myocardial infarction.

New York Hospital-Cornell Medical Center, Dept. of Pathology, July 1961. 8 p. ref. tables.

Archives of Internal Medicine, Vol. 108, July 1961, pp. 8-22.

- JNPO Occlusion/Thrombosis/Clot, Consequences/ Complications, Injury/Trauma, Accident
- OALE Lungs, Repiratory System, Anatomy/Body, Biomedical Aspect
- WSI Autopsy/Pathology, Medical, Methods

NKF Frequency/Time, Operating Conditions, Physical Aspect

YEF Data Statistics, Contents, Study-Report Type

Author studied autopsy and clinical records of 100 patients. Reviews the literature. Lists and describes 12 physical signs which are pathognomic. Data statistics: clinical and pathological analysis; survival time; age; incidence of diagnostic clues; physical signs.

21-4504 S

Van Wagoner, F. H.

DIED IN HOSPITAL: A three-year study of deaths following trauma.

R. E. Thomason General Hospital, El Paso, Texas. July 1961. 5 p. tables. ref.

Journal of Trauma, Vol. 1, July 1961, pp. 401-408.

Conference: American Association for the Surgery of Trauma, 20th annual, 5–7 Oct. 1960, Coronado, California.

WSC Diagnosis, Medical, Methods

WSD Surgery

WSI Autopsy/Pathology

- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type
- JNB Fatal, Injury/Trauma, Accident

606 male soldiers, injured in various types of accidents, who were seen alive at the hospital by a physician and died within two weeks of admission. Author analyzes data and concludes that at least 1/6 of patients would have survived with adequate diagnosis and treatment. Speed in reaching medical attention did not seem to be significant. Data statistics: age; type of trauma; clincial diagnosis; type of accident; interval between injury and admission to hospital; interval between admission and death; autopsy findings; type of treatment; adequacy of treatment.

21-4515 S

LIFE EXPECTANCY, SURVIVAL RATES, AND CAUSES OF DEATH IN CIVILIAN PATIENTS WITH SPINAL CORD TRAUMA. See 12-4515 S

21-4519 S

Deweese, M. S./ Hunter, D. C., Jr. A VENA CAVA FILTER FOR THE PREVENTION OF PULMONARY EMBOLISM.

The Univ. of Michigan, Medical School, Dept. of Surgery, Ann Arbor. May 1963. 9 p. figs. ref. tables.

Archives of Surgery, Vol. 86, May 1963, pp. 852-868.

Conference: Western Surgical Association, 70th annual, 29 Nov.-1 Dec. 1962, St. Louis, Missouri.

WSE Therapeutic, Medical, Methods

JNPO Occlusion/Thrombosis/Clot, Consequences/ Complications, Injury/Trauma, Accident

OALE Lungs, Respiratory System, Anatomy/Body, Biomedical Aspect

YEF Data Statistics, Contents, Study-Report Type

Clinical study of 24 selected patients. Authors discuss rationale for procedure and selection of patients. Describe operative technique. Discuss results. Conclude, in selected patients, procedure may be superior to ligation. List, for each patient: age; sex; primary diagnosis; date of phlebitis onset; anticoagulant therapy; x-ray evidence; operative technique; postoperative course; clinical findings related to lower extremities. Data statistics: postoperative pulmonary emboli; patency of filter. 2 case histories.

22-3705 S

AN ANALYSIS OF 950 FATAL INJURIES. See 25-3705 S

22-3715 S

MÖGLICHKEITEN EINER INTENSIVIERUNG DER ERSTEN HILFE FÜR UNFALLVERLETZTE IN STÄDTEN MIT LANDLICHER UMGEBUNG. [POSSI-BILITIES FOR INTENSIFYING FIRST AID FOR ACCI-DENTS IN CITIES WITH A RURAL ENVIRONMENT.] See 03-3715 S

22-3727 S

Gissane, W./ Bull, J. A STUDY OF 183 ROAD DEATHS IN AND AROUND BIRMINGHAM IN 1960. Birmingham Accident Hospital, Road Injuries Research (England). 1961. 5 p. table.

British Medical Journal, Vol. 1, 17 June 1961, pp. 1716-1720.

Sponsor: Automobile Association.

DE Motor Vehicles, Vehicle

- DEB Motor Cycles
- WSI Autopsy, Medical, Methods
- EM Pedestrians, People
- DBB Bicycles, Nonpowered
- JNX Multiple Severe Injuries, Injury/Trauma, Accident

EA Age

Etiology of trauma is related to sites of severe injuries, fractures, major soft-tissue injuries, and complications. Skull fractures, brain injuries, and severe blood loss have the highest frequency. Of 97 pedestrians killed, 57 were 65 years old or over. Of 34 motorcyclists, 19 were not wearing crash-helmets, and 14 of these sustained severe brain injuries. Points out car design features responsible for some injuries. Concludes that detailed study of necropsy material would be invaluable for research into injuries of all types.

22-3728 S

Perry, J. F., Jr./ McClellan, R. J. AUTOPSY FINDINGS IN 127 PATIENTS FOLLOWING FATAL TRAFFIC ACCIDENTS.

Ancker Hospital, Dept. of Surgery, St. Paul, Minnesota/ Ancker Hospital, Dept. of Pathology, St. Paul, Minnesota/ Minnesota Univ. School of Medicine, Minneapolis. 1964. 3 p. table.

Surgery, Gynecology and Obstetrics, Vol. 119, Sept. 1964, pp. 586-590.

WSI Autopsy, Medical, Methods

DE Motor Vehicles, Vehicle

L Time

NK Operating Conditions, Physical Aspect

- OAI Head, Anatomy/Body, Biomedical Aspect
- OADH Pelvis, Lower Extremity
- JNH Fracture, Injury/Trauma, Accident

OAE Abdomen

YEF Data Statistics, Contents, Study-Report Type

Describe autopsy findings on 127 traffic accident victims who were transported to hospital from 1957–1963. Victims divided into pedestrians, auto occupants, and motorcycle or bicycle riders. Criteria for classifying injuries given. Recommend hospitalizing for observation all accident victims with suspected head injuries, since this was the primary cause of death in all three groups of patients. Article suggests that if data included patients who died at scene of accident, the incidence of cardiovascular injuries would be greater. Recommend exploratory laparotomy of patients with suspected abdominal injuries.

22-3737 S

Koslowski, L./ Thies, W. BERICHT ÜBER 5900 SCHÄDEL-HIRN-TRAUMEN. [REPORT ON 5900 CRANIOCEREBRAL TRAUMAS.] March 1964. 4 p. tables. ref.

Monatsschrift fuer Unfallheilkunde, Versicherungs- und Verkehrsmedizin, Vol. 67, March 1964, pp. 97-103.

- JN Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- WSI Autopsy, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- JNH Fracture
- WSC Diagnosis
- WSE Therapeutic

In a 15 year period, the Surgical Clinic at the University of Freiburg treated 5,000 patients with head and brain trauma. Mortality has remained about the same, while the frequency of occurrence has increased. Etiology of this injury and diagnosis and therapy are discussed. Frequencies of specific injury sites and of different therapies are discussed. Associated injuries and causes of death are tabulated. Central respiratory paralysis, intracranial pressure and hemorrhage, pneumonia and fat embolism account for 88 of 106 fatalities.

22-3738 S

BESONDERE KREISLAUFREAKTIONEN IM AKUTEN STADIUM DER SCHÄDEL-HIRNSCHÄDIGUNGEN. [SPECIAL CIRCULATORY REACTIONS IN THE ACUTE STAGE OF CRANIOCEREBRAL INJURIES.] See 11-3738 S

22-3739 S

Frowein, R. A./ Euler, K. H./ Karimi-Nejad, A. GENZEN DER WIEDERBELEBUNG BEI SCHWEREN HIRNTRAUMEN. [LIMITS OF RESUSCITATION IN SERIOUS BRAIN TRAUMAS.] 17 Nov. 1964. 3 p. figs. ref.

Langenbecks Archiv fuer Klinische Chirurgie, Vol. 308, 17 Nov. 1964, pp. 276-281.

JN	Injury/]	Frauma,	Accident
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- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods
- JNPM Anoxia/Hypoxia, Consequences
- YEF Data Statistics, Contents, Study-Report Type

Authors measured arterial and various P_{02} in patients who suffered trauma to the brain. Survival cases and fatals

shown separately, and cases with and without supply of oxygen to the respiratory system, are tabulated. Fatal cases revealed in the first days after the trauma an inadequate oxygen pressure in the arterial blood supply to the brain, regardless of oxygen supplied to his respiration. Discuss limitations to resuscitative efforts in view of inadequate brain circulation caused by hypertension in brain.

22-3740 S

KOMPLIKATIONEN NACH SCHWEREM GEDECKTEM SCHÄDELHIRNTRAUMA IM KLINISCHEN UND MOR-PHOLOGISCHEN BEFUND, [CLINICAL AND MOR-PHOLOGICAL FINDINGS IN COMPLICATIONS FOL-LOWING SEVERE CLOSED CEREBROCRANIAL TRAUMA.] See 02-3740 S

22-3743 S

DER SCHÄDELVERLETZTE AUS DER SICHT DES ARZTES AM UNFALLORT. [SKULL INJURIES AS SEEN BY THE PHYSICIAN AT THE SITE OF THE ACCIDENT.] See 03-3743 S

22-3744 S

DAS SCHICKSAL DES AM UNFALLORT ÅRZTLICHE VERSORGTEN SCHÄDELHIRENVERLETZTEN. [THE OUTCOME OF THE CEREBROCRANIAL INJURY GIVEN MEDICAL CARE AT THE ACCIDENT SITE.] See 03-3744 S

22-3746 S

DAS AKUTE, SUBAKUTE UND CHRONISCHE SUB-DURALE HEMATOM. [THE ACUTE, SUBACUTE AND CHRONIC SUBDURAL HEMATOMA.] See 11-3746 S

22-3748 S

MÖGLICHKEITEN UND GRENZEN ÄRZTLICHTER HILFELEISTUNGEN AM UNFALLORT. [POSSIBILI-TIES AND LIMITATIONS OF MEDICAL ASSISTANCE AT THE SCENE OF A DISASTER.] See 02-3748 S

22-3754 S

ERSTE BEHANDLUNG DER VERLETZUNGSFOLGEN BEI STRASSENVERKEHRSUNFÄLLEN. [FIRST TREATMENT OF THE COMPLICATIONS OF INJURY WITH TRAFFIC ACCIDENT.] See 23-3754 S

22-3763 S DIE BEDEUTUNG DER BLUTASPIRATION ALS TODESURSACHE BEI UNFÄLLEN. [THE SIGNIFI-CANCE OF ASPIRATION OF BLOOD AS CAUSE OF DEATH IN ACCIDENTS.] See 23-3763 S

22-3765 S Broggi, G./ De Nunno, T. RILIEVI STATISTICI IN 400 CASI DI TRAUMA-TIZZATI CRANICI ACUTI GRAVI. [STATISTICAL DATA ON 400 CASES OF GRAVE ACUTE CRANIAL INJURIES.] Oct. 1963. 12 p. figs. ref. *Minerva Chirurgica*, Vol. 18, Oct. 1963, pp. 891–902. YEF Data Statistics, Contents, Study–Report Type

- OAI Head, Anatomy/Body, Biomedical Aspect
- YEH Diagrams/Plans
- JNE Contusion/Crushing, Injury/Trauma, Accident
- JNFConcussionJNXMultiple Severe Injuries

Selection from 100 cases of skull injury in Turin, 1958–1962. Diagrams reflect negative and positive symptoms. Each diagram shows evolution in time of patients reflecting disturbances at various levels of disintegration. Authors conclude that the conditions of commotion, contusion, and degree of coma do not allow precise evaluation of damage to nervous structures. Evolution of fatalities and surgical cases is shown separately.

22-3769 S

Voris, H. C. FACTORS INFLUENCING MORTALITY IN HEAD IN-JURY.

Loyola Univ. Medical School, Chicago, Illinois/ Cook County Hospital, Chicago, Illinois. Feb. 1945. 3 p. tables. biblio.

Radiology, Vol. 44, Feb. 1945, pp. 166-170.

Conference: Radiological Society of North American, 29th annual, 1-2 Dec. 1943.

OAI Head, Anatomy/Body, Biomedical Aspect

YEF Data Statistics, Contents, Study-Report Type

- OANBC Spinal Cord, Central, Nervous System
- OANBB Brain
- JNX Multiple Severe Injuries, Injury/Trauma, Accident
- EA Age, People
- WSC Diagnosis, Medical, Methods

Reports findings on 2,714 cases of head injury from 1939 to 1942, with a gross mortality rate of 11%. Location and severity of brain injury and age of patient are most important factors influencing mortality. Presence and amount of blood in cerebrospinal fluid is more important than skull fracture as prognostic sign.

22-3931 N

Clark, K.

THE INCIDENCE AND MECHANISMS OF SHOCK IN HEAD INJURY.

Texas Univ., Southwestern Medical School, Dept. of Surgery, Dallas. May 1962. 3 p. tables. ref.

Southern Medical Journal, Vol. 55, May 1962, pp. 513-517.

Sponsor: Dilworth S. Hager Fund.

Conference: Southern Medical Association, Section on Neurology and Psychiatry, 55th annual, 6–9 Nov. 1961, Dallas, Texas.

JNPL Shock, Consequences, Injury/Trauma, Accident

- JNK Hemorrhage
- JNPM Anoxia/Hypoxia

OAI Head, Anatomy/Body, Biomedical Aspects

JN Injury/Trauma

Studies incidence and hidden causes of shock, classifying various pathophysiological mechanisms capable of producing a shock-like state. Included are loss of vasomotor tone, hypovolemic states, and sudden failure of cardiac output. Frequency of causes for hypovolemic shock and hypoxia and respective causes of death are tabulated. Shock in patient with head injury is said to be strongly presumptive of injury elsewhere.

22-3939 S

McLaurin, R. L./ Ford, L. E.

EXTRADURAL HEMATOMA: Statistical survey of forty-seven cases,

Cincinnati Univ., College of Medicine, Dept. of Surgery, Div. of Neurosurgery, Ohio. 1964. 4 p. tables. ref. Journal of Neurosurgery, Vol. 21, 1964, pp. 364-371. Conference: American Academy of Neurological Surgery,

annual, 7–10 Nov. 1962, New Orleans, Louisiana.

YEF	Data Statistics, Contents, Study-Report Type
INK	Hemorrhage, Injury/Trauma, Accident

OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

OAI Head

JNH Fracture

JNF Concussion

WSE Therapeutic, Medical, Methods

WSD Surgery

Case material from eleven years in Cincinnati, showing lower morbidity in young people than in older patients. Relationship of morbidity to associated intracranial injury, lucid interval, fractures, location of hematomas, and status on arrival is shown. Comparison of intervals between injury and operative removal of extradural hematoma revealed highest morbidity in patients operated on within first six hours. Discussion of factors leading to surgical intervention and errors in management are discussed.

22-3947 S

Huang, C. T./ Cook, A. W./ Lyons, H. A.

SEVERE CRANIOCEREBRAL TRAUMA AND RESPIR-ATORY ABNORMALITIES. I. Physiological studies with specific reference to effect of tracheostomy on survival. New York State Univ., Downstate Medical Center, Dept. of Medicine, Pulmonary Disease Div., Brooklyn/ New York State Univ., Downstate Medical Center, Dept. of Surgery, Div. of Neurosurgery, Brooklyn/ Kings County Hospital Center, New York. Nov. 1963. 6 p. tables. figs. ref.

Archives of Neurology, Vol. 9, Nov. 1963, pp. 545–554. Grant No: B–1594 (C3).

Sponsor: Public Health Service.

- OAIA Skull, Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- OAL Respiratory System
- JNP Consequences/Complications, Injury/Trauma, Accident
- JNK Hemorrhage
- XTK Oxygen Supply, Medical, Equipment
- WSI Autopsy/Pathology, Medical, Methods
- VN Epidemiology/Etiology, Disciplines

L Time

YEF Data Statistics, Contents, Study-Report Type

Severe hyperventilation associated with respiratory alkalosis was observed in 52 of 68 patients with severe craniocerebral injuries. Tracheostomy increased survival time but did not affect mortality. Type of injury, age, survival, ratio of dead volume to tidal volume, and incidence of tracheostomy are tabulated. Arterial oxygen saturation is related to days of hospitalization, and relation of arterial carbon dioxide tension to survival. Postmortem examinations of 88 patients with craniocerebral injuries showed greater incidence of pulmonary edema, congestion, atelectasis, and bronchopneumonia in patients without tracheostomy.

22-3953 S

Freytag, E.

AUTOPSY FINDINGS IN HEAD INJURIES FROM FIREARMS.

Maryland Medico-Legal Foundation, Baltimore. Aug. 1963. 6 p. figs. tables. ref.

Archives of Pathology, Vol. 76, Aug. 1963, pp. 111–121. Sponsor: Army Chemical Research and Development Laboratories, Biophysics Div., Maryland.

- WSI Autopsý/Pathology, Medical, Methods
- OAI Head, Anatomy/Body, Biomedical Aspect
- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type L Time
- EA Age, People
- VN Epidemiology/Etiology
- JNP Consequences/Complications

Statistical evaluation of 254 cases. Data statistics: age, sex, and race in relation to suicide, homicide, and accident; presence of alcohol in blood; gross pathological findings of skull and brain; survival time; incidence of operation; caliber of bullet.

22-3974 S

Frowein, R. A.

BEDEUTUNG UND BESONDERHEITEN DER ERSTEN HILFE BEI SCHWEREN SCHÄDEL-HIRNVERLET-ZUNGEN. [IMPORTANCE AND FEATURES OF FIRST AID IN SEVERE CRANIOCEREBRAL INJURIES.] 1964. 3 p. figs. tables.

Monatsschrift fur Unfallheilkunde Versicherungs-, Versorgungs, und Verkehrsmedizin, Vol. 78, 1964, pp. 190-194.

- JN Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- OANBB Brain, Central, Nervous System
- WSB First Aid, Medical, Methods
- NKFD Latency, Frequency/Time, Operating Conditions, Physical Aspect
- OBM Metabolism, Problems

Charts oxygen content (arterial blood) after severe brain trauma for 118 observed cases, data ranging from one to 40 days after injury. Points out dangers of hypoand hyper-ventilation. Oxygen pressure in venous blood in the brain found below the "indifference zone" (28-35 mm Hg) for the fatally injured, particularly in the first days after the injury, within and above the zone for the survivors. Discusses recommended first-aid measures (by physician) as a function of the state of consciousness.

22-3976 S

DER TÖDLICHE VERKEHRSUNFALL AUS DER SICHT DES PATHOLOGEN. [THE FATAL TRAFFIC ACCIDENT FROM THE PATHOLOGIST'S VIEW-POINT.] See 23-3976 S 22-3978 S DER OPERATIONSWAGEN DER CHIRURGISCHEN UNIVERSITÄTSKLINIK HEIDELBERG, [THE MOBILE OPERATION ROOM OF THE CHIRURGISCHE UNI-VERSITÄTSKLINIK HEIDELBERG,] See 03-3978 S

22-3982 S

ERSTE HILFE AM UNFALLORT UNTER EINSCHLUSS DER FEHLER UN GEFAHREN. [FIRST AID AT THE ACCIDENT SITE WITH REFERENCE TO ERRORS AND DANGERS.] See 03-3982 S

22-4068 S

ENTSCHEIDENDE FAKTOREN FÜR DEN BEHAND-LUNGSERFOLG BEIM EPIDURALHAMÄTOM. [DECI-SIVE FACTORS IN THE SUCCESS OF TREATMENT OF EPIDURAL HEMATOMA.] See 114068 S

22-4084 S

THE SURGICAL MANAGEMENT OF 640 CONSECU-TIVE LIVER INJURIES IN CIVILIAN PRACTICE. See 15-4084 S

22-4090 S

ARZTLICHE VERSORGUNG SCHWERVERLETZTER AM UNFALLORT UND AUF DEM TRANSPORT. [TREATMENT BY PHYSICIAN OF THE SEVERELY INJURED, AT THE SCENE OF THE ACCIDENT AND DURING TRANSPORTATION.] See 03-4090 S

22-4098 S

Ruggiero, G./ Leighton, R. S./ Dettori, P./ Columella, F. ACUTE CRANIAL TRAUMA: A preliminary report. Ospedale Maggiore, Bologna (Italy). Nov. 1964. 6 p.

biblio. figs. Acta Radiologica. Diagnosis, Vol. 2, Nov. 1964, pp. 487-496.

WSC Diagnosis, Medical, Methods

- OAI Head, Anatomy/Body, Biomedical Aspect
- JNK Hemorrhage, Injury/Trauma, Accident
- YCK Case Studies, Nature of Study, Study-Report Type

27 cases observed at time of operation are discussed with special reference to radiologic approach. Attention is given to differential diagnosis between extradural and subdural hematoma and to laceration of the brain. State-of-the-art discussion is related to authors' experience.

22-4124 S

EXTRADURAL HAEMATOMA: Observations on 125 cases. See 11-4124 S

22-4143 S

Langfitt, T. W./ Tannanbaum, H. M./ Kassell, N. F. THE ETIOLOGY OF ACUTE BRAIN SWELLING FOL-LOWING EXPERIMENTAL HEAD INJURY. Pennsylvania Hospital, Dept. of Neurosurgery, Philadelphia. Jan. 1966. 6 p. figs. ref. Journal of Neurosurgery, Vol. 24, Jan. 1966, pp. 47–56. Sponsor: John A. Hartford Foundation, Inc., New York.

JN	Injury/Trauma, Accident
OANBB	Brain, Central, Nervous System, Anatomy/
	Body, Biomedical Aspect
VN	Epidemiology/Etiology, Disciplines
YCG	Laboratory Experiment, Nature of Study,
	Study–Report Type
JNE	Contusion/Crushing/Blunt

Authors found that experimental cerebral concussion in 34 cats caused a marked increase in intracranial pressure. Present evidence to support the concept that the rise in pressure is due to cerebrovascular congestion, which in turn is caused by cerebral vasomotor paresis.

22-4337 S

ROAD ACCIDENTS. See 03-4337

22-4500 S

Lewin, W. FACTORS IN THE MORTALITY OF CLOSED HEAD INJURIES.

Radcliffe Infirmary, Oxford, Accident Service (England). 6 June 1953. 6 p. tables. ref. British Medical Journal, Vol. 1, 6 June 1953, pp.

British Medical Journal, Vol. 1, 6 June 1953, pp. 1239-1244.

- OAI Head, Anatomy/Body, Biomedical Aspects
- JNF Concussion, Injury/Trauma, Accident
- JNP Consequences/Complications
- OAF Thorax
- JNK Hemorrhage
- JNX Multiple Severe Injuries
- YEF Data Statistics, Contents, Study-Report Type

1,000 patients. Author describes and discusses principal causes of death, emphasizing that some are preventable or amenable to treatment. Data statistics: mortality; type of brain injury, complications, other injuries.

22-4501 S

22-4503 N

White, J. C. CARE OF THE SEVERELY INJURED PATIENT: Neurosurgical injuries.

Massachusetts General Hospital, Neurosurgical Service, Boston. 14 Dec. 1957. 7 p. photos. ref.

American Medical Association. Journal, Vol. 165, No. 15, 14 Dec. 1957.

Conference: American Medical Association, 106th annual, 7 June 1957, New York.

- OAI Head, Anatomy/Body, Biomedical Aspect
- OAN Nervous System
- JNX Multiple Severe Injuries, Injury/Trauma, Accident
- WSE Therapeutic, Medical, Methods
- WSD Surgery
- OANBC Spinal Cord, Central
- YER General Discussions, Contents, Study-Report Type

Author describes care of the patient with acute craniocerebral injuries during the critical period (at

accident scene and in the hospital). Discusses principal causes of death and the early diagnosis of potentially fatal conditions. Lists factors requiring primary consideration in this type of patient.

22-4504 S

DIED IN HOSPITAL: A three-year study of deaths following trauma. See 21-4504 S

22-4517 S

Freytag, E.

AUTOPSY FINDINGS IN HEAD INJURIES FROM BLUNT FORCES.

Maryland Univ., Baltimore, Div. of Forensic Medicine. April 1963. 6 p. ref. tables. charts.

Archives of Pathology, Vol. 75, April 1963, pp. 402–413. Sponsor: Army Chemical Research and Development Laboratories, Biophysics Div., Maryland.

- JNE Contusion/Crushing/Blunt, Injury/Trauma, Accident
- WSI Autopsy/Pathology, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- OAI Head, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines

1,367 cases. Author analyzes gross pathological findings in cranium and brain. Concludes that secondary lesions in midbrain and pons are the most causative factor in death in head injuries. Discusses midbrain hemorrhages in infants, epidural bleeding, subdural bleeding, subarachnoid hematomas and brain contusions. Found alcohol consumption in 23% cases. Data statistics: gross pathological findings in cranium and skull; causes of death; length of survival; age; race; sex; type of accident; presence of alcohol in the blood at the time of accident.

22-4521 S

Campbell, E./ Whitfield, R. D./ Grizzard, V. T. MORTALITY IN HEAD INJURIES. Albany Hospital, Neurosurgical Service, New York/ Albany Medical College, Dept. of Surgery, New York. 1 Oct. 1950. 3 p. fig. tables. ref. New York State Journal of Medicine, Vol. 50, 1 Oct. 1950, pp. 2273-2276. Conference: Medical Society of the State of New York. 144th annual, 12 May 1950.

- JNB Fatal, Injury/Trauma, Accident
- OAI Head, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study-Report Type
- YCC State-of-the-Art, Nature of Study
- JNP Consequences/Complications
- WSE Therapeutic, Medical, Methods
- XTL Airway Maintenance, Medical, Equipment

718 cases. Authors review general principles of management. Emphasize strict maintenance of clear airway. Conclude that 15 of the 60 fatalities were probably preventable. Data statistics: mortality; primary causes of death; complications.

22-4536 S

KLINISCHE ERFAHRUNGEN IN DER NEURO-CHIRURGISCHEN KLINIK ZÜRICH BEI AKUTEN SCHÄDEL-HIRN-VERLETZUNGEN. [CLINICAL EX-

THE INCIDENCE AND SIGNIFICANCE OF SHOCK IN HEAD INJURY. See 24-4501 S

PERIENCES IN THE NEUROCHIRURGISCHE KLINIK ZURICH WITH ACUTE SKULL AND BRAIN IN-JURIES.] See 11-4536 S

22-4540 S

ACUTE, SUBACUTE AND CHRONIC SUBDURAL HE-MATOMA. See 114540 S

23-2592 S

TRAFFIC INJURY IN BRISBANE. Report of a general survey. See 01-2592 S

23-3703 S

DIE KLINISCHE BEDEUTUNG DER TRAUMA-TISCHEN FETTEMBOLIE. [THE CLINICAL SIGNIFI-CANCE OF TRAUMATIC FAT EMBOLISM.] See 25-3703 S

23-3712 S

TREATMENT OF FLAIL CHEST INJURIES WITH A PISTON RESPIRATOR. See 13-3712 S

23-3713 S

EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. [AN ANALYSIS OF 827 CASES OF FATAL ACCI-DENTS.] See 24-3713 S

23-3715 S

MÖGLICHKEITEN EINER INTENSIVIERUNG DER ERSTEN HILFE FÜR UNFALLVERLETZTE IN STÄDTEN MIT LÄNDLICHER UMGEBUNGE. [POSSI-BILITIES FOR INTENSIFYING FIRST AID FOR ACCI-DENTS IN CITIES WITH A RURAL ENVIRONMENT.] See 03-3715 S

23-3723 S

CLOSED THORACIC INJURIES. See 13-3723 S

23-3729 S

Hansen, V. G. VERKEHRSUNFALL UND ASPIRATIONSTOD. [TRAFFIC ACCIDENTS AND ASPIRATION DEATH.] Institut für gerichtliche Medizin und Kriminalistik der Friedrich-Schiller-Universität Jena. 1957. 5 p. Deutsche Gesundheitswesen, Vol. 12, 1957, pp. 1427-1430.

- YCC State-of-the-Art, Nature of Study, Study-Report Type
- JNPJ Aspiration, Consequences, Injury/Trauma, Accident

Reviews literature covering about 5,000 cases. Reports of aspiration as contributing cause of death vary from 2% to 52%; as sole cause, from 0 to 34%. Contradiction is attributed to differing autopsy criteria and inadequate attention by some researchers to fat embolism.

23-3737 S

BERICHT ÜBER 5900 SCHÄDEL-HIRN-TRAUMEN. [REPORT ON 5900 CRANIOCEREBRAL TRAUMAS.] See 22-3737 S 23-3739 S

GRENZEN DER WIEDERBELEBUNG BEI SCHWEREN HIRNTRAUMEN. [LIMITS OF RESUSCITATION IN SERIOUS BRAIN TRAUMAS.] See 22-3739 S

23-3741 S

PULMONALE UND ENTERALE KOMPLIKATIONEN NACH HIRNSCHÄDIGUNGEN. [PULMONARY AND ENTERAL COMPLICATIONS AFTER BRAIN IN-JURIES.] See 11-3741 S

23-3743 S

DER SCHÄDELVERLETZTE AUS DER SICHT DES ARZTES AM UNFALLORT. [SKULL INJURIES AS SEEN BY THE PHYSICIAN AT THE SITE OF THE ACCIDENT.] See 03-3743 S

23-3744 S

DES SCHICKSAL DES AM UNFALLORT ÄRZTLICH VERSORGTEN SCHÄDELHIRNVERLETZTEN. [THE OUTCOME OF THE CEREBROCRANIAL INJURY GIVEN MEDICAL CARE AT THE ACCIDENT SITE.] See 03-3744 S

23-3748 S

MÖGLICHKEITEN UND GRENZEN ÄRZTLICHER HILFELEISTUNGEN AM UNFALLORT. [POSSIBILI-TIES AND LIMITATIONS OF MEDICAL ASSISTANCE AT THE SCENE OF A DISASTER.] See 02-3748 S

23-3754 S

Carstensen, E./ Ewerwahn, W. J. ERSTE BEHANDLUNG DER VERLETZUNGSFOLGEN BEI STRASSENVERKEHRSUNFÄLLEN. [FIRST TREATMENT OF THE COMPLICATIONS OF INJURY WITH TRAFFIC ACCIDENT.] 16 Aug. 1957. 3 p. fig. ref.

Deutsche Medizinische Wochenschrift, Vol. 82, 16 Aug. 1957, pp. 1338-1340.

- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents
- WSBC Maintaining Airways, First Aid, Medical, Methods
- JNPJ Aspiration/Dehydration, Consequences, Injury/Trauma
- OAI Head, Anatomy/Body, Biomedical Aspect

A brief state-of-the-art report, mentioning the etiology of trauma in Hamburg. Autopsy records for 131 traffic fatalities were studied. 43% of deaths had occurred on the scene or en route to the hospital, 33% within the first 24 hours in the hospital.

Brain injury is the most frequent lethal injury. 58 of the 83 victims with head injury had aspired blood to a certain degree. Authors conducted an experiment, physicians going to the scene of accidents to find how and if aspiration of blood and its consequences could be reduced. Special physician's car arrived at scene of accident after an average delay of 4.6 minutes. In 50% of the calls, they were at the scene prior to arrival of the ambulance. From October 22, 1956 to November 10, 1956, Hamburg had 1928 traffic accidents (about 100/day), with 738 injured persons and 8 fatalities. Physician's car went to 150 calls in this period, 110 of which were traffic accidents, 26 seriously injured. Of these, 21 were unconscious, four had symptoms of fractured basis of the skull, one died on the scene and three died within 12 hours. All four had aspired massive amounts of blood.

Aspiration is said to get to the alveoli in first few seconds or minutes of occurrence, and intubation to maintain airways or suction for clearing trachea is not adequate to prevent complications. Author's opinion is that physician on the scene of accident is not necessary.

23-3763 S

Camerer, J.

DIE BEDEUTUNG DER BLUTASPIRATION ALS TODESURSACHE BEI UNFÄLLEN. [THE SIGNIFI-CANCE OF ASPIRATION OF BLOOD AS CAUSE OF DEATH IN ACCIDENTS.]

18 June 1943. 2 p.

Munchener Medizinische Wochenschrift, Vol. 90, 18 June 1943, pp. 377-378.

- JNPJ Aspiration, Consequences, Injury/Trauma, Accident
- WSI Autopsy, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type

Discusses aspiration of blood, giving skull fracture as frequent cause of bleeding. Autopsy findings, lung conditions, occurrence and distribution of blood in airways are discussed. 100 autopsies in cases of blunt trauma leading to death within three hours showed aspiration of blood as cause of death in 34. Erroneous correlation between cause of death and skull fracture is cited.

23-3767 S

Holczabek, W.

TODESURSACHEN BEI FRISCHEN THORAXVERLET-ZUNGEN. [DEATHS CAUSES IN RECENT THORACIC INJURIES.]

Universität Wien, Institut Für Gerichtliche Medizin (Austria). Aug. 1964. 3 p. ref. figs.

Thoraxchirurgie, Vol. 12, Aug. 1964, pp. 89-93.

JNB Fatal, Injury/Trauma, Accident

- OAF Thorax, Anatomy/Body, Biomedical Aspect
- WSI Autopsy, Medical, Methods

YEF Data Statistics, Contents, Study-Report Type

Author stresses importance of autopsy toward the discovery of new diagnostic and therapeutic methods. With reference to blunt thoracic trauma, author points to four common causes of error in autopsy: (1) undamaged exterior thoracic surface with internal organic injury, (2) unbroken ribs, (3) external closed contusions which can lead to fatal hemorrhages but which are underestimated as cause of deaths, (4) failure to identify fractured ribs or underestimating the severity of multiple rib fractures.

In trauma victims who survived the accident for some time, the main causes of death are direct or indirect consequences of fractured ribs: fat embolism in lungs, reduced ventilation due to pneumo or hemothorax, crushed lungs, pulmonary edema, and aspiration of blood. Blood loss is also a major cause of death. Rare causes of death are discussed. A paragraph gives various references to cases of traumatic rupture of the aorta and survival times (up to 10 days). In author's own material, of 1,589 cases of blunt trauma to the thorax, there were 75 incidences of ruptured aorta (mortality 100%; survival time up to two days, 57% died immediately; 33% survived one hour).

23-3768 S Läuppi, E.

DIE ASPIRATION BEI OPFERN DES STRASSENVER-KEHRS. [THE ASPIRATION IN VICTIMS OF TRAFFIC ACCIDENTS.]

1954.4 p. tables.

Schweizerische Medizinische Wochenschrift, 20 March 1954, pp. 335–338.

- JNPJ Aspiration, Consequences, Injury/Trauma, Accident
- WSI Autopsy, Medical, Methods
- WSBC Maintaining Airways, First Aid
- YEF Data Statistics, Contents, Study-Report Type

A state-of-the-art review. Aspiration of blood or stomach contents was diagnosed in 300 victims of traffic accidents who died within 48 hours of the accident. Of the 43 cases (14%) in which aspiration was considered sole cause of death, 29 died on the scene of the accident and the rest within 6 hours. Some case reports.

23-3777 N

FIRST AID TREATMENT, DIAGNOSIS AND RO-ENTGENOGRAPHY OF MAXILLOFACIAL INJURIES. See 02-3777 N

23-3806 S Davis, C. M INHALED FOREIGN BODIES IN CHILDREN: An analysis of 40 cases. 1966. 3 p. figs. tables. ref. Archives of Discuss in Childhood, Vol. 41, 1966, pp.

Archives of Diseases in Childhood, Vol. 41, 1966, pp. 402-406.

EC Children, People

- JNPJ Aspiration/Dehydration, Consequences, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type OAL Respiratory Systems, Anatomy/Body, Biomedical Aspect

Study material covers period of ten years. Foreign objects were coughed up at hospital in two cases, 37 were removed at bronchoscopy, and one required bronchotomy. Author tabulates nature and radiopacity of foreign bodies, age distribution with an indication of the number of cases in which probable diagnosis was suggested by clinical history, and radiological appearance of lung fields. Diagnosis may be missed in patients with respiratory symptoms without indication of their underlying cause in the clinical history.

23-3812 N

LeJeune, F. E., Jr. FOREIGN BODIES IN THE TRACHEOBRONCHIAL TREE AND ESOPHAGUS. Dec. 1966. 7 p. illus. ref. Surgical Clinics of North America, Vol. 46, Dec. 1966, pp. 1501-1512.

84

- JNPJ Aspiration/Dehydration, Consequences, Injury/Trauma, Accident
- OALD Trachea/Bronchi, Respiratory System, Anatomy/Body, Biomedical Aspect FC
- Children, People YER General Discussions, Contents, Study-Report Type

Major types of foreign bodies found in tracheobronchial tree and esophagus, proper procedure for roentgenographic observation, and techniques for removal of foreign bodies are discussed.

23-3841 S

CLASSIFICATION OF CHEST INJURIES AS AN AID TO TREATMENT. See 13-3841 S

23-3843 S

IMPAIRMENT OF RESPIRATION AFTER SPINAL CORD INJURY. See 12-3843 S

23-3875 S

Robertson, W. G./ Farhi, L. E.

RATE OF LUNG COLLAPSE AFTER AIRWAY OCCLU-SION OF 100% O2 AT VARIOUS AMBIENT PRES-SURES.

New York State Univ., Dept. of Physiology, Buffalo. March 1965. 5 p. figs. ref.

Journal of Applied Physiology, Vol. 20, March 1965, pp. 228-232.

Contract No: AF 33(616)-6823/ NOnr-969 (03).

XTK Oxygen Supply, Medical, Equipment

- OALE Lungs, Respiratory System, Anatomy/Body, Biomedical Aspect
- NKC Pressure, Operating Condition, Physical Aspect WSBC Maintaining Airways, First Aid, Medical, Methods
- Time
- YCG Laboratory Experiment, Nature of Study, Study-Report Type

Study was conducted on rats with tracheal occlusion which breathed O₂ at various ambient pressures. Article presents mathematical relationships found between volume, time, and rate of collapse of lungs following tracheal occlusion.

23-3883 N

Herrero, F. A./ Walton, B. E./ Jurkiewicz, M. J. EMERGENCY MANAGEMENT OF FACIAL FRAC-TURES FOLLOWING AUTOMOBILE ACCIDENTS. Florida Univ., College of Medicine, Dept. of Surgery, Gainesville. Feb. 1965. 5 p. ref. The American Surgeon, Vol. 31, No. 2, Feb. 1965, pp. 85-89.

- JNH Fracture, Injury/Trauma, Accident
- OAIB Face, Head, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods
- YCK Case Studies, Nature of Study, Study-Report Type

Use of seat belts has saved lives but has led to increased incidence of facial fractures. Such fractures per

se do not demand emergency treatment (grace period is about one week), but they are commonly accompanied by other injuries. Emergency treatment of facial fractures includes: clearing airway, controlling hemorrhage, utilizing lateral or prone position to prevent glossal obstruction of airway by unstable mandible, and supportive measures to combat shock. Specific treatments for frontal, nasal, zygoma, maxilla, and mandible fractures are described separately. Report contains two detailed case histories.

23-3889 S

Weston, J. T.

AIRWAY FOREIGN BODY FATALITIES IN CHIL-DREN.

Philadelphia Dept. of Public Health, Office of the Medical Examiner, Pennsylvania. 1965. 5 p. photos.

American Broncho-Esophagological Association. Transactions, Vol. 45, 1965, pp. 105-113.

- OAL Respiratory System, Anatomy/Body, Biomedical Aspect
- EC Children, People
- JNN Asphyxia/Suffocation, Injury/Trauma, Accident
- Case Studies, Nature of Study, Study-Report YCK Type
- WSI Autopsy, Medical, Methods

Details of autopsy findings in fifteen Philadelphia cases, with average age of twenty-five months. Most objects were lodged in larynx, with three instances of mechanical compression of epiglottis by objects in pharynx, two instances of complete obstruction of trachea. No death was attributable to aspiration of regurgitated gastric contents. Most cases arrived dead at hospital five to fifteen minutes after occurrence.

23-3894 N

Schwab, J. M./ Hartman, M. M. THE MANAGEMENT OF THE AIRWAY AND VENTI-LATION IN TRAUMA. Geisinger Medical Center, Dept. of Anesthesiology, Danville, Pennsylvania. Nov. 1964. 11 p. ref.

Medical Clinics of North America, Vol. 48, Nov. 1964, pp. 1577-1597.

- YER General Discussions, Contents, Study-Report Type
- JN Injury/Trauma, Accident
- WSBC Maintaining Airways, First Aid, Medical, Methods
- Х Equipment
- VN Epidemiology, Disciplines
- OANB Central, Nervous System, Anatomy/Body, Biomedical Aspect
- OAL **Respiratory System** WSC

Diagnosis

Nonspecific coverage of concepts of artificial respiration and conditions in which ventilatory assistance is indicated. Advantages and disadvantages of various types of mechanical ventilators and desirable characteristics of pressure-cycled respirator are discussed. Blood-gas studies, Radford nomogram, pressures, wave form, and cardiac output are described. Discuss management of airway and ventilation in trauma according to specific injuries to head, chest, larynx, and thorax.

23-3947 S

SEVERE CRANIOCEREBRAL TRAUMA AND RESPIR-ATORY ABNORMALITIES. See 22-3947 S

23-3964 N

ZUR ERSTVERSORGUNG SCHWERSTER SCHÄDEL-HIRNTRAUMEN. [ON FIRST AID IN VERY SEVERE CRANIOCEREBRAL TRAUMAS.] See 11-3964 N

23-3974 S

BEDEUTUNG UND BESONDERHEITEN DER ERSTEN HILFE BEI SCHWEREN SCHÄDEL-HIRNVERLET-ZUNGEN. [IMPORTANCE AND FEATURES OF FIRST AID IN SEVERE CRANIOCEREBRAL INJURIES.] See 22-3974 S

23-3976 S

Fischer, H.

DER TÖDLICHE VERKEHRSUNFALL AUS DER SICHT DES PATHOLOGEN. [THE FATAL TRAFFIC ACCIDENT FROM THE PATHOLOGIST'S VIEW-POINT.]

June 1962. 5 p. tables. ref.

Monatsschrift für Unfallheilkunde, Versicherungs-, and Verkehrsmedizin, Vol. 65, June 1962, pp. 210–219.

- JNB Fatal, Injury/Trauma, Accident
- WSI Autopsy/Pathology, Medical, Method
- VN Epidemiology/Etiology, Disciplines
- NKFP Period, Frequency/Time, Operating Conditions, Physical Aspect
- JNX Multiple Severe Injuries
- YEF Data Statistics, Contents, Study-Report Type

Author discusses etiology of trauma. Frequency of injuries to skull, brain, upper extremities, lower extremities, pelvis, vertebrae, various abdominal and thoracic organs, is given for the various categories of victims in motor vehicle accidents. Frequency of deaths within 24 hours, 48 hours, one week, two to four weeks after the accident is given. Causes of death as related to time of survival are also tabulated. A literature survey on aspiration as cause of death is discussed.

23-3979 S

NARKOSE UND-INTUBATION AM UNFALLORT UND AUF DEM TRANSPORT IN DAS KRANKENHAUS. [ANESTHESIS AND INTUBATION AT THE SITE OF ACCIDENT AND TRANSPORTATION TO THE HOSPI-TAL.] See 03-3979 S

23-3983 S

ERFAHRUNGEN MIT DEM KÖLNER NOTFALL-ARZTWAGEN AUS UNFALLCHIRURGISCHER SICHT. [EXPERIENCES WITH THE COLOGNE EMERGENCY AMBULANCE FROM THE VIEWPOINT OF ACCIDENT SURGERY.] See 03-3983 S

23-3984 S

ÄRZTLICHE AUFGABEN BEIM TRANSPORT VON SCHWERVERLETZTEN MIT HUBSCHRAUBERN. [TASKS OF THE PHYSICIAN IN THE TRANSPOR-TATION OF SERIOUSLY INJURED PERSONS BY HELICOPTER.] See 04-3984 S 23-4014 S

PATTERNS OF THORACIC INJURIES IN FATAL TRAFFIC ACCIDENTS, See 24-4014 S

23-4036 N

Glass, W. M./ Goodman, M. UNSUSPECTED FOREIGN BODIES IN THE YOUNG CHILD'S ESOPHAGUS PRESENTING WITH RESPIRA-TORY SYMP fOMS.

North Shore Hospital, Dept. of Otolaryngology, Long Island, New York/ Long Island Jewish Hospital, Dept. of Otolaryngology, Long Island, New York. April 1966.6 p. figs. tables. ref.

The Laryngoscope, Vol. 76, April 1966, pp. 605–615. Conference: American Laryngological, Rhinological and Otological Society, Inc., Eastern Section, and New York Academy of Medicine, Section on Otolaryngology; joint meeting, 6 Jan. 1966, New York, New York.

OAJI Esophagus, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect

- WSC Diagnosis, Medical, Methods
- OAL Respiratory System
- EC Children, People

Article emphasizes that esophageal foreign bodies may lead to symptoms which are primarily respiratory rather than esophageal in nature. Nine cases of children under three years old are presented.

23-4045 S

CHEST TRAUMA WITH PNEUMOTHORAX AND HEM-OTHORAX. See 134045 S

23-4046 N

Kennedy, A. C./ Luke, R. G./ Campbell, D./ Cannon, R. N.

COMBINED RENAL AND RESPIRATORY FAILURE AFTER TRAUMA.

Glasgow Royal Infirmary, Artificial Kidney Unit (England)/ Glasgow Royal Infirmary, Respiratory Emergency Unit (England). 21 Dec. 1963. 4 p. tables. figs. ref. *The Lancet*, Vol. 2, 21 Dec. 1963, pp. 1304–1307.

- JN Injury/Trauma, Accident
- OAL Respiratory System, Anatomy/Body, Biomedical Aspect
- OAMB Kidneys, Urogenital System
- YCK Case Studies, Nature of Study, Study-Report Type

Provides case report of 20-year-old male with most intense and lengthy catabolism with acute tubular necrosis on record who survived. Patient sustained multiple injuries including visceral and pulmonary contusions following a fall. Although having no thoracic bony injuries, he needed 33 days of intermittent positivepressure ventilation. Highly efficient artificial kidney was used. Article refers briefly to literature on renal and respiratory complications.

23-4057 N

ACUTE RENAL FAILURE FOLLOWING EXTENSIVE TRAUMA. See 244057 N

23-4084 S

THE SURGICAL MANAGEMENT OF 640 CONSECU-TIVE LIVER INJURIES IN CIVILIAN PRACTICE. See 15-4084 S

23-4090 S

ARZTLICHE VERSORGUNG SCHWERVERLETZTER AM UNFALLORT UND AUF DEM TRANSPORT. [TREATMENT BY PHYSICIAN OF THE SEVERELY INJURED. AT THE SCENE OF THE ACCIDENT AND **DURING TRANSPORTATION.**] See 03-4090 S

23-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

23-4123 S

Kuo, B. W. F.

AIR WAY FOREIGN BODIES: A series of 85 cases. National Taiwan Univ. Hospital, Dept. of Otolaryngology, Taipei. 28 Aug. 1965. 8 p. tables. figs. ref. Formosan Medical Association. Journal, Vol. 64, No. 8, 28 Aug. 1965. pp. 512-527.

- JNN Asphyxia/Suffocation, Injury/Trauma, Accident
- WSBC Maintaining Airways, First Aid, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type Epidemiology/Etiology, Disciplines
- VN
- WSC Diagnosis
- JNP Consequences/Complications

Author describes and discusses types of foreign bodies, site, symptoms, removal, retention period, and unsuccessful cases. Analyzes correlation between location and chief complaints, retention time and complications. Tabulates, for each case: type of foreign body; age; sex; chief complaints; retention time; location; treatment; complications; result.

23-4128 S

Duff, J. H./ Goldstein, M./ McLean, A. P. H./ Agrawal, S. N./ Munro, D. D./ Gutelius, J. R.

FLAIL CHEST: A clinical review and physiological study. Royal Victoria Hospital, Dept. of Surgery, Montreal (Canada)/ McGill Univ., Dept. of Surgery, Montreal (Canada). 1968. 7 p. figs. tables. ref.

Journal of Trauma, Vol. 8, No. 1, 1968, pp. 63-74.

Sponsor: Medical Research Council (Canada)/ Army Dept. (United States)/ Public Health Service.

Conference: American Association for the Surgery of Trauma, 27th annual, 28-30 Sept. 1967, Chicago, Illinois.

OAF	Thorax, Anatomy/Body, Biomedical Aspec
OAFD	Ribs

- JNH Fracture, Injury/Trauma, Accident
- JNPL. Shock, Consequences/Complications
- WSI Autopsy/Pathology, Medical, Methods
- JNP Consequences/Complications, Injury/Trauma, Accident WU
- Testing/Measures
- VN Epidemiology/Etiology, Disciplines
- YEF Data Statistics, Contents, Study-Report Type

Cover 70 cases with physiological studies on seven. Most common cause of death was respiratory failure. Found cardiac deficit in 4 of 7 patients. Authors discuss mortality, management of ventilation, cardiac function and pathophysiology. Conclude that mechanical ventilation helps the patient by decreasing energy expenditure and so reducing oxygen need. Data statistics: nature of injury; location of unstable area of chest wall; delay in diagnosis and mortality; shock and mortality; associated major injuries; methods of management and mortality; major complications; causes of death.

23-4146 S

PENETRATING WOUNDS OF THE ABDOMEN: Analysis of 776 operative cases. See 15-4146 S

23-4337 S

ROAD ACCIDENTS, See 03-4337 S

23-4502 S ACUTE HEAD INJURY: A review of one thousand cases. See 11-4502 S

23-4504 S

DIED IN HOSPITAL: A three-year study of deaths following trauma. See 21-4504 S

23-4513 S

ÜBER DIE RIPPENSERIENFRAKTUREN DURCH VERKEHRSUNFÄLLE UND DEN DERZEITIGEN STANDIHRER BEHANDLUNG, [ON SERIAL RIB FRACTURES CAUSED BY TRAFFIC ACCIDENTS AND THE CURRENT STATUS OF THEIR TREAT-MENT.] See 24-4513 S

23-4534 S

LA CAUSA DI MORTE NEI TRAUMATIZZATI: Studio clinico-statistico ed anatomo-patologico. [CAUSE OF DEATH IN TRAUMATIZED PATIENTS: Clincio-statistical and anatomo-pathologic study.] See 25-4534 S

24-2592 S TRAFFIC INJURY IN BRISBANE. Report of a general survey. See 01-2592 S

24-3701 S

SURGICAL MANAGEMENT OF SPLENIC INJURIES. See 15-3701 S

24-3702 S

ARTERIAL INJURIES OF THE BASE OF THE NECK. See 12-3702 S

24-3710 S Braunstein, P. W./ Skudder, P. A./ McCarroll, J. R./ Musolino, A./ Wade, P. A. CONCEALED HEMORRHAGE DUE TO PELVIC FRAC-TURE.

Cornell Univ. Medical College, New York, New York. 1964.4 p. photos. tables.

Journal of Trauma, Vol. 4, 1964, pp. 832-838.

Conference: American Association for the Surgery of Trauma, 23th annual, 24–26 Oct. 1963, San Francisco, California.

JNK Hemorrhage, Injury/Trauma, Accident

- JNH Fracture
- OAE Abdomen, Anatomy/Body, Biomedical Aspect EM Pedestrians, People
- JNB Fatal

Authors compare an autopsy study in 1959 of 200 fatally injured pedestrians with a study in 1963 of 500 pedestrians struck down by automobiles but not fatally injured. 45% of the fatal group and only 4% of the nonfatal group had pelvic fractures. Warns that pelvic fractures may be a cause of severe and often unrecognized retroperitoneal hemorrhage.

24-3713 S

Brandesky, G./ Lorbek, W.

EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. **[AN ANALYSIS OF 827 CASES OF FATAL ACCI-**DENTS.]

Chirurgischen Universitätsklinik in Wien (Austria). 16 Oct. 1964. 4 p. graphs. tables.

Wiener klinische Wochenschrift, Vol. 76, 16 Oct. 1964. pp. 712-715.

WSI Autopsy, Medical, Methods

- YEF Data Statistics, Contents, Study-Report Type Motor Vehicles, Vehicle DE
- Time
- L
- OAI Head, Anatomy/Body, Biomedical Aspect
- JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- Hemorrhage JNK
- JNX Multiple Severe Injuries
- OAK Cardiovascular System

In a period of nine years, 131,625 emergency cases were seen. Etiology and mortality, age distribution of fatal cases, and frequency of traffic and non-traffic fatalities listed by the type of injury involved are given.

Causes of death are tabulated. Incidence of head and brain injury is highest, second is fat embolism, followed by death from loss of blood.

One hundred and twenty-two cases of lethal fat embolism are tabulated by age, sex, type of fracture, other conditions observed at autopsy, and time elapsed between accident and death. Another tabulation presents diagnosis, age, accident description, condition admission, time of survival and concurrent injuries for special cases of injuries to the heart and great vessels.

Emphasizes conditions where better first aid and/or medical care would have prevented fatal outcome.

Graph reflects time-related mortality curve (in % of total population of fatalities on y axis, and time to death on x axis) for traffic accidents and non-traffic cases.

24-3715 S

MÖGLICHKEITEN EINER INTENSIVIERUNG DER ERSTEN HILFE FÜR UNFALLVERLETZTE IN STÄDTEN MIT LÄNDLICHER UMGEBUNG, [POSSIBILITIES FOR INTENSIFYING FIRST AID FOR ACCIDENTS IN CITIES WITH A RURAL ENVIR-**ONMENT.**] See 03-3715 S

24-3735 N Hügin, W.

ÜBER DIE INDIKATION DER INTRAVENÖSEN UND INTRAARTERIELLEN TRANSFUSION BEIM BLUTUNGS-SCHOCK. [ABOUT THE INDICATION OF INTRA-VENOUS AND INTRA-ARTERIAL TRANS-**FUSION IN HEMORRHAGIC SHOCK.**] 1952. 3 p. ref.

Helvetica Chirurgica Acta, Vol. 19, 1952, pp. 86-91.

JNK Hemorrhage, Injury/Trauma, Accident

- JNPL Shock, Consequences
- WSE Therapeutic, Medical, Methods
- OAKCB Arteries, Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect

State-of-the-art report is given. Intraarterial blood transfusion is preferable to I.V. infusion in certain conditions, and indicated in specific cases. It is useful mainly in severe shock following loss of blood, to secure a rapid rise of the blood pressure as well as replenishment of the vascular system. The advantage is reduced risk of failure of the right cardiac ventricle.

24-3738 S

BESONDERE KREISLAUFREAKTIONEN IM AKUTEN STADIUM DER SCHÄDEL-HIRNSCHÄDIGUNGEN. **[SPECIAL CIRULATORY REACTIONS IN THE ACUTE** STAGE OF CRANIOCEREBRAL INJURIES.] See 11-3738 S

24-3748 S

MÖGLICHKEITEN UND GRENZEN ÄRZTLICHER HILFELEISTUNGEN AM UNFALLORT. [POSSI-BILITIES AND LIMITATIONS OF MEDICAL ASSIS-TANCE AT THE SCENE OF A DISASTER.] See 02-3784 S

24-3755 N

Lindenschmidt, T.O. TRAUMATISCHER UND POSTOPERATIVER SCHOCK. [TRAUMATIC AND POSTOPERATIVE SHOCK.]

25 Oct. 1963. 9 p. figs. ref.

Münchener Medizinische Wochenschrift, Vol. 105, 25 Oct. 1963, pp. 2105-2113.

- JNPL Shock, Consequences, Injury/Trauma, Accident State-of-the-Art, Nature of Study, Study-YCC Report Type
- YCK **Case Studies**
- WSE Therapeutic, Medical, Methods
- JNPI Fat Embolism

Emphasizes importance of immediate infusion of plasma expanders, plasma or blood, and early treatment of shock. Examines influence of pre-existing metabolic disorders on the course of shock and its therapy. Discusses prophylaxis and therapy of fat embolism as cause of shock.

24-3767 S

TODESURSACHEN BEI FRISCHEN THORAXVERLET-ZUNGEN, [DEATH CAUSES IN RECENT THORACIC INJURIES. See 23-3767 S

24-3770 N Atik. M. MASSIVE LIVER INJURY AND SHOCK. Louisville Univ. School of Medicine, Kentucky. Feb. 1966. 2 p. ref. Kentucky Medical Association. Journal, Vol. 64, Feb. 1966, pp. 143-144. Grant No: HE-09431. Sponsor: National Institutes of Health. Conference: American College of Surgeons, Kentucky Chapter, 23 Sept. 1965.

- IN Injury/Trauma, Accident
- Shock, Consequences JNPL
- OAJM Liver, Digestive System/Alimentary Tract, Anatomy/Body, Biomedical Aspect
- YCG Laboratory Experiment, Nature of Study, Study-Report Type
- WSE Therapeutic, Medical, Methods

Author presents clinical material and experimental data to indicate that retention of devitalized liver tissue, rather than loss of functional liver parenchyma, is responsible for severity of shock associated with massive liver injury. Recommendations include partial or total hepatic lobectomy to remove devitalized tissue.

24-3772 S

REPORT ON 41 CASES OF RUPTURE OF THE SPLEEN. See 15-3772 S

24-3784 N

THE MANAGEMENT OF HEAD INJURIES COM-PLICATED BY MAJOR EXTRACRANIAL TRAUMA. See 11-3784 N

24-3787 S

- HEMORRHAGIC SHOCK AND FAT EMBOLISM: A clinical and experimental study. See 25-3787 S
- 24-3790 S

24-3796 S

McPherson, R. C./ Haller, J. A., Jr. THE EFFECT OF DIGITALIZATION IN IRREVER-SIBLE HEMORRHAGIC SHOCK.

Louisville Univ. School of Medicine, Dept. of Surgery, Louisville, Kentucky. 1963. 6 p. tables. ref. figs. Journal of Trauma, Vol. 3, 1963, pp. 243-253.

Sponsor: Kentucky Heart Association.

Conference: American Association for the Surgery of Trauma, 22nd annual, 29-31 Oct. 1962, Hot Springs, Virginia.

- JNPL Shock, Consequences, Injury/Trauma, Accident OAKB Heart, Cardiovascular System, Anatomy/Body, **Biomedical Aspect**
- YCG Laboratory Experiment, Nature of Study, Study-Report Type

35 dogs in three groups were given ouabain either after irreversible shock was established, prior to hemorrhage, or during hemorrhage. Results indicate myocardial failure

takes place during shock but is not related to onset of irreversibility. Results do not justify use of digitalis preparations to prevent irreversible shock, but only to support myocardium during rapid or massive blood replacement.

24-3792 S

CAUSES OF SHOCK WITH HEAD INJURY. See 11-3792 S

24-3798 S THORACIC TRAUMA: Analysis of 1022 cases. See 13-3798 S

24-3801 S INJURIES OF THE LIVER IN 300 CONSECUTIVE PATIENTS. See 15-3801 S

24-3804 S

Sambhi, M. P./ Weil, M. H./ Udhoji, V. N. ACUTE PHARMACODYNAMIC EFFECTS OF GLUCO-CORTICOIDS: Cardiac output and related hemodynamic changes in normal subjects and patients in shock. Southern California Univ. School of Medicine, Shock Research Unit/ Southern California Univ. School of Medicine, Dept. of Medicine/ Los Angeles County Hospital, California. 1965. 5 p. figs. ref. tables. Circulation, Vol. XXXI, April 1965, pp. 523-530. Grant No: H-5570. Sponsor: John A. Hartford Foundation, Inc., New York/ National Heart Institute.

- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- JNPL Shock, Consequences, Injury/Trauma, Accident Field Experiment, Nature of Study, Study-YCH
- Report Type YEF Data Statistics, Contents

Cardiac output and intravascular pressure were measured before and after large doses of glucocorticosteroids were administered intravenously to nine normal and nine

unselected subjects and nine patients in shock. Pharmacologic effects, their possible underlying mechanisms, and implications for treatment of shock are discussed.

24-3809 N

Weil, M. H./ Shubin, H./ Rand, W.

EXPERIENCE WITH A DIGITAL COMPUTER FOR STUDY AND IMPROVED MANAGEMENT OF THE CRITICALLY ILL.

Southern California Univ. School of Medicine, Shock Research Unit/ Los Angeles County General Hospital, California. 28 Nov. 1966. 6 p. ref. figs.

American Medical Association. Journal, Vol. 198, No. 9, 28 Nov. 1966, pp. 1011-16.

- WNB Models/Modeling, Systems Analysis/Operations Research, Methods
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- XK Computers, Equipment
- JNPL Shock, Consequences, Injury/Trauma, Accident YCB Research, Nature of Study, Study-Report Type

COMPLICATIONS ASSOCIATED WITH FRACTURES OF THE PELVIS. See 16-3790 S

Describes the Shock Research Unit and computer system, including reliable operation unattended by specialized computer personnel. Information on patient condition is obtained by sensing devices including pressure transducers, electrodes for EKG, thermistors, an optical desitometer to determine cardiac output, and a unit to measure urine flow. Signals are coded, checked, and printed out for the attending physician. As often as every five minutes, cardiac output, peripheral vascular resistance, appearance and mean circulation time of dye, central blood volume, and total work of the heart are automatically reported. Plasma volume, red blood cell mass, pH, Pco2, and Po₂ are determined. Arterial and venous pressures, heart and respiratory rate, temperature, and urine output may be obtained every minute.

Limitations of present system are discussed. Data will be used for simulation studies, statistical analyses, construction of mathematical models of basic pathophysiology, and techniques for using models to simulate and predict the effects of treatment.

24-3810 N

Shubin, H./ Weil, M. H.

EFFICIENT MONITORING WITH A DIGITAL COMPU-TER OF CARDIOVASCULAR FUNCTION IN SERI-OUSLY ILL PATIENTS.

Southern California Univ. School of Medicine, Shock Research Unit/ Los Angeles County General Hospital, California. Sept. 1966. 5 p. ref. figs. tables.

Annals of Internal Medicine, Vol. 65, No. 3, Sept. 1966, pp. 453-460.

- WNB Models/Modeling, Systems Analysis/Operations Research, Methods
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- XK Computers, Equipment
- JNPL Shock, Consequences, Injury/Trauma, Accident
- YCB Research, Nature of Study, Study-Report Type
- L Time

Describe the functions of an IBM 1710 installed at Los Angeles County General Hospital to permit rapid quantitative assessment of hemodynamic, metabolic, and respiratory status of patients brought to Shock Research Unit. Various sensors provide readings for temperature, ECG, central venous pressure, arterial pressure, dye dilution curves for cardiac output and output of urine; respiratory, heart, and pulse rates are also established. Data are used to develop mathematical models of patient response to various modes of treatment.

24-3822 N

Weil, M. H./ Shubin, H./ Rosoff, L.

FLUID REPLETION IN CIRCULATORY SHOCK: Central venous pressure and other practical guides.

Southern California Univ. School of Medicine, Shock Research Unit/ Southern California Univ., School of Medicine, Dept. of Medicine/ Southern California Univ. School of Medicine, Dept. of Surgery/ Los Angeles County Hospital, California. 24 May 1965. 7 p. figs. ref. *American Medical Association. Journal*, Vol. 192, No. 8, 24 May 1965, pp. 84–90.

JNPL Shock, Consequences, Injury/Trauma, Accident WUPD Blood Pressure, Physiological, Testing/ Measures, Methods

YER General Discussions, Contents, Study-Report Type

Discuss measurement of central venous pressure and its importance for evaluating patient in shock. Measurement of central blood pressure provides diagnosis for "pseudoshock" of heart failure. Pulse rate, hemoglobin and hematocrit values do not reflect severity or cause of shock and fail as dependable guides for the bedside physician. Management of shock is discussed. Case report is given.

24-3829 S

PENETRATING WOUNDS OF THE PERICARDIUM OR ITS CONTENTS, See 14-3829 S

24-3832 S

Longerbeam, J. K./ Vannix, R./ Wagner, W./ Joergenson, E.

CENTRAL VENOUS PRESSURE MONITORING: A useful guide to fluid therapy during shock and other forms of cardiovascular stress. Aug. 1965. 6 p. figs. ref. tables.

American Journal of Surgery, Vol. 110, Aug. 1965. pp. 220-230.

Conference: Pacific Coast Surgical Association, 22–25 Feb. 1965, Vancouver, British Columbia.

- WSE Therapeutic, Medical, Methods
- JNPL Shock, Consequences, Injury/Trauma, Accident
- WUPD Blood Pressure, Physiological, Testing/Measures
- JNP Consequences
- YER General Discussions, Contents, Study-Report Type

Historical review contains summary of technical advances in cannulation of central venous system and monitoring. Anatomy of subclavian area and authors' technique successfully employed on 115 patients are described in detail. Central venous pressure is rarely a linear function of blood volume but relates to rate of venous return compared with myocardial competency.

24-3838 S

RATIONAL APPROACH TO MANAGEMENT OF CLIN-ICAL SHOCK.

St. Joseph Hospital, Dept. of Research, Denver, Colorado/ Colorado Univ., Medical Center, Dept. of Surgery, Denver. July 1965. 15 p. tables. ref.

Archives of Surgery, Vol. 91, July 1965, pp. 92-120.

Conference: Central Surgical Association, 22nd annual, 4-6 March 1965, Milwaukee.

- WSE Therapeutic, Medical, Methods
- JNPL Shock, Consequences, Injury/Trauma, Accident
- YCD Survey, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents
- YEG Tables/Graphs
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WUPDBlood Pressure, Physiological, Testing/MeasuresYCKCase Studies

Chief problem in management of shock is to identify accurately the circulatory defect present. Sequence in management is establishment of adequate respiratory

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Wilson, J. N.

support, ruling out of hypovolemia, evaluation of cardiac insufficiency, and consideration of decreased vascular tone. Three types of clinical shock are hypovolemia, cardiac insufficiency, and deficient vascular tone. Each type has a unique combination of physiologic characteristics which can be identified at the bedside with light reflection oximetry and central venous pressure monitoring. Paper is based on observations of 52 patients, and detailed data on 13 is presented in charts.

24-3842 S

INJURIES OF THE KIDNEY, See 15-3842 S

24-3844 S

Shubin, H./ Weil, M. H.

THE MECHANISM OF SHOCK FOLLOWING SUICI-DAL DOSES OF BARBITURATES, NARCOTICS AND TRANQUILIZER DRUGS, WITH OBSERVATIONS ON THE EFFECTS OF TREATMENT.

Southern California Univ. School of Medicine, Shock Research Unit/ Los Angeles County Hospital, California. June 1965. 6 p. figs. tables. ref.

American Journal of Medicine, Vol. 38, June 1965, pp. 853-863.

Grant No: HE-05570/ HE-07811.

Sponsor: John A. Hartford Foundation, Inc., New York/ Public Health Service.

- JNPL Shock, Consequences, Injury/Trauma, Accident PCCC Suicide, Typologies/Clinical Diagnosis, Personality, Psychological Apsect
- YEG Tables/Graphs, Contents, Study-Report Type YEF Data Statistics
- WUPD Blood Pressure, Physiological, Testing/ Measures, Methods
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect

Describe mechanism of shock and treatment in fifteen potential suicide cases, five of whom died. Hypotension and clinical features of shock were attributable to either an absolute reduction in plasma volume or a relative hypovolemia in relation to an expanded vascular bed.

The hemodynamic findings were compared with those of a control group, and the significance level of the difference was established. The effect of infusion of a large amount of cristalloids on the cardiac output, aterial pressure, venous pressure, and urinary flow were tested. Serial measurements in relation to treatment in time after admission (from one-half hour to 32 hours) are given for metaraminol and levarterenol.

24-3866 S

NONPENETRATING INJURIES OF ABDOMEN CAUSING RUPTURE OF SPLEEN: Report of 100 cases. See 15-3866 S

24-3879 S

LIVER INJURIES IN NORTHERN IRELAND. See 15-3879 S

24-3882 S

THE PATHOLOGY OF PEDESTRIAN AUTOMOTIVE ACCIDENT VICTIMS. See 21-3882 S

24-3890 N

Wilson, J. N.
TREATMENT OF TRAUMATIC SHOCK.
St. Joseph's Hospital, Dept. of Research, Denver, Colorado. 1965. 8 p. tables. fig.
Modern Treatment, Vol. 2, 1965, pp. 708-723.

- WSE Therapeutic, Medical, Methods
- JNPL Shock, Consequences, Injury/Trauma, Accident
- WU Testing/Measures, Methods
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect

Evaluating cause of shock in a given patient as a basis for corrective therapy, hemodynamic criteria to classify shock are discussed. Functional tests are indicated for hypovolemia, cardiac insufficiency, and deficient vascular tone. An order of examination is advised to reach diagnosis. Use of vasopressor drugs and observation of urinary output are mentioned.

24-3891 S

SURGICAL EXPERIENCE WITH 103 TRUNCAL SHOT-GUN WOUNDS. See 15-3891 S

24-3896 S

Smith, L. L./ Muller, W./ Hinshaw, D. B. THE MANAGEMENT OF EXPERIMENTAL ENDO-TOXIN SHOCK: The circulatory effects of Levarterenol, Hydrocortisone, Phenoxybenzamine, Hydrochloride, and blood volume expansion. Loma Linda Univ., School of Medicine, Dept. of Surgery, Los Angeles, California/ Loma Linda Univ., School of Medicine, Surgical Research Laboratory, Los Angeles, California. Oct. 1964. 4 p. graphs. ref. Archives of Surgery, Vol. 89, Oct. 1964, pp. 630–636. Grant No: HE-4639. Sponsor: National Heart Institute.

- WSIAutopsy, Medical, MethodsJNPLShock, Consequences, Injury/Trauma, Accident
- WSDF Experimental, Surgery
- YCG Laboratory Experiment, Nature of Study, Study-Report Type
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect
- WU Testing/Measures

Shock associated with infection is a serious complication with high mortality. Laboratory experiments with 30 dogs provided information regarding effect of vasopressors and corticosteroids on cardiovascular system in experimental endotoxin shock, which resembles septic shock. Hepatic outflow obstruction appears to be cause of acute heptic congestion and portal hypertension observed after administration of endotoxin. Pharmacologic doses of corticosteroids improved blood pressure, cardiac output, and survival. Plasma–volume expansion with dextran was most beneficial overall method.

24-3897 S

Lillehei, R. C./ Longerbeam, J. K./ Bloch, J. H./ Manax, W. G.

THE NATURE OF IRREVERSIBLE SHOCK: Experimental and clinical observations.

Minnesota Univ., Medical School, Dept. of Surgery, Minneapolis. Oct. 1964. 15 p. figs. graphs. tables. ref. Annals of Surgery, Vol. 160, No. 4, Oct. 1964, pp. 682–710. Grant No: 02941. Contract No: DA049–193–MD–2539. Sponsor: Army Medical Research and Development Command/ Minnesota Heart Association.

- JNPL Shock, Consequences, Injury/Trauma, Accident YCG Laboratory Experiment, Nature of Study,
- Study-Report TypeYEFData Statistics, Contents
- YEG Tables/Graphs
- WU Testing/Measures. Methods
- OAK Cardiovascular System, Anatomy/Body, Biomedical Aspect

Poor response to blood or blood infusion is criterion for irreversible shock, frequently caused by infection with gram-negative bacteria. Through laboratory experiments involving hundreds of dogs, authors observed shock induced by hemorrhage, bacterial endotoxins, epinephrine, and myocardial failure. Authors deduce "unitarian" theory of nature of shock, i.e., hemodynamic disturbance of peripheral vascular system in both its reversible and irreversible manifestations. Period of reversible shock lasts 2–3 hours in dog, regardless of original insult. Authors currently use hydrocortisone or phenoxybenzamine to remedy disturbed peripheral circulation in treating shock from all causes.

- 24-3898 N
 - Hopkins, R. W./ Fratianne, R./ Penn, I./ Sabga, G./ Simeone, F. A.

CONTROLLED HYPOTENSION IN THE MANAGE-MENT OF SEVERE HEMORRHAGE.

Western Reserve Univ. School of Medicine, Dept. of Surgery, Cleveland, Ohio/ Cleveland Metropolitan General Hospital, Ohio. Oct. 1964. 7 p. graphs. figs. ref.

Annals of Surgery, Vol. 160, No. 4, Oct. 1964, pp. 669-681.

Contract No: DA-49-193-MD-2022.

- JNK Hemorrhage, Injury/Trauma, Accident
- WUPD Blood Pressure, Physiological, Testing/ Measures, Methods
- WSE Therapeutic, Medical

Time

- L
- YCK Case Studies, Nature of Study, Study-Report Type

Discuss use of trimethaphan camphorsulfonate to produce controlled normovolemic hypotension. Case reports of five patients include one with ruptured aorta, another with multiple pelvic injuries. Bleeding was markedly reduced with application of trimethaphan. Normovolemic hypotension appeared to be tolerated well.

24-3903 S

Schweizer, O./ Howland, W. S.

METABOLIC CHANGES ASSOCIATED WITH HEMOR-RHAGIC SHOCK.

Memorial Hospital Sloan-Kettering Cancer Center, Dept. of Anesthesiology, New York. July-Aug. 1964. 7 p. tables, ref.

Anesthesia and Analgesia. . . Current Researches, Vol. 43, No. 4, July-Aug. 1964. pp. 420-432.

Conference: International Anesthesia Research Society, 38th Congress, 15–19 March 1964, Las Vegas, Nevada.

- JNK Hemorrhage, Injury/Trauma, Accident
- JNPL Shock, Consequences
- YEF Data Statistics, Contents, Study-Report Type
- WSD Surgery, Medical, Methods
- VN Epidemiology, Disciplines

In study of 24 cases, authors observed marked rise in lactate and pyruvate in all patients who received massive blood replacements, indicating that the use of sodium bicarbonate may effectively reduce mortality in patients who receive over 10 units of bank blood. Data statistics: analysis of bank blood; preoperative complications; operation, duration of operation, and anesthetic agent; pyruvate, lactate and bicarbonate levels; changes in pyruvate and lactate levels during operation.

24-3934 N

Crowell, J. W./ Smith, E. E.

OXYGEN DEFICIT AND IRREVERSIBLE HEMOR-RHAGIC SHOCK.

Mississippi Univ. Medical Center, Dept. of Physiology and Biophysics, Jackson. Feb. 1964. 4 p. figs.

American Journal of Physiology, Vol. 206, Feb. 1964, pp. 313–316.

Sponsor: National Institute of Health/ American Heart Association.

- JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident
- JNPM Anoxia/Hypoxia
- YCG Laboratory Experiment, Nature of Study, Study-Report Type
- WU Testing/Measures, Methods
- YEG Tables/Graphs, Contents, Study-Report Type

Authors describe method for quantitative measurement of hypoxia in dogs. They determined LD_{50} . According to this criterion, digitalization increased survival. Dibenzylene, epinephrine, norepinephrine, and prior conditioning to shock had no effect.

24-3935 S

Gomez Povina, O. A./ Canepa, J. F./ Mejia, R. H. SURVIVAL TIME IN DIFFERENT TYPES OF SHOCK WITH SIMILAR HYPOVOLEMIC LEVELS. 1964. 3 p. tables. ref.

Acta Physiologica Latino Americana, Vol. 14, 1964, pp. 361–365.

L Time JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident JNK Hemorrhage

YCG Laboratory Experiment, Nature of Study, Study-Report Type

Assuming that hypovolemia is not the only factor determining length of survival in non-hemorrhagic hypovolemic shock, experiment compared survival time of dogs subjected to similar levels of hypovolemia hemorrhagic and non-hemorrhagic hypovolemia-inducing techniques. Techniques included occlusion of portal vein, simultaneous occluation of portal vein and hepatic artery, and acute hemorrhage. Total interruption of hepatic irrigation was followed by significant decrease in survival time compared to reduced hepatic flow. 24-3940 S

Blair, E./ Henning, G./ Esmond, W. G./ Attar, S./ Cowley, R. A./ Michaelis, M.

THE EFFECT OF HYPERBARIC OXYGENATION (OHP) ON THREE FORMS OF SHOCK---TRAUMATIC, HEMORRHAGIC, AND SEPTIC.

Maryland Univ. School of Medicine, Dept. of Surgery, Clinical Shock Unit, Baltimore/ Maryland Univ. School of Medicine, Dept. of Surgery, Research Laboratories, Baltimore. 1964. 6 p. figs. ref.

Journal of Trauma, Vol. 4, 1964, pp. 652-663.

Grant No: DA-48-193-MD-2229/ HE-06154-2/ 5-K3-HE-4232-03.

Sponsor: Army Research and Development Command/ Public Health Service.

Conference: American Association for the Surgery of Trauma, 23rd annual, 24–26 Oct. 1963, San Francisco, California.

JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident

XTK Oxygen Supply, Medical, Equipment

- JNK Hemorrhage
- YEF Data Statistics, Contents, Study-Report Type
- YCG Laboratory Experiment, Nature of Study

Shock was induced experimentally in dogs and rats. Heart rate, mean arterial blood pressure, arterial oxygen, arterial Pco2, and pH are shown before and during shock, and after reinfusion for hemorrhagic and septic shock. Effect of hyperbaric oxygenation on survival is shown for all three types. Dogs failed to respond to OHP only in bacteremic shock. Authors question validity of the proposed unitary theory for the irreversibility of shock.

24-3952 N

Wolfson, L. J.

BLOOD LOSS IN TRAUMA.

Birmingham Accident Hospital (England). Sept. 1963. 4 p. ref.

London. Royal College of Surgeons of England, Annals, Vol. 33, Sept. 1963. pp. 158-164.

- JNK Hemorrhage, Injury/Trauma, Accident
- JNX Multiple Severe Injuries
- YER General Discussion, Contents, Study-Report Type
- YCC State-of-the-Art, Nature of Study

General discussion is presented by consultant anaesthetist at Birmingham Accident Hospital. Discusses multiple sources of bleeding, assessment of blood loss, and clinical results. Author believes that quantities of blood required in major injuries are greatly in excess of those commonly used and warns against treating shock while neglecting oligaemia.

24-3954 N

Peterson, C. G./ Haugen, F. P.

HEMORRHAGIC SHOCK AND THE NERVOUS SYSTEM.

Oregon Univ. Medical School, Dept. of Surgery, Portland/ Oregon Univ. Medical School, Div. of Anesthesiology, Portland. Aug. 1963. 6 p. figs. ref.

American Journal of Surgery, Vol. 106, Aug. 1963, pp. 233-242.

Grant No: NB-02082.

Sponsor: National Institutes of Health/ Public Health Service/ Oregon Heart Association.

Conference: Pacific Coast Surgical Association, annual, 3–6 Feb. 1963, Palm Springs, California.

- JNPL Shock, Consequences, Injury/Trauma, Accident OAN Nervous System, Anatomy/Body, Biomedical Aspect
- YCG Laboratory Experiment, Nature of Study, Study-Report Type

YCC State-of-the-Art

Article presents preliminary report on laboratory experiments investigating nervous system activity during reversible and irreversible phase of graded hemorrhagic shock. Electrophysiologic techniques and Western Reserve shock model were used. Findings are consistent with interpretation that central nervous system deterioration in hemorrhagic shock is consequence of progressive oxygen debt.

24-3958 N

Yasargil, E. C.

SCHOCKBEGRIFF IM WANDEL DER ZEITEN UND HEUTE. III: Richtlinien zur systematischen Behandlung des Schocks und der Fettembolie. [CONCEPT OF SHOCK IN THE PAST AND TODAY. 3. Directions for the systematic treatment of shock and fat embolism.] Chirurgischen Universitätsklinik Basel (Germany). 22

Aug. 1964. 8 p. tables. ref.

Schweizerische Medizinische Wochenschrift, Vol. 94, 22 Aug. 1964, pp. 1165–1172.

- JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident
- JNPI Fat Embolism
- WSE Therapeutic, Medical, Methods

Author discusses urinary flow, venasection, pulse and BP control, determination of blood loss, pain relief drugs, oxygen supply, X rays, intubation, tracheostomy, drainage of the pleura, emergency thoracotomy, laparoscopy, and laparotomy as diagnostic measures and controls, then presents various kinds of therapy, including those for conditions of fat-embolism.

24-3968 N

Lindenschmidt, T. O.

TRAUMATISCHER SCHOCK: Pathophysiologische Grundlagen-Therapeutische Konsequenzen. [TRAUMA-TIC SHOCK: Pathophysiological causes-therapeutic results.]

Chirurgischen Abteilung des Allgemeinen Krankenhauses Barmbek, II, Hamburg (Germany). April 1965. 5 p. figs. ref.

Chirurg, Vol. 36, April 1965, pp. 145-149.

- JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident
- WSE Therapeutic, Medical, Methods
- OBM Metabolism, Problems, Biomedical Aspect
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- JNP Consequences/Complications

Author discusses shock, defining various types of shock and giving a recommended therapy for each. On the basis of a series of examples of brain injury associated with other conditions of trauma (fat embolism, pulmonary edema, anoxia, cardiac arrest, fractures), author discusses his own experience. The condition of shock in diabetics is discussed.

24-4005 S ANALYSIS OF 500 STAB WOUNDS OF THE AB-DOMEN. See 15-4005 S

24-4014 S

Kemmerer, W. T./ Eckert, W. G./ Gathright, J. B./ Reemtsma, K./ Creech, O., Jr.

PATTERNS OF THORACIC INJURIES IN FATAL TRAFFIC ACCIDENTS.

Tulane Univ. School of Medicine, Dept. of Surgery, New Orleans, Louisiana/ Charity Hospital, Tulane Surgical Service, New Orleans, Louisiana. Nov. 1961. 3 p. tables. *Journal of Trauma*, Vol. 1, Nov. 1961, pp. 595–599.

- JNB Fatal, Injury/Trauma, Accident
- OAF Thorax, Anatomy/Body, Biomedical Aspect
- VN Epidemiology/Etiology, Disciplines
- OAL Respiratory System
- OAKC Blood Vessels, Cardiovascular System
- YEF Data Statistics, Contents, Study–Report Type

Analysis of 585 traffic deaths showed 294 with significant thoracic injuries. Authors present and discuss data. Data statistics: types of thoracic injuries; thoracic injuries in 29 cases of sternal fracture; thoracic injuries in 30 cases of ruptured diaphragm; location of thoracic great vessel injury in 58 cases.

24-4020 S

Clarke, R./ Topley, E./ Fisher, M. R./ Davies, J. W. L. EXTENT AND TIME OF BLOOD-LOSS AFTER CIVILIAN INJURY.

Birmingham Accident Hospital, Industrial Injuries and Burns Research Unit (England). 19 Aug. 1961. 6 p. graphs. ref.

The Lancet, Vol. 2, 19 Aug. 1961, pp. 381-386.

- JN Injury/Trauma, Accident
- JNK Hemorrhage
- NKFP Period, Frequency/Time, Operating Conditions, Physical Aspect
- OARC Blood, Body Fluids, Anatomy/Body, Biomedical Aspect
- WU Testing/Measures, Methods

Total blood loss in 140 patients. Repeated estimations of blood volume in 75 patients. Authors describe and discuss blood loss from different sites of injury. Discuss measurement and clinical assessment of blood loss. Tabulate and graph blood loss, according to time, for selected injuries.

24-4022 S

CIVILIAN PENETRATING WOUNDS OF THE AB-DOMEN. See 15-4022 S

24-4043 N

Cook, F. W./ Haller, J. A., Jr. PENETRATING INJURIES OF THE SUBCLAVIAN VESSELS WITH ASSOCIATED VENOUS COMPLICA-TIONS. Louisville Univ. School of Medicine, Dept. of Surgery, Kentucky/ Louisville General Hospital, Kentucky. March 1962. 2 p. figs. biblio.

Annals of Surgery, Vol. 155, No. 3, March 1962, pp. 370-372.

Sponsor: Louisville and Jefferson County Heart Association, Kentucky.

Conference: Kentucky Surgical Society, May 1961, French Lick, Indiana.

- JNG Laceration/Openwound/Penetrating, Injury/ Trauma, Accident
- OAKC Blood Vessels, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- JNP Consequences/Complications
- YCK Case Studies, Nature of Study, Study-Report Type

Discussion focuses on four case reports. Penetrating injuries of subclavian vessels constitute immediate threat to life through exsanguinating hemorrhage and require immediate surgical exploration. If patient does survive initial injury, complications of secondary hemorrhage, false aneurysm and arteriovenous fistula may be equally serious. Deaths in two cases point up threat from embolization.

24-4044 S

LE LESIONI DELLA MILZA NEI TRAUMI CHIUSI ED APERTI DELL'ADDOME: CONSIDERAZIONI SU 91 CASI. [LESIONS OF THE SPLEEN IN CLOSED AND OPEN TRAUMAS OF THE ABDOMEN: Considerations on 91 cases.] See 15-4044 S

24-4045 S

CHEST TRAUMA WITH PNEUMOTHORAX AND HEMOTHORAX, See 13-4045 S

24-4050 S Hauser, C. W./ Perry, J. F., Jr.
MASSIVE HEMORRHAGE FROM PELVIC FRAC-TURES.
St. Paul Ramsey County Hospital, Dept. of Surgery, Minneapolis, Minnesota/ Minnesota Univ. School of Medicine, Minneapolis. Feb. 1966. 6 p. tables. ref.
Minnesota Medicine, Vol. 49, Feb. 1966, pp. 285-290.

OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspect

- JNH Fracture, Injury/Trauma, Accident
- JNK Hemorrhage
- WSD Surgery, Medical, Methods
- WSE Therapeutic

Clinical study of 196 patients. Significant hemorrhage from pelvic fracture found in 1/3 of patients. Authors recommend hypogastric artery ligation. Data statistics: age; sex; cause of injury; mortality; type of fracture and mortality; blood loss and mortality; associated injuries and mortality.

24-4125 S EXPERIENCE WITH 472 CIVILIAN PENETRATING WOUNDS OF THE CHEST. See 13-4125 S 24-4126 S

INJURIES OF THE LIVER: A review of 111 cases. See 15-4126 S $\,$

24-4134 S

THE INCIDENCE OF MORBID–ANATOMICAL EVIDENCE OF SHOCK–KIDNEY AND OTHER RENAL DISORDERS IN UNSELECTED AUTOPSY MATERIAL. See $21{\cdot}4134~\rm{S}$

24-4146 S

PENETRATING WOUNDS OF THE ABDOMEN: Analysis of 776 operative cases. See 15-4146 S

24-4057 N

O'Conor, V. J./ O'Conor, V. J., Jr. ACUTE RENAL FAILURE FOLLOWING EXTENSIVE TRAUMA.

Northwestern Univ., Chicago, Medical School, Dept. of Urology, Illinois/ Chicago Wesley Memorial Hospital, Illinois. June 1960. 4 p.

International College of Surgeons. Journal, Vol. 33, No. 6, June 1960, pp. 692-699.

Conference: International College of Surgeons, North American Federation, 24th annual congress, 13–17 Sept. 1959, Chicago, Illinois.

- JNX Multiple Severe Injuries, Injury/Trauma, Accident
- JNP Consequences/Complications
- OAMB Kidneys, Urogenital System, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic, Medical, Methods

Authors describe etiology, clinical picture, and pathology. Discuss diagnosis and treatment with particular reference to pulmonary edema, potassium intoxication and the diuretic phase of management.

24-4084 S

THE SURGICAL MANAGEMENT OF 640 CONSECU-TIVE LIVER INJURIES IN CIVILIAN PRACTICE. See 15-4084 S

24-4090 S

ARZTLICHE VERSORGUNG SCHWERVERLETZTER AM UNFALLORT UND AUF DEM TRANSPORT. [TREATMENT BY PHYSICIAN OF THE SEVERELY INJURED, AT THE SCENE OF THE ACCIDENT AND DURING TRANSPORTATION.] See 03-4090 S

24-4106 S

UNRECOGNIZED ABDOMINAL TRAUMA IN PATIENTS WITH HEAD INJURIES. See 15-4106 S

24-4111 N

Clowes, G. H. A., Jr. METABOLIC RESPONSES TO INJURY. Part I: The production of energy. South Carolina Medical College, Charleston. 1963. 7 p. tables. figs.

Journal of Trauma, Vol. 3, 1963, pp. 149-160.

- OBM Metabolism, Problems, Biomedical Aspect
- JN Injury/Trauma, Accident
- WSD Surgery, Medical, Methods
- JNPL Shock, Consequences/Complications

OAMB Kidneys, Urogenital System, Anatomy/Body

Extensive description of biochemical and physiological responses and discussion of therapeutic implications.

Part I. Author discusses the whole patient: the wound, body water electrolytes, energy production and cellular metabolism. Tabulates plasma electrolyte values following loss of blood in patients with and without shock.

24-4112 N

Clowes, G. H. A., Jr. METABOLIC RESPONSES TO INJURY. Part II: Acidbase balance. South Carolina Medical College, Charleston. 1963. 8 p. figs. ref. tables.

Journal of Trauma, Vol. 3, 1963, pp. 161-175.

- OBM Metabolism, Problems, Biomedical Aspect
- JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident
- YCK Case Studies, Nature of Study, Study-Report Type
- YEG Tables/Graphs, Contents
- OAL Respiratory System, Anatomy/Body

Part II. Author discusses cause and treatment of metabolic acidosis with particular reference to the role of infection. Graphs and tabulates hemodynamic values, arterial blood chemistry for patients during and following surgery, with and without shock.

24-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

24-4156 S

Heyer, H. E. A CLINICAL STUDY OF SHOCK OCCURRING DUR-ING ACUTE MYOCARDIAL INFARCTION: An analysis of 58 cases.

Baylor Medical Center, Dept.'s of Internal Medicine, Dallas, Texas/ Texas Univ. Dallas, Southwestern Medical School. Oct. 1961. 6 p. charts. ref. tables.

American Heart Journal, Vol. 62, No. 4, Oct. 1961, pp. 436-446.

- JNPL Shock, Consequences/Complications, Injury/ Trauma, Accident
- OAKB Heart, Cardiovascular System, Anatomy/Body, Biomedical Aspect
- YEF Data Statistics, Contents, Study–Report Type NKFF Delay, Frequency/Time, Operating Conditions,
- Physical Aspect
- WSE Therapeutic, Medical, Methods

A survey of 714 cases of acute myocardial infarction revealed 58 with accompanying shock. Author discusses hypotension without shock and premonitory shock, classifies patients according to clinical features and responses to therapy, and summarizes the clinical features of surviving and fatal cases. Found that the mortality rate increased as the initiation of treatment was delayed. Data statistics: (in total group) sex; mortality; incidence of shock; (in patients with shock) mortality by age group; type of onset of shock; mortality and time elapsed before treatment; mortality and congestive failure; results of digitalization. Gives 3 illustrative case reports.

24-4160 S

PENETRATING INJURIES TO THE CHEST: Clinical results in the management of 769 patients. See 13-4160 S

24-4195 S

Sako, Y./ Artz, C. P./ Howard, J. M./ Bronwell, A. W./ Inui, F. K.

A SURVEY OF EVACUATION, RESUSCITATION, AND MORTALITY IN A FORWARD SURGICAL HOS-PITAL.

Army Medical Service Graduate School, Surgical Research Team in Korea. April. 1955. 5 p. tables. ref.

Surgery, Vol. 37, No. 4, April 1955, pp. 602-611.

WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods

- JRH Transportation, Recovery of Injured, Accident
- JNB Fatal, Injury/Trauma
- NKFF Delay, Frequency/Time, Operating Conditions, Physical Aspect
- WSD Surgerv
- Epidemiology/Etiology, Disciplines VN
- YEF Data Statistics, Contents, Study-Report Type

Authors analyze data from a series covering Jan. 1952 to Aug. 1953 and a similar series from World War II. Conclude that in both wars one of the most important causative factors in death was body region struck. Note a lower overall case mortality rate in the Korean War group, attributed to the greater amounts of blood given. Data statistics: case mortality rates; type of wound; mode of evacuation; time intervals for phases of care; blood transfusions and time of transfusion; cause of death; major amputations; comparison with similar injuries in World War II.

24-4196 S

ABDOMINAL TRAUMA: A study of 297 consecutive cases. See 15-4196 S

24-4337 S

ROAD ACCIDENTS. See 03-4337 S

24-4501 S

Campbell, E./ Whitfield, R. D. THE INCIDENCE AND SIGNIFICANCE OF SHOCK IN HEAD INJURY.

Albany Medical College, Dept. of Surgery, New York. Nov. 1953. 4 p. figs. tables. ref.

Annals of Surgery, Vol. 138, No. 5, Nov. 1953, pp. 698-705.

- Head, Anatomy/Body, Biomedical Aspect OAI
- **JNPL** Shock, Consequences/Complications, Injury/ Trauma, Accident
- JNK Hemorrhage
- JNH Fracture
- YEG Tables/Graphs, Contents, Study-Report Type
- YEF Data Statistics
- YCK Case Studies, Nature of Study

718 patients with acute head injuries. Authors conclude that shock is neither an essential nor a prominent feature of cerebral concussion. Suggest the possibility that in many acute brain injuries factors are set in motion which tend to overcome hypotension. Data statistics: mortality; type of head injury; associated injuries; incidence of shock. 2 illustrative case histories.

24-4504 S

DIED IN HOSPITAL: A three-year study of deaths following trauma. See 21-4504 S

24-4510 S

Udhoji, V. N./ Weil, M. H.

CIRCULATORY EFFECTS OF ANGIOTENSIN, LEVARTERENOL AND METARAMINOL IN THE TREATMENT OF SHOCK.

Southern California Univ. School of Medicine, Dept. of Medicine/ Southern California Univ., School of Medicine, Dept. of Surgery/ Southern California Univ. School of Medicine, Shock Research Unit/ Los Angeles County Hospital, California. 5 March 1964. 5 p. figs. ref. tables. New England Journal of Medicine, Vol. 270, No. 10, 5 March 1964, pp. 501-505.

Grant No: HE-5570.

Sponsor: John A. Hartford Foundation, Inc., New York/ National Heart Institute, Bethesda, Maryland.

Conference: American Federation of Clinical Research, General Session, 28 April 1963, Atlantic City, New Jersey.

- **JNPL** Shock, Consequences/Complications, Injury/ Trauma, Accident
- WSE Therapeutic, Medical, Methods
- WUP Physiological, Testing/Measures

Laboratory and clinical study of 12 patients. Authors found significantly lower cardiac output and urine flow and a disproportionate increase of peripheral vascular resistance when angiotensin was compared to the other drugs. Question rationale for use of angiotensin. Data statistics: heart rate, central venous pressure; arterial blood pressures; cardiac output; urine flow; peripheral vascular resistance. Brief description of laboratory methods and findings.

24-4513 S

Salem, G./ Strahberger, E. ÜBER DIE RIPPENSERIENFRAKTUREN DURCH VERKEHRSUNFÄLLE UND DEN DERZEITIGEN STAND IHRER BEHANDLUNG. [ON SERIAL RIB FRACTURES CAUSED BY TRAFFIC ACCIDENTS AND THE CURRENT STATUS OF THEIR TREAT-MENT].

Vienna Univ., Surgery Dept. (Austria). March 1964. 10 p. ref. figs.

- Klinische Medizin, Vol. 19, March 1964, pp. 85-99.
- JNH Fracture, Injury/Trauma, Accident
- OAFD Ribs, Thorax, Anatomy/Body, Biomedical Aspect
- JNPI Fat Embolism, Consequences/Complications
- OAL Respiratory System
- OAE Abdomen
- JNP Consequences/Complications
- Data Statistics, Contents, Study-Report Type YEF

168 cases reported (1955-61). 37 fatals discussed, causes of death listed. High incidence of fat embolism and exsanguination (heart and liver).

Authors discuss therapy, complications, and injuries of abdominal organs.

24-4516 N

Del Guercio, L. R. M. SHOCK AND PULMONARY EMBOLISM.

1965. 8 p. tables. figs. ref.

Clinical Anesthesia, Vol. 2, Chapter 11, 1965, pp. 167 - 181.

- **JNPO** Occlusion/Thrombosis/Clot, Injury/Trauma, Accident
- INPI Shock
- WUP Physiological, Testing/Measures, Methods
- YER General Discussions, Contents, Study-Report
- Type OALE Lungs, Respiratory System, Anatomy/Body, Biomedical Aspect

Author discusses incidence, diagnosis, and management of shock due to pulmonary embolism in hospital patient. Concludes that successful treatment requires the solution of problems in hospital logistics.

24-4523 N

BEITRAG ZUR SCHOCKBEKÄMPFUNG AUF DER AUTOBAHN. [CONTRIBUTION TO THE THERAPY OF SHOCK ON THE HIGHWAY.] See 02-4523 N

25-3703 S

Kuhne, H./ Kremser, K. H. DIE KLINISCHE BEDEUTUNG DER TRAUMA-TISCHEN FATTEMBOLIE. [THE CLINICAL SIGNIFI-**CANCE OF TRAUMATIC FAT EMBOLISM.]**

Chirurgischen Universitätsklinik Frankfurt (Germany). Dec. 1957. 6 p. ref. tables.

Bruns Beitraege zur Klinischen Chirurgie, Vol. 195, No. 4, Dec. 1957, pp. 385-394.

- YEF Data Statistics, Contents, Study-Report Type JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- WSI Autopsy, Medical, Methods
- JNH Fracture

According to 643 autopsy records, of the 95% of traffic fatalities with signs of fat embolism in the lungs, 59% have massive fat in lungs and 23% involve the large circulatory system. Of 55,122 hospital admissions over 10 years, 2,956 had fractures and 115 died from the consequences of their injuries. Autopsies of all of these showed fat embolism in lung; only seven were so diagnosed while alive. In 18 cases, fat embolism was the sole cause of death.

25-3705 S

Fitts, W. T., Jr./ Lehr, H. B./ Bitner, R. L./ Spelman, J. W. AN ANALYSIS OF 950 FATAL INJURIES.

Pennsylvania Univ. Schools of Medicine/ Pennsylvania Univ. Hospital/ Philadelphia Dept. of Public Health, Office of the Medical Examiner, Pennsylvania. 1964. 4 p. tables

Surgery, Vol. 56, No. 4, Oct. 1964, pp. 663-668.

- Injury/Trauma, Accident JN
- WSI Autopsy, Medical, Methods
- Data Statistics, Contents, Study-Report Type YEF Old Aged, Adults, People
- EEC
- Fracture JNH
- OADH Pelvis, Lower Extremity, Anatomy/Body, Biomedical Aspects
- JNX Multiple Severe Injuries
- OAI Head

Analysis of cause of death in all 950 cases involving fatal injury in Philadelphia during 1961. Data from all 41 of city's hospitals. Mean age of group was 65 years. 5% of injuries involved occupants of motor vehicles. Describes vehicles, first-aid equipment, and communication system of police and fire department. 74% of injured were transported to hospital by police vehicles; 5% by fire department vehicles. Average of fifteen minutes between report of injury and patient's arrival at hospital. Whether complete autopsy was conducted made significant difference in the primary cause of death assigned. Case reports included. Errors in diagnosis, management, or both contributing to 51 deaths are described.

25-3713 S EINE ANALYSE VON 827 UNFALLTODESFÄLLEN. [AN ANALYSIS OF 827 CASES OF FATAL ACCI-DENTS.] See 24-3713 S

25-3715 S

MÖGLICHKEITEN EINER INTENSIVIERUNG DER ERSTEN HILFE FÜR UNFALLVERLETZTE IN STÄDTEN MIT LÄNDLICHER UMGEBUNG. [POSSI-BILITIES FOR INTENSIFYING FIRST AID FOR AC-CIDENTS IN CITIES WITH A RURAL ENVIRON-MENT.] See 03-3715 S

25-3721 S

Greendyke, R. M. FAT EMBOLISM IN FATAL AUTOMOBILE ACCI-DENTS. April 1964. 5 p. ref. tables. figs.

Journal of Forensic Sciences, Vol. 9, No. 2, April 1964, pp. 201–208.

- JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- JNH Fracture
- WSI Autopsy, Medical, Methods
- YEF Data Statistics, Contents, Study-Report Type
- INB Fatal L Time

Of the 112 victims studied, average age was 65; 50 control cases where death had not resulted from automobile accidents were also examined. Clinical data from hospitals were obtained. Findings indicate absence of pulmonary fat embolism in six patients without skeletal fracture, absence or minor embolism in 57 patients dead upon arrival of physician, and pulmonary embolism in 42 of the 49 patients alive upon admission to hospital. Of these 42, nine had fat embolism as primary cause of death. Table shows etiology, survival time, clinical impression of cause of death, fracture sites, and severity of embolism for these nine cases.

25-3722	S
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Emson, H. E. FAT EMBOLISM STUDIED IN 100 PATIENTS DYING AFTER INJURY.

Birmingham Accident Hospital, Pathology Dept. (England). Jan. 1958. 4 p. fig. tables. ref.

Journal of Clinical Pathology, Vol. 11, Jan. 1958, pp. 28 - 35.

JNPI	Fat Embolism, Consequences, Injury/Trauma,
	Accident
L	Time

- L
- JNH Fracture
- Lungs, Respiratory System, Anatomy/Body, OALE **Biomedical Aspect**
- YEG Tables, Contents, Study-Report Type

100 patients who died after injury are compared to control group who died from burns (43 cases) or nontraumatic illnesses (10 cases). Both pulmonary and systemic fat embolism were absent or insignificant in almost all control cases. In the trauma series, 89% showed pulmonary fat embolism which increased according to severity of trauma; 24% showed systemic fat embolism. Pulmonary fat embolism is not thought to be important as cause of illness or death and is an almost constant accompaniment of fractures. Systemic fat embolism was never found in the absence of pulmonary fat embolism. Cerebral fat embolism is important as a cause of symptoms and death.

25-3724 S

Dencker, H.

MORTALITY RELATED TO VARIOUS METHODS OF TREATMENT OF FEMORAL SHAFT FRACTURES. Göteborg Univ., Dept. of Surgery, Göteborg (Sweden). Nov. 1965. 5 p. ref. figs.

Acta Chirurgica Scandinavica, Vol. 130, Nov. 1965, pp. 449-457.

- **JNH** Fracture, Injury/Trauma, Accident-
- OADEB Femur, Leg, Lower Extremity, Anatomy/Body, Biomedical Aspect
- WSE Therapeutic
- JNPI Fat Embolism, Consequences
- Data Statistics, Contents, Study-Report Type YEF

Author reviews state-of-the-art, 1,003 fractures of femoral shaft in 992 patients in Sweden 1952-1954. Shows causes of death in various methods of treatment and discusses possible prevention of some fatalities. Overall mortality rate was unusually high. Due to limited number of deaths in each group, no statistical validity could be established for conclusions. Case reports are given.

25-3730 N

Evarts, C. M.

DIAGNOSIS AND TREATMENT OF FAT EMBOLISM. Cleveland Clinic Foundation, Ohio. 1965. 3 p. tables. figs. American Medical Association. Journal, Vol. 194, No. 8, 22 Nov. 1965, pp. 157-159.

Conference: American Medical Association, 114th annual, 23 June 1965, New York.

- WSC Diagnosis, Medical, Methods
- JRGI Professional/Physician, Treatment/Care, Recovery of Injured, Accident

JNPI Fat Embolism, Consequences, Injury/Trauma YCC State-of-the-Art, Nature of Study, Study-Report Type

Details are given for diagnosis of fat embolism, especially in regard to distinguishing it from craniocerebral trauma. Fat embolism most frequently accompanies long-bone and hip fractures. General and specific measures for treatment, such as the use of heparin and dextran 40, are described.

25-3737 S

BERICHT ÜBER 5900 SCHÄDEL-HIRN-TRAUMEN. [REPORT ON 5900 CRANIOCEREBRAL TRAUMAS.] See 22-3737 S

25-3748 S

MÖGLICHKEITEN UND GRENZEN ÄRZTLICHER HILFELEISTUNGEN AM UNFALLORT. [POSSIBILI-TIES AND LIMITATIONS OF MEDICAL ASSISTANCE AT THE SCENE OF A DISASTER.] See 02-3748 S

25-3755 N

TRAUMATISCHER UND POSTOPERATIVER SCHOCK. [TRAUMATIC AND POSTOPERATIVE SHOCK.] See 24-3755 N

25-3756 N

Orlowski, T./ Tomza, J. ZUR BEHANDLUNG DER FETTEMBOLIE. [ON THE TREATMENT OF FAT EMBOLISM.]

Chirurgischen Abteilung des Bezirkskrankenhauses Wroclaw (Germany). Sept. 1963. 3 p. ref.

Medizinische Monatsschrift, Vol. 17, Sept. 1963, pp. 583-585.

- JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- WSE Therapeutic, Medical, Methods
- VN Epidemiology, Disciplines
- YCC State-of-the-Art, Nature of Study, Study-Report Type

State-of-the-art report, with one case report of a patient with fat embolism in the brain in very serious condition with full recovery after I.V. therapy with Lipostabil. Use of Lipostabil is recommended in all types of trauma.

25-3759 N

Kessler, M./ Leibe, H./ Kamprad, F. ERFAHRUNGEN MIT DEM PRÅPARAT "LIPOSTA-BIL" BEI DER BEHANDLUNG DER FETTEMBOLIE. **EXPERIENCES WITH THE PREPARATION** "LIPOSTABIL" IN THE TREATMENT OF FAT EM-BOLISM.] 6 Feb. 1965. 3 p. figs.

Zentralblatt für Chirurgie, Vol. 90, 6 Feb. 1965, pp. 206-210.

- JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- WSE Therapeutic, Medical, Methods
- Case Studies, Contents, Study-Report Type YCK
Brief state-of-the-art report, with one case report on severe fat embolism. A significant improvement of the patient's condition was achieved after therapy with Lipostabil subsequent to negative response to conventional treatment. Authors refer to favorable results published by other researchers.

25-3773 S

Wertzberger, J. J.

FAT EMBOLISM: An analysis of cases seen at University of Kansas Medical Center from 1951 to 1962.

Kansas Univ. School of Medicine, Kansas City. Dec. 1964. 7 p. figs.

Kansas Medical Society. Journal, Vol. 65, Dec. 1964, pp. 591–597.

JNPI	Fat Embolism,	Consequences,	Injury/Trauma,
	Accident		

- WSC Diagnosis, Medical, Methods
- WSI Autopsy

YEF Data Statistics, Contents, Study-Report Type

YCK Case Studies, Nature of Study

Reports on 52 cases, 49 diagnosed at autopsy, with 4 case reports. Describes clinical manifestations and criteria for pathologist's diagnosis of fat embolism, discussing problem of differential diagnosis. Stresses importance of laboratory tests such as chest X rays, EKG, and search for fat droplets in urine. Describes preventive measures and supportive care for established cases. Review of literature.

25-3775 N

Teare, R. D./ Bowen, D. A. L./ Drury, R. A. B. ACUTE PEPTIC ULCERATION AND CEREBRAL FAT EMBOLISM AFTER FRACTURE.

St. George's Hospital, Dept. of Forensic Medicine, London (England)/ Central Middlesex Hospital, Dept. of Morbid Anatomy and Histology, London (England). Nov. 1962. 2 p. ref.

Journal of Bone and Joint Surgery, Vol. 44B, No. 4, Nov. 1962, pp. 790-793.

- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- JNH Fracture
- YCK Case Studies, Nature of Study, Study-Report Type

Report on three cases where cerebral fat embolism following skeletal injuries led to fatal peptic ulceration. Describe possible pathogenesis as discussed in literature.

25-3784 N

THE MANAGEMENT OF HEAD INJURIES COMPLI-CATED BY MAJOR EXTRACRANIAL TRAUMA. See 11-3784 N

25-3786 S

Adler, F./ Peltier, L. F. THE EFFECT OF SUBLINGUAL POTASSSIUM HEPARIN (CLARIN) ON THE SERUM LIPASE

ACTIVITY OF PATIENTS FOLLOWING FRACTURES. Kansas Univ. Medical Center, James B. Weaver Laboratory for Orthopedic Research, Kansas City. May 1964. 2 p. fig. ref. *Journal of Trauma*, Vol. 4, May 1964, pp. 390–393. Grant No: HE-03592–07.

Sponsor: Public Health Service.

sponsor: rubic nearth service.

Conference: American Association for the Surgery of Trauma, 23rd annual, 24-26 Oct. 1963, San Francisco, California.

- JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- YEF Data Statistics, Contents, Study-Report Type
- WSE Therapeutic, Medical, Methods
- YCH Field Experiment, Nature of Study

Serum lipase level is a reliable aid in the diagnosis and prognosis of the chemical phase of fat embolism. Authors compared serum lipase level for seven days in two groups of patients with extracapsular fractures of the hip. Sixteen of the 21 patients receiving heparin had an early significant elevation of the serum lipase activity. Fourteen of the 26 who did not receive heparin had a delayed significant lipase elevation. In 11 healthy subjects, no rise in lipase activity was noted after heparin administration. Heparin was administered sublingually in order to test its lipolytic rather than anticoagulant properties.

25-3787 S

Morton, K. S./ Gurjar, M. P.

HEMORRHAGIC SHOCK AND FAT EMBOLISM: A clinical and experimental study.

British Columbia Univ., Trauma Research Unit, Vancouver. Sept. 1964. 3 p. tables. ref.

Journal of Trauma, Vol. 4, Sept. 1964, pp. 687-691. Grant No: 9360-04.

Sponsor: Canadian Dept. of National Defense, Defense Research Board.

- JNPI Fat Embolism, Consequences, Injury/Trauma, Accident
- JNPL Shock
- YCG Laboratory Experiment, Nature of Study, Study-Report Type
- YEF Data Statistics, Contents
- YCH Field Experiment

A review of 22 clinical cases revealed a clinically recognizable fat-embolism syndrome. Appearance of syndrome could not be related to prolonged hypotension or a need for massive transfusion. Authors conclude from experimental study with rats that the clinical syndrome and experimental pulmonary fat embolism are unrelated to hypovolemic hypotension.

25-3791 S

Lowenfels, A. B./ Barbieri, R./ Hartmen, R./ Lord, J. W., Jr.

EXPERIMENTAL ARTERIAL FAT EMBOLISM.

New York Univ. School of Medicine, Dept. of Surgery, New York/ White Plains Hospital, White Plains, New York. Sept. 1963. 5 p. ref. tables.

Journal of Trauma, Vol. 3, Sept. 1963, pp. 399-406.

Grant No: H-5114(C1).

Sponsor: Public Health Service.

Conference: American Association for the Surgery of Trauma, 22nd annual, 29-31 Oct. 1962, Hot Springs, Virginia.

JNPI Fat Embolism, Consequences, Injury/Trauma, Accident

YCG Laboratory Experiment, Nature of Study, Study-Report Type YEF Data Statistics, Contents

Project was designed to test effects of 5- to 50-micron droplets of neutral fat injected into arterial system of dogs. Lethal amount by intra-arterial route is about one-tenth that by intravenous injection. When administered intravenously for a one-hour period immediately after fat injection, heparin offered no significant protection.

25-3927 N

Cole, W. R.

TRAUMATIC PULMONARY FAT EMBOLISM. 1965. 3 p. tables. figs. ref.

Journal of College Radiology of Australia, Vol. 9, 1965, pp. 228-233.

- INPI Fat Embolism, Consequences, Injury/Trauma, Accident
- YCC State-of-the-Art, Nature of Study, Study-Report Type
- YCK Case Studies

Short literature review with four case reports. Discusses the Peltier theory of chemical phase of fat embolism, which seems to contraindicate the use of heparin.

25-3946 S

Szabo, G./ Serenyi, P./ Kocsar, L.

FAT EMBOLISM: Fat absorption from the site of injury. National Institute of Traumatology, Budapest (Hungary). Nov. 1963. 3 p. figs. tables. ref. Surgery, Vol. 54, No. 5, Nov. 1963, pp. 756-760.

- JNPI Fat Embolism, Consequences/Complications, Injury/Trauma, Accident
- JNH Fracture
- YCG Laboratory Experiment, Nature of Study, Study-Report Type Time

L.

 I_{131} -labeled triolein was injected into one hind extremity of one group of dogs with and another without fracture of the femur. Resorption of fat from injection site proved to be extremely slow. Absorption rate was not influenced by bone fracture. Fat is not transported by lymphatic system.

25-3958 N

SCHOCKBEGRIFF IM WANDEL DER ZEITEN UND HEUTE, [CONCEPT OF SHOCK IN THE PAST AND TODAY.] See 24-3958 N

25-3971 S

Falzi, G./ Henn, R./ Spann, W.

ÜBER PULMONALE FETTEMBOLIE NACH TRAUMEN MIT VERSCHIEDEN LANGER ÜBER-LEBENSZEIT. [ON PULMONARY FAT EMBOLISM AFTER INJURIES WITH DIFFERENT PERIODS OF SURVIVAL.]

Universität München, Institut für Gerichtliche Medizine und Versicherungsmedizin (Germany). 22 May 1964. 4 p. tables. graphs. ref.

Muenchener Medizinische Wochenschrift, Vol. 106, 22 May 1964, pp. 978-981.

- INPI Fat Embolism, Consequences/Complications, Injury/Trauma, Accident
- OALE Lungs, Respiratory System, Anatomy/Body, **Biomedical Aspect**
- NKFP Period, Frequency/Time, Operating Conditions, Physical Aspect
- YEF Data Statistics, Contents, Study-Report Type VN Epidemiology/Etiology, Disciplines

The author reports on the results of histological studies of 201 lungs of patients who died posttraumatically, which were carried out to determine the incidence of pulmonary fat-embolism. The occurrence of pulmonary fat-emoblism depends primarily on the survival time and secondarily on the severity of the injury. Frequency of occurrence by age and sex is shown (63% of cases had no fat emboli in the lungs, a condition related to the fact that 57% of cases were accident cases where death occurred almost immediately). Another table shows survival time, with and without fat-embolism in each age category. In no case was fat-embolism found to be the cause of death (condition for accepting fat-embolism as cause of death was that at least one-third to one-half of all capillary vessels were blocked).

25-3976 S

DER TÖDLICHE VERKEHRSUNFALL AUS DER SICHT DES PATHOLOGEN, [THE FATAL TRAFFIC ACCIDENT FROM THE PATHOLOGIST'S VIEW-POINT.] See 23-3976 S

25-4025 N

Bergentz, S. E. STUDIES ON THE GENESIS OF POSTTRAUMATIC FAT EMBOLISM.

Gotebörg Univ. (Sweden). 1961. 72 p. ref. figs. tables. Acta Chirurgica Scandinavica. Supplement, Vol. 282, 1961, pp. 1-72.

- YER General Discussions, Contents, Study-Report Type
- JNPI Fat Embolism, Consequences/Complications, Injury/Trauma, Accident
- YCG Laboratory Experiment, Nature of Study

Experimental study with dogs, rabbits and hamsters. Extensive review of the literature. Author studied: occurrence of pulmonary fat emboli after injury; occurrence of fat droplets in the blood after injury; influence of hyperlipemia on post-traumatic fat embolism; influence of injury on the lipids in blood and lung tissue; microcirculatory flow changes in the immediate posttraumatic period; effects of injury on the coagulation factors; formation of fat droplets and fat emboli from changes in the physical state of blood. Concludes that injury induces such changes in the physical state of the blood that fat droplets are formed from the blood fat. Suggests that clinical symptoms are primarily caused not by fat emboli, but by an impaired flow due to red cell aggregation.

25-4049 N

Gonski A. TREATMENT OF FAT EMBOLISM COMPLICATING FRACTURES.

Prince Henry Hospital, Sydney (Australia)/ Prince of Wales Hospital, Sydney (Australia). 13 July 1963. 3 p. ref.

Medical Journal of Australia, Vol. 2, 13 July 1963, pp. 44-46.

JNPI	Fat	Embolism,	Consequences/Complic	ations,
	Inju	ry/Trauma, A	Accident	

- WSE Therapeutic, Medical, Methods
- YCK Case Studies, Nature of Study, Study-Report Type

Author reports five consecutive cases successfully treated with alcohol given intravenously. Discusses incidence, clinical picture, diagnosis and management.

25-4062 N

Kaulbach, W. HERZSCHÄDIGUNG BEI FETTEMBOLIE. [HEART DAMAGE IN FAT EMBOLISM].

Heidelberg Univ., Chirurgischen Klinik (Germany). 1960. 6 p. figs. ref.

Langenbacks Archiv fuer Klinische Chirurgie, Vol. 293, 1960, pp. 781-791.

JN	Iniury/Trauma.	Accident
911	Indi // Indania,	1100100110

- JNPI Fat Embolism, Consequences/Complications
- OAKB Heart, Cardiovascular System, Anatomy/Body,

Biomedical Aspect WSC Diagnosis, Medical, Methods

Four cases of fat embolism and their effects on EKG are discussed. EKG's at various intervals after trauma demonstrate overload of right heart. Pericarditis associated in one case. Author recommends EKG as diagnostic aid for fat embolism.

25-4094 N

Henzel, J. H./ Smith, J. L./ Pories, W. J./ Burget, D. E. FAT EMBOLISM: Diagnostic challenge of a potentially lethal clinical entity.

Air Force Hospital Wright-Patterson, Dept. of Surgery, Wright-Patterson AFB, Ohio. April 1967. 5 p. ref. *American Journal of Surgery*, Vol. 113, April 1967. pp. 525-532.

- WSC Diagnosis, Medical, Methods
- JNPI Fat Embolism, Consequences/Complications, Injury/Trauma, Accident
- JNP Consequences/Complications
- WSE Therapeutic
- YCK Case Studies, Nature of Study, Study-Report Type

Gives case report and brief historical background on knowledge of fat embolism, describing symptoms and treatment. Complications are controlled by such measures as sedation, tracheal suction, and maintenance of normothermia. Heparin and ethyl alcohol should help decrease sequilae of capillary plugging and release of toxic fatty acids.

25-4119 S

FATAL TRAFFIC ACCIDENTS IN BRISBANE FROM 1935 TO 1964. See 21-4119 S

25-4153 N

LeQuire, V. S./ Shapiro, J. L./ LeQuire, C. B./ Cobb, C. A., Jr./ Fleet, W. F., Jr.

A STUDY OF THE PATHOGENESIS OF FAT EMBOLISM BASED ON HUMAN NECROPSY MATERIAL AND ANIMAL EXPERIMENTS.

Vanderbilt Univ., School of Medicine, Dept. of Anatomy, Nashville, Tennessee/ Vanderbilt Univ., School of Medicine, Dept. of Pathology, Nashville, Tennessee/ Vanderbilt Univ., School of Medicine, Dept. of Surgery, Nashville, Tennessee. Sept.–Oct. 1959. 9 p. illus. ref. tables.

American Journal of Pathology, Vol. 35, No. 5, Sept.-Oct. 1959, pp. 999-1015.

Grant No: PHS 1570/ Senior Research Fellowship SF 54. Sponsor: Public Health Service/ Middle Tennessee Heart Association/ Eli Lilly Foundation, Indiana.

- WSI Autopsy/Pathology, Medical, Methods
- JNPI Fat Embolism, Consequences/Complications, Injury/Trauma, Accident
- VN Epidemiology/Etiology, Disciplines
- YCG Laboratory Experiment, Nature of Study, Study-Report Type

Authors describe and present results of histochemical tests on autopsy material and decompression experiments with rabbits. Propose that pulmonary fat emboli may result from traumatized depots, and that tissue injury initiates a process of colloidal instability of plasma lipids and increase of plasma lipids followed by aggregation and localization by the pulmonary vasculature.

25-4168 S

Henn, R. H. E./ Spann, W. UNTERSUCHUNGEN IBER DIE HÄUFIGKEIT DER CEREBRALEN FETTEMBOLIE NACH TRAUMA MIT VERSCHIEDEN LANGER ÜBERLEBENSZEIT. [STUDIES ON THE FREQUENCY OF CEREBRAL FAT EMBOLISMS FOLLOWING INJURY WITH VARI-OUSLY LONG SURVIVAL TIME]. Dec. 1965. 6 p. charts. ref.

Monatsschrift fur Unfallheilkunde, Vol. 68, Dec. 1965, pp. 513-522.

- NKF Frequency/Time, Operating Conditions, Physical Aspect
- JNPI Fat Émbolism, Consequences/Complications, Injury/Trauma, Accident
- OANBB Brain, Central, Nervous System, Anatomy/ Body, Biomedical Aspect
- NKFF Delay
- YEF Data Statistics, Contents, Study-Report Type

Author discusses cerebral fat embolism as cause of death. Brief literature review is made pointing out sample size and frequency of fat embolism in each article. Author's own material obtained from 140 autopsies (trauma cases only) examined for fat embolism in the brain, of which 86 also had the lungs examined for fat deposits. Method and criteria are described. Age distribution and survival time are plotted. Number and severity of cerebral fat embolism are plotted as a function of survival time, and compared to same data for pulmonary fat embolism. Frequency of injury to heart, major vessels, and other vital organs, is correlated to fat embolism in brain and lungs. Frequency of brain purpura is given as a function of the survival time. Frequency of cerebral fat embolism by age is given. Brain purpura and clinical

BIBLIOGRAPHY

symptoms not always sufficient to diagnose cerebral fat embolism.

25-4534 S

Camurati, C./ Pelliccioni, S. LA CAUSA DI MORTE NEI TRAUMATIZZATI: Studio clinico-statistico ed anatomo-patologico. [CAUSE OF DEATH IN TRAUMATIZED PATIENTS: Clinicostatistical and anatomo-pathologic study]. 1964. 24 p. bib. tables. graphs. Archivio di Ortopedia, Vol. 77, 1964, pp. 331-354.

- Injury/Trauma, Accident JN
- **JNPH** Pneumonia, Consequences/Complications
- JNPI Fat Embolism
- JNH Fracture
- YEF Data Statistics, Contents, Program-Report Type
- JNP Consequences/Complications

Analysis made of 171 fatalities. Causes of death discussed and frequencies given for major types of injury. Particular attention given to high incidence of fat embolism resulting from fractures. Causes of death discussed as a function of age. Therapy and clinical observations covered.

25-4337 S

ROAD ACCIDENTS. See 03-4337 S

25-4513 S

ÜBER DIE RIPPENSERIENFRAKTUREN DURCH VERKEHRSUNFÄLLE UND DEN DERZEITIGEN STAND IHRER BEHANDLUNG. [ON SERIAL RIB FRACTURES CAUSED BY TRAFFIC ACCIDENTS AND THE CURRENT STATUS OF THEIR TREAT-MENT.] See 24-4513 S

31-2631 N

TRAFFIC ACCIDENTS MEDICAL BIBLIOGRAPHY, 1955-1964.

Traffic Injury Research Foundation of Canada, Ottawa. Sept. 1965. 137 p.

- Motor Vehicles, Vehicle DE
- Accident I
- VM **Biomedical Sciences**, Disciplines
- Bibliography, Contents, Study-Report Type YEC

Contains 16 chapters on various subjects related to medical aspects of traffic safety, including alcohol and traffic accidents, medical assessment and driver licensure. Three chapters contain citations dealing specifically with motor vehicle accident trauma, and the post-injury phase of the accident. II. Statistical Papers; XI. Emergency Care, First Aid and Ambulance Services; XII. Medical and Surgical Problems of Traffic Accidents.

31-3831 N

Waters, W. R. A REVIEW OF THE LITERATURE ON BURNS AND TRAUMA, SEPTEMBER 1964 TO AUGUST 1965. Winnipeg Clinic, Dept. of Plastic Surgery, Winnipeg,

Manitoba/ Manitoba Univ., Dept. of Surgery (Canada). Feb. 1966, 22 p. biblio.

Medical Services Journal, Canada, Vol. 22, Feb. 1966, pp. 99-141.

JN	Injury/Trauma, Accident
YCC	State-of-the-Art, Nature of Study, Study-
	Report Type
YEE	Review, Contents
JKD	Fire, Accident Hazards
JNPL	Shock, Consequences
0 4 1	Head Anatomy/Body Biomedical Aspect

ad, Anatomy/Body, Biomedical Aspect

OAH Neck

OAF Thorax

OAE Abdomen

601 articles discussed. Refer to 31-3910 N.

31-3877 N

Kernahan, D. A. A REVIEW OF THE LITERATURE ON BURNS AND TRAUMA, SEPTEMBER 1963 TO AUGUST 1964. Manitoba Univ., Dept. of Surgery (Canada). Feb. 1965. 18 p. biblio. Medical Services Journal, Canada, Vol. 21, Feb. 1965, pp. 117 - 150.

- YCC State-of-the-Art, Nature of Study, Study-Report Type
- YEC Bibliography, Contents
- JKD Fire, Accident Hazards, Accident
- JN Injury/Trauma
- YEE Reviews

426 articles discussed. Refer to 31-3910 N.

31-3910 N

Kernahan, D. A. A REVIEW OF THE LITERATURE ON BURNS AND TRAUMA SEPTEMBER 1962 TO AUGUST 1963. Manitoba Univ., Dept. of Surgery (Canada). April 1964. 19 p. biblio. Medical Services Journal, Canada, Vol. 20, April 1964, pp. 315-351.

- YCC State-of-the-Art, Nature of Study, Study-Report Type
- YEC Bibliography, Contents
- JN Injury/Trauma, Accident
- Fire, Accident Hazards JKD
- OAE Abdomen, Anatomy/Body, Biomedical Aspect
- OAF Thorax
- OAH Neck
- OAI Head
- WSE Therapeutic, Medical, Methods

Bibliography of 528 articles compiled for topics of burns, radiation, tetanus and gas gangrene, shock, emergency rooms and mass casualties, trauma, and fractures. Text contains comments, some purely descriptive and some with writer's evaluation, upon many of collected articles. Descriptions of literature dealing with emergency rooms and automobile trauma are extremely brief.

31-4337 S

ROAD ACCIDENTS. See 03-4337 S

Atik, M.

Attar, S.

24-3770 N

24-3940 S

Avecilla, M. J.

Avlamis, G. P.

Bahnson, H. T.

14-4032 S

Baird, W. L. M.

13-3864 S

12-4515 S

25-3791 S

Barnett, W. O.

Barr, J. B.

15-3819 S

11-3933 S

12-4515 S

14-3829 S

01-3749 S

01-3970 N

03-3714 S

Beall, A. C., Jr.

14-3725 S

14-3846 S

14-4029 S

15-3701 S

15-3891 S

15-4084 S

03-3704 N

13-3794 S

Becker, W. H.

Becker, T.

Barrie, D. L.

Bassett, J. S.

Bauer, K. H.

Bakst, H. J.

Barbieri, R.

14-4522 S

13-3895 N

Aarts, J. H. 14-4527 S

Adler, F. 25-3786 S

Agrawal, S. N. 23-4128 S

Ahrer, E. 16-4075 N

Ainsworth, J. Z. 12-3839 N

Akerlund, E. 11-4162 N

Alexandre, J. H. 17-3965 S 17-4037 S

Alivisatos, C. N. 13-3895 N

Allen, J. E. 15-4048 S

Allen, R. B. 15-4196 S

Alper, M. H. 02-3873 N

Amer, N. L.

13-3912 S

Angelides, **A. P.** 04-4110 N

Angrist, A. A. 11-3923 N

Anlyan, W. G. 17-4013 N

Anthonisen, N. R. 02-3858 S

Antoni, R. O. 18-4058 N

Artz, C. P. 17-4071 S 24-4195 S Beebe, G. W. 14-4509 S

> Bell, D. M. 15-3879 S

Bercu, B. A. 14-3976 N

Bergentz, S. E. 25-4025 N

Bergofsky, E. H. 12-3843 S

Berkowitz, D. 11-4502 S

Bertrand, G. 02-3872 N

Bischof, W. 11-3741 S

Bitner, R. L. 25-3705 S

Blair, E. 24-3940 S

Blake, H. A. 14-4032 S

Bland, E. F. 14-4509 S

Bloch, J. H. 24-3897 S

Bloom, W. H. 11-4124 S

Blumenberg, R. M. 15-4101 N

Bohler, J. 02-3762 N

Bohmer, G. 11-4068 S

Bonellos, C. H. 13-3895 N

Border, J. R. 13-4129 N Bourne, G. 04-4137 S

Boury, G. 17-3965 S 17-4037 S

Bousfield, M. E. 11-3922 S

Bowen, D. A. L. 25-3775 N

Bradham, G. B. 01-3862 S

Brandesky, G. 11-4107 S 24-3713 S

Brass, A. 01-4095 N

Braun, P. 02-3885 N

Braunstein, P. W. 01-4008 N 01-4120 S 18-4007 S 21-3882 S 24-3710 S

Brettschneider, L. 13-3836 N

Brogdon, B. G. 12-4105 N

Broggi, G. 22-3765 S

Bronwell, A. W. 24-4195 S

Brooks, H. A. 14-3830 S

Brose, R. A. 02-3874 N

Brunius, U. 18-4172 N

Brunner, U. 21-3959 S Buckholz, H. W. 03-3980 S

Bull, J. 18-4009 S 22-3727 S

Burger, J. G. 01-3816 N

Burget, D. E. 25-4094 N

Burke, M. H. 12-4039 S

Burner, M. 11-4536 S

Burns, H. 14-3861 N

Cabezon, J. 13-4045 S

Caldwell, L. A. 01-4024 S

Camerer, J. 23-3763 S

Campbell, D. 23-4046 N

Campbell, E. 22-4521 S 23-4046 N

Camurati, C. 25-4534 S

Canepa, J. F. 24-3935 S

Cannon, R. N. 23-4046 N

Cappelletti, R. R. 15-4126 S

Caprotti, G. 11-3761 S

Cara, **M**. 04-4140 N

Cardillo, T. E. 02-3845 N Currie, D. J.

02-3814 N

22-3947 S

24-4043 N

01-3956 N

Carlsson, C. A.	Cook, A. W.
11-4068 S	22-3947 S
Carlton, C. E., Jr.	Cook, F. W.
15-4073 S	24-4043 1
Carstensen, E.	Cook, H. E.
23-3754 S	01-3956 1
Cato, F. L.	Coolican, J .
13-3907 S	01-4096 S
Chang, T. H. 16-4085 S	Cooper, W. 01-4008 I 21-3882 S
Cheng, H. C. 14-3861 N	Corcoran , J.
Christensen, B. H. 15-3799 S	01-4096 \$
Clark, K.	Cordice, J. V 13-4045 \$
22-3931 N	Cornell, W. H
Clarke, R.	15-3867 1
24-4020 S	Corsa, L., Jr
Clippinger, F. W.	01-3821 S
17-4013 N	Couves, C. M
Clowes, G. H. A., Jr. 24-4111 N 24-4112 N	13-4160 S 13-4161 S
Cobb. C. A., Jr.	24-3940 S
25-4153 N	Crampton, R 16-4149 S
Cochran, W. 15-3879 S	Crawford, E
Cole , W. K . 25-3927 N	Creech, O., J
Collins, J .	13-4072 S
03-3815 N	15-4005 S
Collins, P. G.	Crighton, H.
01-4096 S	01-4114 S
Columella, F.	Crosthwait , 1
22-4098 S	15-4048 S
Conn, J. H.	Crouch, D . M
13-3798 S	15-4146 S
Constantinescu, O.	Crowell, J. W
13-3859 N	24-3934 1
Contzen, H.	Crozzoli , N.
02-4524 N	11-4092 S
Conway, J. P.	Curran, R.
02-3945 N	01-3918 S

olican, J. E. 01-4096 S	Cu
oper, W. 01-4008 N 21-3882 S	Da
rcoran, J. 01-3919 N 01-4096 S	D'A
rdice, J. W. V., Jr. 13-4045 S	Da
rnell, W. P. 15-3867 N	D'A
rsa, L., Jr. 01-3821 S	Da
uves, C. M. 13-4160 S	Da
wley, R . A . 24-3940 S	Dav
a mpton, R. S. 16-4149 S	Day
awford, E. S. 15-4028 S	De
eech, O., Jr. 13-4072 S 15-4005 S 24-4014 S	
ghton, H. C. 01-4114 S	De
osthwait, R . W. 15-4048 S	Dei
ouch, D. M. 15-4146 S	Del
owell, J. W. 24-3934 N	Del
ozzoli, N. R. 11-4092 S	De
rran, R. 01-3918 S	
•	

Currie, R. A. 15-3915 S Curry, G. J. 15-4196 S rtin, J. W. 12-3911 S 12-4150 N gradi, A. 02-4185 S Allaines, C. 17-3707 S vies, J. W. L. 02-3850 N 24-4020 S Avila, R. 15-4146 S vis, C. H. 11-4104 S vis, C. M. 23-3806 S vison, A. 21-4119 S y, P. L. 17-3788 S Bakey, M. E. 14-3725 S 14-3846 S 15-3701 S 15-3801 S 15-3891 S 15-4028 S 15-4084 S Nunno, T. 22-3765 S ister, J. 13-4067 N Guercio, L. R. M. 24-4516 Ń Vivo, R. E. 11-4536 S ncker, H.

Ebert, P. A.

Echlin, F. A.

Ecke, H.

15-3867 N

11-4540 S

03-3715 S

24-4014 S

11-3923 N

Eichenholtz, S. N.

16-3789 Ś

Eckert, W. G.

Edberg, S.

17-3921 S 25-3724 S

Derrick, E. H. 21-4119 S	Emson, H. E.
Dettori, P.	25-3722 S
Deweese M S	13-4130 N
21-4519 S	Esmond, W. G. 24-3940 S
Dewey, J. 01-3821 S	
Dickson, J. 11-3922 S	Euler, K. H. 22-3739 S
	Evarts, C. M.
Domanig, E., Jr. 18-4061 S	25-3730 N
	Ewerwahn, W. J.
Dorton, H. E. 15-3860 N	23-3754 S
	Fahlund, G. T. R.
Drompp, B. W. 12-3771 N	15-3823 N
	Fain, W. R.
Drury, R. A. B. 25-3775 N	13-3798 S
D 1.0	Falzi, G.
Drye, J. C.	25-3971 S
14-4040 S	Farhi, L. E.
Dubitscher F	23-3073 3
11-4537 S	Farrington, J. D. 02-4184 N
Duff, J. H.	
23-4128 S	Firor, W. B. 17-3847 S
Dwyer, B.	
02-4152 N	Fischer, H. 23-3976 S
Earley, D. E.	Fisher, G. W.
13-4103 N	14-4048 N

Denny-Brown, D.

11-3932 S

Eiseman, B.

01-4183 N

02-4030 N

Fisher, M. R. 24-4020 S

> Fisher, P. 15-3881 N

Fitts, W. T., Jr. 25-3705 S

Fitzgerald, J. B. 14-3725 S 15-3891 S 15-4028 S

Fitz-Hugh, G. S. 12-4006 S

Goodman, M.

23-4036 N

Gordon, W. B., Jr.

15-3701 S

Gorham, L. W.

Gothman, B.

Gray, A. R.

21-4169 S

13-3936 S

13-4160 S

13-4161 S

Greaney, E. M., Jr.

15-3902 N

12-4150 N

Greendvke, R. M.

14-3828 S

25-3721 S

Greeley, P. W.

Fleet, W. F., Jr. 25-4153 N

Fletcher, B. D. 12-4105 N

Florin, A. A. 02-3885 N

Ford, L. E. 22-3939 S

Foster, P. A. 02-3807 N

Frain, P. H. 17-3865 N

Fraser, G. A.

17-3863 N Fratianne, **R**.

24-3898 N

Frederick, P. L. 15-3827 N

Freed, M. M. 12-4515 S

Freilich, H. 02-3856 N

Freytag, E. 22-3953 S 22-4517 S

Friedhoff, E. 03-3961 S 03-3979 S 03-4090 S 03-4512 N

Froix, C. J. L. 14-3830 S

Frowein, R. A. 22-3739 S 22-3974 S

Fyshe, T. G. 15-3772 S

Gallagher, J. E. 01-4096 S

Garner, R. 01-3824 S

Garrett, J. W. 18-4007 S

Garvey, T. Q., Jr. 11-4540 S Garzon, A. A. 13-3794 S 13-3912 S

Gathright, J. B. 24-4014 S

Gerwig, W. H., Jr. 15-3915 S

Gibson, J. M. C. 17-4027 S

Giesecke, **A**. **H**. 01-4114 S

Gilbert, **R**. **L**. 17-3901 N

Ginn, W. V., Jr. 02-3945 N

21-4115 S

22-3727 S

04-4173 N

14-3876 N

14-4158 S

23-4036 N

Gliedman, M. L.

15-4126 S

01-3751 S

03-3962 N

03-4337 S

Goldman, B. S.

Goldner, J. L.

Goldstein, M.

17-3847 S

17-4013 N

23-4128 S

24-3935 S

25-4049 N

Gonski, A.

Gomez Povina, O. A.

Gogler, E.

Giuffrida, L.

Glas, W. W.

Glass, H., Jr.

Glass, W. M.

Gissane, W.

01-3941 S 02-4180 N 18-4009 S

Grimes, A. 12-3771 N

> Griswold, R. A. 14-4040 S 14-4083 S 14-4157 S

> > **Gizzard**, V. T. 22-4521 S

Grogono, B. J. S. 17-3780 N

Guerin, P. F. 14-4032 S

Gurjar, M. P. 25-3787 S

Gutelius, J. R. 23-4128 S

Guttmann, L. 12-3782 N

Hackethal, K. H. 03-3993 N

Halbert, D. S. 15-4146 S

Hale, H. W., Jr. 15-4132 N

Haller, J. A., Jr. 12-4159 N 24-3796 S 24-4043 N Hamelmann, H. 02-3748 S

Hamilton, R. D. 02-4041 N

Hampson, K. W. 01-4016 S

Hampton, O. P., Jr. 01-3834 N

Hancock, J. E. 02-3945 N

Handel, K. 02-3995 S

Hanna, W. A. 15-3879 S

Hansen, V. G. 23-3729 S

Happel, W. 11-4166 S

Hardy, J. D. 13-3798 S 15-3819 S 17-4071 S

Harkins, H. N. 15-4198 S

Harms, H. 13-4087 S

Harris, H. H. 12-3839 N

Harrison, W. H., Jr. 13-4160 S 13-4161 S

Hartman, M. M. 23-3894 N

Hartmann, G. 03-3704 N

Hartmen, R. 25-3791 S

Hartmen, S. W. 15-3902 N

Harwood– Hash, D. C. F. 11-3938 S

Hasimoto, Y. 03-4525 N Hass, A. 12-3843 S

Haugen, F. P. 24-3954 N

Haupt, G. J. 04-4110 N

Hauser, C. W. 24-4050 S

Hawley, C. 15-4103 N

> Hebert, W. M. 13-3909 N

Heikel, H. V. A. 01-4529 S

Heiskell, E. F., Jr. 15-3915 S

Hellstrom, G. 15-4051 S 15-4506 S

Helpern, M. 01-4008 N

Hendrick, E. B. 11-3938 S

Henn, R. 25-3971 S

Henn, R. H. E. 25-4168 S

Henning, G. 24-3940 S

Henzel, J. H. 25-4094 N

Herff, A. F., Jr. 15-4146 S

Hermann, R. E. 15-3914 S

Herrero, F. A. 23-3883 N

Herzog, K. 01-4186 S

Heyer, H. E. 24-4156 S

Hicks, A. F. 12-4039 S

Hill, R. M. 15-4035 N

Hinchey, J. J. 17-3788 S

Hinshaw, D. B. 15-4144 S 24-3896 S

Hjelmstedt, A 17-3944 S

Hodge, P. R. 01-4012 S

Hoffmann, V. 03-4090 S

Hogman, L. 13-3936 S

Holczabek, W. 23-3767 S

Holinger, P. H. 12-3911 S 12-4150 N

Hollings, R. M. 15-4047 S

Hollingsworth, K. 01-4175 S

Hopkins, R. W. 24-3898 N

Hopkinson, B. R. 13-4129 N

Hopson, W. B. 15-3825 S

Howanietz, L. 18-4061 S

Howard, J. M. 13-4160 S 13-4161 S 15-3801 S 24-4195 S

Howard, J. R. 04-4187 N

Howell, J. F. 14-3846 S

Howland, W. S. 24-3903 S

Huang, C. T. 22-3947 S

106

Hubay, C. A. 15-3914 S 18-4133 S

Hudson, A. R. 11-3938 S

Hughes, C. W. 17-4197 S

Hugin, W. 02-4019 N 24-3735 N

Humm, R. 13-4081 S

Hung, C. R. 15-4542 S

Hunter, D. C., Jr. 21-4519 S

Hurwitt, E. S. 15-3929 N

Hyde, C. J. 01-3848 N

Inui, F. K. 24-4195 S

Irving, M. H. 11-4108 S

Irving, P. M. 11-4108 S

Izant, R. J., Jr.

18-4133 S Jacobson, L. F.

14-3776 S Jahnke, E. J., Jr. 14-4048 N

Jamieson, K. G. 01-2592 S 01-3805 S

Jenkins, S. G., Jr. 15-4052 N

Jenny, R. H. 13-4077 N

Jensen, O. M. 14-4528 S

Joergenson, E. 24-3832 S Johansson, L. 13-4163 S 13-4526 S

Johnston, C. G. 14-3776 S

Jones, M. D. 12-4001 S

Jones, R. C. 14-4048 N

Jordan, P., Jr. 14-3776 S

Jordan, W. C. 14-3717 S

Joynt, G. H. C. 13-3783 N

Jude, J. R. 02-3718 S 02-3774 S

Junghanns, H. 03-4539 S

Jurkiewicz, M. J. 23-3883 N

Kahn, A. R. 04-4138 N

- Kale, P. A. 02-4078 N

Kamprad, F. 25-3759 N

Kao, T. C. 15-4542 S

Kapandji, A. 17-3965 S

Kaplan, B. M. 02-3905 S

Karimi–Nejad, A. 22-3739 S

Karl, W. F. 02-3808 N

Karlson, K. E. 13-3794 S 13-3912 S

Kassell, N. F. 22-4143 S Kaulbach, W. 14-4122 N 25-4062 N

Keller, J. W. 13-4518 S

Kellum, H. 13-4072 S

Kemmerer, W. T. 24-4014 S

Kempf, F. K. 13-4067 N

Kennedy, A. C. 23-4046 N

Ker, H. 13-3999 N

Kernahan, D. A. 31-3877 N 31-3910 N

Kessler, H. 12-4039 S

Kessler, M. 25-3759 N

Ketz, E. 11-3742 S 11-4166 S

Key, **J**. **A**. 17-3847 S

Killen, D. A. 15-3908 S

Kimura, M. 12-4514 S

King, B. G. 01-4097 S 01-4190 N

King, J. M. 01-3956 N

Kirby, **E**. **L**. 04-4178 N

Kleinert, H. E. 14-4165 N

15-4054 S

Knight, B. 21-4164 S Knott, A. P., Jr. 02-3905 S

Kocsar, L. 25-3946 S

Koeberle, H. 21-4134 S

Kootz, F. 03-3979 S

Koslowski, L. 03-3982 S 22-3737 S

Kossuth, L. C. 01-3928 N 01-4102 S 02-4188 N

Kouwenhoven, W. B. 02-3718 S 02-3774 S

Kramer, G. 11-3964 N

Kraus, H. 02-4000 N

Krebs, H. 14-4122 N

Kremser, K. H. 25-3703 S

Kubryk, **D**. 01-4017 N

Kuhlendahl, H. 12-4538 N

Kuhne, H. 25-3703 S

Kulowski, Jr. 17-3917 S

Kunz, H. 18-4061 S

Kuo, B. W. F. 23-4123 S

Lafontaine, E. 04-4177 S

Laqua, H.

01-3751 S

Knickerbocker, G. G. Langfitt, T. W. 02-3774 S 22-4143 S

Lucido, J. L.

Lui, A. H. F.

Luke, R. G.

14-3893 N

14-3876 N

23-4046 N

Lauppi, E. 23-3768 S

Laur, A. 21-3758 S

Lausberg, G. 12-4117 S

Lavelle, E. F. 01-4096 S

Lavernhe, J. 04-4177 S

Lawrence, R. 01-3824 S

Lehman, S. P. 01-4175 S

Lehmann, H. D. 02-3740 S 03-3961 S

Lehr, H. B. 25-3705 S

Leibe, H. 25-3759 N

Leighton, R. S. 22-4098 S

Lejeune, F. E., Jr. 23-3812 N

Lemire, J. R. 15-4103 N

Lempke, R. E. 13-4130 N

Lena, A. 17-3707 S

Le Peltier, M. 17-4533 S

Lequesnne, M. 04-4177 S

Lequire, C. B. 25-4153 N

Lequire, V. S. 25-4153 N

Levine, J. I. 16-4149 S

Lewin, W. 22-4500 S Lewis, N. R. 11-3854 S Lewis, R. 13-3909 N

Liebenow, H. C. 03-3981 S

15-4132 N

24-3897 S

02-3949 S

24-3755 N

24-3968 N

18-4172 N

Littleton, J. T.

Lloyd, J. W.

Lob, A.

02-3916 N

13-3841 S

02-3700 N

Logan, W. D., Jr.

14-3717 S

11-3760 S

Longerbeam, J. K.

24-3823 S

24-3897 S

24-3713 S

Lord, J. W., Jr.

Lorin, H.

25-3791 S

11-4151 N

Lougheed, J. C.

01-3925 N

Lowenfels, A. B.

25-3791 S

Lowman, E. W.

12-3843 S

17-3930 S

Lucas, G. L.

Lorbeck, W.

Lojacono, F.

Lindgren, S.

Lindenschmidt, T. O.

Lillehei, R. C.

Lind, B.

Lies, B. A., Jr. Lundberg, N. 11-4151 N

> Lundevall, J. 14-3719 S

Lyons, H. A. 13-3794 S 22-3947 S

Maciver, I. N. 11-3922 S

Maguire, C. H. 14-4083 S 14-4157 S

Mahler, W. 03-3978 S

Makela, T. 11-3746 S

Manax, W. G. 24-3897 S

Manheimer, D. I. 01-3821 S

Marberger, H. 16-4075 N

Mardis, H. K. 15-3842 S

Martinez, L. 02-3807 N

Massey, B. D. 15-3785 S

Massey, T. N., Jr. 21-4053 N

Maurer, G. 15-3991 S

Maynard, A. De L. 14-3830 S

Maynard, A. L. 14-4522 S

McCarroll, J. R. 01-4008 N 21-3882 S 24-3710 S

McClellan, R. J. 22-3728 S

McClelland, R. N. 15-3706 S

McClenathan, J. E. 13-3836 N

McDougall, R. 01-4194 N

McFarland, R. A. 18-4003 N

McGovern. F. 12-4006 S

McKissock, W. 11-4124 S

McKnight, J. T. 14-3892 N

McLaurin, R. L. 22-3939 S

McLean, A. P. H. 23-4128 S

McMahon, M. C. 02-3718 S 02-4511 N

McManus, J. F. A. 21-3924 N

McPherson, R. C. 24-3796 S

Meckstroth, C. V. 13-4518 S

Meirowsky, A. M. 11-4024 S

Mejia, R. H. 24-3935 S

Mellinger, G. D. 01-3821 S

Meyer, J. A. 14-3892 N

Michaelis, M. 24-3940 S

Mikesky, W. E. 15-3801 S

Miller, D. S. 17-3901 N

Miller, H. 11-3880 S

Milner, B. 03-3900 N

Miyakawa, G. 16-4085 S

Moggi, L. 14-3776 S

Montgomery, D. 01-4096 S

Moore, J. R. 16-4064 S

Morton, K. S. 25-3787 S

Moss, L. K. 15-4005 S

Mueller, C. B. 15-3865 N

Muller, N. 11-3752 N

Muller, W. 24-3896 S

Munro, D. D. 23-4128 S

Munson, E. T. 02-3845 N

Murga, F. 15-4084 S

Musolino, A. 24-3710 S

Myers, R. N. 04-4110 N

Nachtrab, H. 03-3980 S

Naclerio, E. A. 14-4522 S

Nation, E. F. 15-3785 S

Neely, W. A. 17-4071 S

Netterville, R. E. 13-3798 S

Neville, J. F., Jr. 14-3892 N

Nick, J. 11-3960 S

Nietlispach, L. 15-3967 S

Nockemann, P. F. 11-4089 S

Noer, R. J. 01-3955 N

Norman, W. D. 13-3907 S

Norris, J. L. 02-3845 N

Noyes, F. 01-3918 S

Nystrom, S. 11-3746 S

O'Brien, **S**. **E**. 15-3772 S

O'Connor, B. T. 13-3841 S

O'Conor, V. J. 24-4057 N

O'Conor, V. J., Jr. 24-4057 N

O'Dea, **J. St. L**. 01-4096 S

O'Leary, **T. J.** 04-4018 N 04-4139 N

O'Reilly, M. J. J. 21-4119 S

Oberniedermayr, A. 15-3750 S

Obrador Alcalde, S. 11-3963 S

Olinde, H. D. H. 15-4082 S

Olsen, A. K. 11-4502 S

Orecchia, C. 11-3760 S

108

Orlowski, T. 25-3756 N

Owen, J. K.

01-3811 N Owens, J. C. 01-3853 N

Pace, W. G. 13-4518 S

Parrish, R. A. 15-3797 S

Pate, J. W. 12-3702 S

Paterson, D. C. 12-4167 N

Patman, R. D. 17-3708 S

Patti, M.

04-4173 N

Peart, A. F. W. 02-4023 N

25-4534 S Peltier, L. F. 16-3790 S

Pelliccioni, S.

25-3786 S Penn, I.

24-3898 N Perry, J. F., Jr.

15-3709 S 22-3728 S 24-4050 S

Peters, G. 11-4166 S

Peterson, C. G. 24-3954 N

Pettinari, V. 02-4185 S

Phillips, P. J. 02-4170 N

Pia, H. W. 11-3747 S

Pike, M. C. 01-3948 S **Pizzi, W. F.** 02-4127 N

Plummerault, J. 17-4037 S

Poisvert, **M**. 04-4140 N

Ponka, J. L. 18-4058 N

Pories, W. J. 25-4094 N

Pothe, H. 11-3966 S

Poulos, E. 17-3708 S

Pridgen, J. E. 15-4146 S

Proctor, D. M. 01-3948 S

Prud'Homme, **J**. **L**. 15-4146 S

Quast, D. C. 14-3725 S 15-3891 S

Raaf, J. 11-3884 S

Ralston, G. J. 11-3933 S

Rand, W. 24-3809 N

Ransdell, H. T., Jr. 13-3712 S 14-4158 S

Reams, G. D. 13-3781 N

Redington, J. V. 14-3716 N

Reemtsma, K. 24-4014 S

Rees, W. D. 18-3835 N

Regli, **F**. 11-4536 S

Reichmann, W. 03-3983 S **Reid**, **J**. **M**. 13-3864 S

Reitman, N. 02-3885 N

Ricks, R. K. 14-3846 S

Rieker, J. 11-3923 N

Ripstein, C. B. 14-3861 N

Rives, J. D. 15-4106 S

Robertson, W. G. 23-3875 S

Robins, M. 12-4039 S

Rodewald, **G**. 13-4087 S

Roe, B. B. 14-3716 N

Romanos, A. N. 13-3895 N

Romero, J. 15-4054 S

Root, G. T. 15-3799 S

Rose, W. 03-3743 S 03-3744 S

Rosoff, L. 24-3822 N

Rosomoff, **H**. **L**. 11-4502 S

Rossier, A. 21-3959 S

Rowbotham, G. F. 11-3922 S

Rowe, N. L. 02-3777 N

Ruggiero, G. 22-4098 S

> Ryan, G. A. 01-3726 S

Sabga, G. 24-3898 N

Safar, P. 02-3874 N 02-3888 N

Sakakibara, K. 03-4525 N

Sako, Y. 24-4195 S

Saldeen, T. 12-4116 N

Salem, G. 24-4513 S

Sambhi, M. P. 24-3804 S

Samson, P. C. 13-3909 N

Samuel, E. 14-3942 N

Sanders, J. W. 15-3825 S

Sandor, F. 12-3803 N

Sanzenbacher, L. 13-4518 S

Sarris, M. C. 13-3895 N

Schafer, H. 15-3991 S

Schairer, E. 13-4091 N

Schenk, W. G. 13-4129 N

Schlessinger, E. 13-3909 N

Schlottman, G. C.

15-3842 S

Schmidt, F. E.

Scholler, K. L.

04-3977 N

04-3984 S

13-4072 S

Schramel, R.

15-4005 S

02-4523 N

Schrire, T. 11-4002 S

Schrogie, J. J. 02-3887 N

Schubert, G. E. 21-4134 S

Schurmann, K. 11-3738 S

Schwab, J. M. 23-3894 N

Schweizer, O. 24-3903 S

Scott, R., Jr., 15-4073 S

Segerberg, L. H. 11-4199 N

Seremetis, M. 01-4008 N

Seremetis, M. G. 21-3882 S

Serenvi, P. 25-3946 S

Shaftan, G. W. 15-4126 S

Shapiro, J. L. 25-4153 N

Sherman, R. 15-4022 S

Sherman, R. T. 13-4125 S 15-3797 S 15-3825 S

Shires, T. 15-3706 S

Shirkey, A. L. 14-3725 S 15-3701 S

Shubin, H. 24-3809 N 24-3810 N 24-3822 N 24-3844 S

Sicard-Nick, C. 11-3960 S

Sigaudo, F. Speier, F. 11-3760 S Silander, T. Spelman, J. W.

13-4163 S

13-4526 S

15-3929 N

Simeone, F. A.

24-3898 N

17-3708 S

15-3827 N

Skudder, P. A.

01-3906 N

24-3710 S

Smedley, W. P.

Smith, A.C.

Smith, E. E.

Smith, H. J.

Smith, J. L.

Smith, L. L.

Solheim, K.

Soracco, G.

Sox, E. D.

Spadaro, G.

Spann, W.

15-3823 N

13-3841 S

24-3934 N

02-3858 S

25-4094 N

24-3896 S

13-3723 S

15-3720 S

18-3802 S

14-3717 S

Sordillo, S. V. R.

11-4540 S

01-4097 S

15-4044 S

Spanknebel, G. L.

02-4078 N

25-3971 S

25-4168 S

Silver, C. E.

Sires, G. T.

Sizer, J. S.

25-3705 S Spencer, F. C.

02-4030 N 14-4032 S

Sperling, E. 13-3753 N

Spitz, W. U. 02-3764 N

Spruth, G. 21-3758 S

Spurling, R. G. 11-4199 N

Stark, R. B. 11-3793 N

Stark, R. M. 16-3789 S

Stemmler, E. J. 02-4145 S

Stephens, F. O. 15-4047 S

Stern, G. 11-3880 S

Stevens, E. 13-4520 S

Stonehill, R. B. 04-4136 N

Stoney, R. J. 14-3716 N

Storen, G. 17-3937 S

Stovner, J. 02-3949 S

Strahberger, E. 24-4513 S

Strassmann, G. 14-4033 S

Sturim, H. S. 15-3826 N 15-4131 S

Sullivan, C. R. 16-4034 N

Sunday, H. B. 16-4085 S

Sundstrum, R. 17-3944 S

Szabo, G. 25-3946 S

Tait, I. A. 01-2592 S

Talbert, G. M. 02-3873 N

Tannanbaum, H. M. 22-4143 S

Taubert, E. 13-4182 N

Taylor, J. C. 11-4124 S

Teare, R. D. 25-3775 N

Templeton, A. W. 13-4520 S

Templeton, J. Y., III. 02-3820 N

Testart, J. 21-3757 N

Thal, A. P. 15-3899 N

Thies, W. 22-3737 S

Thompson, R. J., Jr. 15-4144 S

Thomson, N. B., Jr. 13-4056 N

Thum, H. J. 11-4063 S

Till, K. 11-4124 S

Tirone, S. 11-3761 S

Tomskey, G. C. 15-3842 S

Tomza, J. 25-3756 N Tonge, J. I. 21-4119 S

Topley, E. 24-4020 S

Troupp, H. 11-4151 N

Tsai, T. C. 15-4542 S

Udhoji, V. N. 24-3804 S 24-4510 S

Ulin, A. W. 11-4502 S

Ungeheuer, F. 02-4524 N

Vannix, R. 24-3832 S

Van Wagoner, F. H. 21-4504 S

Vidrine, A., Jr. 15-4106 S

Von Berg, V. J. 14-3776 S

Voorhees, R. J. 14-3893 N

Voris, H. C. 22-3769 S

Wade, P. A. 01-3851 N 01-3906 N 01-4008 N 01-4010 N 01-4015 N 24-3710 S

> Wagner, C. J. 02-3795 N

Wagner, W. 24-3832 S

Walker, J. E. C. 02-3873 S

Wallace, P. B. 11-4042 S

Wallenborn, W. M. 12-4006 S

Waller, D. J. 04-4141 N	Watne, A. L. 15-3915 S	Wertzberger, J. J. 25-3773 S	Wilson, H. 12-3702 S 15-4022 S	Wyllie, J. M. 01-3948 S
Waller, J. A. 01-3824 S	Wayne, E. R. 15-3827 N	Weston, J. T. 23-3889 S	Wilson, J. N.	Yasargil, E. C. 24-3958 N
01-38578 01-39188 01-3926 N	Weil, M. H. 24-3804 S 24-3809 N	White, J. C. 22-4503 N	24-3890 N	Yelverton, R. L. 15-3819 S
Walton, B. E. 23-3883 N	24-3810 N 24-3822 N 24-3844 S	Whitfield, R. D. 22-4503 N 22-4521 S	Wilson, R. F. 14-3829 S 15-3899 N	Youmans, J. R. 11-3792 S
Ware, R. W. 04-4138 N	24-4510 S Weinberg, S. 01-4008 N	Wilder, R. J. 02-3718 S	Wirka, H. W. 17-3930 S	Zabinski, E. J. 15-4198 S
Wassner, U. J. 03-3715 S	Weinberg, S. B. 21-3882 S	02-4511 N Williams, J. S.	Wolfson, L. J . 24-3952 N	Zehnder, M. A. 14-3766 S 14-4059 S
Waters, J. M., Jr. 01-4193 N 04-4093 N	Weller, S. 04-3977 N 04-3984 S	Willox, G. L. 15-3866 S	Worman, L. W. 01-3956 N	Zeldenrust, J. 14-4527 S
Waters, W. R. 31-3831 N	Wellmer, H. K. 03-3983 S	Wilson, C. B. 15-4106 S	Wray, J. B. 11-4104 S	Zhukov, B. P. 02-4530 N
Watkins, H. O. 15-4146 S	Welply, W. R. 01-3886 N	Wilson, D. H. 15-4147 S	Wukasch, D. C. 15-3701 S	Zuidema, G. D . 15-3867 N

injuries of	ABDOMEN causing rupture of	15-3866 S
wounds of the	ABDOMEN. Stab	15-3825 S
wounds of the	ABDOMEN Analysis of 500 stab	15-4005 S
wounds of the	ABDOMEN Civilian penetrating	15-4022 \$
would of the	ADDOMEN, Civilian penetrating	15 4044 8
traumas of the	ABDOMEN. Lesions of the spleen	15-4044 5
of the	ABDOMEN. Nonpenetrating wounds	15-4082 S
wounds of the	ABDOMEN. Penetrating	15-4146 S
wounds of the	ABDOMEN. X-ray diagnosis of	15-3867 N
fractures. Major	ABDOMINAL injuries associated	16-4149 S
Blunt	ABDOMINAL injuries in childhood.	15-3750 S
treatment of	ABDOMINAL injuries in the traffic	15-3799 S
Closed	ABDOMINAL injuries	15-3720 S
ciobea	ABDOMINAL injuries	15-4035 N
Closed	ADDOMINAL injuries.	15-4047 8
	ADDOMINAL injuries.	15 2700 5
of 152 acute	ABDOMINAL injuries. A five-year	15-3709 5
of closed	ABDOMINAL injuries. Incidence,	15-4147 S
non-penetrating	ABDOMINAL injuries. Surgical	15-4028 S
Nonpenetrating	ABDOMINAL injury.	15-4542 S
Unrecognized	ABDOMINAL trauma in patients	15-4106 S
Blunt	ABDOMINAL trauma.	15-3915 S
Blunt	ABDOMINAL trauma	15-3991 S
of blunt	ABDOMINAL trauma Management	15-4052 N
Blunt	ABDOMINAL trauma	15-4054 \$
Diant	ABDOMINAL trauma	15-4196 \$
due to blunt	ABDOMINAL trauma Complete	15-3860 N
nonnonotrating	ABDOMINAL trauma Injury of the	15-3000 N
of blunt	ABDOMINAL trauma, Injury of the	15 2067 8
of ofunt	ADDOMINAL trauma. Special features	13-3907 3
and respiratory	ABNORMALITIES. Severe	22-3947 5
snock.	ABOUT the indication of intra-venous	24-3/35 N
scene of an	ACCIDENT and during transport with	03-3961 S
the scene of the	ACCIDENT and during transportation.	03-4090 S
Dublin.	ACCIDENT and emergency services in	01-3919 N
Dublin.	ACCIDENT and emergency services in	01-4096 S
aid at scene of	ACCIDENT and first therapy after	03-3714 S
at the site of	ACCIDENT and transportation to the	03-3979 S
function of an	ACCIDENT flying squad. Organization	03-3815 N
	ACCIDENT from the nothologist's view	22 2076 0
fatal traffic	ACCIDENT HOM the pathologist's view	23-39/03
fatal traffic the Birmingham	ACCIDENT hospital. The stages of	23-3976 S 01-3941 S
fatal traffic the Birmingham at the site of an	ACCIDENT hospital. The stages of ACCIDENT in a medium size town.	23-3976 S 01-3941 S 03-3981 S
fatal traffic the Birmingham at the site of an changes in traffic	ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT in juries for the ten-year	23-3976 S 01-3941 S 03-3981 S 01-4529 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of	ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT in juries for the ten-year ACCIDENT injury care.	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient	ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT in juries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injury for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT strice. The organization of ACCIDENT site with reference to ACCIDENT site Medical first aid	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the at the	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT site with reference to ACCIDENT site. The organization of ACCIDENT site. The outcome of the	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the The	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT success of motowwww	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the at the care at the the	ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery of motorways.	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the at the care at the The viewpoint of	ACCIDENT hom the pathologist's view ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the at the care at the The viewpoint of Japanese traffic	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the the viewpoint of Japanese traffic care of highway	ACCIDENT hom the pathologist's view ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. Estimating	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the The viewpoint of Japanese traffic care of highway automotive	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. The pathology of	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the at the care at the The viewpoint of Japanese traffic care of highway automotive site of the	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. Estimating ACCIDENT victims. The pathology of ACCIDENT. First management of the	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the The viewpoint of Japanese traffic care of highway automotive site of the scene of an	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. The pathology of ACCIDENT victims. The pathology of ACCIDENT. First management of the ACCIDENT. First treatment at the	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the The viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic	ACCIDENT hosn the pathologist's view ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. Estimating ACCIDENT victims. The pathology of ACCIDENT. First management of the ACCIDENT. First treatment at the ACCIDENT. First treatment of the	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 23-3754 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the the viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. Estimating ACCIDENT victims. The pathology of ACCIDENT, First management of the ACCIDENT. First treatment at the ACCIDENT. First treatment of the ACCIDENT. Immediate measures	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 23-3754 S 02-3849 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the The viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of of	ACCIDENT hom the pathologist's view ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. Estimating ACCIDENT victims. The pathology of ACCIDENT. First management of the ACCIDENT. First treatment at the ACCIDENT. First treatment of the ACCIDENT. Immediate measures ACCIDENT. Medical aid on the site	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 23-3754 S 02-3849 N 03-3980 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of the site of the	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. Estimating ACCIDENT victims. The pathology of ACCIDENT. First management of the ACCIDENT. First treatment at the ACCIDENT. First treatment of the ACCIDENT. Medical aid on the site ACCIDENT. Skull injuries as seen by	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 23-3754 S 02-3849 N 03-3980 S 03-3743 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the the viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of the site of the	ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. The pathology of ACCIDENT victims. The pathology of ACCIDENT. First management of the ACCIDENT. First treatment at the ACCIDENT. First treatment of the ACCIDENT. Medical aid on the site ACCIDENT. Skull injuries as seen by ACCIDENT. The physician's kit for	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 23-3754 S 02-3849 N 03-3980 S 03-3743 S 02-4524 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the The viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of the site of the the scene of the following	ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. The pathology of ACCIDENT victims. The pathology of ACCIDENT. First treatment of the ACCIDENT. First treatment of the ACCIDENT. Immediate measures ACCIDENT. Medical aid on the site ACCIDENT. Skull injuries as seen by ACCIDENT. The physician's kit for ACCIDENTAL electrocution. Findings	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 03-3980 S 03-3743 S 02-3849 N 03-3980 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the care at the The viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of the site of the the scene of the following child-years of	ACCIDENT hom the pathologist's view ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. The pathology of ACCIDENT victims. The pathology of ACCIDENT. First treatment of the ACCIDENT. First treatment of the ACCIDENT. First treatment of the ACCIDENT. Immediate measures ACCIDENT. Medical aid on the site ACCIDENT. Skull injuries as seen by ACCIDENT. The physician's kit for ACCIDENTAL electrocution. Findings ACCIDENTAL injuries. 50,000	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 03-3962 N 03-3980 S 03-3743 S 02-4524 N 02-3764 S 01-3821 S
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the at the care at the The viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of the site of the the scene of the following child-years of Research on	ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. Estimating ACCIDENT victims. The pathology of ACCIDENT. First management of the ACCIDENT. First treatment at the ACCIDENT. First treatment of the ACCIDENT. Immediate measures ACCIDENT. Medical aid on the site ACCIDENT. Skull injuries as seen by ACCIDENT. The physician's kit for ACCIDENTAL electrocution. Findings ACCIDENTAL injuries. 50,000	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 23-3754 S 03-3743 S 02-4524 N 02-3764 S 01-3821 S 18-4003 N
fatal traffic the Birmingham at the site of an changes in traffic Urgency of an efficient First aid at the care at the The viewpoint of Japanese traffic care of highway automotive site of the scene of an with traffic at site of the site of the the scene of the following child-years of Research on Traffic	ACCIDENT hospital. The stages of ACCIDENT hospital. The stages of ACCIDENT in a medium size town. ACCIDENT injuries for the ten-year ACCIDENT injury care. ACCIDENT service. The organization of ACCIDENT site with reference to ACCIDENT site. Medical first aid ACCIDENT site. Medical first aid ACCIDENT site. The outcome of the ACCIDENT site. The outcome of the ACCIDENT surgery of motorways. ACCIDENT surgery. Experiences with ACCIDENT surgery. Experiences with ACCIDENT victims. Ambulance brings ACCIDENT victims. The pathology of ACCIDENT victims. The pathology of ACCIDENT. First management of the ACCIDENT. First treatment at the ACCIDENT. First treatment of the ACCIDENT. First treatment of the ACCIDENT. Medical aid on the site ACCIDENT. Skull injuries as seen by ACCIDENT. The physician's kit for ACCIDENTAL electrocution. Findings ACCIDENTAL injuries. 50,000 ACCIDENTAL trauma in the armed ACCIDENTS and aspiration death.	23-3976 S 01-3941 S 03-3981 S 01-4529 S 02-3762 N 01-3816 N 03-3982 S 02-4180 N 03-3744 S 01-4015 N 03-3983 S 03-4505 N 01-4190 N 21-3882 S 03-3993 N 03-3962 N 23-3754 S 02-3849 N 03-3980 S 03-3743 S 02-4524 N 02-3764 S 01-3821 S 18-4003 N 23-3729 S

automobile	ACCIDENTS and laryngeal and upper	12-3911 S
by traffic	ACCIDENTS and the current status of	24-4513 S
of traffic	ACCIDENTS and their significance for	02-3700 N
Traffic	ACCIDENTS as viewed by the surgeon.	01-3749 S
Fatal traffic	ACCIDENTS in Adelaide.	01-4012 S
Fatal traffic	ACCIDENTS in Brisbane from 1935 to	21-4119 S
Traffic	ACCIDENTS in Canada.	01-4017 N
first and for	ACCIDENTS in cities with a rural	03-3715 S
Control of	ACCIDENTS in rural areas.	01-3857 S
Traffic	ACCIDENTS medical bibliography,	31-2631 N
injuries. Road	ACCIDENTS, Essentials in treating	02-4000 N
venicie	ACCIDENTS, Infinitediate care to back	02-4100 N
on traffic	ACCIDENTS, Injunes in ACCIDENTS, Pilot study	01-3720 S
Road	ACCIDENTS	03-4337 S
tractor	ACCIDENTS. Agricultural	18-3835 N
road	ACCIDENTS. Injuries from	18-4009 S
of fatal	ACCIDENTS. An analysis of 827 cases	14-3713 S
fatal traffic	ACCIDENTS. Autopsy findings in 127	22-3728 S
after traffic	ACCIDENTS. Cervical spine	12-4001 S
in traffic	ACCIDENTS. Chest injuries	13-4526 S
automobile	ACCIDENTS. Emergency management	23-3883 N
automobile	ACCIDENTS. Fat embolism in fatal	25-3721 S
automotive	ACCIDENTS. Fatal pedestrian	01-4008 N
automobile	ACCIDENTS. Fractures of the shaft	17-3917 S
of traffic	ACCIDENTS. Investigations about the	01-4186 S
traffic	ACCIDENTS, Un time relations between	02-3993 5
Uralfic Oslo traffic	ACCIDENTS, Patterns of thoracic	10 2002 0
Usio traffic	ACCIDENTS, Pedesthan deaths	10-2002 5
of traffic	ACCIDENTS. The aspiration in victims	23-3768 \$
in automobile	ACCIDENTS. The current status of	01-3925 N
in traffic	ACCIDENTS. The interest of organized	02-4023 N
death in	ACCIDENTS. The significance of	23-3763 S
in traffic	ACCIDENTS. Traumatic aortic rupture	14-4527 S
to road	ACCIDENTS. Traumatic rupture of the	14-3719 S
Central	ACETABULAR fractures.	16-3789 S
for community	ACTION on emergency medical services	01-4179 N
serum lipase	ACTIVITY of patients following	25-3786 S
survey of 152	ACUTE abdominal injuries. A	15-3709 S
The etiology of	ACUTE brain swelling following	22-4143 S
cases of grave	ACUTE cranial injuries. Statistical	22-3765 S
	ACUTE cranial trauma.	22-4098 S
	ACUTE has d inium.	11-4199 N
the notiont with	ACUTE head injury.	11-4502 5
cases of	ACUTE injury to the head Analysis	11-3004 5
occurring during	ACUTE myocardial infarction A	24-4156 S
after fracture	ACUTE neptic ulceration and cerebral	24-4150 S 25-3775 N
glucocorticoids.	ACUTE pharmacodynamic effects of	24-3804 S
mechanism of	ACUTE renal failure after injury and	15-3865 N
trauma.	ACUTE renal failure following	24-4057 N
Zurich with	ACUTE skull and brain injuries.	11-4536 S
in the	ACUTE stage of craniocerebral	11-3738 S
treatment of	ACUTE thoracic injuries.	13-3936 S
with severe	ACUTE traumatic brain injury.	11-4151 N
aorta.	ACUTE traumatic rupture of the	14-4048 N
treatment of	ACUTE traumatic spinal cord injuries	21-3959 S
hematoma. The	ACUTE, subacute and chronic subdural	11-3/46 S
transfers of	ACUTE, subacule, and enfonce subdufal	11-4340 S
accidents in	ADELAIDE, Fatal traffic	02-3910 N
~ wented III		01 1012 0

about the	ADFOLIACY of emergency hospitals for	01.4186 \$	troops	AMERICAN beliconters and Sydney	01-4005 N
thorony often	ADMISSION to amanganay noom. Einst	02 2714 6	100p3,	ANAL VOID - 6 - Indications in a synthesis	01-2040 0
therapy arter	ADMISSION to emergency room. First	03-3/14 5	ward.	ANALYSIS of admissions to a casualty	01-3948 S
Analysis of	ADMISSIONS to a casualty ward.	01-3948 S	injuries.	ANALYSIS of factors affecting	13-4072 S
emergency room	ADMISSIONS. An analysis on 2,418	01-3862 S	the head.	ANALYSIS of 1.400 cases of acute	11-3922 S
leg fractures in	ADULTS Analytical study of 122	17-4037 \$	abdomen	ANALVSIS of 500 stab wounds of the	15 4005 5
trauma in	ADULTS Nonconstruction should	17 1007 D		ANAL ISIS OF 500 stab woulds of the	13-4003 3
trauma m	ADULIS. Nonpenetrating chest	13-3/83 N	accidents. An	ANALYSIS of 827 cases of fatal	24-3713 S
circumstances.	AERIAL medical evacuation with	04-4139 N	An	ANALYSIS of 950 fatal injuries.	25-3705 S
injured.	AERIAL transport of the sick and	04-4177 S	admissions An	ANALVSIS on 2 418 emergency room	01-3862 \$
in the	AEDIAL transportation of nationts to	04 4019 N	in - Julta	ANALYTICAL at 1 a 6102 1: 1 a 1	17 4027 0
In the	AERIAL transportation of patients to	04-4018 N	in adults.	ANALYTICAL study of 122 diaphysial	17-4037 S
A civilian	AEROMEDICAL lifesaving plan, HELP.	04-4110 N	hospital.	ANESTHESIA and intubation at the	03-3979 S
Incidence	AETIOLOGY diagnosis and prognosis	15-4147 S	in the	ANESTHETIC management of trauma	01.4114 \$
of footors	A EFECTING augurunt often about	12 4072 0	thomasia agentia	ANELIDVONG Transation	12 2026 M
of factors	AFFECTING survival after chest	13-40/2 5	thoracic aortic	ANEUKISMS, Haumanc	13-3830 N
first therapy	AFTER admission to emergency room.	03-3714 S	effects of	ANGIOTENSIN, levarterenol and	24-4510 S
lung collapse	AFTER airway occlusion of 100 percent	23-3875 S	material and	ANIMAL experiments. A study of	25-4153 N
the econhague	AFTER blunt trauma Late runture of	13.4001 N	treatment of	ANKI E fractures Conservative	17.3037 \$
the esophagus	AFTER blunt trauma. Late rupture of	11-4071 N	The	ANNUAL isi an 616 000 000 111	10 4122 0
brain changes	AFIER blunt trauma. The secondary	11-3/52 N	The	ANNUAL injury of 15,000,000 children.	18-4133 5
complications	AFTER brain injuries. Pulmonary	11-3741 S	service	ANSWERS widely scattered calls.	04-4174 N
survival	AFTER chest injuries Analysis of	13-4072 N	of thoracic	AORTA due to closed-chest trauma	14-3716 N
hlandland	AFTED similian informer. Fortant and	24 4020 5	of the	AODTA with aloged about injury	14 2766 8
blood-loss	AFTER civilian injury. Extent and	24-4020 5	or the	AURIA with closed chest injury.	14-3/00 3
fat embolism	AFTER fracture. Acute peptic	25-3775 N	of the	AORTA with special reference to road	14-3719 S
Rehabilitation	AFTER head injury.	11-3854 S	rupture of	AORTA, Traumatic	14-3828 S
fot ombolism	AFTED injuries with different	25 2071 6	the there are	AODTA A report of fifteen notionts	14 4020 5
	AFTER injunes with unrelent	23-39/1 3	the thoracle	AUKIA. A report of fifteen patients	14-4032 5
renal failure	AFTER injury and transfusion	15-3865 N	the thoracic	AURTA. Acute traumatic rupture	14-4048 N
patients dving	AFTER injury. Fat embolism	25-3722 S	wounds of the	AORTA. Homograft patch repair of	14-4165 N
Requestation	AFTER multiple injuries	02-4152 N	of the thoracia	AORTA Nonpenetrating traumatio	14-3802 M
Resuscitation	AFTER multiple injulies.	02-4152 N	of the moracle	AORIA. Nonpenetrating traumatic	14-3092 N
respiration	AFTER spinal cord injury. Impairment	12-3843 S	of the	AORTA. Penetrating wounds	14-4029 S
cineradiography	AFTER traffic accidents. Cervical	12-4001 S	of the	AORTA, Traumatic rupture	14-4033 S
failure	AFTEP trauma Combined renal and	23.4046 N	thoracic	AORTIC aneurysms Traumatic	13.3836 N
Tanture	ACTION THE AL	20-40-40 IN	411010010	AORTIC mentions in Lloud the series	13-3050 N
	AGRICULTURAL tractor accidents.	18-3835 N	traumas.	AORTIC rupture in blunt thoracic	14-4059 5
problems in	AGRICULTURAL trauma. Orthopedic	17-3930 S	Traumatic	AORTIC rupture in traffic accidents.	14-4527 S
room First	AID at scene of accident and first	03-3714 S	Traumatic	AORTIC rupture.	14-4528 S
donaam Einst	AID at the assident site with	02 2021 5	shock Rational	APPROACH to management of clinical	24 3939 5
dangers. First	AID at the accident site with	03-3982 5	shock. Rational	ATTROACT to management of chinical	24-3030 3
about medical	AID at the scene of an accident and	03-3961 S		APROPOS of 268 closed chest injuries.	13-4081 \$
Medical first	AID at the site of an accident in a	03-3981 S	hospital service	AREA. Helicopters expand	04-4187 N
of first	AID during operations of medical	04 4173 N	- in rural	AREAS Control of accidents	01-3857 \$
or mist	Alb during operations of medical	02 2515 0	in the Constian	ADMED former during 1050	01 4016 6
IIrst	AID for accidents in cities with a	03-3715 8	In the Canadian	ARMED forces during 1959.	01-4010 5
of first	AID in severe craniocerebral	22-3974 S	trauma in the	ARMED services. Research on accidental	18-4003 N
On first	AID in very severe craniocerebral	11.3964 N	Cardiac	ARREST.	02-3774 S
Madial	AID on the site of conident	02 2000 0	for circulatory	ADDEST Closed chest cording massage	02 3005 5
Medical	AID on the site of accident.	03-3980 2	for circulatory	ARREST. Closed-cliest cardiac massage	02-3903 3
injuries as an	AID to treatment. Classification of	13-3841 S	to limbs.	ARTERIAL complications of closed	17-3707 S
First	AID treatment, diagnosis and	02-3777 N	Experimental	ARTERIAL fat embolism.	25-3791 S
first	AID Part 1 Disastor	02 4170 N	-	ARTERIAL injuries in civilian	17-4071 \$
11150	AID. Fait 1. Disaster	02-4170 N	,	ADTERIAL injunes in civilian	10,1000.0
first	AID. Organization and scope	02-4185 S	neck.	ARTERIAL injuries of the base of the	12-3/02 8
emergency	AID. Tracheal intubation in first	02-4530 N	of civilian	ARTERIAL injuries. The management	17-3708 S
Canadian	AIR ambulance service answers	04.4174 N	of peripheral	ARTERIAL injuries The recognition	17-3847 S
Callaulan	AID an another a	04 4141 N	formana mamilitaal	ADTEDIAL losions treated by	17 4522 6
respiration in	AIR evacuation.	04-4141 N	remoro popiliear	ARTERIAL lesions treated by	1/-4555 5
	AIR way foreign bodies.	23-4123 S	War.	ARTERIAL repair during the Korean	17-4197 S
roads with	AIRCRAFT, Patrolling	04-4178 N	common carotid	ARTERIES with immediate repair and	12-4159 N
iat	AIPCRAFT The nation in commercial	04-4136 N	femoral	APTERV Closed traumatic runture	17-3863 N
JCI	ADWAY and multiple of the second	12 2004 M		AODEOTO - Contantatio Inpluito	1/-JUUJ IN
of the	AIKWAY and ventilation in trauma.	23-3894 N	Medical	ASPECTS of automotive crash injury	01-4120 S
children.	AIRWAY foreign body fatalities in	23-3889 S	cases of	ASPHYXIATION. Early medical	02-4019 N
collapse after	AIRWAY occlusion of 100 percent	23-3875 S	accidents and	ASPIRATION death	23-3729 S
iniumd	ALL DUDDOSE stratehor reduces	02 2016 N	aggidants The	A SDID A TION in vistime of troffic	22 2769 5
injured.	ALL-I UKI USE SHEICHEI TEURCES	02-3910 N	accidents. The	ADIDATION III VICIIIIS OI ITAIIIC	23-3700 3
at various	AMBIENT pressures. Rate of lung	23-3875 S	significance of	ASPIRATION of blood as cause of	23-3763 S
victims.	AMBULANCE brings operating room to	03-4505 N	Methods of	ASSESSMENT of blood loss in the	02-3850 N
requestitation	AMBIII ANCE design and equipment for	02-3874 N	of medical	ASSISTANCE at the scene of a disaster	02-3748 \$
resuscitation.	AMBULANCE Constitution	02 2007 11	or medical	A GOLOTED and the second of a disaster	02-3740 5
emergency	AMBULANCE from the viewpoint of	03-3983 3	evacuation.	ASSISTED respiration in air	04-4141 N
by trained	AMBULANCE personnel-no fatal injuries	02-3718 S	patients.	ASSOCIATED injuries in head injured	11-4108 S
Canadian air	AMBULANCE service answers widely	04-4174 N	symposium of	ASSOCIATION of surgeons of	03-3704 N
Drowingial wide	AMBULANCE service for Manitoha	01 2006 N	Of 153	ATTEMPTED cardionulmonary	02 2719 5
i tovinciai wide	AMDULANCE SCIVICE IOI Maintoba,	01-3000 IN	V	A LEAD ALLANG CALUDPULLIONALY	02-3/10 3
	AMBULANCE service in Seattle.	01-4175 S	vung Tau-	AUSIKALIAN troops,	01-4095 N
Present status of	AMBULANCE service in the United	01-3834 N	in flight.	AUTOMATIC indirect blood pressure	04-4138 N
medical care	AMBULANCE service transportation or	01-3926 N	trauma	AUTOMOBILE accidents and larvngeal	12-3911 S
mourour varv,	AMDIII ANCE somios A survey of	01 4102 6	in fatal	AUTOMOBILE accidents Eat ambalism	25-3721 0
emergency	AMBULANCE SERVICE. A SURVEY OF	01-4102 3	miatal	AUTOMODILE accidents. Fat embolism	20-01210
and ready	AMBULANCE service. Ten musts of a	02-3856 N	following	AUTOMOBILE accidents. Emergency	23-3883 N
casualties.	AMBULANCE services and traffic	01-4024 S	resulting from	AUTOMOBILE accidents. Fractures of	17-3917 S
Litilization of	AMBUI ANCE services in a rural	01-3824 9	treatment in	AUTOMOBILE accidents The current	01-3925 M
	AMDULANCE SCIVICS III a Iulai	01 3027 3	acatinent ill	AUTOMODILE accidents. The current	01-J72J IN
for emergency	AMBULANCE Services. Standards	02-4191 N		AUTOMOBILE crash injuries.	U3-3831 N
equipment for	AMBULANCES. Minimal	02-4100 N	caused by	AUTOMOBILE seat belts. Intra-	15-4103 N
Yale studies in	AMBULATORY medical care.	01-3818 S	of pedestrial	AUTOMOTIVE accident victims. The	21-3882 S

pedestrian	AUTOMOTIVE accidents. Fatal	01-4008 N	scattered
aspects of	AUTOMOTIVE crash injury research.	01-4120 S	accidents in
The	AUTOMOTIVE safety belt.	15-4132 N	calls.
The	AUTOPSY as research.	21-3924 N	in the
firearms.	AUTOPSY findings in head injuries	22-3953 S	
blunt forces.	AUTOPSY findings in head injuries	22-4517 S	Penetrating
accidents.	AUTOPSY findings in 127 patients	22-3728 S	Closed-chest
in unselected	AUTOPSY material. The incidence of	21-4134 S	Results of
care to	BACK injuries. Vehicle accidents.	02-4188 N	Closed-chest
doses of	BARBITURATES. narcotics and	24-3844 S	
of the	BASE of the neck. Arterial injuries	12-3702 S	
fat embolism	BASED on human necropsy material	25-4153 S	hospital.
The	BASIC surgery of major road injuries.	21-4115 S	personnel.
on the	BASIS of veterans' compensation	11-4537 S	Training in
The seat	BELT syndrome.	15-4101 N	patients with
The seat	BELT syndrome.	18-4007 S	computer of
safetv	BELT. The automotive	15-4132 N	emergency
by seat	BELTS. Injury produced	15-3881 N	medical
safety	BELTS. Fatal neck injuries caused	12-4116 N	Emergency
automobile seat	BELTS. Intra-abdominal injuries	15-4103 N	emergency
safety	BELTS. Protection offered by	18-4172 N	plan for
medical	BIBLIOGRAPHY , 1955-1964, Traffic	31-2631 N	the early
the common	BILE duct due to blunt abdominal	15-3860 N	patient.
to the	BILIARY system in children. Traumatic	15-3902 N	the medical
of the	BIRMINGHAM accident hospital. The	01-3941 S	immediate
and around	BIRMINGHAM in 1960. A study of 183	22-3727 S	emergency
aspiration of	BLOOD as cause of death in	23-3763 S	or medical
assessment of	BLOOD loss in the shocked and	02-3850 N	iniury
	BLOOD loss in trauma.	24-3952 N	medical
indirect	BLOOD pressure determination in	04-4138 N	of both common
time of	BLOOD-LOSS after civilian injury.	24-4020 S	of 1.400
The	BLOODY lanes.	01-4193 N	treatment in
	BLUNT abdominal injuries in	15-3750 S	analysis of 827
	BLUNT abdominal trauma.	15-3915 S	study of 216
features of	BLUNT abdominal trauma. Special	15-3967 S	data on 400
	BLUNT abdominal trauma.	15-3991 S	Report on 41
of	BLUNT abdominal trauma. Management	15-4052 N	of traffic
	BLUNT abdominal trauma.	15-4054 S	and traffic
duct due to	BLUNT abdominal trauma. Complete	15-3860 N	trapped
injuries from	BLUNT forces. Autopsy findings	22-4517 S	Combat
rupture in	BLUNT thoracic traumas. Aortic	14-4059 S	in a mass
trachea.	BLUNT trauma to the larynx and upper	12-4150 N	to a
of severe	BLUNT trauma to the region of the	15-3899 N	cord and
after	BLUNT trauma. Late rupture of the	13-4091 N	of blood as
due to	BLUNT trauma. Rupture of the right	13-4130 N	patients.
due to	BLUNT trauma. Thoracic injuries	13-4518 S	injuries
after	BLUNT trauma. The secondary	11-3752 N	rib fractures
foreign	BODIES in children. Inhaled	23-3806 S	neck injuries
Foreign	BODIES in the tracheobronchial tree	23-3812 N	Deaths
foreign	BODIES in the young child's esophagus	23-4036 N	rates, and
foreign	BODIES. Air way	23-4123 S	The
foreign	BODY fatalities in children. Airway	23-3889 S	
morphological	BRAIN changes after blunt trauma.	11-3752 N	in injuries
n (BRAIN concussion.	11-4086 S	of abdomen
Permanent	BRAIN injuries following traffic	11-3/42 S	A vena
skull and	The second sec	11 4697 6	1 1 1
closed	BRAIN injuries. Clinical experience	11-4536 S	of the vena
traumatio	BRAIN injuries. Clinical experience BRAIN injuries. On the differential	11-4536 S 11-4166 S	of the vena
	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous and discussion	11-4536 S 11-4166 S 11-3741 S	of the vena
of couto	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording	11-4536 S 11-4166 S 11-3741 S 11-4151 N	of the vena ulceration and
of acute	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumer.	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S	of the vena ulceration and frequency of
of acute in serious	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S	of the vena ulceration and frequency of Traumatic
of acute in serious in 1000	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation BRAIN-INJURED persons on the basis BRISBANE from 1935 to 1964 Post-1	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S 11-4537 S 21-4110 S	of the vena ulceration and frequency of Traumatic in treating
in serious in 1000 accidents in iniury in	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation BRAIN-INJURED persons on the basis BRISBANE from 1935 to 1964. Fatal BRISBANE Traffic	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S 11-4537 S 21-4119 S 01-2502 S	of the vena ulceration and frequency of Traumatic in treating outcome of the
of acute in serious in 1000 accidents in injury in traumatic	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation BRAIN-INJURED persons on the basis BRISBANE from 1935 to 1964. Fatal BRISBANE, Traffic BRONCHIAL runtures Contribution to	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S 11-4537 S 21-4119 S 01-2592 S 13-2752 N	ulceration and frequency of Traumatic in treating outcome of the severe closed diamonia of
of acute in serious in 1000 accidents in injury in traumatic	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation BRAIN-INJURED persons on the basis BRISBANE from 1935 to 1964. Fatal BRISBANE, Traffic BRONCHIAL ruptures. Contribution to BUIL LET transaction of both common	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S 11-4537 S 21-4119 S 01-2592 S 13-3753 N	ulceration and frequency of Traumatic in treating outcome of the severe closed diagnosis of
of acute in serious in 1000 accidents in injury in traumatic survival.	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation BRAIN-INJURED persons on the basis BRISBANE from 1935 to 1964. Fatal BRISBANE, Traffic BRONCHIAL ruptures. Contribution to BULLET transection of both common BULL ET wounds of the agenta	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S 11-4537 S 21-4119 S 01-2592 S 13-3753 N 12-4159 N 14-4165 N	ulceration and frequency of Traumatic in treating outcome of the severe closed diagnosis of of the
of acute in serious in 1000 accidents in injury in traumatic survival. repair of literature on	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation BRAIN-INJURED persons on the basis BRISBANE from 1935 to 1964. Fatal BRISBANE, Traffic BRONCHIAL ruptures. Contribution to BULLET transection of both common BULLET wounds of the aorta. BURNS and trauma. Sentember 1962 to	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S 11-4537 S 21-4119 S 01-2592 S 13-3753 N 12-4159 N 14-4165 N 31-3910 N	ulceration and frequency of Traumatic in treating outcome of the severe closed diagnosis of of the accidents.
of acute in serious in 1000 accidents in injury in traumatic survival. repair of literature on literature on	BRAIN injuries. Clinical experience BRAIN injuries. On the differential BRAIN injuries. Pulmonary and BRAIN injury. Continuous recording BRAIN swelling following experimental BRAIN traumas. Limits of resuscitation BRAIN-INJURED persons on the basis BRISBANE from 1935 to 1964. Fatal BRISBANE, Traffic BRONCHIAL ruptures. Contribution to BULLET transection of both common BULLET transection of both common BULLET wounds of the aorta. BURNS and trauma, September 1962 to BURNS and trauma.	11-4536 S 11-4166 S 11-3741 S 11-4151 N 22-4143 S 22-3739 S 11-4537 S 21-4119 S 01-2592 S 13-3753 N 12-4159 N 14-4165 N 31-3910 N 31-3877 N	ulceration and frequency of Traumatic in treating outcome of the severe closed diagnosis of of the accidents. management of layury and

scattered	CALLS. Canadian air ambulance	04-4174 N
accidents in	CANADA. Traffic	01-4017 N
calls.	CANADIAN air ambulance service	04-4174 N
in the	CANADIAN armed forces during 1959.	01-4016 S
	CARDIAC arrest.	02-3774 S
Penetrating	CARDIAC injuries.	14-3717 S
Closed-chest	CARDIAC massage for circulatory arrest.	02-3905 S
Results of	CARDIAC resuscitation in 254 patients.	02-3858 S
Closed-chest	CARDIAC resuscitation.	02-3885 N
	CARDIAC resuscitation.	02-4145 S
1	CARDIAC wounds.	14-4040 S
nospital.	CARDIOPULMONARY resuscitation at	02-40/8 N
Training in	CARDIOPULMONARY resuscitation. A	02-3043 IN
I raining in	CARDIOPOLMONARY resuscitation.	02-3667 N
patients with	CARDIOVASCULAR disease. Effects of	04-4137 3
computer of	CARE and disaster management. The	24-3010 N
modical	CARE and disaster management. The	02-3673 N
Emergency	CARE at the according site.	01-3055 N
emergency	CARE of highway accident victims	01-4100 N
nlan for	CARE of the injured	01-3848 N
the early	CARE of the nationt with crushed chest	12.2000 N
nationt	CARE of the severely injured	22-4503 N
the medical	CARE of victime of traffic accidents	01.4186 \$
immediate	CARE to back injuries. Vehicle	02-4188 N
emergency	CARE The role of the emergency	01-3956 N
or medical	CARE Ambulance service	01-3926 N
iniury	CARE. Urgency of accident	02-3762 N
medical	CARE. Yale studies in ambulatory	01-3818 5
both common	CAROTID arteries with immediate	12-4159 N
of 1.400	CASES of acute injury to the head.	11-3922 S
treatment in	CASES of asphyxiation. Early	02-4019 N
analysis of 827	CASES of fatal accidents. An	24-3713 S
study of 216	CASES of femoral neck fracture.	17-3965 S
data on 400	CASES of grave acute cranial injuries.	22-3765 S
Report on 41	CASES of rupture of the spleen.	15-3772 S
of traffic	CASUALTIES in the Canadian armed	01-4016 S
and traffic	CASUALTIES. Ambulance services	01-4024 S
trapped	CASUALTIES. Emergency squad	02-4511 N
Combat	CASUALTY management in Vietnam.	01-4183 N
in a mass	CASUALTY situation. A simplified	13-3781 N
to a	CASUALTY ward. Analysis of	01-3948 S
cord and	CAUDER injuries. Differential	12-4117 S
of blood as	CAUSE of death in accidents. The	23-3763 S
patients.	CAUSE of death in traumatized	25-4534 S
injuries	CAUSED by automobile seat belts.	15-4103 N
rib fractures	CAUSED by traffic accidents and the	24-4513 S
neck injuries	CAUSED by use of diagonal safety belts.	12-4116 N
Deaths	CAUSES in recent thoracic injuries.	23-3767 8
Tates, and	CAUSES of death in civilian patients	12-4010 0
1110	CAUSES of shock with head injury	10-4001 5
in injuries	CAUSING hyper-extension of the	12-4538 N
of abdomen	CAUSING rupture of spleen	15-3866 S
A vena	CAVA filter for the prevention of	21.4510 \$
of the vena	CAVA Surgical correction of injuries	14-3725 \$
or the venu	CENTRAL acetabular fractures	16-3789 S
	CENTRAL venous pressure monitoring	24-3832 S
ulceration and	CEREBRAL fat embolism after fracture	25-3775 N
frequency of	CEREBRAL fat embolism following	25-4168 S
Traumatic	CEREBRAL hemorrhages in childhood.	11-3747 S
in treating	CEREBRO-CRANIAL injuries. Road	02-4000 N
outcome of the	CEREBROCRANIAL injury given	03-3744 S
severe closed	CEREBROCRANIAL trauma. Clinical	02-3740 S
diagnosis of	CERVICAL cord injuries.	12-4167 N
of the	CERVICAL spine and the so-called	12-4538 N
accidents.	CERVICAL spine cineradiography after	12-4001 S
nanagement of	CERVICAL spine injuries. Emergency	12-3771 N
larynx and	CERVICAL trauma. Injuries of the	12-4006 S
brain	CHANGES after blunt trauma. The	11-3752 N

Metabolic	CHANGES associated with hemorrhagic	24-3903 S	mortality of	CLOSED head injuries. Factors in
1951-1960.	CHANGES in traffic accident injuries	01-4529 S	arising from	CLOSED head injury. Disability
Classification of	CHEST injuries as an aid to	13-3841 S	complications of	CLOSED injuries to limbs. Arteria
6 7 11	CHEST injuries in traffic accidents.	13-4526 S		CLOSED injury of the liver.
of flail	CHEST injuries with a piston	13-3712 S	with	CLOSED liver injury. Lesions
268 closed	CHEST injuries. Apropos of	13-4081 S	Traumatic	CLOSED rupture of the diaphragn
of severe	CHEST injuries. Late sequelae	13-4087 S		CLOSED thoracic injuries.
survival after	CHEST injuries. Analysis of factors	13-4072 S	femoral artery.	CLOSED traumatic rupture of con
Crushed	CHEST injury.	13-3864 S	diaphragm.	CLOSED traumatic rupture of the
with closed	CHEST injury. Symptoms and therapy	14-3766 S	arrest.	CLOSED-CHEST cardiac massage
Nonpenetrating	CHEST trauma in adults.	13-3783 S		CLOSED-CHEST cardiac resuscita
Effect of	CHEST trauma upon respiratory	13-3794 S	aorta due to	CLOSED-CHEST trauma. Rupture
hemothorax.	CHEST trauma with pneumothorax and	13-4045 S	Rate of lung	COLLAPSE after airway occlusion
the flail	CHEST wall. A new method of treating	13-3859 N	with the	COLOGNE emergency ambulance
Flail	CHEST.	23-4128 S	clinic in	COLOGNE. Experiences with the
with crushed	CHEST. A regimen for the early care	13-3909 N	The	COMATOSE injured patient.
wounds of the	CHEST. Experience with 472 civilian	13-4125 S	Vietnam.	COMBAT casualty management in
to the	CHEST. Penetrating injuries	13-4160 S	after trauma.	COMBINED renal and respiratory
to the	CHEST. Severe non-penetrating injuries	13-4161 S	on scheduled	COMMERCIAL flights. Medical
wounds of the	CHEST. Treatment of penetrating	13-3912 N	patient in	COMMERCIAL jet aircraft. The
50,000	CHILD-YEARS of accident injuries.	01-3821 S	of the	COMMON bile duct due to blunt
in the young	CHILD'S esophagus presenting with	23-4036 N	of both	COMMON carotid arteries with
injuries in	CHILDHOOD. Blunt abdominal	15-3750 S	rupture of	COMMON femoral artery. Closed
hemorrhages in	CHILDHOOD, Traumatic cerebral	11-3747 S	Suggestions for	COMMUNITY action on emergence
injuries in	CHILDREN, Head	11-3938 S	Opportunity for	COMMUNITY leadership.
injuries in	CHILDREN, Severe head	11 - 4107 S	Estimating	COMMUNITY requirements for th
injuries in	CHILDREN. Thoracic	13-4056 N	resuscitation at a	COMMUNITY teaching hospital.
fatalities in	CHILDREN. Airway foreign body	23-3889 S	in the small	COMMUNITY. Emergency medica
bodies in	CHILDREN. Inhaled foreign	23-3806 S	in a rural	COMMUNITY, Utilization of amb
of 15,000,000	CHILDREN. The annual injury	18-4133 S	services.	COMMUNITY-WIDE emergency m
system in	CHILDREN. Traumatic injuries to	15-3902 N	of veterans'	COMPENSATION records. Finding
room of the	CHIRURGISCHE universitatsklinik	03-3978 S	trauma.	COMPLETE division of the commo
subacute and	CHRONIC subdural hematoma.	11-3746 S	head injuries	COMPLICATED by major extracra
subacute, and	CHRONIC subdural hematoma.	11-4540 S	-	COMPLICATED pelvic fractures.
Cervical spine	CINERADIOGRAPHY after traffic	12-4001 S	fat embolism	COMPLICATING fractures. Treatr
massage for	CIRCULATORY arrest. Closed-chest	02-3905 S	and enteral	COMPLICATIONS after brain inju
of shock.	CIRCULATORY effects of angiotensin,	24-4510 S	of the pelvis.	COMPLICATIONS associated with
Special	CIRCULATORY reactions in the acute	11-3738 S	findings in	COMPLICATIONS following sever
repletion in	CIRCULATORY shock. Fluid	24-3822 N	Arterial	COMPLICATIONS of closed injuri
in particular	CIRCUMSTANCES. Aerial medical	04-4139 N	of the	COMPLICATIONS of injury with
accidents in	CITIES with a rural environment.	03-3715 S	Thromboembolic	COMPLICATIONS of orthopedics
Helicopters in	CIVIL medical evacuations.	04-4093 N	Some	COMPLICATIONS of upper limb
HELP. A	CIVILIAN aeromedical lifesaving plan,	04-4110 N	urinary tract	COMPLICATIONS. Pelvic injuries
management of	CIVILIAN arterial injuries.	17-3708 S	venous	COMPLICATIONS. Penetrating inj
after	CIVILIAN injury. Extent and time	24-4020 S	with a digital	COMPUTER for study and improv
of death in	CIVILIAN patients with spinal cord	12-4515 S	with a digital	COMPUTER of cardiovascular fun-
abdomen.	CIVILIAN penetrating wounds of the	15-4022 S	fracture.	CONCEALED hemorrhage due to
with 472	CIVILIAN penetrating wounds of the	13-4125 S	Oxygen	CONCENTRATIONS achieved wit
injuries in	CIVILIAN practice. Arterial	17-4071 S	today.	CONCEPT of shock in the past and
injuries in	CIVILIAN practice. The surgical	15-4084 S	Brain	CONCUSSION.
heparin	(CLARIN) on the serum lipase	25-3786 S	of 640	CONSECUTIVE liver injuries in
to treatment.	CLASSIFICATION of chest injuries as	13-3841 S	liver in 300	CONSECUTIVE patients. Injuries
university	CLINIC in Cologne. Experiences	03-4512 N	trauma in 259	CONSECUTIVE patients. Manager
the neurosurgical	CLINIC in Zurich with acute	11-4536 S	fractures.	CONSERVATIVE treatment of an
trauma.	CLINICAL and morphological findings	02-3740 S	brain injury.	CONTINUOUS recording of the
injuries.	CLINICAL and statistical	11-3761 S	on the highway.	CONTRIBUTION to the therapy of
brain injuries.	CLINICAL experiences in the	11-4536 S	ruptures.	CONTRIBUTION to traumatic bro
management of	CLINICAL shock. Rational approach	24-3838 S	the diaphragm.	CONTRIBUTION to traumatic rup
The	CLINICAL significance of traumatic	25-3703 S		CONTROL of accidents in rural ar
infarction. A	CLINICAL study of shock occurring	24-4156 S	hemorrhage.	CONTROLLED hypotension in th
records for	CLINICAL surgery. The significance	01-3751 S	lung	CONTUSION. Traumatic nonpene
on a	CLINOMOBILE. Report	03-4539 S	on spinal	CORD and cauder injuries. Differe
	CLOSED abdominal injuries.	15-3720 S	associated	CORD damage. Management of spi
	CLOSED abdominal injuries.	15-4047 S	spinal	CORD injuries. On the initial
prognosis of	CLOSED abdominal injuries.	15-4147 S	of spinal	CORD injuries. Some problems in
spleen in	CLOSED and open traumas of the	15-4044 S	of cervical	CORD injuries. The early diagnosis
of permanent	CLOSED brain injuries. On the	11-4166 S	after spinal	CORD injury. Impairment of
severe	CLOSED cerebrocranial trauma.	02-3740 S	of spinal	CORD injury. On the treatment
of 268	CLOSED chest injuries. Apropos	13-4081 S	with spinal	CORD trauma. Life expectancy,
the aorta with	CLOSED chest injury. Symptoms and	14-3766 S	of the spinal	CORD. Survival of patients with

	mortality of	CLOSED head injuries. Factors in	22-4500 S
	arising from	CLOSED head injury. Disability	11-3932 S
	complications of	CLOSED injuries to limbs. Arterial	17-3707 S
		CLOSED injury of the liver.	15-4506 S
	with	CLOSED liver injury. Lesions	15-4051 S
	Traumatic	CLOSED rupture of the diaphragm.	13-3895 N
	Traumatic	CLOSED thoracic injuries	13-3723 S
	femoral artery	CLOSED traumatic runture of common	17-3863 N
	dianhragm	CLOSED traumatic rupture of the	13-3000 N
	utaphtaght.	CLOSED CHEST cordiac massage for	13-3999 N
	arrest.	CLOSED-CHEST cardiac massage for	02-3905 S
	aarta dua ta	CLOSED CHEST trauma Pupture of	14-3716 N
	Bata of lung	COLLAPSE often simular coolusion of	14-3/10 N
r	Kate of lung	COLOCNE americanou ambulance from	23-30/3 3
	with the	COLOGNE emergency ambulance from	03-3963 3
r	clinic in	COLOGNE. Experiences with the mobile	03-4512 N
	Ine Vistoren	COMPATIONE injured patient.	11-4002 S
	vietnam.	COMBAT casualty management in	01-4183 N
	after trauma.	COMBINED renal and respiratory	23-4046 N
r	on scheduled	COMMERCIAL flights. Medical	04-4135 N
	patient in	COMMERCIAL jet aircraft. The	04-4136 N
	of the	COMMON bile duct due to blunt	15-3860 N
	of both	COMMON carotid arteries with	12-4159 N
	rupture of	COMMON femoral artery. Closed	17-3863 N
	Suggestions for	COMMUNITY action on emergency	01-41/9 N
	Opportunity for	COMMUNITY leadership.	01-3811 N
	Estimating	COMMUNITY requirements for the	01-4190 N
	resuscitation at a	COMMUNITY teaching hospital.	02-4078 N
	in the small	COMMUNITY. Emergency medical	01-3853 N
	in a rural	COMMUNITY, Utilization of ambulance	01-3824 S
	services.	COMMUNITY-WIDE emergency medical	01-4535 N
	of veterans'	COMPENSATION records. Findings in	11-4537 S
	trauma.	COMPLETE division of the common bile	15-3860 N
	head injuries	COMPLICATED by major extracranial	11-3784 N
		COMPLICATED pelvic fractures.	16-4085 S
	fat embolism	COMPLICATING fractures. Treatment	25-4049 N
	and enteral	COMPLICATIONS after brain injuries.	11-3741 S
	of the pelvis.	COMPLICATIONS associated with	16-3790 S
	findings in	COMPLICATIONS following severe	02-3740 S
	Arterial	COMPLICATIONS of closed injuries to	17-3707 S
	of the	COMPLICATIONS of injury with traffic	23-3754 S
	Thromboembolic	COMPLICATIONS of orthopedics and	17-4013 N
	Some	COMPLICATIONS of upper limb	17-3780 N
	urinary tract	COMPLICATIONS. Pelvic injuries and	16-4075 N
	venous	COMPLICATIONS. Penetrating injuries	24-4043 N
	with a digital	COMPUTER for study and improved	24-3809 N
	with a digital	COMPUTER of cardiovascular function	24-3810 N
	fracture.	CONCEALED hemorrhage due to pelvic	24-3/10 S
	Oxygen	CONCENTRATIONS achieved with	02-3808 N
	today.	CONCEPT of shock in the past and	24-3958 N
	Brain	CONCUSSION.	11-4080 5
	01 640	CONSECUTIVE liver injuries in	15-4064 5
	liver in 300	CONSECUTIVE patients. Injuries of	15-3801 5
	trauma in 259	CONSECUTIVE patients. Management	13-3700 5
	Iractures.	CONTINUOUS and the of the	1/-393/3
	brain injury.	CONTINUOUS recording of the	11-4131 N
	1. 1. 1	CONTROLITION to the three of	02 4522 N
	on the highway.	CONTRIBUTION to the therapy of	02-4523 N
	on the highway. ruptures.	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial	02-4523 N 13-3753 N 13-4182 N
	on the highway. ruptures. the diaphragm.	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture	02-4523 N 13-3753 N 13-4182 N 01 3857 S
	on the highway. ruptures. the diaphragm.	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas.	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N
	on the highway. ruptures. the diaphragm. hemorrhage.	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTRUSION Traumatic approactes time	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S
	on the highway. ruptures. the diaphragm. hemorrhage. lung	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTUSION. Traumatic nonpenetrating CORD and candar injurgic Different	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S 12-4117 S
	on the highway. ruptures. the diaphragm. hemorrhage. lung on spinal	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTUSION. Traumatic nonpenetrating CORD and cauder injuries. Different	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S 12-4117 S 02-3872 N
	on the highway. ruptures. the diaphragm. hemorrhage. lung on spinal associated	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTUSION, Traumatic nonpenetrating CORD and cauder injuries. Different CORD damage. Management of spinal CORD injuries On the initial	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S 12-4117 S 02-3872 N 21-3959 S
	on the highway. ruptures. the diaphragm. hemorrhage. lung on spinal associated spinal	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTUSION. Traumatic nonpenetrating CORD and cauder injuries. Different CORD damage. Management of spinal CORD injuries. On the initial CORD injuries. Some problems in the	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S 12-4117 S 02-3872 N 21-3959 S 12-3782 N
	on the highway. ruptures. the diaphragm. hemorrhage. lung on spinal associated spinal of spinal	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTUSION. Traumatic nonpenetrating CORD and cauder injuries. Different CORD damage. Management of spinal CORD injuries. On the initial CORD injuries. Some problems in the CORD injuries. The acrlu diagnosis	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S 12-4117 S 02-3872 N 21-3959 S 12-3782 N 12-4167 N
	on the highway. ruptures. the diaphragm. hemorrhage. lung on spinal associated spinal of spinal of cervical	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTUSION. Traumatic nonpenetrating CORD and cauder injuries. Different CORD damage. Management of spinal CORD injuries. On the initial CORD injuries. The early diagnosis CORD injury. Impairment of	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S 12-4117 S 02-3872 N 21-3959 S 12-3782 N 12-4167 N 12-3843 S
	on the highway. ruptures. the diaphragm. hemorrhage. lung on spinal associated spinal of cervical after spinal	CONTRIBUTION to the therapy of CONTRIBUTION to traumatic bronchial CONTRIBUTION to traumatic rupture CONTROL of accidents in rural areas. CONTROLLED hypotension in the CONTUSION. Traumatic nonpenetrating CORD and cauder injuries. Different CORD damage. Management of spinal CORD injuries. On the initial CORD injuries. Some problems in the CORD injuries. The early diagnosis CORD injury. Impairment of CORD injury. On the treatment	02-4523 N 13-3753 N 13-4182 N 01-3857 S 24-3898 N 13-4520 S 12-4117 S 02-3872 N 21-3959 S 12-3782 N 12-4167 N 12-3843 S 12-4514 S

12-4039 S

~					
Surgical	CORRECTION of injuries of the vena	14-3725 S	On the	DIFFERENTIAL diagnosis of permanent	11-4166 S
following	CRANIAL impact. Intracerebral	11-3923 N	injuries.	DIFFERENTIAL therapeutic discussions	12-4117 S
on 1513	CRANIAL injuries. Clinical and	11-3761 S	with a	DIGITAL computer for study and	24-3809 N
grave acute	CRANIAL injuries. Statistical data	22-3765 S	with a	DIGITAL computer of cardiovascular	24-3810 N
Acute	CRANIAL trauma.	22-4098 S	The effect of	DIGITALIZATION in irreversible	24-3796 S
practice.	CRANIO-CEREBRAL injuries in	11-3760 S	injury.	DISABILITY arising from closed head	11-3932 S
Rehabilitation of	CRANIOCEREBRAL injuries.	11-4089 S		DISASTER first aid. Part 1.	02-4170 N
aid in severe	CRANIOCEREBRAL injuries.	22-3974 S	care and	DISASTER management. The role of a	02-3873 N
acute stage of	CRANIOCEREBRAL injuries. Special	11-3738 S	scene of a	DISASTER. Possibilities and	02-3748 S
patients with	CRANIOCEREBRAL injuries. Statistical	11-4092 S	therapeutic	DISCUSSIONS on spinal cord and	12-4117 S
Severe	CRANIOCEREBRAL trauma and	22-3947 S	cardiovascular	DISEASE. Effects of flying on	04-4137 S
A	CRANIOCEREBRAL trauma.	11-3903 S	other renal	DISORDERS in unselected autopsy	21-4134 S
Acute	CRANICCEREDRAL traumas Depart	11-4199 N	Death in a	DITCH.	02-4184 N
011 3900	CRANIOCEREDRAL traumas. Report	22-3737 S	by solute	DIVISION of the common hile duct	15-3803 N
very severe	CRANICEREDRAL traumas. On	01 2951 N	Complete	DIVISION of the common blie duct	13-3800 N
Automobile	CRASH injury research Medical	01-3631 N	squad	DOCTORS, A plan for handling trapped	02-4511 N
Madical	CRITERIA for passanger flying on	01-4120 S	and Sydney	DOCTORS. Medicine in South Vietnam	01-4095 N
Medical	CRITERIA for passenger flying	04-4021 N	suicidai	DUSES of Darbiturates, harconics	24-3844 5
of the	CRITICALLY ill Experience with a	24-3809 N	uanquinzer	DUPLIN A soldent and amorganou	24-3044 S
care of	CRITICALLY In. Experience with a	01-3955 N	III in	DUBLIN, Accident and emergency	01-3919 N
of the	CRITICALLY injured. Energency	02-3814 N	iii common hile	DUCT due to blunt abdominal trauma	15 3960 N
or the	CRUSHED chest injury	13-3864 \$	repair of	DUPAL defects by graft. The	11 4042 S
natient with	CRUSHED chest A regimen for the	13-3000 N	in 100 nationts	DVINC after injury. Eat ambalism	25 2722 8
accidents The	CUPPENT status of emergency	01-3025 N	for the	EADLY care of the nationt with	23-3722 S
acclucitis. The	CURRENT status of their treatment	24-4513 S	The	EARLY diagnosis of cervical cord	12-4167 N
iniuries	CURRENT treatment of acute thoracic	13-3936 S	embolism	EARLY electrocardiographic	21-3758 S
Heart	DAMAGE in fat embolism	25-4062 N	injured	EARLY management of the critically	02-3814 N
associated cord	DAMAGE Management of spinal injuries	02-3872 N	asphyxiation	EARLY medical treatment in cases of	02-4019 N
errors and	DANGERS First aid at the accident	03-3982 S	victim	EARLY surgical treatment of	15-3799 S
Statistical	DATA on 400 cases of grave acute	22-3765 S	fractures	EARLY versus late treatment of facial	11-3793 N
Statistical	DEATH from pulmonary embolism (II).	21-3757 S	function.	EFFECT of chest trauma upon	13-3794 N
	DEATH in a ditch.	02-4184 N	shock. The	EFFECT of digitalization in	24-3796 S
as cause of	DEATH in accidents. The significance	23-3763 S	septic. The	EFFECT of hyperbaric oxygenation	24-3940 S
and causes of	DEATH in civilian patients with	12-4515 S	fractures. The	EFFECT of sublingual potassium	25-3786 S
Cause of	DEATH in traumatized patients.	25-4534 S	Circulatory	EFFECTS of angiotensin, levarterenol	24-4510 S
aspiration	DEATH. Traffic accidents and	23-3729 S	disease.	EFFECTS of flying on patients with	04-4137 S
accidents and	DEATH, the result of 100 fatal	02-3995 S		EFFECTS of glucocorticoids.	24-3804 S
injuries.	DEATHS causes in recent thoracic	23-3767 S	on the	EFFECTS of treatment. The mechanism	24-3844 S
of 183 road	DEATHS in and around Birmingham in	22-3727 S	of an	EFFICIENT accident service.	01-3816 N
Pedestrian	DEATHS in Oslo traffic accidents.	18-3802 S	ill patients.	EFFICIENT monitoring with a digital	24-3810 N
Traffic	DEATHS.	01-3918 S	Early	ELECTROCARDIOGRAPHIC	21-3758 S
post operative	DEATHS. The causes of	18-4061 S	accidental	ELECTROCUTION. Findings in	02-3764 N
lung.	DECELERATION injuries of heart and	14-3942 N	pulmonary	EMBOLISM (II). Death from	21-3757 N
hematoma.	DECISIVE factors in the success of	11-4068 S	cerebral fat	EMBOLISM after fracture. Acute	25-3775 N
tibial shaft.	DEEP venous thrombosis following	17-3944 S	pulmonary fat	EMBOLISM after injuries with	25-3971 S
septal	DEFECT. Stab wound of the heart	14-3876 N	of fat	EMBOLISM based on human necropsy	25-4153 N
dural	DEFECTS by graft. The repair of	11-4042 S	of fat	EMBOLISM complicating fractures.	25-4049 N
Oxygen	DEFICIT and irreversible hemorrhagic	24-3934 N	accidents. Fat	EMBOLISM in fatal automobile	25-3721 S
	DELAYED rupture of the spleen.	15-3827 N	injury. Fat	EMBOLISM studied in 100 patients	25-3722 S
4 1 1	DELAYED splenic rupture.	15-4198 S	Pulmonary	EMBOLISM.	21-4053 N
Ambulance	DESIGN and equipment for	02-38/4 N	pulmonary	EMBOLISM. Fatal	21-4164 S
The starse of	DETERMINATION in fight. Automatic	04-4158 N	pulmonary	EMBOLISM. A study of	21-4169 S
The stages of	DEVELOPMENT and the organization	01-3941 S	pulmonary	EMBOLISM. Shock and	24-4516 S
homorrhoga	DIAGNOSIS and treatment of anidural	11 2066 S	Iat	EMBOLISM. On the treatment of	25-3/30 N
amholiam	DIAGNOSIS and treatment of fat	11-3900 S	Fat	EMBOLISM.	25-3//3 5
The early	DIAGNOSIS and treatment of fat	23-3750 N	1at Fot	EMBOLISM, Traumatic pulmonary	23-3921 S
Y-Ray	DIAGNOSIS of penetrating wounds of	12-4107 N 15-3867 N	rat	EMBOLISM. EMBOLISM Heart damage in	25-3940 N
differential	DIAGNOSIS of permanent closed brain	11-4166 S	Fat	EMBOLISM. Healt damage in	25-4092 N
aetiology	DIAGNOSIS and prognosis of closed	15-4147 S	of pulmonary	EMBOLISM. EMBOLISM A yera caya filter for	21-45195
by use of	DIAGONAL safety helts. Fatal neck	12-4116 N	of fat	EMBOLISM, A vona cava inter for	25-3730 N
of the	DIAPHRAGM. Closed traumatic runture	13-3999 N	in pulmonary	EMBOLISM, Early electrocardiographic	21-3758 \$
rupture of the	DIAPHRAGM. Contribution to	13-4182 N	fat	EMBOLISM, Experimental arterial	25-3791 \$
of the	DIAPHRAGM. Traumatic closed rupture	13-3895 N	of fat	EMBOLISM. Experiences with the	25-3759 N
	DIAPHRAGMATIC respiration.	12-3803 N	fat	EMBOLISM. Hemorrhagic shock and	25-3787 S
study of 122	DIAPHYSIAL leg fractures in adults.	17-4037 S	fat	EMBOLISM. Studies on the genesis	25-4025 N
-	DIED in hospital.	21-4504 S	traumatic fat	EMBOLISM. The clinical significance	25-3703 S
injuries with	DIFFERENT periods of survival. On	25-3971 S	cerebral fat	EMBOLISMS following injury with	25-4168 S
time in	DIFFERENT types of shock with	24-3935 S	in first and	EMERGENCY aid. Tracheal intubation	02-4530 N

		00.000.0			
the Cologne	EMERGENCY ambulance from the	03-3983 S	by major	EXTRACRANIAL trauma. The	11-3784 N
A survey of	EMERGENCY ambulance service.	01-4102 S		EXTRADURAL haematoma.	11-4124 S
Standards for	EMERGENCY ambulance services.	02-4191 N		EXTRADURAL hematoma.	22-3939 S
in teaching	EMERCENCY care and disaster	02-3873 N	management of	FACIAL fractures following	23-3883 N
in teaching	EMERGENCY care of mitigality initial	02-3075 N	trastment of	EACIAL fractures Early versus	11 2702 N
	EMERGENCI care of children injured.	01-3933 N	treatment of	FACIAL Hactures. Early versus	11-3/95 N
for the	EMERGENCY care of highway accident	01-4190 N	medical	FACILITIES and services. The	01-3906 N
patient vs.	EMERGENCY care. The role of the	01-3956 N	Analysis of	FACTORS affecting survival after	13-4072 S
role of the	EMERGENCY hospital. The trauma	01-3956 N	injuries.	FACTORS in the mortality of closed	22-4500 S
the adequacy of	EMERGENCY hospitals for the medical	01-4186 S	Decisive	FACTORS in the success of treatment	11-4068 S
iniurios	EMERCENCY management of convical	10 2771 N	iniury	EACTORS influencing mortality in	22 2760 8
mjuries.	EMERGENCI management of cervical	12-3//1 N	injury.	FACTORS influencing mortanty in	22-3709 S
accidents.	EMERGENCY management of facial	23-3883 N	acute renal	FAILURE after injury and	15-3865 N
trauma.	EMERGENCY management of	18-4058 N	respiratory	FAILURE after trauma. Combined	23-4046 N
organization of	EMERGENCY medical facilities and	01-3906 N	Acute renal	FAILURE following extensive trauma.	24-4057 N
workload.	EMERGENCY medical service	01-4097 S	and cerebral	FAT embolism after fracture. Acute	25-3775 N
community	EMERCENCY medical services in the	01-3853 N	On nulmonary	FAT ambolism after injuries with	25 3071 8
Community.	EMERGENCY modical services in the	01-3635 N	On pumonary	FAT embolish after hjunes with	25-3971 S
Community-wide	EMERGENCI medical services.	04-4555 N	pathogenesis of	FAI embolism based on numan	25-4153 N
action on	EMERGENCY medical services.	01-4179 N	Treatment of	FAT embolism complicating fractures.	25-4049 N
	EMERGENCY resuscitation.	02-3888 N	accidents.	FAT embolism in fatal automobile	25-3721 S
on 2,418	EMERGENCY room admissions. An	01-3862 S	after injury.	FAT embolism studied in 100 patients	25-3722 S
admission to	EMERGENCY room First aid at scene	03-3714 S	treatment of	FAT embolism On the	25-3756 N
agoidant and	EMERCENCY services in Dublin	01 2010 N	ticatilient of	TAT embolishi, on the	25-5750 N
	EMERGENCY - services in Dublin,	01-3919 N		FAI embolism.	25-5775 N
Accident and	EMERGENCY services in Dublin.	01-4096 S	and	FAT embolism. Hemorrhagic shock	25-3787 S
casualties.	EMERGENCY squad doctor. A plan for	02-4511 N	arterial	FAT embolism. Experimental	25-3791 S
status of	EMERGENCY treatment in automobile	01-3925 N	pulmonary	FAT embolism. Traumatic	25-3927 N
room and	EMERGENCY treatment vehicle. Mobile	03-4525 N	Punnonury	FAT embolism	25-3046 \$
with special	EMPHASIS on the precautions	04 4130 N	·	FAT embolishi.	25-5940 S
with special	EMPRASIS on the precautions	04-4139 N	in	FAI embolism. Heart damage	25-4062 N
some problems	ENCOUNTERED in the aerial	04-4018 N	treatment of	FAT embolism. Diagnosis and	25-3730 N
experimental	ENDOTOXIN shock. The management	24-3896 S	treatment of	FAT embolism. Experiences with	25-3759 N
of the	ENGSTROM ventilator. The	02-3807 N	posttraumatic	FAT embolism. Studies on the	25-4025 N
nulmonary and	ENTERAL complications after brain	11-3741 S	traumatic	FAT embolism. The clinical	25-3703 S
with a rural	ENVIRONMENT Possibilities for	03-3715 \$	of cerebral	FAT embolisms following injury with	25-4168 \$
	ENVIRONMENT, LOSSIDIILLES TOI	01 401 (5		TAT embolishis following injury with	23-7100 3
during 1959.	EPIDEMIOLOGY of traffic casualties	01-4016 5	827 cases of	FAIAL accidents. An analysis of	24-3/13 8
treatment of	EPIDURAL hematoma. Decisive factors	11-4068 S	embolism in	FATAL automobile accidents. Fat	15-3721 S
treatment of	EPIDURAL hemorrhage. Diagnosis and	11-3966 S	tracheotomy.	FATAL hemorrhage during	02-4041 N
Minimal	EOUIPMENT for ambulances.	02-4100 N	personnel-no	FATAL injuries were produced. Of	02-3718 S
design and	FOLIPMENT for resuscitation	02-3874 N	950	FATAL injuries An analysis of	25-3705 \$
roforonce to	EPPOPS and dangers. First aid at	03-3082 5	cofoty holts	FATAL most injuries accord by use of	10 A116 N
Terefence to	ERRORS and dangers. First and at	12 4001 N	safety bents.	FATAL neck injuries caused by use of	12-4110 N
rupture of the	ESOPHAGUS after blunt trauma.	13-4091 N	accidents.	FATAL pedestrian automotive	01-4008 N
young child's	ESOPHAGUS presenting with	23-4036 N		FATAL pulmonary embolism.	21-4164 S
tree and	ESOPHAGUS. Foreign bodies in the	23-3812 N	The	FATAL traffic accident from the	23-3976 S
thoracic	ESOPHAGUS. Injuries of the	13-4077 N	Adelaide.	FATAL traffic accidents in	01-4012 S
road accidents	ESSENTIALS in treating	02-4000 N	to 1064	FATAL traffic accidents in Brisbana	21-4110 5
Toau acciucints.	ESTIMATING community requirements	01 4100 N	to 1904.	FATAL traffic accidents in Disbane	21-119.5
victims.	ESTIMATING community requirements	01-4190 N	Tollowing	FAIAL traffic accidents. Autopsy	22-3/28 5
The	ETIOLOGY of acute brain swelling	22-4143 S	of 1000	FATAL traffic accidents. On time	02-3995 S
medical	EVACUATION and transport. The use	04-4173 N	injuries in	FATAL traffic accidents. Patterns	24-4014 S
medical	EVACUATION with special emphasis on	04-4139 N	body	FATALITIES in children.	23-3889 S
in air	EVACUATION Assisted respiration	04-4141 N	Special	FEATURES of blunt abdominal trauma	15-3967 S
A autor of	EVACUATION resuscitation and	24-4195 \$	opeenul	FEATURES of first aid in savora	22-3074 5
A survey of	EVACUATION, resuscitation, and	24-4193 S	anu	FEATURES OF first and in severe	22-3974 3
medical	EVACUATIONS, Helicopters in	04-4093 N	of common	FEMORAL artery. Closed traumatic	17-3863 N
injuries. The	EVALUATION and therapy of skull	11-4063 S	216 cases of	FEMORAL neck fracture. Over-all	17-3965 S
	EVIDENCE of shock-kidney and	21-4134 S	treatment of	FEMORAL shaft fractures. Mortality	25-3724 S
Life	EXPECTANCY, survival rates, and	12-4515 S	in fresh	FEMORAL-NECK fractures. Primarv	17-3788 S
nationt	EXPERIENCE about medical aid at the	03-3961 \$	17	FEMORO nonliteal arterial	17-4533 \$
patient.	EXPEDIENCE in the most hatio	01 4114 6	shaft of the	FEMUD regulting from automobile	17 2017 8
One year's	EXPERIENCE in the anesthetic	01-4114 5	shart of the	FEMOR resulting from automobile	17-391/ 3
ill.	EXPERIENCE with a digital computer	24-3809 N	of the	FEMUR. Shaft fractures	17-3921 S
Ten years'	EXPERIENCE with penetrating injuries	14-3776 S	Ventricular	FIBRILLATION.	02-3945 N
Surgical	EXPERIENCE with 103 truncal shotgun	15-3891 S	A report of	FIFTEEN patients with traumatic	14-4032 S
the chest	EXPERIENCE with 472 civilian	13-4125 S	A vena cava	FILTER for the prevention of	21-4519 S
function and	EVDEDIENCE Transport by holiconter	04-3077 N	mornhological	FINDINGS in complications	02-3740 \$
function and	EAFERIENCE, Hansport by hencopter	11 452C 0	morphological	ENDINCE in the diministry for my	02-31703 00 Ac17 0
Clinical	EXPERIENCES in the neurosurgical	11-4336 8	Autopsy	FINDINGS in near injuries from	22-431/3
surgery.	EXPERIENCES with the Cologne	03-3983 S	Autopsy	FINDINGS in head injuries from	22-3953 S
in Cologne.	EXPERIENCES with the mobile unit of	03-4512 N	electrocution.	FINDINGS in temporary resuscitation	02-3764 N
embolism	EXPERIENCES with the preparation	25-3759 N	records	FINDINGS in 100 brain-injured	11-4537 S
•••••••••••••••	EXPERIMENTAL arterial fat embolism	25-3791 \$	Autoney	FINDINGS in 127 patients following	22-3728 S
monogomast	EVDEDIMENTAL and atomin shock	24-3806 8	injuriae from	FIREARMS Autoney findings in	22-2052 6
management of	EATERIMENTAL CHUOLOXIII SHOCK.	27-30703	injunes nom	FIRST aid at soons of assidant and	02 2714 6
following	EXPERIMENTAL nead injury. The	22-4143 S	room.	FIRST and at scene of accident and	03-3/14 3
and animal	EXPERIMENTS. A study of the	25 - 4153 N	dangers.	FIRST aid at the accident site with	03-3982 S
causing hyper-	EXTENSION of the cervical spine	12-4538 N	Medical	FIRST aid at the site of an accident	03-3981 S
following	EXTENSIVE trauma. Acute renal	24-4057 N	a means of	FIRST aid during operations of	04-4173 N
inium	EXTENT and time of blood-loss	24-4020 \$	intensifying	FIRST aid for accidents in cities	03-3715 \$
iniurv.	LAND IN AND UNIC OF DIOUU-1035	2 T T 0 2 0 D	meensnymg	A ARGA AND TOT ACCIDENTS III CITICS	00 01 IU U

features of	FIRST aid in severe craniocerebral	22-3974 S	and-through	GUNSHOT wound of the heart. Success	14-3861 N
traumas On	FIRST aid in very severe craniocerebral	11-3964 N	U	GUNSHOT wounds of the heart	14-3846 S
initial of	FIRST aid treatment diagnosis and	01 2777 N		CUNSUOT wounds of the heart	14 4150 0
injunes.	FIRST and treatment, diagnosis and	02-3777 N		GUNSHUT woulds of the heart.	14-4130 3
Disaster	FIRST aid. Part 1.	02-4170 N	Extradural	HAEMATOMA.	11-4124 S
highway	FIRST aid. Organization and scope	02-4185 S	A plan for	HANDLING trapped casualties.	02-4511 N
intubation in	FIRST and emergency aid. Tracheal	02-4530 N	injuries in	HEAD injured patients.	11-4108 S
the easident	FIRST management of the injured of	03 2002 N	monogement of	HEAD injurios complicated by	11.3794 N
the accident.	FIRST management of the injured at	03-3993 N	management of	HEAD injuries complicated by	11-5/64 N
accident and	FIRST therapy after admission to	03-3741 S	findings in	HEAD injuries from blunt forces.	22-4517 S
accident.	FIRST treatment at the scene of an	03-3962 N	findings in	HEAD injuries from firearms.	22-3953 S
accident	FIRST treatment of the complications	23-3754 \$	survey	HEAD injuries in a peripheral	11-3033 \$
acciucitt.	FIRST AID 4 (he with the completentions	23-373+ 3	survey.	HEAD injuries in a peripricial	11 2020 0
medical	FIRST-AID at the accident site.	02-4180 N	_	HEAD injuries in children.	11-3938 3
injuries. A	FIVE-YEAR survey of 152 acute	15-3709 S	Severe	HEAD injuries in children.	11-4107 S
treatment of	FLAIL chest injuries with a piston	13-3712 S	Mortality in	HEAD injuries.	22-4521 S
treating the	FLAIL chest wall A new method of	13-3859 N	of closed	HEAD injuries Eactors in the	22-4500 \$
treating the	PLAIL chest wall. A new method of	13 3037 N	or croscu	HEAD injuncs. Factors in the	22-400 B
	FLAIL chest.	25-4128 5	severe	HEAD injuries. The late prognosis	11-4162 N
determination in	FLIGHT, Automatic indirect blood	04-4138 N	patients with	HEAD injuries. Unrecognized	15-4106 S
commercial	FLIGHTS. Medical criteria for	04-4135 N	shock with	HEAD injury. Causes of	11-3792 S
shock	FLUID repletion in circulatory	24-3822 N	ofter	HEAD injury Pababilitation	11 2954 6
Dff. to f	FI VINC an anti-ante mith	04 4127 0	arter	HEAD injury. Kenabilitation	11-3634 5
Effects of	FLYING on patients with	04-415/5	Acute	HEAD injury.	11-4502 S
for passenger	FLYING on scheduled commercial	04-4135 N	from closed	HEAD injury, Disability arising	11-3932 S
	FLYING squad.	03-3900 N	mortality in	HEAD injury Factors influencing	22-3769 \$
of an accident	FI VING squad Organization and	03-3815 N	avnominiantal	HEAD injury. The sticleau of south	22 3707 5
	FLYING Medical address	03-3013 N	experimental	HEAD injury. The etiology of acute	22-4143 5
for passenger	FLYING, Medical criteria	04-4021 N	of shock in	HEAD injury. The incidence and	22-3931 N
Canadian armed	FORCES during 1959. Epidemiology of	01-4016 S	of severe	HEAD injury. The long-term	11-3880 S
from blunt	FORCES. Autopsy findings in head	22-4517 S	natient with a	HEAD injury The management of	11-4140 S
Inholod	EODEICN hodios in children	23 3806 8	patient with a	HEAD injury. The management of	11 2004 0
illiaicu	FOREIGN Doules in children.	23-3600 S	with acute	HEAD injury. I reatment of the	11-3884 S
esopnagus.	FOREIGN bodies in the	23-3812 N	injury to the	HEAD. Analysis of 1,400 cases of	11-3922 S
Unsuspected	FOREIGN bodies in the young child's	23-4036 N	posttraumatic	HEADACHE. Late	11-3960 S
Air way	FOR FIGN hodies	23-4123 8	injuries of	HEART and lung Deceleration	14-3042 N
All way	FOREIGN 1 - 1 - 5 - 111	23-4123 3	injuncs of	HEART and range Deceleration	14 41 57 0
Airway	FOREIGN body fatalities in children.	23-3889 5	wounds of the	HEARI and pericardium. Further	14-415/5
mortality in a	FORWARD surgical hospital. A survey	24-4195 S	wounds of the	HEART and pericardium. Penetrating	14-4083 S
the heart.	FRACTURE of the sternum and injury	14-4122 N		HEART damage in fat embolism.	25-4062 N
Management of	FRACTURE with vascular injury	17-3001 N	wound of the	HEART with temponade and	14-3876 N
	FRACIORE with vascular injury.	17-3901 N		HEART with tamponauc and	14 204C D
embolism after	FRACIORE. Acute peptic ulceration	23-3773 N	wounds of the	HEARI. Gunshot	14-3846 S
due to pelvic	FRACTURE. Concealed hemorrhage	24-3710 S	wounds of the	HEART. Gunshot	14-4158 S
femoral neck	FRACTURE, Over-all statistical	17-3965 S	in the	HEART. Missiles	14-4509 S
corial rib	FPACTUPES caused by traffic	24-4513 8	injury to the	UEADT Fracture of the stornum	14 4100 N
	FRACTORES caused by traffic	27-4010 0		HEART. Flactule of the stellum	14-4122 N
of facial	FRACIURES following automobile	23-3883 N	wounds of the	HEART. Immediate thoracotomy	14-3893 N
diaphysial leg	FRACTURES in adults. Analytical	17-4037 S	of the	HEART. Penetrating wounds	14-3830 S
of skeletal	FRACTURES in the patient with a	11-4104 S	wound of the	HEART, Successful surgical	14-3861 N
Shaft	EPACTUPES of the femur	17-3021 \$	injurios of the	HEADT Ton yours' experience	14 2776 8
Shart	EDACTURES of the relation	16 4042 N		HEART. Tell years experience	14-3770 3
	FRACIURES of the peivis.	10-4043 N	wounds of the	HEART. The management of	14-4522 S
with	FRACTURES of the pelvis.	16-3790 S	universitatsklinik	HEIDELBERG. The mobile	03-3978 S
accidents.	FRACTURES of the shaft of the	17-3917 S	The use of the	HELICOPTER as a means of first	04-4173 N
Seat-belt	FRACTURES of the spine and sternum	12-4105 N	Transport by	HELICOPTED of soveraly injured	02 2077 N
f. Il	TRACTORES of the spine and stornum.	12-4103 N	I ansport by	HELICOPTER of severely injured	02-3977 N
Tollowing	FRACIURES of the tibial shaft.	17-3944 5	persons by	HELICOPTER, Tasks of the	04-3984 S
	FRACTURES. Central acetabular	16-3789 S	American	HELICOPTERS and Sydney doctors.	01-4095 N
Pelvic	FRACTURES.	16-4064 S	area.	HELICOPTERS expand hospital	04-4187 N
nelvic	FRACTURES Complicated	16-4085 S	evacuations	HELICOPTERS in civil medical	04-4003 N
-f - ululo	EDACTUDES Conservative treatment	17 2027 0	evacuations.	HELD A similar second disel	04 4110 N
oi ankle	FRACIORES. Conservative treatment	1/-393/8	pian,	nelr. A civilian aeromedical	04-4110 N
of facial	FRACTURES. Early versus late	11-3793 N	Extradural	НЕМАТОМА.	22-3939 S
with pelvic	FRACTURES. Major abdominal	16-4149 S	subdural	HEMATOMA. Acute, subacute, and	11-4540 S
from nelvic	FRACTURES Massive hemorrhage	24-4050 \$	of enidural	HEMATOMA Decisive factors in	11-4068 \$
	EDACTURES, Massive hemornage	24-4030 3	of the sight	HEMINIA DUDA CM days to 1 logit	12 4120 N
iemoral shalt	FRACTURES. Mortality related to	25-3724 8	of the right	HEMIDIAPHRAGM due to blunt	13-4130 N
femoral-neck	FRACTURES. Primary prothetic	17-3788 S	Concealed	HEMORRHAGE due to pelvic fracture.	24-3710 S
following	FRACTURES. The effect of sublingual	25-3786 S	Fatal	HEMORRHAGE during tracheotomy.	02-4041 N
complication	FRACTURES Treatment of fat	15-4049 N	Massive	HEMORRHACE from pelvic fractures	24-4050 \$
complication	EDEOUENOV - C - 1 - 1 C -	13-1077 IN		HEMODDILACE Constanting	24 2000 M
on the	FREQUENCY of cerebral fat	25-4168 S	of severe	HEMUKKHAGE, Controlled	24-3898 N
replacement in	FRESH femoral-neck fractures.	17-3788 S	of epidural	HEMORRHAGE. Diagnosis and	11-3966 S
injured-medical	FUNCTION and experience.	04-3977 N	cerebral	HEMORRHAGES in childhood.	11-3747 S
cardiovascula	FUNCTION in seriously ill notionts	24.3910 N	embolism	HEMORRHACIC shock and fat	25-2787 6
caruiovasculai	TINOTION - Constant 4	02 201 C N	Chibonan		20-07070
and	FUNCTION of an accident flying	03-3815 N	system.	HEMORKHAGIC snock and the nervous	24-3954 N
respiratory	FUNCTION, Effect of chest trauma	13-3794 S	transfusion in	HEMORRHAGIC shock. About the	24-3735 N
trauma.	FUNDAMENTALS of the therapy of	01-3970 N	associated with	HEMORRHAGIC shock. Metabolic	24-3903 S
pericardium	FURTHER observations on nenetrating	14-4157 6	irreversible	HEMORRHACIC shock Ovygon deficit	24-3034 M
Perioarululli.	CENEDAL multic Consist 1 months	11 110/0		HEMODDIA CIC -1 1 The Control	24-3334 IN
for the	GENERAL public. Surgical problems	02-3700 N	irreversible	nemokknagic snock. The effect of	24-3796 S
studies on the	GENESIS of postfraumatic fat	25-4025 N	traumatic,	HEMORRHAGIC, and septic. The	24-3940 S
effects of	GLUCOCORTICOIDS. Acute	24-3804 S	Traumatic	HEMOTHORAX.	13-3907 S
defects by	GRAFT. The repair of dural	11-4042 S	and	HEMOTHORAX Chest trauma with	13-4045 5
400 cases of	GRAVE acute cranial injuries	22-2765 6	notessium	UEDADIN (olorin) on the comment	15 10 70 0
100 04303 01	Give i di avato viamai mjullos.	44-31033	potassium	mea Artin (clarin) on the serum	23-3/00 5

Cost halt		1.5 2020 N
Seat-belt	HERNIA.	15-3929 N
care of	HIGHWAY accident victims.	01-4190 N
scope of	HIGHWAY first aid. Organization	02-4185 S
shock on the	HIGHWAY. Contribution to the	02 - 4523 N
the aorta.	HOMOGRAFT patch repair of bullet	14-4165 N
a university	HOSPITAL in teaching emergency	02-3873 N
auniversity	HOSPITAL in teaching emergency	02-3073 N
expanu	HOSPITAL service area.	04-416/ N
injuries in	HOSPITAL surgical practice.	11-3760 S
a peripheral	HOSPITAL. A five-year survey.	11-3933 S
Died in	HOSPITAL.	21-4504 S
forward surgical	HOSPITAL. A survey of evacuation,	24-4195 S
to the	HOSPITAL. Anesthesia and intubation	03-3979 S
teaching	HOSPITAL. Cardiopulmonary	02-4078 N
patients to	HOSPITAL. Some problems	04-4018 N
accidents	HOSPITAL . The stages of development	01-3941 S
the emergency	HOSPITAL. The trauma nation vs	01-3956 N
of emergency	HOSPITALS for the medical care of	01-4186 S
based of	HUMAN necronsy material and	25 4153 N
Dascu OI	IVDED EXTENSION of the corrigol	23-4133 N
causing	HIPER-EATENSION OF the cervical	12-4356 N
effect of	HYPERBARIC oxygenation (OHP) on	24-3940 S
Controlled	HYPOTENSION in the management of	24-3898 N
with similar	HYPOVOLEMIC levels. Survival time	24-3935 S
seriously	ILL patients. Efficient monitoring	24-3810 N
critically	ILL. Experience with a digital	24-3809 N
accidents.	IMMEDIATE care to back injuries.	02-4188 N
injuries.	IMMEDIATE management of laryngeal	12-3839 N
of accident.	IMMEDIATE measures at site	02-3849 N
treated by	IMMEDIATE reconstruction, 17	17-4533 S
with	IMMEDIATE renair and survival	12-4159 N
the heart	IMMEDIATE thoracotomy for wounds	14-3803 N
oranial	IMPACT Introcerchical vaccular	11 2022 N
iniury	IMPAIDMENT of respiration of tor	11-3923 N
injury.	IMPORTANCE and features of first	12-30-13 3
mjulles.	INCIDENCE and machanisms of shack	22-39/4 3
The	INCIDENCE and mechanisms of shock	22-3931 N
iniurios	INCIDENCE of motoru-anatomical	21-4134 5
Injuries.	INCIDENCE, actiology, diagnosis, and	13-414/ 5
About the	INDICATION OF Intra-venous and	24-3/33 N
Automatic	INDIRECT DIOUR pressure	04-4156 N
myocardiai	INFARCTION. A clinical study of shock	24-4156 S
Factors	INFLUENCING mortality in head	22-3769 S
	INHALED foreign bodies in children.	23-3806 S
in the	INITIAL management of spinal cord	12-3782 N
On the	INITIAL treatment of acute traumatic	21-3959 S
of the	INJURED at the site of the accident.	03-3993 N
The	INJURED patient and the specialist.	01-4010 N
The comatose	INJURED patient.	11-4002 S
the severely	INJURED patient. Care of	22-4503 N
with severely	INJURED patient. Experience about	03-3961 S
shocked and	INJURED patient. Methods of	02-3850 N
in head	INJURED patients. Associated	11-4108 S
removal of	INIURED personnel from wrecked	01-3928 N
seriously	INTURED persons by heliconter	04-3984 \$
sick and	INJURED Aerial transport of the	04-4177 \$
of acutaly	INJURED. All numpers stratcher	07-11// S
or acutely	INJURED. An-purpose stretcher	02-3910 N
critically	INJURED. Early management of the	02-3614 N
critically	INJURED. Emergency care of	01-3955 N
care of the	INJURED. The Louisville plan for	01-3848 N
of severely	INJURED-medical function and	04-3977 N
the severely	INJURED, at the scene of the	03-4090 S
Pelvic	INJURIES and urinary tract	16-4075 N
of chest	INJURIES as an aid to treatment.	13-3841 S
Skull	INJURIES as seen by the physician	03-3743 S
Major abdominal		A / AA · ~ -
intro chidominol	INJURIES associated with pelvic	16-4149 S
intra-abdominai	INJURIES associated with pelvic INJURIES caused by automobile seat	16-4149 S 15-4103 N
Fatal neck	INJURIES associated with pelvic INJURIES caused by automobile seat INJURIES caused by use of diagonal	16-4149 S 15-4103 N 12-4116 N
Fatal neck syndromes in	INJURIES associated with pelvic INJURIES caused by automobile seat INJURIES caused by use of diagonal INJURIES causing hyper-extension of	16-4149 S 15-4103 N 12-4116 N 12-4538 N
Fatal neck syndromes in of head	INJURIES associated with pelvic INJURIES caused by automobile seat INJURIES caused by use of diagonal INJURIES causing hyper-extension of INJURIES complicated by major	16-4149 S 15-4103 N 12-4116 N 12-4538 N 11-3784 N
Fatal neck syndromes in of head Thoracic	INJURIES associated with pelvic INJURIES caused by automobile seat INJURIES caused by use of diagonal INJURIES causing hyper-extension of INJURIES complicated by major INJURIES due to blunt trauma.	16-4149 S 15-4103 N 12-4116 N 12-4538 N 11-3784 N 13-4518 S
Fatal neck syndromes in of head Thoracic brain	INJURIES associated with pelvic INJURIES caused by automobile seat INJURIES caused by use of diagonal INJURIES causing hyper-extension of INJURIES complicated by major INJURIES due to blunt trauma. INJURIES following traffic accidents.	16-4149 S 15-4103 N 12-4116 N 12-4538 N 11-3784 N 13-4518 S 11-3742 S

in head	INJURIES from blunt forces. Autopsy	22-4517 S
in head	INJURIES from firearms. Autopsy	22-3953 S
	INJURIES from road accidents.	18-4009 S
Head	INJURIES in a peripheral hospital.	11-3933 S
abdominal	INJURIES in childhood.	15-3750 S
Head	INJURIES in children.	11-3938 S
head	INJURIES in children.	11-4107 S
Thoracic	INJURIES in children.	13-4056 N
Arterial	INJURIES in civilian practice.	17-4071 S
liver	INJURIES in civilian practice. The	15-4084 S
of thoracic	INJURIES in fatal traffic accidents.	24-4014 S
Associated	INJURIES in head injured patients.	11-4108 S
Cranio-cerebral	INJURIES in hospital surgical	11-3760 S
Liver	INJURIES in Northern Ireland	15-3879 S
abdominal	INJURIES in the traffic victim	15-3799 S
	INJURIES in traffic accidents	01-3726 S
Chest	INIURIES in traffic accidents.	13-4526 S
Nonnenetrating	INIURIES of abdomen causing runture	15-3866 S
Deceleration	INIURIES of heart and lung	14-3942 N
Arterial	INIURIES of the base of the pack	12-3702 \$
nenetrating	INJURIES of the heart. Ten years'	14-3776 \$
penetrating	INJURIES of the kidney	15-3842 \$
trauma	INJURIES of the larvay and corvical	12 4006 \$
nationte	INJURIES of the liver in 300	15 2801 S
patients.	INJURIES of the liver	15 4126 8
notionto with	INJURIES of the spinel cond	13-4120 5
Demotrating	INJURIES of the spinal cord.	12-4039 S
renetrating	INJURIES of the theorem and the second	24-4043 N
correction of	INJURIES of the unreasons	13-4077 N
correction of	INJURIES of the vena cava.	14-3723 5
Traversed	INJURIES to limbs. Arterial	1/-3/0/ S
Demotration	INJURIES to the phase	13-3902 N
renetrating	INJURIES to the chest.	13-4160 5
non-penetrating	INJURIES to the chest. Severe	13-4101 5
no latal	INJURIES were produced. OI 155	02-3/18 5
fian chest	INJURIES with a piston respirator.	13-3/12 S
of spinal	INJURIES with associated cord damage.	02-3872 N
embolism after	INJURIES with different periods of	25-39/1 S
crasn thornoid	INJURIES, Automobile	01-3851 N
Thoracic	INJURIES. Closed	13-3/23 S
Inoracic	INJURIES. INJURIES. Departmenting	13-4007 N
cardiac	INJURIES. Penetrating	14-3/1/ 5
abdominai	INJUKIES, Closed	12-2/20 2
		16 2707 0
of shotgun	INJURIES. Management	15-3797 S
of shotgun Abdominal	INJURIES, Management INJURIES,	15-3797 S 15-4035 N
of shotgun Abdominal abdominal	INJURIES. Management INJURIES. INJURIES. Closed	15-3797 S 15-4035 N 15-4047 S
of shotgun Abdominal abdominal renal	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating	15-3797 S 15-4035 N 15-4047 S 15-4073 S
of shotgun Abdominal abdominal renal Multiple	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES.	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S
of shotgun Abdominal abdominal renal Multiple in head	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. INJURIES. Mortality	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal obdominal	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. INJURIES. Mortality INJURIES. An analysis of	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 15 3709 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Mortality INJURIES. Mortality INJURIES. An analysis of INJURIES. A malysis of INJURIES. A malysis of feators	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 15-3709 S 13-4072 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. INJURIES. Mortality INJURIES. An analysis of INJURIES. A nalysis of factors INJURIES. Analysis of factors	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Clinical and statistical	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 15-3709 S 13-4072 S 13-4081 S 11 2761 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S 13-4081 S 11-4536 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Mortality INJURIES. Mortality INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current tootment of	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S 13-4081 S 11-3761 S 11-3363 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Current treatment of	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4081 S 11-3761 S 11-4536 S 13-3936 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Deaths causes in INJURIES. Differential therapolatic	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4081 S 11-3761 S 11-4536 S 13-3936 S 23-3767 S 23-3767 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic and cauder	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Differential therapeutic INJURIES. Emergency menagement of	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S 13-4072 S 13-4072 S 13-4073 S 11-3761 S 11-4536 S 23-3767 S 12-4117 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic and cauder cervical spine	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. Emergency management of	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S 13-4072 S 13-4081 S 11-3761 S 11-4536 S 13-3936 S 23-3767 S 12-4117 S 12-3771 N
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic and cauder cervical spine closed head muvillafoaid	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Deaths causes in INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. Factors in the mortality INUURIES. First oid treatment	$\begin{array}{c} 15\text{-}3797\text{ S}\\ 15\text{-}4035\text{ N}\\ 15\text{-}4047\text{ S}\\ 15\text{-}4047\text{ S}\\ 15\text{-}4027\text{ S}\\ 22\text{-}4521\text{ S}\\ 22\text{-}4521\text{ S}\\ 25\text{-}3705\text{ S}\\ 15\text{-}3709\text{ S}\\ 13\text{-}4072\text{ S}\\ 13\text{-}4072\text{ S}\\ 13\text{-}4081\text{ S}\\ 11\text{-}3761\text{ S}\\ 11\text{-}4536\text{ S}\\ 13\text{-}3936\text{ S}\\ 23\text{-}3767\text{ S}\\ 12\text{-}4117\text{ S}\\ 12\text{-}3771\text{ N}\\ 22\text{-}3770\text{ N}\\ 22\text{-}3707\text{ S}\\ \end{array}$
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic and cauder cervical spine closed head maxillofacial and trochesi	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Deaths causes in INJURIES. Deaths causes in INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Immediate management of	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S 13-4081 S 11-3761 S 11-4536 S 13-3936 S 23-3767 S 12-4117 S 12-3771 N 22-4500 S 02-3777 N
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal	INJURIES. Management INJURIES. Management INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Deaths causes in INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Immediate management of INURIES. Immediate and factures	15-3797 S 15-4035 N 15-4047 S 15-4047 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S 13-4081 S 11-4536 S 13-3936 S 23-3767 S 12-4117 S 12-3771 N 22-4500 S 02-3777 N 12-3839 N 22-3074 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal craniocerebral	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Deaths causes in INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Immediate management of INJURIES. Immediate management of INJURIES. Importance and features INURIES. Inportance and features	$\begin{array}{c} 15\text{-}3797\text{ S}\\ 15\text{-}4035\text{ N}\\ 15\text{-}4047\text{ S}\\ 15\text{-}4047\text{ S}\\ 15\text{-}4027\text{ S}\\ 22\text{-}4521\text{ S}\\ 22\text{-}4521\text{ S}\\ 25\text{-}3709\text{ S}\\ 13\text{-}4072\text{ S}\\ 13\text{-}4072\text{ S}\\ 13\text{-}4072\text{ S}\\ 13\text{-}4081\text{ S}\\ 11\text{-}3761\text{ S}\\ 11\text{-}4536\text{ S}\\ 13\text{-}3936\text{ S}\\ 23\text{-}3767\text{ S}\\ 12\text{-}4117\text{ S}\\ 12\text{-}3771\text{ N}\\ 22\text{-}4500\text{ S}\\ 02\text{-}3777\text{ N}\\ 12\text{-}3839\text{ N}\\ 22\text{-}3974\text{ S}\\ 15\text{-}4147\text{ S}\\ \end{array}$
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest closed chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal craniocerebral abdominal	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Mortality INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Importance and features INJURIES. Incidence, aetiology, INURIES. Late esquelae of	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4072 S 13-4072 S 13-4081 S 11-3761 S 11-4536 S 13-3936 S 23-3767 S 12-4117 S 12-3771 N 22-4500 S 02-3777 N 12-3839 N 22-3974 S 13-4087 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal craniocerebral abdominal severe chest	INJURIES. Management INJURIES. INJURIES. Closed INJURIES. Penetrating INJURIES. Mortality INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Deaths causes in INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. First aid treatment, INJURIES. Inmediate management of INJURIES. Incidence, aetiology, INJURIES. Late sequelae of INJURIES. On the differential	$\begin{array}{c} 15\text{-}3797\ \text{S}\\ 15\text{-}4035\ \text{N}\\ 15\text{-}4047\ \text{S}\\ 15\text{-}4047\ \text{S}\\ 15\text{-}4073\ \text{S}\\ 17\text{-}4027\ \text{S}\\ 22\text{-}4521\ \text{S}\\ 22\text{-}4521\ \text{S}\\ 22\text{-}5705\ \text{S}\\ 13\text{-}4072\ \text{S}\\ 13\text{-}4081\ \text{S}\\ 13\text{-}4081\ \text{S}\\ 13\text{-}4081\ \text{S}\\ 13\text{-}3936\ \text{S}\\ 23\text{-}3767\ \text{S}\\ 12\text{-}4117\ \text{S}\\ 12\text{-}3771\ \text{N}\\ 22\text{-}4500\ \text{S}\\ 02\text{-}3777\ \text{N}\\ 12\text{-}3839\ \text{N}\\ 22\text{-}3974\ \text{S}\\ 13\text{-}4087\ \text{S}\\ 13\text{-}4087\ \text{S}\\ 11\text{-}4166\ \text{S}\\ \end{array}$
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal craniocerebral abdominal severe chest closed brain	INJURIES. Management INJURIES. Nanagement INJURIES. Closed INJURIES. Penetrating INJURIES. Mortality INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Immediate management of INJURIES. Immediate management of INJURIES. Incidence, aetiology, INJURIES. Incidence, aetiology, INJURIES. On the differential INURIES. On the differential	15-3797 S 15-4035 N 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4081 S 11-3761 S 11-3761 S 11-4536 S 23-3767 S 12-4117 S 12-3771 N 22-4500 S 02-3777 N 12-3839 N 22-3974 S 15-4147 S 13-4087 S 11-4166 S 21-3959 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic cervical spine closed head maxillofacial and tracheal craniocerebral abdominal severe chest closed brain spinal cord	INJURIES. Management INJURIES. Nanagement INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. Mortality INJURIES. Analysis of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Deaths causes in INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Immediate management of INJURIES. Immediate management of INJURIES. Incidence, aetiology, INJURIES. Incidence, aetiology, INJURIES. Late sequelae of INJURIES. On the differential INJURIES. On the differential INJURIES. On the initial treatment INJURIES. Pulmonary and external	15-3797 S 15-4035 N 15-4047 S 15-4047 S 15-4073 S 17-4027 S 22-4521 S 25-3705 S 13-4072 S 13-4081 S 11-3761 S 11-4536 S 13-3936 S 23-3767 S 12-4117 S 12-3771 N 22-4500 S 02-3777 N 12-3839 N 22-3974 S 15-4147 S 13-4087 S 11-4166 S 21-3959 S 11-3721 S
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal craniocerebral abdominal severe chest closed brain spinal cord after brain	INJURIES. Management INJURIES. Nanagement INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Current treatment of INJURIES. Deaths causes in INJURIES. Deaths causes in INJURIES. Deaths causes in INJURIES. Emergency management of INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Importance and features INJURIES. Incidence, aetiology, INJURIES. Incidence, aetiology, INJURIES. Late sequelae of INJURIES. On the differential INJURIES. On the initial treatment INJURIES. Pulmonary and enteral INJURIES. Pulmonary and enteral INJURIES. Rehabilitation of	$\begin{array}{c} 15\text{-}3797\ \text{S}\\ 15\text{-}4035\ \text{N}\\ 15\text{-}4047\ \text{S}\\ 15\text{-}4073\ \text{S}\\ 15\text{-}4073\ \text{S}\\ 22\text{-}4521\ \text{S}\\ 22\text{-}53705\ \text{S}\\ 22\text{-}53705\ \text{S}\\ 15\text{-}3709\ \text{S}\\ 13\text{-}4072\ \text{S}\\ 13\text{-}4072\ \text{S}\\ 13\text{-}4072\ \text{S}\\ 13\text{-}4072\ \text{S}\\ 13\text{-}4081\ \text{S}\\ 11\text{-}3761\ \text{S}\\ 11\text{-}3761\ \text{S}\\ 11\text{-}3761\ \text{S}\\ 12\text{-}3771\ \text{N}\\ 22\text{-}500\ \text{S}\\ 02\text{-}3777\ \text{N}\\ 12\text{-}3839\ \text{N}\\ 22\text{-}3974\ \text{S}\\ 15\text{-}4147\ \text{S}\\ 13\text{-}4087\ \text{S}\\ 11\text{-}4166\ \text{S}\\ 21\text{-}3959\ \text{S}\\ 11\text{-}4089\ \text{S}\\ \end{array}$
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal craniocerebral abdominal severe chest closed brain spinal cord after brain craniocerebral	INJURIES. Management INJURIES. Management INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. An analysis of INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Deaths causes in INJURIES. Deaths causes in INJURIES. Deaths causes in INJURIES. Deaths causes in INJURIES. Emergency management of INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Importance and features INJURIES. Incidence, aetiology, INJURIES. Incidence, aetiology, INJURIES. Late sequelae of INJURIES. On the differential INJURIES. On the initial treatment INJURIES. Rehabilitation of INJURIES. Rehabilitation of	$\begin{array}{c} 15\text{-}3797\ \text{S}\\ 15\text{-}4035\ \text{N}\\ 15\text{-}4047\ \text{S}\\ 15\text{-}4073\ \text{S}\\ 15\text{-}4027\ \text{S}\\ 22\text{-}5705\ \text{S}\\ 22\text{-}5705\ \text{S}\\ 25\text{-}3709\ \text{S}\\ 13\text{-}4027\ \text{S}\\ 13\text{-}4027\ \text{S}\\ 13\text{-}4027\ \text{S}\\ 13\text{-}4027\ \text{S}\\ 13\text{-}4027\ \text{S}\\ 13\text{-}4027\ \text{S}\\ 13\text{-}4081\ \text{S}\\ 13\text{-}3936\ \text{S}\\ 23\text{-}3767\ \text{S}\\ 12\text{-}4117\ \text{S}\\ 12\text{-}3771\ \text{N}\\ 22\text{-}500\ \text{S}\\ 02\text{-}3777\ \text{N}\\ 12\text{-}3839\ \text{N}\\ 22\text{-}3974\ \text{S}\\ 15\text{-}4147\ \text{S}\\ 13\text{-}4087\ \text{S}\\ 11\text{-}4166\ \text{S}\\ 21\text{-}3959\ \text{S}\\ 11\text{-}4089\ \text{S}\\ 11\text{-}4089\ \text{S}\\ 11\text{-}4089\ \text{S}\\ 12\text{-}3141\ \text{S}\\ 11\text{-}508\ \text{S}\ 11\text{-}508\ \text{S}\ 11\text{-}508\ \text{S}\ 11\text{-}508\ \text{S}\ 11\text{-}508\ \text{S}\ 11\text{-}508\ \text{S}\ 11\text$
of shotgun Abdominal abdominal renal Multiple in head 950 fatal abdominal after chest closed chest on 1513 cranial skull and brain acute thoracic recent thoracic recent thoracic recent thoracic and cauder cervical spine closed head maxillofacial and tracheal craniocerebral abdominal severe chest closed brain spinal cord after brain craniocerebral multiple	INJURIES. Management INJURIES. Management INJURIES. Closed INJURIES. Penetrating INJURIES. Penetrating INJURIES. Mortality INJURIES. Mortality INJURIES. A five-year survey of INJURIES. A five-year survey of INJURIES. Analysis of factors INJURIES. Analysis of factors INJURIES. Apropos of 268 INJURIES. Apropos of 268 INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical and statistical INJURIES. Clinical experiences in INJURIES. Clinical experiences in INJURIES. Deaths causes in INJURIES. Deaths causes in INJURIES. Differential therapeutic INJURIES. Emergency management of INJURIES. First aid treatment, INJURIES. Importance and features INJURIES. Incidence, aetiology, INJURIES. Incidence, aetiology, INJURIES. Incidence, aetiology, INJURIES. On the differential INJURIES. On the differential INJURIES. On the initial treatment INJURIES. Rehabilitation of INJURIES. Resuscitation after INJURIES. Resential	$\begin{array}{c} 15\text{-}3797~\text{S}\\ 15\text{-}4035~\text{N}\\ 15\text{-}4047~\text{S}\\ 15\text{-}4027~\text{S}\\ 22\text{-}4521~\text{S}\\ 22\text{-}4521~\text{S}\\ 25\text{-}3705~\text{S}\\ 15\text{-}3709~\text{S}\\ 13\text{-}4072~\text{S}\\ 13\text{-}4081~\text{S}\\ 11\text{-}3761~\text{S}\\ 11\text{-}4536~\text{S}\\ 13\text{-}3936~\text{S}\\ 23\text{-}3767~\text{S}\\ 12\text{-}4117~\text{S}\\ 12\text{-}3771~\text{N}\\ 12\text{-}3839~\text{N}\\ 22\text{-}3974~\text{S}\\ 15\text{-}4147~\text{S}\\ 13\text{-}4087~\text{S}\\ 11\text{-}4166~\text{S}\\ 21\text{-}3959~\text{S}\\ 11\text{-}3741~\text{S}\\ 10\text{-}4089~\text{S}\\ 11\text{-}4089~\text{S}\\ 10\text{-}4152~\text{N}\\ 02\text{-}4152~\text{N}\\ 02\text{-}4000~\text{N}\\ \end{array}$

upper limb	INJURIES. Some complications of	17-3780 N	nature of	IRREVERSIBLE shock.	24-3897 S
spinal cord	INJURIES. Some problems in the	12-3782 N	in	IRREVERSIBLE hemorrhagic shock.	24-3796 S
craniocerebral	INJURIES. Special circulatory	11-3738 S	room to	JAPANESE traffic accident victims.	03-4505 N
craniocerebral	INJURIES. Statistical and	11-4092 S	University of	JENA. Proceedings of the symposium	03-3704 N
acute cranial	INJURIES. Statistical data on 400	22-3765 S	commercial	JET aircraft. The patient	04-4136 N
of splenic	INJURIES. Surgical management	15-3701 5	of the	KIDNEY. Injuries	15-3842 S
addominal	INJURIES. Surgical considerations	15-40205	during the	KOPEAN war Artarial ranair	17 A107 S
inajor road	INJURIES. The early diagnosis	12.4167 N	hloody	I ANES The	01-4197 S
of ekull	INTURIES. The evaluation and therapy	11-4063 S	management of	LARVNGEAL and tracheal injuries	12-3839 N
severe head	INJURIES. The late prognosis in	11-4162 N	accidents and	LARYNGEAL and upper tracheal	12-3911 S
arterial	INJURIES. The management of civilian	17-3708 S	of the	LARYNX and cervical trauma.	12-4006 S
arterial	INJURIES. The recognition and	17-3847 S	to the	LARYNX and upper trachea.	12-4150 N
pancreatic	INJURIES. The surgical management of	15-4131 S		LATE posttraumatic headache.	11-3960 S
of thoracic	INJURIES. Twenty-one years	13-4163 S	The	LATE prognosis in severe head	11-4162 S
with head	INJURIES. Unrecognized abdominal	15-4106 S	trauma.	LATE rupture of the esophagus after	13-4091 N
care to back	INJURIES. Vehicle accidents.	02-4188 N	injuries.	LATE sequelae of severe chest	13-4087 S
of accidental	INJURIES, 50,000 child-years of	01-3621 S	Early versus	LATE treatment of facial fractures.	11-3793 N
failure after	INJURT and transfusion reaction and	24-3770 N 15-3865 N	diaphysial	LEADERSHIP. Opportunity for	01-3811 N
accident	INJURY care. Urgency of	02-3762 N	injury	LEG fractures in adults. Analytical LESIONS associated with closed liver	15-4057 5
cerebrocranial	INJURY given medical care at the	03-3744 S	vascular	LESIONS following cranial impact	11-3923 N
traffic	INJURY in Brisbane.	01-2592 S	the abdomen.	LESIONS of the spleen in closed and	15-4044 S
Closed	INJURY of the liver.	15-4506 S	arterial	LESIONS treated by immediate	17-4533 S
Perforating	INJURY of the small intestine	15-3914 S	angiotensin,	LEVARTERENOL and metaraminol in	24-4510 S
trauma.	INJURY of the superior mesenteric	15-3908 S	hypovolemic	LEVELS. Survival time in different	24-3935 S
The annual	INJURY of 15,000,000 children.	18-4133 S	trauma.	LIFE expectancy, survival rates, and	12-4515 S
of multiple	INJURY patients. The management	02-4127 N	kit for	LIFE-SAVING measures at the scene of	02-4524 N
1-	INJURY produced by seat belts.	15-3881 N	aeromedical	LIFESAVING plan, HELP. A civilian	04-4110 N
crash	INJURY research. Medical aspects	11.2022 \$	of upper	LIMB injuries. Some complications	17-3780 N
sternum and	INJURY to the heart Fracture of the	11-3922 S	nossibilities and	LIMIDS. Artenal complications of	17-3748 8
complications of	INIURY with traffic accident First	23-3754 \$	the serum	LIPASE activity of patients following	25-3786 S
following	INJURY with variously long survival	25-4168 N	preparation	"LIPOSTABIL" in the treatment of	25-3759 N
Acute head	INJURY.	11-4502 S	review of the	LITERATURE on burns and trauma	31-3910 N
chest	INJURY. Crushed	13-3864 S	review of the	LITERATURE on burns and trauma,	31-3831 N
responses to	INJURY. Metabolic	24-4111 N	review of the	LITERATURE on burns and trauma,	31-3877 N
responses to	INJURY. Metabolic	24-4112 N	Injuries of the	LIVER in 300 consecutive patients.	15-3801 S
with head	INJURY. Causes of shock	11-3792 S	640 consecutive	LIVER injuries in civilian	15-4084 S
orain	INJURY. Continuous recording of the	11-4151 N	Ireland.	LIVER injuries in Northern	13-30/9 5 24 2770 N
after civilian	INJURY . Extent and time of blood-loss	11-3932 S	closed	LIVER injury Lesions associated	15-4051 S
in head	INJURY. Eactors influencing	22-3769 S	Management of	LIVER trauma in 259 consecutive	15-3706 S
dving after	INJURY. Fat embolism studied in 100	25-3722 S	of the	LIVER. Injuries	15-4126 S
spinal cord	INJURY. Impairment of respiration	12-3843 S	of the	LIVER. Closed injury	15-4506 S
closed liver	INJURY. Lesions associated with	15-4051 S	injury. The	LONG-TERM prognosis of severe head	11-3880 S
with vascular	INJURY. Management of fracture.	17-3901 N	of blood	LOSS in the shocked and injured	02-3850 N
abdominal	INJURY. Nonpenetrating	15-4542 S	Blood	LOSS in trauma.	24-3952 N
spinal cord	INJURY. On the treatment of	12-4514 S	injuried. The	LOUISVILLE plan for care of the	01-3848 N
after head	INJURY. Rehabilitation	11-3854 S	Rate of	LUNG contusion Traumatia	23-38/3 3
closed chest	INJURY. Symptoms and therapy of INJURY. The sticle system from the sticle system in the sticle system in the sticle system.	14-3/66 S	heart and	LUNG Deceleration injuries	13-4320 3
shock in head	INTERV The incidence and mechanisms	22-4143 S	fractures.	MAJOR abdominal injuries associated	16-4149 S
severe head	INJURY. The long-term prognosis	11-3880 S	complicated by	MAJOR extracranial trauma. The	11-3784 N
with a head	INJURY. The management of skeletal	11-4104 S	surgery of	MAJOR road injuries.	21-4115 S
whiplash	INJURY. The neurological syndromes	12-4538 N	casualty	MANAGEMENT in Vietnam.	01-4183 N
acute head	INJURY. Treatment of the patient	11-3884 S	trauma.	MANAGEMENT of blunt abdominal	15-4052 N
respiratory	INSUFFICIENCY. The transport of	04-4140 N	Emergency	MANAGEMENT of cervical spine	12-3771 N
accidents. The	INTEREST of organized medicine in	02-4023 N	injuries. The	MANAGEMENT of civilian arterial	17-3708 S
tamponade and	INTERVENTRICULAR septal defect.	14-3876 N	approach to	MANAGEMENT of clinical shock.	24-3838 S
the small	INTESTINE. Perforating injury	15-3914 S	shock. The	MANAGEMENT of experimental	24-3896 S
intra-venous and	INTRA-ADDOMINAL INJURIES caused by INTRA-ARTERIAL transforming	13-4103 N 24-2725 N	Emergency	MANAGEMENT OF fracture with	25-5005 N 17-2001 N
indication of	INTRA-VENOUS and intra-arterial	24-3735 N	frauma The	MANAGEMENT of head injuries	11-3784 N
impact.	INTRACEREBRAL vascular lesions	11-3923 N	Immediate	MANAGEMENT of larvngeal and	12-3839 N
and	INTUBATION at the site of accident	03-3979 S	patients.	MANAGEMENT of liver trauma in 259	15-3706 S
tracheal	INTUBATION in first and emergency	02-4530 N	The	MANAGEMENT of multiple injury	02-4127 N
accidents.	INVESTIGATIONS about the adequacy	01-4186 S	surgical	MANAGEMENT of pancreatic injuries.	15-4131 S
Northern	IRELAND. Liver injuries in	15-3879 S	recognition and	MANAGEMENT of peripheral arterial in	17-3847 S
dencit and	INNEVERSIBLE nemorrnagic shock.	24-3934 N	in the	MANAGEMENT of severe hemorrhage.	24-3898 N

•	MANAGEMENT of shotgun injuries.	15-3797 S	i
injury. The	MANAGEMENT of skeletal fractures in	11-4104 S	
the initial	MANAGEMENT of spinal cord injuries.	12-3782 N	(
damage.	MANAGEMENT of spinal injuries with	02-3872 N	
Surgical	MANAGEMENT of splenic injuries.	15-3701 S	
trauma. The	MANAGEMENT of the airway and	23-3894 N	
and improved	MANAGEMENT of the critically ill.	24-3809 N	
Early	MANAGEMENT of the critically injured.	02-3814 N	
First	MANAGEMENT of the injured at the	03-3993 N	
Emergency	MANAGEMENT of thoracoabdominal	18-4058 N	
surgical	MANAGEMENT of through-and-through	14-3801 N	
Survival	MANAGEMENT of trauma. 1904.	01-4114 5 15 2026 N	
Surgical	MANAGEMENT of wounds of the heart	13-3620 N	man
Surgical	MANAGEMENT of 640 consecutive	14-43223	1.
disaster	MANAGEMENT OF 040 consecutive	13-4004 3	D
service for	MANTORA Provincial wide	02-3875 N	
achieved with	MANUAL resuscitator Oxygen	07-3808 N	
in a	MASS casualty situation A	13-3781 N	
cardiac	MASS Casually situation. A MASSAGE for circulatory arrest	02-3005 S	
fractures	MASSIVE hemorrhage from pelvic	24-4050 \$	
114014103.	MASSIVE liver injury and shock	24-4030 S	
necronsy	MATERIAL and animal experiments	25-4153 N	
autopsy	MATERIAL The incidence of morbid	21-4134 S	
of	MACILLOFACIAL injuries First aid	02-3777 N	
diuresis The	MECHANISM of acute renal failure	15-3865 N	
The	MECHANISM of shock following	24-3844 S	
1	MECHANISMS of pulmonary trauma.	13-4129 N	se
incidence and	MECHANISMS of shock in head injury.	22-3931 N	
about	MEDICAL aid at the scene of an	03-3961 S	
	MEDICAL aid on the site of accident.	03-3980 S	
research.	MEDICAL aspects of automotive crash	01-4120 S	
limitations of	MEDICAL assistance at the scene of	02-3748 S	
accidents	MEDICAL bibliography, 1955-1964.	31-2631 N	
given	MEDICAL care at the accident site.	03-3744 S	
for the	MEDICAL care of victims of traffic	01-4186 S	ca
or	MEDICAL care. Ambulance service	01-3926 N	
ambulatory	MEDICAL care. Yale studies	01-3818 S	
flying.	MEDICAL criteria for passenger	04-4021 N	
flights.	MEDICAL criteria for passenger flying	04-4135 N	
operations of	MEDICAL evacuation and transport.	04-4173 N	0
Aerial	MEDICAL evacuation with special	04-4139 N	tra
in civil	MEDICAL evacuations. Helicopters	04-4093 N	
emergency	MEDICAL facilities and services. The	01-3906 N	
size town.	MEDICAL first aid at the site of an	03-3981 S	
site.	MEDICAL first-aid at the accident	02-4180 N	
The	MEDICAL self-help training program.	02-3795 N	
Emergency	MEDICAL service system-analysis of	01-4097 S	
Emergency	MEDICAL services in the small	01-3833 N	
emergency	MEDICAL services. Community-wide	01-4555 N	£1.
emergency	MEDICAL services. Suggestions for MEDICAL treatment in cases of	01-41/9 N	щ
doctors	MEDICAL treatment in cases of MEDICINE in South Vietnam today	02-4019 N	
uociois.	MEDICINE in traffic accidents. The	02-4023 N	0 0
organizeu	MEDICINE III Harric accidents. The MESENTERIC vessels secondary to	15-3008 \$	50
shock	METABOLIC changes associated with	24-3903 S	
SHOCK.	METABOLIC responses to injury	24-4111 N	
	METABOLIC responses to injury	24-4112 N	comn
and	METARAMINOL in the treatment of	24-4510 S	comp
A new	METHOD of treating the flail chest	13-3859 N	
patient.	METHODS of assessment of blood loss	02-3850 N	
various	METHODS of treatment of femoral	25-3724 S	
	MINIMAL equipment for ambulances	02-4100 N	r
	MISSILES in the heart.	14-4509 S	-
vehicle.	MOBILE operating room and emergency	03-4525 N	
of the	MOBILE operating room, Toyota-go.	03-4531 N	1
The	MOBILE operation room of the	03-3978 S	
with the	MOBILE unit of the surgical	03-4512 N	
Efficient	MONITORING with a digital computer	24-3810 N	man
pressure	MONITORING. Central	24-3832 S	

incidence of	MORBID-ANATOMICAL evidence of	21-4134 S
secondary	MORPHOLOGICAL brain changes after	11-3752 N
Clinical and	MORPHOLOGICAL findings in	02-3740 S
and	MORTALITY in a forward surgical	24-4195 S
	MORTALITY in head injuries.	22-4521 5
inituencing	MORTALITY in nead injury.	22-3/09 3
fractures	MORTALITY related to various	22-4300 3
surgery of	MORTALITY Telated to various	01-4015 N
Norway	MOUTH-TO-MOUTH resuscitation in	02-3949 S
After	MULTIPLE injuries	02-4152 N
111001	MULTIPLE injuries.	17-4027 N
management of	MULTIPLE injury patients	02-4127 N
acute	MYOCARDIAL infarction. A clinical	24-4156 S
barbiturates,	NARCOTICS and tranquilizer drugs,	24-3844 S
The	NATURE of irreversible shock.	24-3897 S
of femoral	NECK fracture. Over-all statistical	17-3965 S
Fatal	NECK injuries caused by use of	12-4116 N
base of the	NECK. Arterial injuries of the	12-3702 S
on human	NECROPSY material and animal	25-4153 N
and the	NERVOUS system. Hemorrhagic	24-3954 N
I ne	NEUROSUBCICAL syndromes in injuries	12-4558 N
In the	NEW method of treating the flail	12-3950 N
wall. A	NON-PENETRATING abdominal	15-3039 N
Severe	NON-PENETRATING abuominal	13-4161 S
Severe	NONPENETRATING abdominal injury.	15-4542 S
secondary to	NONPENETRATING abdominal trauma.	15-3908 S
secondary to	NONPENETRATING chest trauma in	13-3783 N
spleen.	NONPENETRATING injuries of	15-3866 S
Traumatic	NONPENETRATING lung contusion.	13-4520 S
, aorta.	NONPENETRATING traumatic rupture	14-3892 N
	NONPENETRATING wounds of the	15-4082 S
in	NORTHERN Ireland. Liver injuries	15-3879 S
in 1. 1.	NORWAY, Mouth-to-mouth	02-3949 S
cardiographic	OBSERVATIONS in pulmonary	21-3/38 5
Further	OBSERVATIONS on the effects of	14-415/ 5 24.3844 S
airway	OCCLUSION of 100 percent 02 at	23-3875 S
of shock	OCCURBING during acute myocardial	24-4156 S
oxygenation	(OHP) on three forms of shock	24-3940 S
trauma, 1964.	ONE year's experience in the	01-4114 S
closed and	OPEN traumas of the abdomen.	15-4044 S
Mobile	OPERATING room and emergency	03-4525 N
brings	OPERATING room to Japanese traffic	03-4505 N
mobile	OPERATING room, Toyota-go. An	03-4531 N
mobile	OPERATION room of the chirurgische	03-3978 S
aid during	OPERATIONS of medical evacuation	04-4173 N
of post	OPERATIVE deaths. The causes	18-4001 S
flying squad	OPPORTUNITY for community	01-3011 N 03-3815 N
first aid	ORGANIZATION and scope of highway	02-4185 S
service The	ORGANIZATION of an efficient	01-3816 N
services. The	ORGANIZATION of emergency medical	01-3906 N
and the	ORGANIZATION of the Birmingham	01-3941 S
interest of	ORGANIZED medicine in traffic	02-4023 N
trauma.	ORTHOPEDIC problems in agricultural	17-3930 S
complications of	ORTHOPEDICS and the surgery of	17-4013 N
deaths in	OSLO traffic accidents. Pedestrian	18-3802 S
site. The	OUTCOME of the cerebrocranial injury	03-3744 S
An	OUTLINE of the mobile operating room,	03-4531 N
fracture.	OVER-ALL statistical study of 216	17-3965 S
resuscitator.	OXYCEN deficit and improve the	02-3808 N
snock.	OXVCENATION (OUD) on three forms	24-3934 N
100 nercent	02 at various ambient pressures	23-3875 5
of the	PANCREAS. A pattern of severe blunt	15-3899 N
of the	PANCREAS. Surgical management of	15-3826 N
management of	PANCREATIC injuries. The surgical	15-4131 S
-	PANCREATIC trauma.	15-3819 S

					14 0000 0
	PANCREATIC trauma.	15-4144 S	wounds of the	PERICARDIUM or its contents.	14-3829 S
criteria for	PASSENGER flying on scheduled	04-4135 N	heart and	PERICARDIUM. Further observations	14-4157 S
for	PASSENGER flying. Medical criteria	04-4021 N	heart and	PERICARDIUM. Penetrating wounds	14-4083 S
Homograft	PATCH repair of bullet wounds of	14-4165 N	different	PERIODS of survival. On pulmonary	25-3971 S
of the	PATHOGENESIS of fat embolism based	25-4153 N	management of	PERIPHERAL arterial injuries. The	17-3847 S
from the	PATHOLOGIST'S viewpoint. The fatal	23-3976 S	injuries in a	PERIPHERAL hospital. A five-year	11-3933 S
victims. The	PATHOLOGY of pedestrian automotive	21-3882 S	accidents.	PERMANENT brain injuries following	11-3742 S
injured	PATIENT and the specialist.	01-4010 N	diagnosis of	PERMANENT closed brain injuries. On	11-4166 S
The	PATIENT in commercial iet aircraft.	04-4136 N	of injured	PERSONNEL from wrecked vehicles	01-3928 N
The traima	PATIENT vs. emergency care. The role	01-3956 N	for rescue	PERSONNEL Cardiopulmonary	02-3845 N
in the	DATIENT with a head injury. The	11.4104 \$	ioi iescue	DEDSONNEL no fatal injurios woro	02-3043 1
in the	PATIENT with a near injury. The	11 2004 0	amoulance	PERSONNEL-no latar injunes were	04 2094 9
of the	PATIENT with acute head injury.	11-3004 3	injured	PERSONS by hencopter. Tasks of	04-3984 5
care of the	PATIENT with crushed chest.	13-3909 N	brain-injured	PERSONS on the basis of veterans'	11-4537 8
injured	PATIENT. The comatose	11-4002 S	Acute	PHARMACODYNAMIC effects of	24-3804 S
injured	PATIENT. Care of the severely	22-4503 N	by the	PHYSICIAN at the site of the	03-3743 S
injured	PATIENT. Experience about medical	03-3961 S	Tasks of the	PHYSICIAN in the transportation of	04-3984 S
and injured	PATIENT. Methods of assessment of	02-3850 N	treatment by	PHYSICIAN of the severely injured.	03-4090 S
in 100	PATIENTS dying after injury. Fat	25-3722 S	accident. The	PHYSICIAN'S kit for life-saving	02-4524 N
in 127	PATIENTS following fatal traffic	22-3728 S		PILOT study on traffic accidents.	01-4194 N
activity of	PATIENTS following fractures. The	25-3786 S	injuries with a	PISTON respirator. Treatment of	13-3712 S
of	PATIENTS to hospital. Some problems	04-4018 N	doctor. A	PLAN for handling trapped	02-4511 N
flying on	PATIENTS with cardiovascular disease	04-4137 S	trauma with	PNFLIMOTHORAX and hemothorax	13-4045 S
nying on	DATIENTS with cranic carebral injuries	11.4002 \$	treatment of	PNELIMOTHORAX in a mass casualty	13-3781 N
	PATIENTS with head initial	15 4106 8	17 formore	DODUTEAL arterial logions trasted	17 4532 8
trauma in	PATIENTS with head injuries.	13-4100 5	1 / lemoro	POPLITEAL alternal resions treated	1/-43333
Survival of	PATIENTS with injuries of the	12-4039 S	of a disaster.	POSSIBILITIES and limitations of	02-3/48 5
transport of	PATIENTS with respiratory	04-4140 N	environment.	POSSIBILITIES for intensitying first	03-3/15 8
pressure in	PATIENTS with severe acute traumatic	11-4151 N	causes of	POST OPERATIVE deaths. The	18-4061 S
in civilian	PATIENTS with spinal cord trauma.	12-4515 S	Traumatic and	POSTOPERATIVE shock.	24-3755 N
of fifteen	PATIENTS with traumatic rupture of	14-4032 S	genesis of	POSTTRAUMATIC fat embolism.	25-4025 N
injured	PATIENTS. Associated injuries in	11-4108 S	Late	POSTTRAUMATIC headache.	11-3960 S
traumatized	PATIENTS. Cause of death	25-4534 S	sublingual	POTASSIUM heparin (clarin) on the	25-3786 S
seriously ill	PATIENTS , Efficient monitoring with	24-3810 N	in civilian	PRACTICE. Arterial injuries	17-4071 S
consecutive	PATIENTS Injuries of the liver	15-3801 S	surgical	PRACTICE, Cranio-cerebral injuries	11-3760 S
consecutive	PATIENTS Management of liver trauma	15-3706 S	in civilian	PRACTICE The surgical management	15-4084 S
consecutive	PATIENTS Results of cardiac	02-3858 5	emphasis on the	PRECAUTIONS necessary in particular	04.4139 N
injury	PATIENTS The management of	02-3030 S	with the	DEDADATION "linostabil" in the	25-3750 N
mjury	DATEOU I INC the reade with aircreft	04.4179 N	United States	PDESENT status of ambulance service	23-3739 N
	PATROLLING the roads with all clait.	15 2000 N	onicu States.	DESENTINC with require town	01-3034 N
pancreas. A	PATTERN of severe blunt trauma to	15-3899 N	esophagus	PRESENTING with respiratory	25-4030 N
accidents.	PATTERNS of throacic injuries in	24-4014 S	blood	PRESSURE determination in flight.	04-4138 N
pathology of	PEDESTRIAN automotive accident	21-3882 S	nuid	PRESSURE in patients with severe	11-4151 N
Fatal	PEDESTRIAN automotive accidents.	01-4008 N	venous	PRESSURE monitoring. Central	24-3832 S
accidents.	PEDESTRIAN deaths in Oslo traffic	18-3802 S	ambient	PRESSURES. Rate of lung collapse	23-3875 S
due to	PELVIC fracture. Concealed	24-3710 S	and its	PREVENTION by solute diuresis. The	15-3865 N
	PELVIC fractures.	16-4064 S	for the	PREVENTION of pulmonary embolism.	21-4519 S
Complicated	PELVIC fractures.	16-4085 S	fractures.	PRIMARY prothetic replacement in	17-3788 S
from	PELVIC fractures. Massive	24-4050 S	Some	PROBLEMS encountered in the aerial	04-4018 N
associated with	PELVIC fractures. Major abdominal	16-4149 S	Orthopedic	PROBLEMS in agricultural trauma.	17-3930 S
complications	PELVIC injuries and urinary tract	16-4075 N	Some	PROBLEMS in the initial management	12-3782 N
of the	PELVIS Fractures	16-4034 N	Surgical	PROBLEMS of traffic accidents and	02-3700 N
of the	PELVIS, Complications associated	16-3790 \$	surgical	PROCEDURE Tracheostomy	02-4030 N
or the	DENAL trauma	15-3795 5	of Iono	PROCEEDINGS of the Symposium of	02-4050 N
	DENIETD ATING cordina injurios	14 2717 8	UI JEIIA.	PRODUCED by soot balts	15 2001 N
	DENIETD ATTING Calulae injulies.	14-3/1/ 3		PRODUCED by seat bells.	13-3001 N
With	PENELIKATING injuries of the neart.	14-3770 5	injuries were	PRODUCED. OF 155 attempted	02-3/18 8
complications.	PENETRATING injuries of the	24-4043 N	The late	PROGNOSIS in severe head injuries.	11-4162 N
	PENETRATING injuries to the chest.	13-4160 S	diagnosis, and	PROGNOSIS of closed abdominal	15-4147 S
	PENETRATING renal injuries.	15-4073 S	long-term	PROGNOSIS of severe head injury.	11-3880 S
diagnosis of	PENETRATING wounds of the	15-3867 N	training	PROGRAM for rescue personnel.	02-3845 N
Civilian	PENETRATING wounds of the	15-4022 S	training	PROGRAM. The medical self-help	02-3795 N
abdomen.	PENETRATING wounds of the	15-4146 S		PROTECTION offered by safety belts.	18-4172 N
	PENETRATING wounds of the aorta.	14-4029 S	Primarv	PROTHETIC replacement in fresh	17-3788 S
Treatment of	PENETRATING wounds of the chest.	13-3912 S	Manitoba	PROVINCIAL wide ambulance service	01-3886 N
472 civilian	PENETRATING wounds of the chest.	13-4125 S	general	PUBLIC. Surgical problems of	02-3700 N
pericardium	PENETRATING wounds of the heart	14-4083 S	iniuries	PULMONARY and enteral complications	11-3741 9
observations on	PENETRATING wounds of the heart	14-4157 \$	from	PUL MONARY embolism (II) Death	21-2757 N
	PENETRATING wounds of the heart	14-3830 \$	11011	PIH MONARY embolism	21.4052 N
contente	PENETR ATING wounds of the	14.2920 0	Eat-1	DIII MONADV ambaliam	21-4033 N
A outo	DEDTIC ulceration and compared for	17-J027 3 75,2775 N	ratal	DII MONADV ambaliam	21-4104 S
Acute of 100	DEDCENT 02 at various ambient	23-3773 IN	study of	FULMUNARY embelient	21-4109 S
	FERGENT UZ AL VALIOUS AMDIENT	23-36/3 5	Shock and	PULMUNAKI embolism.	24-4510 N
miestine.	PERFORATING INJURY OF the small	13-3914 8	prevention of	FULMUNAKY embolism. A vena cava	21-4519 S
The	PERFORMANCE of the Engstrom	02-3807 N	observations in	PULMUNARY embolism. Early	21-3758 S

survival. On	PULMONARY fat embolism after	25-3971 S
Traumatic	PULMONARY fat embolism.	25-3927 N
Mechanisms of	PULMONARY trauma.	13-4129 N
pressures.	RATE of lung collapse after airway	23-3875 S
survival	KATES, and causes of death in	12-4515 5
SNOCK.	RATIONAL approach to management of	24-3838 S
transfusion	REACTION and its prevention by	15-3865 N
circulatory	REACTIONS in the acute stage of	11-3738 S
injuries. The	RECOUCTION and management of	17-384/5
Continuous	RECORDING of the verticular fluid	17-4333 S
Continuous	RECORDS for aliginal suggery. The	11-4151 N
or trauma	RECORDS for children in 1000 brain	01-5/51 5
compensation	DECIMEN for the early early of the	11-435/ 5 12 2000 N
to the	REGIMEN for the paparoas A pattern	15-3909 N
to the	DELIABLE ITATION ofter head injury	11 2054 C
iniuries	REHABILITATION of craniocerebral	11-3034 3
On time	RELATIONS between the accidents and	02-3005 5
The	REMOVAL of injured personnel from	02-3993 S
Combined	RENAL and respiratory failure after	23-4046 N
and other	RENAL disorders in unselected	21-4134 \$
of acute	RENAL failure after injury and	15-3865 N
Acute	RENAL failure following extensive	24-4057 N
Penetrating	RENAL injuries.	15-4073 8
immediate	REPAIR and survival. Bullet	12-4159 N
Arterial	REPAIR during the Korean War.	17-4197 N
patch	REPAIR of bullet wounds of the aorta.	14-4165 N
The	REPAIR of dural defects by graft.	11-4042 S
prothetic	REPLACEMENT in fresh femoral-neck	17-3788 S
Fluid	REPLETION in circulatory shock.	24-3822 N
aorta. A	REPORT of fifteen patients with	14-4032 S
	REPORT on a clinomobile.	03-4539 S
spleen.	REPORT on 41 cases of rupture of the	15-3772 S
traumas.	REPORT on 5900 craniocerebral	22-3737 S
community	REQUIREMENTS for the emergency	01-4190 N
program for	RESCUE personnel. Cardiopulmonary	02-3845 N
services.	RESEARCH on accidental trauma in the	18-4003 N
as	RESEARCH. The autopsy	21-3924 N
injury	RESEARCH. Medical aspects of	01-4120 S
of	RESPIRATION after spinal cord injury.	12-3843 S
Assisted	RESPIRATION in air evacuation.	04-4141 N
Diaphragmatic	RESPIRATION.	12-3803 N
a piston	RESPIRATOR. Treatment of flail chest	13-3712 S
trauma and	RESPIRATORY abnormalities. Severe	22-3947 S
renal and	RESPIRATORY failure after trauma.	23-4046 N
trauma upon	RESPIRATORY function. Effect of	13-3794 S
patients with	RESPIRATORY insufficiency. The	04-4140 N
with	RESPIRATORY symptoms.	23-4036 N
Metabolic	RESPONSES to injury.	24-4111 N
Metabolic	RESPONSES to injury.	24-4112 N
death, the	RESULT of 1000 fatal traffic	02-3995 S
the femur	REDULTING ITOM automobile	1/-391/5
patients.	RESULTS OF CARDiac resuscitation in DESUSCITATION of the multiple injuries	02-3838 5
	RESUSCITATION after multiple injuries	02-4152 N
in tomporant	RESUSCITATION at a community	02-4076 N
to-mouth	DESUSCITATION in Norway, Mouth	02-3704 N
Limits of	PESUSCITATION in serious brain	02-3343 S
Cardiac	RESUSCITATION in 354 patients	22-3739 B
cardionulmonary	RESUSCITATION A teaching-training	02-3845 N
Cardiac	RESUSCITATION Closed chest	02-3885 N
Emergency	RESUSCITATION.	02-3888 N
Cardiac	RESUSCITATION.	02-4145 8
equipment for	RESUSCITATION. Ambulance design	02-3874 N
cardiopulmonary	RESUSCITATION. Training in	02-3887 N
	RESUSCITATION-1966.	02-3820 N
evacuation.	RESUSCITATION , and mortality in a	24-4195 S
cardiopulmonary	RESUSCITATIONS by trained	02-3718 S
أمسم محمد والمتسور	-	
with manual	RESUSCITATOR. Oxygen	02-3808 N

1964. A	REVIEW of the literature on burns	31-3877 N
1963. A	REVIEW of the literature on burns	31-3910 N
On serial	RIB fractures caused by traffic	24-4513 S
of the	RIGHT hemidiaphragm due to blunt	13-4130 N
injuries.	ROAD accidents. Essentials in	02-4000 N
	ROAD accidents.	03-4337 S
from	ROAD accidents. Injuries	18-4009 S
reference to	ROAD accidents. Traumatic rupture	14-3719 S
of 183	ROAD deaths in and around Birmingham	22-3727 S
of major	ROAD injuries. The basic surgery	21-4115 S
of the	ROAD. The toll	01-3805 S
Patrolling the	ROADS with aircraft.	04-4178 N
diagnosis and	ROENTGENOGRAPHY of maxillofacial	02-3777 N
The	ROLE of a university hospital in	02-3873 N
care. The	ROLE of the emergency hospital. The	01-3956 N
emergency	ROOM admissions. An analysis on 2.418	01-3862 S
operating	ROOM and emergency treatment vehicle.	03-4525 N
operation	ROOM of the Chirurgische Universitat	03-3978 S
operating	ROOM to Japanese traffic accident	03-4505 N
to emergency	ROOM. First aid at scene of accident	03-3714 S
operating	ROOM, Toyota-go. An outline of the	03-4531 N
Aortic	RUPTURE in blunt thoracic traumas.	14-4059 S
aortic	RUPTURE in traffic accidents.	14-4527 S
Traumatic	RUPTURE of aorta.	14-3828 S
traumatic	RUPTURE of common femoral artery.	17-3863 N
causing	RUPTURE of spleen. Nonpenetrating	15-3866 S
therapy of	RUPTURE of the aorta with closed	14-3766 S
Traumatic	RUPTURE of the aorta with special	14-3719 S
Traumatic	RUPTURE of the aorta.	14-4033 S
closed	RUPTURE of the diaphragm. Traumatic	13-3895 N
traumatic	RUPTURE of the diaphragm. Closed	13-3999 N
traumatic	RUPTURE of the diaphragm.	13-4182 N
Late	RUPTURE of the esophagus after blunt	13-4091 N
trauma.	RUPTURE of the right hemidiaphragm	13-4130 N
cases of	RUPTURE of the spleen. Report on	15-3772 S
Traumatic	RUPTURE of the spleen.	15-3823 N
Delayed	RUPTURE of the spleen.	15-3827 N
traumatic	RUPTURE of the thoracic aorta. A	14-4032 S
traumatic	RUPTURE of the thoracic aorta.	14-3892 N
trauma.	RUPTURE of thoracic aorta due to	14-3716 N
aortic	RUPTURE. Traumatic	14-4528 S
splenic	RUPTURE, Delayed	15-4198 S
bronchial	RUPTURES. Contribution to traumatic	13-3753 N
accidents in	RURAL areas. Control of	01-3857 S
services in a	RURAL community. Utilization of	01-3824 S
with a	RURAL environment. Possibilities	03-3715 S
automotive	SAFETY belt. The	15-4132 N
by	SAFETY belts. Protection offered	18-4172 N
diagonal	SAFETY belts. Fatal neck injuries	12-4116 N
widely	SCATTERED calls. Canadian air	04-4174 N
at the	SCENE of a disaster. Possibilities	02-3748 S
First aid at	SCENE of accident and first therapy	03-3714 S
aid at the	SCENE of an accident and during	03-3961 S
at the	SCENE of an accident. First	03-3962 N
at the	SCENE of the accident and during	03-4090 S
at the	SCENE of the accident. The	02-4524 N
flying on	SCHEDULED commercial flights.	04-4135 N
and	SCOPE of highway first aid.	02-4185 S
The	SEAT belt syndrome.	15-4101 N
The	SEAT belt syndrome.	18-4007 S
produced by	SEAT belts. Injury	15-3881 N
automobile	SEAT belts. Intra-abdominal	15-4103 N
sternum.	SEAT-BELT fractures of the spine and	12-4103 N
	SEAT-BELT hernia.	13-3929 N
service in	SECONDARY mornhological brain	11_2757 N
trauma. The	SECONDARY morphological orall	15-3008 9
vessels	SELENELD training program. The	13-3795 N
interventricular	SEPTAL defect Stab wound of the	14-3876 N
and	SEPTIC The effect of hyperbaric	24-3940 S
anu	SLI I.C. The effect of hyperballe	

Late	SEQUELAE of severe chest injuries.	13-4087 S	evidence of	SHOCK-kidney and other renal	21-4134 S
treatment. On	SERIAL rib fractures caused by	24-4513 S	loss in the	SHOCKED and injured patient. Method	02-3850 N
in	SERIOUS brain traumas. Limits of	22-3739 S	Management of	SHOTGUN injuries.	15-3797 S
function in	SERIOUSLY ill patients. Efficient	24-3810 N	103 truncal	SHOTGUN wounds. Surgical experience	15-3891 S
transportation of	SERIOUSLY injured persons by	04-3984 S	of the	SICK and injured. Aerial transport	04-4177 S
on the	SERUM lipase activity of patients	25-3786 S	and their	SIGNIFICANCE for the general public.	02-3700 N
ambulance	SERVICE answers widely scattered	04-4174 N	accidents. The	SIGNIFICANCE of aspiration of blood	23-3763 S
hospital	SERVICE area. Helicopters expand	04-4187 N	surgery. The	SIGNIFICANCE of trauma records for	01-3751 S
ambulance	SERVICE for Manitoba. Provincial	01-3886 N	clinical	SIGNIFICANCE of traumatic fat	25-3703 S
Ambulance	SERVICE in Seattle.	01-4175 S	shock with	SIMILAR hypovolemic levels.	24-3935 S
ambulance	SERVICE in the United States.	01-3834 N	situation. A	SIMPLIFIED treatment of	13-3781 N
medical	SERVICE system-analysis of workload.	01-4097 S	at the	SITE of accident and transportation	03-3979 S
Ambulance	SERVICE transportation or medical	01-3926 N	measures at	SITE of accident. Immediate	02-3849 N
ambulance	SERVICE. A survey of emergency	01-4102 S	on the	SITE of accident. Medical aid	03-3980 S
ambulance	SERVICE. Ten musts of a skilled	02-3856 N	aid at the	SITE of an accident in a medium size	03-3981 S
accident	SERVICE. The organization of an	01-3816 N	injured at the	SITE of the accident. First	03-3993 N
Ambulance	SERVICES and traffic casualties.	01-4024 S	physician at the	SITE of the accident. Skull	03-3743 8
ambulance	SERVICES in a rural community.	01-3824 S	at the accident	SITE with reference to errors and	03-3982 S
emergency	SERVICES in Dublin. Accident and	01-3919 N	accident	SITE. Medical first-aid at the	02-4180 N
emergency	SERVICES in Dublin. Accident and	01-4096 S	the accident	SITE. The outcome of the	03-3/44 5
medical	SERVICES in the small community.	01-3853 N	management of	SELETAL fractures in the nationt	13-3761 N
medical	SERVICES. Community-wide emergency	01-4535 N	management of	SKELETAL fractures in the patient	11-4104 S
in the armed	SERVICES. Research on accidental	18-4003 N	with south	SKILLED and brain injuries Clinical	11.4526 S
ambulance	SERVICES. Standards for emergency	02-4191 N	accident	SKULL and blain injuries. Clinical	03-3742 C
facilities and	SERVICES. Suggestions for community	01-41/9 N	therapy of	SKULL injuries The evaluation and	11-4063 \$
nationts with	SEVEDE soute traumatic brain injury	11.4151 N	of the	SMALL intestine Perforating	15-3014 S
patients with	SEVERE acute traumatic brain injury.	11-4131 N	prevention by	SOLUTE divresis The mechanism of	15-3865 N
sequelae of	SEVERE chest injuries	13-4087 \$	iniuries.	SOME complications of upper limb	17-3780 N
following	SEVERE closed cerebrocranial trauma	02-3740 S	hospital.	SOME problems encountered in the	04-4018 N
first aid in	SEVERE craniocerebral injuries.	22-3974 S	injuries.	SOME problems in the initial	12-3782 N
abnormalities.	SEVERE craniocerebral trauma and	22-3947 S	Medicine in	SOUTH Vietnam today. Part 5.	01-4095 N
aid in very	SEVERE craniocerebral traumas.	11-3964 N	injuries.	SPECIAL circulatory reactions in the	11-3738 S
	SEVERE head injuries in children.	11-4107 S	trauma.	SPECIAL features of blunt abdominal	15-3967 S
prognosis in	SEVERE head injuries. The late	11-4162 N	and the	SPECIALIST. The injured patient	01-4010 N
prognosis of	SEVERE head injury. The long-term	11-3880 S	discussions on	SPINAL cord and cauder injuries.	12-4117 S
management of	SEVERE hemorrhage. Controlled	24-3898 N	traumatic	SPINAL cord injuries. On the	21-3959 S
the chest.	SEVERE non-penetrating injuries to	13-4161 S	management of	SPINAL cord injuries. Some probelms	12-3782 N
Care of the	SEVERELY injured patient.	22-4503 N	treatment of	SPINAL cord injury. On the	12-4514 S
transport with	SEVERELY injured patient.	03-3961 S	after	SPINAL cord injury. Impairment of	12-3843 S
nencopter of	SEVERELY injured at the score of	04-39// N	with	SPINAL cord trauma. Life expectancy	12-4515 5
of the	SEVEREL I Injured, at the scene of SHAET fractures of the femure	17-3021 8	Management of	SPINAL cold. Survival of patients	12-4039 S
of femoral	SHAFT fractures Mortality related	17-3921 S	Management of	SPINAL injuries with associated	02-3672 N
of the	SHAFT of the femur resulting from	17-3917 S	cervical	SPINE and the so-called whinlash	12-4103 N
of the tibial	SHAFT. Deep venous thrombosis	17-3944 S	Cervical	SPINE cineradiography after traffic	12-4001 S
Hemorrhagic	SHOCK and fat embolism.	25-3787 S	cervical	SPINE injuries. Emergency	12-3001 S
	SHOCK and pulmonary embolism.	24-4516 N	Lesions of the	SPLEEN in closed and open traumas	15-4044 S
Hemorrhagic	SHOCK and the nervous system.	24-3954 N	of the	SPLEEN. Delayed rupture	15-3827 N
mechanism of	SHOCK following suicidal doses of	24-3844 S	rupture of	SPLEEN. Nonpenetrating injuries of	15-3866 S
mechanisms of	SHOCK in head injury. The incidence	22-3931 N	of the	SPLEEN. Report on 41 cases of rupture	15-3772 S
Concept of	SHOCK in the past and today.	24-3958 N	of the	SPLEEN. Traumatic rupture	15-3823 N
study of	SHOCK occurring during acute	24-4156 S	of	SPLENIC injuries. Surgical	15-3701 S
therapy of	SHOCK on the highway. Contribution	02-4523 N	Delayed	SPLENIC rupture.	15-4198 S
Causes of	SHOCK with head injury.	11-3792 S	Emergency	SQUAD doctor. A plan for handling	02-4511 N
types of	SHOCK with similar hypovolemic level	24-3935 S	Flying	SQUAD.	03-3900 N
traumatic	SHOCK. Treatment of	24-3890 N	flying	SQUAD. Organization and function of	03-3815 N
Iraumatic	SHOCK.	24-3968 N	defect.	STAB wound of the heart with	14-3876 N
nemorrhagic	SHOCK. About the indication of	24-3/33 N	6 600	STAB wounds of the abdomen.	15-3825 S
circulator:	SHOCK. Eluid replation in	24-4310 S	of 500	STAB wounds of the abdomen.	15-4005 S
injury and	SHOCK, Massive liver	24-3022 IN	in the acute	STACES of development and the	11-37385
hemorrhagic	SHOCK. Metabolic changes	24-3903 \$	nospital. The	STANDARDS for amarganov amhulana	01-3941 S
hemorrhagic	SHOCK, Oxygen deficit and irreversible	24-3934 N	in the United	STATES Present status of ombulance	02-4191 N 01-2824 N
of clinical	SHOCK. Rational approach to	24-3838 \$	iniurie	STATISTICAL and therapeutic	11-4007 C
irreversible	SHOCK. The nature of	24-3897 S	Clinical and	STATISTICAL considerations on 1513	11-3761 8
hemorrhagic	SHOCK. The effect of digitalization	24-3796 S	iniuries.	STATISTICAL data on 400 cases of	22-3765 S
endotoxin	SHOCK. The management of	24-3896 S	Over-all	STATISTICAL study of 216 cases of	17-3965 S
postoperative	SHOCK. Traumatic and	24-3755 N	Present	STATUS of ambulance service in the	01-3834 N
three forms of	SHOCK-traumatic, hemorrhagic, and	24-3940 S	The current	STATUS of emergency treatment in	01-3925 N

the current	STATUS of their treatment On	24-4513 S	
of the	STEDNUM and injugate to the boart	14 41 22 N	
. or the	STERNOM and injury to the heart.	14-4122 IN	
spine and	STERNUM. Seat-belt fractures of	12-4105 N	
All-purpose	STRETCHER reduces transfers of acute	02-3916 N	
Fat embolism	STUDIED in 100 patients dying after	25-3722 S	
Yale	STUDIES in ambulatory medical care.	01-3818 S	
time	STUDIES on the frequency of cerebral	25-4168 \$	
time.	STUDIES on the nequency of cerebrar	25-4006 N	
embolism.	STUDIES on the genesis of	25-4025 N	
computer for	STUDY and improved management of	24-3809 N	
Α	STUDY of pulmonary embolism.	21-4169 S	
A clinical	STUDY of shock occurring during	24-4156 S	S
experiments A	STUDY of the nathogenesis of fat	25-4153 N	
A malutical	STUDY of 122 displaying log fronture	17 4027 8	
Analytical	STUDY of 122 diaphysial leg fracture	1/-403/5	
in 1960. A	STUDY of 183 road deaths in and	22-3727 S	
statistical	STUDY of 216 cases of femoral neck	17-3965 S	
Pilot	STUDY on traffic accidents.	01-4194 N	
The acute	SUBACUTE and chronic subdural	11-3746 S	
A outo	SUBACUTE and chronic subdular	11 4540 8	
Acute,	SUBACUTE, and chromic subdular	11-4340 3	
of the	SUBCLAVIAN vessels with associated	24-4043 N	
chronic	SUBDURAL hematoma. Acute	11-4540 S	
chronic	SUBDURAL hematoma. The acute	11-3746 S	
effect of	SUBLINGUAL notassium henarin	25-3786 S	
factors in the	SUCCESS of treatment of anidural	11-4068 \$	
	SUCCESS of treatment of epidular	11-4000 S	
of the heart.	SUCCESSFUL surgical management of	14-3861 N	
services.	SUGGESTIONS for community action	01-4179 N	
following	SUICIDAL doses of barbiturates,	24-3844 S	
Injury of the	SUPERIOR mesenteric vessels	15-3908 S	
hy the	SURGEON Traffic accidents as	01-3749 \$	
Uy the	SUNCEONS of University of Ione	01-3749 S	
association of	SURGEONS of University of Jena.	03-3/04 N	
The basic	SURGERY of major road injuries.	21-4115 S	
accident	SURGERY of motorways. The	01-4015 N	m
and the	SURGERY of trauma. Thromboembolic	17-4013 N	
of accident	SURGERV Experiences with the	03-3983 5	
for clinical	SUBCERV. The significance of trauma	01-3751 S	
	SUNCERT, The significance of trauma	15 4020 5	c.
injuries.	SURGICAL considerations of	15-4028 5	Ir
vena cava.	SURGICAL correction of injuries of	14-3725 S	
wounds.	SURGICAL experience with 103	15-3891 S	
in a forward	SURGICAL hospital. A survey of	24-4195 S	
injuries The	SURGICAL management of pancreatic	15-4131 \$	
injunios. Inc	SUBCICAL management of suboria	15 2701 6	
injunes.	SUBGICAL management of spieme	13-3701 S	
Successiul	SURGICAL management of through-and	14-3861 N	
pancreas.	SURGICAL management of traumatic	15-3826 N	
practice. The	SURGICAL management of 640	15-4084 S	
in hospital	SURGICAL practice. Cranio-cerebral	11-3760 S	
nublic	SURGICAL problems of traffic	02-3700 N	
underrated	SUPCICAL procedure Tracheostomy	02-4030 N	
Early	SUDCICAL procedure. Tracheostomy.	16 2700 6	
Early	SURGICAL treatment of abdominal	13-3/99 5	
unit of the	SURGICAL University Clinic in Cologne	03-4512 N	
service. A	SURVEY of emergency ambulance	01-4102 S	
hospital. A	SURVEY of evacuation, resuscitation,	24-4195 S	
A five-vear	SURVEY of 152 acute abdominal	15-3709 S	
affecting	SURVIVAL after chest injuries	13-4072 S	
aninal aand	SUDVIVAL of notion to with injurios.	12 4020 5	
spinai coru.	SURVIVAL of patients with injulies	12-40393	
expectancy,	SURVIVAL rates, and causes of death	12-4515 S	
levels.	SURVIVAL time in different types of	24-3935 S	
variously long	SURVIVAL time. Studies on the	25-4168 S	
repair and	SURVIVAL, Bullet transection of	12-4159 N	
neriods of	SURVIVAL On pulmonary fat	25-3971 S	
perious or	SURVIVAL, On pullionary lat	20-3771 0	
acute brain	SWELLING following experimental nead	22-4143 5	
and	SYDNEY doctors. Medicine in South	01-4095 N	
of the	SYMPOSIUM of Association of	03-3704 N	
iniurv.	SYMPTOMS and therapy of rupture of	14-3766 S	
respiratory	SYMPTOMS, Unsuspected foreign hodies	23-4036 N	
holt	SVNDROME The seat	15-4101 N	
	STIDIOME, The seat	18-4007 9	
Delt	SINDROME. The seat	10 4520 1	
neurological	SYNDROMES in injuries causing	12-4538 N	
biliary	SYSTEM in children. Traumatic	15-3902 N	
nervous	SYSTEM. Hemorrhagic shock and	24-3954 N	
service	SYSTEM-ANALYSIS of workload.	01-4097 S	
heart with	TAMPONADE and interventricular	14-3876 N	

heliconter	TASKS of the physician in the	04-3984 S
hencopter.	TEACHING among and disaster	01 2072 M
nospital in	TEACHING emergency care and disaster	02-3673 IN
community	TEACHING hospital. Cardiopulmonary	02-4078 N
Α	TEACHING-TRAINING program for	02-3845 N
Findings in	TEMPORARY resuscitation following	02-3764 N
service.	TEN musts of a skilled and ready	02-3856 N
heart	TEN years' experience with	14.3776 \$
	TEN years experience with	14-3//0 3
Statistical and	THERAPEUTIC considerations on 517	11-4092 S
Differential	THERAPEUTIC discussions on spinal	12-4117 S
and first	THERAPY after admission to emergency	03-3714 S
Symptoms and	THERAPY of rupture of the aorta with	14-3766 S
to the	THERAPY of shock on the highway	02-4523 N
evaluation and	THEPAPV of skull injuries	11-4063 \$
evaluation and	THERAI I of skull injulies.	01 2070 N
of the	THERAPY OF trauma. Fundamentals	01-3970 N
Rupture of	THORACIC aorta due to closed-chest	14-3/16 N
rupture of the	THORACIC aorta. A report of	14-4032 S
of the	THORACIC aorta. Acute traumatic	14-4048 N
rupture of the	THORACIC aorta, Nonpenetrating	14-3892 N
Traumatic	THORACIC aortic aneurysms	13-3836 N
of the	THORACIC asophagus Injurios	13 4077 N
of the	THORACIC esopliagus. Injunes	13-40// N
trauma.	THORACIC injuries due to blunt	13-4518 S
	THORACIC injuries in children.	13-4056 N
Patterns of	THORACIC injuries in fatal traffic	24-4014 S
Closed	THORACIC injuries.	13-3723 S
	THORACIC injuries.	13-4067 N
of	THORACIC injurios. Twonty one weeks	13 /163 8
01	THORACIC injulies. I wellty-one years	13-4103 3
in recent	THORACIC injuries. Deaths causes	23-3/6/8
of acute	THORACIC injuries. Current	13-3936 S
	THORACIC trauma.	13-3798 S
in blunt	THORACIC traumas. Aortic rupture	14-4059 S
management of	THORACOARDOMINAL trauma	18-4058 N
Immediate	THORACOTOMY for wounds of the	14.3893 N
-f travers	THOMACOTOMIT IOI would be the	17 4012 N
of trauma.	THROMBOEMBOLIC complications of	17-4013 N
Deep venous	THROMBOSIS following fractures of	17-3944 S
fractures of the	TIBIAL shaft. Deep venous	17-3944 S
Survival	TIME in different types of shock with	24-3935 S
Extent and	TIME of blood-loss after civilian	24-4020 S
accidents On	TIME relations between the accidents	02-3995 \$
curvival	TIME studies on the frequency of	25-4168 \$
Suivivai	TOLL of the used	23-4100 3
Ine	TOLL of the road.	01-3805 5
size	TOWN. Medical first aid at the	03-3981 S
room,	TOYOTA-GO. An outline of the	03-4531 N
and upper	TRACHEA. Blunt trauma to the	12-4150 N
larvngeal and	TRACHEAL injuries. Immediate	12-3839 N
aid	TRACHEAL intubation in first and	02-4530 N
aiu.	TDACHEAL trauma Automobile	12 2011 6
and upper	TRACHEAL IIaunia. Automobile	12-3911 S
in the	TRACHEOBRONCHIAL tree and	23-3812 N
procedure.	TRACHEOSTOMY. An underrated	02-4030 N
during	TRACHEOTOMY. Fatal hemorrhage	02-4041 N
and urinary	TRACT complications. Pelvic injuries	16-4075 N
Agricultural	TRACTOR accidents.	18-3835 N
The fatal	TRAFFIC accident from the pathologists	23-3976 S
Changes in	TRAFFIC accident injuries for the	01-4529 \$
	TRAFFIC accident injuncs for the	02 4505 N
Japanese	TRAFFIC accident victims. Amoutance	03-4303 N
injury with	TRAFFIC accident. First treatment	23-3/54 5
death.	TRAFFIC accidents and aspiration	23-3729 S
caused by	TRAFFIC accidents and the current	24-4513 S
problems of	TRAFFIC accidents and their	02-3700 N
surgeon.	TRAFFIC accidents as viewed by the	01-3749 S
Fatal	TRAFFIC accidents in Adelaide	01-4012 S
Fatal	TRAFFIC accidents in Russiane from	21-4119 \$
raial	TD A EFIC accidents in Consda	01_4017 N
1075 1074	TRAFFIC accidents in Canada,	21 2621 N
1955-1964.	I KAFFIC accidents medical	51-2031 N
Injuries in	TRAFFIC accidents.	01-3726 S
on	TRAFFIC accidents. Pilot study	01-4194 N
in	TRAFFIC accidents. Chest injuries	13-4526 S
fatal	TRAFFIC accidents. Autopsy findings	22-3728 S
after	TRAFFIC accidents. Cervical spine	12-4001 S
victime of	TRAFFIC accidents. Investigations	01-4186 S
	TRAFFIC accidents On time	02-3995 \$
1000 Iatal	I IVAL I TO accidents. On thine	0 0 0 0 0 0 0

in fatal	TRAFFIC accidents Patterns of	24-4014 \$
in Oalo	TD A FEIC accidents. Dedestrian	10 2000 0
In Osio	TRAFFIC accidents. Pedestnan	10-3002 5
following	TRAFFIC accidents. Permanent brain	11-3742 S
victims of	TRAFFIC accidents. The aspiration	23-3768 S
medicine in	TRAFFIC accidents. The interest	02-4023 N
rupture in	TRAFFIC accidents. Traumatic	14-4527 S
rupture m	TD A FFIC cosultions in the Consider	01-4016 \$
10	TRAFFIC casualties in the Canadian	01-4010 3
and	IKAFFIC casuallies. Ambulance	01-4024 5
	TRAFFIC deaths.	01-3918 S
	TRAFFIC injury in Brisbane.	01-2592 S
in the	TRAFFIC victim. Early surgical	15-3799 S
bv	TRAINED ambulance personnel-no fatal	02-3718 S
resuscitations	TRAINING in cardiopulmonary	02-3887 N
self-heln	TRAINING program The medical	02-3795 N
sen-neip	TRAINING program. The method	02-3733 N
narcotics and	TRANQUILIZER drugs, with	24-3844 5
Bullet	TRANSECTION of both common	12-4159 N
traumatic	TRANSECTION of the pancreas.	15-3826 N
reduces	TRANSFERS of acutely injured.	02-3916 N
intra-arterial	TRANSFUSION in hemorrhagic shock.	24-3735 N
injury and	TRANSFUSION reaction and its	15-3865 N
evnerience	TPANSPORT by beliconter of severely	04-3077 N
The	TD ANSPORT of notionts with	04-3377 N
The	TRANSPORT of patients with	04-4140 N
Aeriai	TRANSPORT of the sick and injured.	04-4177 S
during	TRANSPORT with severely injured	03-3961 S
and	TRANSPORT. The use of the	04-4173 N
aerial	TRANSPORTATION of patients to	04-4018 N
in the	TRANSPORTATION of seriously	04-3984 S
service	TRANSPORTATION or medical care	01-3926 N
accident and	TPANSPOPTATION to the hospital	01 3920 1
accident and	TRANSFORTATION to the hospital.	03-39/9 3
and during	TRANSPORTATION. Treatment by	03-4090 5
for handling	TRAPPED casualties. Emergency squad	02-4511 N
craniocerebral	TRAUMA and respiratory abnormalities	22-3947 S
chest	TRAUMA in adults. Nonpenetrating	13-3783 N
abdominal	TRAUMA in patients with head injuries	15-4106 S
accidental	TRAUMA in the armed services.	18-4003 N
of liver	TRAUMA in 259 consecutive natients	15-3706 \$
hospital The	TDAIMA notient vs. amarganou cara	01-3056 N
inospital. The	TRACMA parente vs. energency care.	01-3930 N
significance of	TRAUMA records for clinical surgery.	01-5/51 5
burns and	TRAUMA September 1962 to August	31-3910 N
Blunt	TRAUMA to the larynx and upper	12-4150 N
blunt	TRAUMA to the region of the pancreas	15-3899 N
of chest	TRAUMA upon respiratory function.	13-3794 S
Chest	TRAUMA with pneumothorax and	13-4045 S
	TRAUMA, Craniocerebral	11-3963 S
	TRAUMA Acute craniocerebral	11_/100 N
Thoracia	TD ATMA	12 2709 6
Inoracic	TRAUMA.	13-3/90 S
pulmonary	I KAUMA. Mechanisms of	13-4129 N
Penal	TRAUMA.	15-3785 S
Pancreatic	TRAUMA.	15-3819 S
abdominal	TRAUMA. Blunt	15-3915 S
abdominal	TRAUMA. Blunt	15-3991 S
abdominal	TRAUMA. Blunt	15-4054 S
Pancreatic	TRAUMA	15-4144 S
Abdominal	TDALIMA	15.4106 8
Aduoninial	TDATMA Aguto	13-4190 3
cramai	TRAUMA, Acute	22-4098 5
in	TRAUMA. Blood loss	24-3952 N
extensive	TRAUMA. Acute renal failure	24-4057 N
tracheal	TRAUMA. Automobile accidents and	12-3911 S
cerebrocranial	TRAUMA. Clinical and morphological	02-3740 S
failure after	TRAUMA. Combined renal and	23-4046 N
abdominal	TRAUMA, Complete division of the	15-3860 N
	TRAUMA Emergency management of	18-4050 N
thereas of	TD ATIMA Eurodomental - 6 the	10-+U30 N
therapy of	TDATEA Line in College	01-3970 N
cervical	IKAUMA. Injuries of the larynx and	12-4006 S
abdominal	TRAUMA. Injury of the superior	15-3908 S
after blunt	TRAUMA. Late rupture of the	13-4091 N
spinal cord	TRAUMA. Life expectancy, survival	12-4515 S
abdominal	TRAUMA, Management of blunt	15-4052 N
agricultural	TRAUMA. Orthopedic problems in	17-3930 \$
to hlunt	TRAUMA Runture of the wight	13_/120 M
to Diulit	a way may way to be the light	10.4100 W

closed-chest	TRAUMA. Rupture of thoracic aorta	14-3716 N
abdominal	TRAUMA. Special features of blunt	15-3967 S
extracranial	TRAUMA. The management of head	11-3784 N
in e 11	TRAUMA. The management of the	23-3894 N
atter blunt	TRAUMA. The secondary morphological	11-3752 N
olulit Surgery of	TRAUMA. Thromboambolic	13-4318 S
management of	TRAUMA, Infondoendone TRAUMA 1964 One year's experience	01_4114 S
hurns and	TRAUMA, 1964. One year's experience	31-3877 N
burns and	TRAUMA . September 1964 to August	31-3831 N
and open	TRAUMAS of the abdomen. Lesions of	15-4044 S
thoracic	TRAUMAS. Aortic rupture in blunt	14-4059 S
brain	TRAUMAS. Limits of resuscitation	22-3739 S
craniocerebral	TRAUMAS. On first aid in very severe	11-3964 N
craniocerebral	TRAUMAS. Report on 5900	22-3737 S
shock.	TRAUMATIC and postoperative	24-3755 N
accidents.	TRAUMATIC aortic rupture in traffic	14-4527 8
aguta	TRAUMATIC aortic rupture.	14-45285
acute	TRAUMATIC branchial runtures	12-4151 N 13-3753 N
childhood	TRAUMATIC cerebral hemotrhages in	11-3747 S
diaphragm.	TRAUMATIC closed rupture of the	13-3895 N
of	TRAUMATIC fat embolism. The	25-3703 S
	TRAUMATIC hemothorax.	13-3907 S
children.	TRAUMATIC injuries to the biliary	15-3902 N
contusion.	TRAUMATIC nonpenetrating lung	13-4520 S
	TRAUMATIC pulmonary fat emoblism	25-3927 N
<i>a</i> 1	TRAUMATIC rupture of aorta.	14-3828 S
Closed	TRAUMATIC rupture of common	17-3863 N
accidents.	TRAUMATIC rupture of the sorts	14-3/19 S
Closed	TRAUMATIC rupture of the diaphragm	14-4035 S
Contribution to	TRAUMATIC rupture of the diaphragm.	13-4182 N
	TRAUMATIC rupture of the spleen.	15-3823 N
Nonpenetrating	TRAUMATIC rupture of the thoracic	14-3892 N
patients with	TRAUMATIC rupture of the thoracic	14-4032 N
Acute	TRAUMATIC rupture of the thoracic	14-4048 N
Treatment of	TRAUMATIC shock.	24-3890 N
6 4	TRAUMATIC shock.	24-3968 N
of acute	TRAUMATIC spinal cord injuries. On	21-3939 S
management of	TRAUMATIC transection of the	15-3826 N
death in	TRAUMATIZED nations Cause of	25-4534 S
lesions	TREATED by immediate reconstruction	17-4533 \$
Essentials in	TREATING cerebro-cranial injuries.	02-4000 N
method of	TREATING the flail chest wall.	13-3859 N
First	TREATMENT at the scene of an	03-3962 N
transportation.	TREATMENT by physician of the severe	03-4090 S
emergency	TREATMENT in automobile accidents.	01-3925 N
medical	TREATMENT in cases of asphyxiation.	02-4019 N
surgical	TREATMENT of abdominal injuries in	15-3799 S
the initial	TREATMENT of acute thoracic injuries.	13-3936 S
Conservativo	TREATMENT of apple fractures	21-3939 S
the success of	TREATMENT of endural hematoma	11-4068 \$
Diagnosis and	TREATMENT of epidural hemorrhage.	11-3966 S
versus late	TREATMENT of facial fractures.	11-3793 N
fractures.	TREATMENT of fat embolism	25-4049 N
and	TREATMENT of fat embolism.	25-3730 N
On the	TREATMENT of fat embolism.	25-3756 N
in the	TREATMENT of fat embolism.	25-3759 N
methods of	IKEAIMENI of femoral shaft fractures	25-3724 S
the chest	TREATMENT OF nonetrating wounds of	13-3/12 S
A simplified	TREATMENT of pneumothorax in a	13-3781 N
in the	TREATMENT of shock. Circulatory	24-4510 S
On the	TREATMENT of spinal cord injury.	12-4514 S
First	TREATMENT of the complications of	23-3754 S
injury.	TREATMENT of the patient with acute	11-3884 S
	TREATMENT of traumatic shock.	24-3890 N

emergency	TREATMENT vehicle. Mobile	03-4525 N	aspiration in	VICTIMS of traffic accidents.	23-3768 S
an aid to	TREATMENT. Classification of chest	13-3841 S	care of	VICTIMS of traffic accidents.	01-4186 S
of their	TREATMENT. On serial rib fractures	24-4513 S	accident	VICTIMS. Ambulance brings operating	03-4505 N
effects of	TREATMENT. The mechanism of shock	24-3844 S	accident	VICTIMS. Estimating community	01-4190 N
First aid	TREATMENT, diagnosis and	02-3777 N	accident	VICTIMS. The pathology of	21-3882 S
tracheobronchial	TREE and esophagus. Foreign bodies	23-3812 N	in South	VIETNAM Today. Part. 5. Vung Tau-	01-4095 N
Australian	TROOPS, American helicopters and	01-4095 N	management in	VIETNAM. Combat casualty	01-4183 N
with 103	TRUNCAL shotgun wounds. Surgical	15-3891 S	accidents as	VIEWED by the surgeon. Traffic	01-3749 S
injuries.	TWENTY-ONE years of thoracic	13-4163 S	from the	VIEWPOINT of accident surgery.	03-3983 S
peptic	ULCERATION and cerebral fat	25-3775 N	pathologist's	VIEWPOINT. The fatal traffic accident	23-3976 S
in the	UNITED STATES. Present status of	01-3834 N	Part 5.	VUNG TAU- Australian troops, America	01 -40 95 N
Chirurgische	UNIVERSITATSKLINIK Heidelberg.	03-4512 N	flail chest	WALL. A new method of treating	13-3859 N
the surgical	UNIVERSITY clinic in Cologne.	03-4512 N	the Korean	WAR. Arterial repair during	17-4197 S
role of a	UNIVERSITY hospital in teaching	02-3873 N	casualty	WARD. Analysis of admissions to a	01-3948 S
surgeons of	UNIVERSITY of Jena. Proceedings of	03-3704 N	so-called	WHIPLASH injury. The neurological	12-4538 N
injuires.	UNRECOGNIZED abdominal trauma in	15-4106 S	of	WORKLOAD. Emergency medical	01-4097 S
symptoms.	UNSUSPECTED foreign bodies in the	23-4036 N	Stab	WOUND of the heart with tamponade	14-3876 N
of	UPPER limb injuries. Some	17-3780 N	gunshot	WOUND of the heart. Successful	14-3861 N
larynx and	UPPER trachea. Blunt trauma to	12-4150 N	Stab	WOUNDS of the abdomen.	15-3825 S
laryngeal and	UPPER tracheal trauma. Automobile	12-3911 S	500 stab	WOUNDS of the abdomen. Analysis of	15-4005 S
	URGENCY of accident injury care.	02-3762 N	penetrating	WOUNDS of the abdomen. Civilian	15-4022 S
injuries and	URINARY tract complications. Pelvic	16-4075 N	Nonpenetrating	WOUNDS of the abdomen.	15-4082 S
The	USE of the helicopter as a means of	04-4173 N	Penetrating	WOUNDS of the abdomen.	15-4146 S
community.	UTILIZATION of ambulance services in	01-3824 S	penetrating	WOUNDS of the abdomen. X-ray	15-3867 N
injury with	VARIOUSLY long survival time. Studies	25-4168 S	Penetrating	WOUNDS of the aorta.	14-4029 S
fracture with	VASCULAR injury. Management of	17-3901 N	of bullet	WOUNDS of the aorta. Homograft	14-4165 S
Intracerebral	VASCULAR lesions following cranial	11-3923 N	penetrating	WOUNDS of the chest. Experience	13-4125 S
injuries.	VEHICLE accidents. Immediate care to	02-4188 N	penetrating	WOUNDS of the chest. Treatment	13-3912 S
treatment	VEHICLE. Mobile operating room and	03-4525 N	Penetrating	WOUNDS of the heart and	14-4083 S
wrecked	VEHICLES. The removal of injured	01-3928 N	penetrating	WOUNDS of the heart and	14-4157 S
embolism. A	VENA cava filter for the prevention	21-4519 S	Penetrating	WOUNDS of the heart.	14-3830 S
of the	VENA cava. Surgical correction of	14-3725 S	Gunshot	WOUNDS of the heart.	14-3846 S
associated	VENOUS complications. Penetrating	24-4043 N	Gunshot	WOUNDS of the heart.	14-4158 S
Central	VENOUS pressure monitoring.	24-3832 S	management of	WOUNDS of the heart.	14-4522 S
Deep	VENOUS thrombosis following fracture	17-3944 S	thoracotomy for	WOUNDS of the heart. Immediate	14-3893 N
airway and	VENTILATION in trauma. The	23-3894 N	Penetrating	WOUNDS of the pericardium or its	14-3829 S
Engstrom	VENTILATOR. The performance of	02-3807 N	Cardiac	WOUNDS.	14-4040 S
	VENTRICULAR fibrillation.	02-3945 N	shotgun	WOUNDS. Surgical experience with	15-3891 S
of the	VENTRICULAR-FLUID pressure in	11-4151 N	from	WRECKED vehicles. The removal of	01-3928 N
first aid in	VERY severe craniocerebral traumas.	11-3964 N	abdomen.	X-RAY diagnosis of penetrating	15-3867 N
mesenteric	VESSELS secondary to nonpenetrating	15-3908 S	care.	YALE studies in ambulatory medical	01-3818 S
subclavian	VESSELS with associated venous	24-4043 N	bodies in the	YOUNG child's esophagus presenting	23-4036 N
basis of	VETERANS' compensation records.	11-4537 S	clinic in	ZURICH with acute skull and brain	11-4536 S
in the traffic	VICTIM. Early surgical treatment	15-3799 S			•

EMERGENCY MEDICAL SUBJECT CODE LIST

D V DB DDB DDC DDC DDC DDC DDC DEE DEF DEF DEF DEF DEF DEF DEF DEF DEF	 /EHICLE Nonpowered Bicycles Animal Driven Power Vehicle Rail Airborne Airplanes Helicopters Motor Vehicles Motor Cycles Passenger Buses Taxicabs Cargo Trucks Truck Trailers Truck Tractors Multipurpose Special Purpose Ambulance Medical Unit Auxiliaries/ Accessories Restraint Systems Seat Belts Shoulder Harnesses Personal Equipment Helmets
E PI EA EAB EC ECB ECC ED EE EEB EEC EFC EFC EFC EFC EJ EK EL EM EN EO	EOPLE Age Driving Age Children Infants Preadolescents Adolescents Adolescents Adults Middle Aged Old Aged Sex Males Females Pregnant Occupations Race National Origins Pedestrians Passengers Drivers
F SC FC FDB FDC FDD FDE FDF FDF FDG FG FH FI FJ FK	OCIETY Communities Corporate Bodies Industrial Business Foundations/ Societies Service Organizations Schools Safety Centers Governments Legislatures Executive Branches Judiciary Branches/ Courts Mass Media/ Communications

J	ACCIDENT
JA	Preventive Measures
	Spot Improvements
IC	Noncollision on Road
JCB	Overturning
JCC	Falling from moving vehicle
JD	Collision
JE JE	Single Vehicle Multiple Vehicle
JK	Accident Hazards
JKB	Ejection
JKC	Flying Objects
	Fire
JKE	Explosion
JKG	Electrocution
JL	Accident-Investigation
JLK	Accident Causation
JLK IM	Accident-Records Property Damage
JMD	Debris Removal
JME	Repairs
JN	Injury/ Trauma
INC	Fatal Internal
JND	Superficial
JNE	Contusion/ Crushing/ Blunt
JNF	Concussion
JNG	Benetration/ Openwound/
JNH	Fracture
JNI	Dislocation
JNJ	Sprain/ Strain
JNK	Hemorrhage
JNL INM	Poison Burns/ Scalds
JNN	Asphyxia/ Suffocation
JNO	Dismemberment/ Decapitation
JNP	Consequences/ Complications
JNPF INPC	Fatal Late Effects
JNPH	Pneumonia
JNPI	Fat Embolism
JNPJ	Aspiration/ Dehydration
JNPK INPI	Blood Loss/ Bleeding Shock
JNPM	Anoxia/ Hypoxia
JNPO	Occlusion/ Thrombosis/ Clot
JNPQ	
JIN W INX	wnipiasn Multinle Severe Injuries
JR	Recovery of Injured
JRD	Detection
JRE	Communication
JRED	Location (Search)
JREF	Decision (Interagency)
JRF	Extraction of Occupant
JRG	Treatment/ Care
IRGE	(See also Medical Methods, WS First Aid (Red Cross)
JRGH	Advanced (Red Cross)
JRGH	Comprehensive
JRGI	Professional/ Physician
јкп	(See also Special Purpose
	Vehicles. DEH)
JRHC	Transportability
JRHD	Dead at Scene
	Dead on Arrival
JRJ	Hospital Care
JRJD	Dead After Arrival
JRJE	Emergency Room
JUJL	Kenadimation

O BIOM	AEDICAL ASPECT
OA A	natomy/ Body
OAB	Cell
OAC	Tissue
	Ankle
OADB	Foot
OADC	Toe
OADD	Heel
OADE	Leg
OADEB	Femur
OADEC	Fibula
OADED	Knee
OADG	Thigh
OADH	Pelvis
OADHB	Buttocks
OADHC	Hips
OADHD	Perineum/ Anus
OAE	Abdomen
OAEB	Inguinal Canal
OAEC	Hypogastric
OAEE	Umbilical
OAEF	Lumbar
OAEG	Epigastric
OAEH	Hypochondriac
OAF	Thorax
OAFB	Breasts
OAFD	Ribs
UAG	Upper Extremity
OAGD	Avilla
OAGD	Arm
OAGDB	Elbow
OAGDC	Humerus
OAGDD	Forearm
OAGDDB	Radius
OAGDDC	Ulna
OAGDE	Wrist
OAGDE	Hand Finger/Thumb
OAGDU	Metacarnals
OAH	Neck
OAHB	Throat
OAHC	Bronchial Region
OAHD	Hyoid
OAL	Head
OAIA	Skull
OAIC	Scalp
OAIE	Maxilla
OAIF	Eye
OAIFB	Eyebrow
OAIFC	Eyelashes
OAIFD	Eyelid
OAIG	Ear Dimention Sectors /
UAJ	Alimentary Treat
OA IB	Mouth
OAIBB	Lins
OAJBF	Jaw/ Chin
OAJC	Tooth
OAJE	Tongue
OAJI	Esophagus
OAJJ	Stomach
OVIC	Gastric Glands
OAIK	Small Intestine
OAJKB	Caecum
OAJL	Large Intestine
OAJLB	Rectum
OAJM	Liver/ Biliary Tract
	Spleen/ Lymph Tracts
OAJP	Pancreas

OAKCardiovascular SystemOAKBHeartOAKCBlood VesselsOAKCBArteriesOAKCCVeinsOAKCDCapillariesOAKCDCapillariesOAKCDCapillariesOALRespiratory SystemOALRespiratory SystemOALANose/ Nasal SinusesOALCLarynxOALDTrachea/ BronchiOALELungsOALFDiaphragmOALGMediastinumOAMUrogenital SystemOAMBKidneysOAMDMale Genital OrgansOANBCentralOANBCentralOANBSpinal CordOANCPeripheralOANBAutonomicOANDNerveOAOMusclesOADBVertebrae/ SpineOAOBVertebrae/ SpineOAOBLigamentsOAODLigamentsOAODBLigamentsOADBLigamentsOADBConnective Tissues/Integumentary SystemsOANBConnective Tissues/	W METHODS WB Historical WE Experimental WEF Field WEG Laboratory WM Mathematical WMD Analysis WME Statistical/Probability WMEB Design WMEBB Factorial WMEBC Covariance/Correlation WMEBD Regression WMEBD Regression WMEBC Least Square WMED Test WMEC Nonparametric WMEC Nonparametric WMEC Stochastic WMEG Sampling WMEH Estimation WMF Decision Making/ Game WMF Decision Making/ Game WMF Decision Making/ Operations Research WNF Systems Analysis/ Operations Research WNB Models/ Modeling WS Medical (See also Treatment/ Care, JRG) WSB First Aid WSBCR Resuscitation WSBCRN Mouth-to-mouth WSBD Bleeding WSBD Bleeding WSBD Bleeding WSC Diagnosis	N PHYSICAL ASPECT NK Operating Conditions NKC Pressure NKE Acceleration/ Deceleration NKF Frequency/ Time NKFB Reaction Time NKFF Delay NKFF Delay NKFF Delay NKFF Delay NKFF Delay NLE Impact NLG Distance/ Range NLG Mileage NLP Sound NLPC Ultrasonic/ Supersonic Q EDUCATIONAL ASPECT QC Principles QD Teaching/ Training QE Materials/ Equipment OF Education QGE Safety QGMG Advanced (Red Cross) QGMG Advanced (Red Cross) QGMH Comprehensive QCMI Professional/ Physician QH Teachers/ Instructors	Y STUDY-REPORT TYPE YC Nature of Study YCB Research YCC State-of-the-Art YCD Survey YCE Theoretical YCF Systems Study YCG Laboratory Experiment YCH Field Experiment YCH Field Experiment YCI Design YCJ Future/Projection YCK Case Study YCL Evaluation/Effectiveness YE Contents YEB Proceedings YEC Bibliography YED Abstracts YEE Bibliography YEF Data Statistics YEF Data Statistics YEF Data Statistics YEF Data Statistics YEF Data Statistics YEF Data Statistics YEI Photographs/Illustrations YEI Photographs/Illustrations YEI Photographs/Specifications YEN Standards YEP Standards YEO Maps YEP Diagrams/Plans
OAPBSkin/ Hair/ NailsOAQEndocrine SystemOARBody FluidsOARDLymphOARCBloodOARCBloodOARCSalivaOARCSalivaOARFTearsOARGGastricOARHUrineOARISweatOBDiseases/ PathologicalOBCToxicologyOBCBAlcoholOBCDPoisonsOBMMetabolismOBNNutritionOBPPublic Health/ Hygiene	WSDSurgeryWSDBPlasticWSDCGeriatricWSDDPediatricWSDFMilitaryWSDFExperimentalWSDGAmputationWSETherapeuticWSFAnesthesiaWSIAutopsy/PathologyWSXX-RayWUTesting/MeasuresWUBParametersWUPPhysiologicalWUPCRespiratory RateWUPCBlood PressureWUPEBlood Flow/ Cardiac OutputWUPJEEGWUPKEKG	SB Social SB Social SBB Behavior/ Mores SBC Population/ Demography SBD Politics SBE Public Opinion SC Economics SCC Microeconomics/ Price Theory SCD Economic Behavior SCE Cost Effectiveness SCG Budgets/ Budgeting SCH Finance SF Measures SFB Safety SFD Community Support	ENVIRONMENT K SPACE KB Terrain/Habitat KBB Flat KBC Rolling KBD Hilly KBE Mountains KBF Desert KBG Vegetation KBH Cultivated KBK Rural KBL Suburban KBM Urban/Town/City KL Zone/Land Usage KLB Residential KLC School/Hospital KLC School/Hospital KLD Farm KLE Park/Resort KLF Business KLI Inductiol
P PSYCHOLOGICAL ASPECT PBSensesPCPersonalityPCBMeasuresPCCTypologies/Clinical DiagnosisPCCBAlcoholismPCCCSuicide/HomocidePCCNNeurosesPCCPPsychosisPCDPast ExperiencePDCognitionPEState of the OrganismPEBState of ArousalPEFFatiguePFBehavioral Factors	X EQUIPMENT XK Computers XT Medical XTB Breath Analyzer XTC Chemical Test (Blood Alcohol) XTF Splints XTG Stretchers XTH Backboards XTI Resuscitators XTI Resuscitators XTI Aspirators XTK Oxygen Supply XTL Airway Maintenance XTM Hemorrhage Control XTP Pacemaker XTQ Defibrillator	V DISCIPLINES VK Social Sciences VL Engineering VM Biomedical Sciences VMB Biomedical Sciences VMB Epidemiology/ Etiology VQ Information/ Communication VR Law VU Human Engineering/ Ergonomics VU Human Engineering/ Ergonomics I SERVICES IE Communications IF Vehicle IFB Service Stations IFC Towing IH Parking IM Road Maintenance IO Hospital (See also Hospital Care, JRJ) IQ Ambulance (See also Becovery of Injured JR)	L TIME (See also Frequency/ Time, NKF)

SUBJECT INDEX

DBB Bicycles, Nonpowered, Vehicle

22-3727 S A Study of 183 Road Deaths In and Around

Airborne, Power Vehicle, Vehicle DDC

- 04-4018 N Some Problems Encountered in the Aerial
- 04-4021 N Medical Criteria for Passenger Flying.
- 04-4135 N Medical Criteria for Passenger Flying on
- 04-4136 N The Patient in Commercial Jet Aircraft.
- 04-4137 S Effects of Flying on Patients with
- 04-4138 N Automatic Indirect Blood Pressure
- 04-4139 N Aerial Medical Evacuation with Special
- 04-4140 N The Transport of Patients with Respiratory
- 04-4141 N Assisted Respiration in Air Evacuation.

Airplanes, Airborne, Power Vehicle, Vehicle DDCB

- 04-4174 N Canadian Air Ambulance Service Answers
- 04-4177 S Aerial Transport of the Sick and Injured.
- 04-4178 N Patrolling the Roads with Aircraft.
- DDCD Helicopters, Airborne, Power Vehicle, Vehicle
 - 01-4095 N Medicine in South Vietnam Today. Part 5.
 - 01-4183 N Combat Casualty Management in Vietnam.
 - 01-4193 N The Bloody Lanes.
 - 04-3977 N Transport by Helicopter of Severely
 - 04-3984 S Tasks of the Physician in the
 - 04-4093 N Helicopters in Civil Medical Evacuations.
 - 04-4110 N A Civilian Aeromedical Lifesaving Plan,
 - 04-4173 N The Use of the Helicopter as a Means of
 - 04-4187 N Helicopters Expand Hospital Service Area.

Motor Vehicles, Vehicle DE

- 01-3726 S Injuries in Traffic Accidents.
- 01-3749 S Traffic Accidents as Viewed by the
- 03-3714 S First Aid at Scene of Accident and First
- 11-3742 S Permanent Brain Injuries Following Traffic
- 22-3727 S A Study of 183 Road Deaths In and Around
- 22-3728 S Autopsy Findings in 127 Patients Following 24-3713 S An Analysis of 827 Cases of Fatal Accidents.
- 31-2631 N Traffic Accidents Medical Bibliography,
- Motor Cycles, Motor Vehicles, Vehicle DEB 22-3727 S A Study of 183 Road Deaths In and Around
- DEC Passenger, Motor Vehicle, Vehicle 01-2592 S Traffic Injury in Brisbane.

Special Purpose, Motor Vehicles, Vehicle DEH

- 02-3700 N Surgical Problems of Traffic Accidents
- 03-3704 N Proceedings of the Symposium of
- 03-3961 S Experience about Medical Aid at the Scene
- 03-3962 N First Treatment at the Scene of an Accident.
- 03-3978 S The Mobile Operation Room of the
- 03-3979 S Anesthesia and Intubation at the Site of

- 03-3982 S First Aid at the Accident Site with
- 03-3983 S Experiences with the Cologne Emergency

DEHL Ambulances, Special Purpose, Motor Vehicles. Vehicle (See Also Ambulance, Services, IQ)

- 01-3834 N Present Status of Ambulance Service in
- 01-3886 N Provincial Wide Ambulance Service for
- 01-3962 N Ambulance Service Transportation or
- 01-4024 S Ambulance Services and Traffic Casualties.
- 02-3874 N Ambulance Design and Equipment for
- 03-3900 N Flying Squad.

DEHM Medical Units, Special Purpose, Motor Vehicles, Vehicle

- 02-4180 N Medical First-Aid at the Accident Site.
- 02-4511 N Emergency Squad Doctor. A Plan for
- 03-3715 S Possibilities for Intensifying First Aid
- 03-3743 S Skull Injuries as seen by the Physician
- 03-3744 S The Outcome of the Cerebrocranial Injury
- 03-4090 S Treatment by Physician of the Severely
- 03-4505 N Ambulance Brings Operating Room to
- 03-4512 N Experiences with the Mobile Unit of the
- 03-4525 N Mobile Operating Room and Emergency
- 03-4531 N An Outline of the Mobile Operating Room,
- 03-4539 S Report on the Clinomobile.

Restraint Systems, Auxiliaries/ Accessories, DMD Vehicle

03-4337 S Road Accidents.

DMDB Seat Belts, Restraint Systems, Auxiliaries/ Accessories, Vehicle

- 12-4105 N Seat-Belt Fractures of the Spine and
- 15-3881 N Injury Produced by Seat Belts.
- 15-3929 N Seat-Belt Hernia.
- 15-4101 N The Seat Belt Syndrome.
- 15-4103 N Intra-Abdominal Injuries Caused by
- 15-4132 N The Automotive Safety Belt.
- 18-4007 S The Seat Belt Syndrome.
- 18-4172 N Protection Offered by Safety Belts.

DMDC Shoulder Harnesses, Restraint Systems, Auxiliaries/ Accessories, Vehicle

- 12-4116 N Fatal Neck Injuries Caused by Use of
- 15-4132 N The Automotive Safety Belt.
- 18-4172 N Protection Offered by Safety Belts.

Age, People EA

- 01-3751 S The Significance of Trauma Records for
- The Toll of the Road. 01-3805 S
- Yale Studies in Ambulatory Medical Care. 01-3818 S
- 11-3938 S Head Injuries in Children.
- 11-4068 S Decisive Factors in the Success of

- 11-4092 S Statistical and Therapeutic Considerations
- 13-3723 S Closed Thoracic Injuries.
- 13-3798 S Thoracic Trauma.
- 13-3936 S Current Treatment of Acute Thoracic
- 14-3719 S Traumatic Rupture of the Aorta with
- 15-3720 S Closed Abdominal Injuries.
- 17-3917 S Fractures of the Shaft of the Femur 17-3921 S Shaft Fractures of the Femur.
- 17-3930 S Orthopedic Problems in Agricultural
- 18-3802 S Pedestrian Deaths in Oslo Traffic
- 18-4009 S Injuries from Road Accidents.
- 22-3727 S A Study of 183 Road Deaths In and Around
- 22-3769 S Factors Influencing Mortality in Head
- 22-3953 S Autopsy Findings in Head Injuries from

Children, People

EC

- 01-3821 S 50,000 Child–Years of Accidental
- 02-3949 S Mouth-To-Mouth Resuscitation in Norway.
- 03-3900 N Flying Squad.
- 11-3747 S Traumatic Cerebral Hemorrhages in
- 11-3938 S Head Injuries in Children.
- 11-4107 S Severe Head Injuries in Children.
- 13-4056 N Thoracic Injuries in Children.
- 15-3750 S Blunt Abdominal Injuries in Childhood.
- 15-3902 N Traumatic Injuries to the Biliary System
- 18-4133 S The Annual Injury of 15,000,000 Children.
 23-3806 S Inhaled Foreign Bodies in Children.
 23-3812 N Foreign Bodies in the Tracheobronchial

- 23-3889 S Airway Foreign Body Fatalities in
- 23-4036 N Unsuspected Foreign Bodies in the Young

EEC Old Aged, Adults, People

- 13-3783 N Nonpenetrating Chest Trauma in Adults.
- 17-3788 S Primary Prothetic Replace in Fresh
- 25-3705 S An Analysis of 950 Fatal Injuries.

Sex, People EF

- 11-4092 S Statistical and Therapeutic Considerations
- 13-3723 S Closed Thoracic Injuries.
- 15-3720 S Closed Abdominal Injuries.
- 17-3917 S Fractures of the Shaft of the Femur
- 18-3802 S Pedestrian Deaths in Oslo Traffic
- 18-4009 S Injuries from Road Accidents.

Pedestrians, People EM

- 01-4008 N Fatal Pedestrian Automotive Accidents.
- 18-3802 S Pedestrian Deaths in Oslo Traffic
- 21-3882 S The Pathology of Pedestrian Automotive 22-3727 S A Study of 183 Road Deaths In and Around 24-3710 S Concealed Hemorrhage Due to Pelvic

Passengers, People EN

01-2592 S Traffic Injury in Brisbane.

Drivers, People EO

01-2592 S Traffic Injury in Brisbane.

- FDE Service Organizations, Corporate Bodies, Society
 - 01-3834 N Present Status of Ambulance Service in

- **IO**
- Hospital, Services (See Also Hospital Care, JRJ) 01-3906 N The Organization of Emergency Medical 01-4095 N Medicine in South Vietnam Today. Part 5. 01-4096 S Accident and Emergency Services in Dublin. 01-4179 N Suggestions for Community Action on 01-4186 S Investigations about the Adequacy of
 - 01-4194 N Pilot Study on Traffic Accidents.
 - 03-3978 S The Mobile Operation Room of the

IQ Ambulance, Services

(See Also Recovery of Injured, JR) (See Also Ambulances, DEHL)

- 01-4024 S Ambulance Services and Traffic Casualties.
- 01-4097 S Emergency Medical Service System-Analysis
- 01-4102 S A Survey of Emergency Ambulance Service.

- 02-4100 N Minimal Equipment for Ambulances. 02-4191 N Standards for Emergency Ambulance Services.

J Accident

- 01-3726 S Injuries in Traffic Accidents.
- 01-3749 S Traffic Accidents as Viewed by the
- 03-3714 S First Aid at Scene of Accident and First
- 31-2631 N Traffic Accidents Medical Bibliography,

Preventive Measures, Accident JA

03-4337 S Road Accidents.

JD Collision, Accident

(With People, Vehicle, Fixed Objects – Use **Components**)

03-4337 S Road Accidents.

JE Single Vehicle, Accident

01-3818 S Yale Studies in Ambulatory Medical Care.

Ejection, Accident Hazards, Accident JKB

- 01-2592 S Traffic Injury in Brisbane.
- 12-4116 N Fatal Neck Injuries Caused by Use of
- 14-3828 S Traumatic Rupture of Aorta.
- 21-4119 S Fatal Traffic Accident in Brisbane from

Fire, Accident Hazards, Accident JKD

- 31-3831 N A Review of the Literature on Burns and 31-3877 N A Review of the Literature on Burns and 31-3910 N A Review of the Literature on Burns and
- Accident-Investigation, Accident JL

03-4337 S Road Accidents.

Accident-Records, Accident-Investigation, JLR Accident

- 01-2592 S Traffic Injury in Brisbane.
- Injury/ Trauma, Accident JN

 - 01-2592 S Traffic Injury in Brisbane. 01-3751 S The Significance of Trauma Records for
 - 01-3851 N Automobile Crash Injuries.

01-4175 S Ambulance Service in Seattle. 01-4179 N Suggestions for Community Action on

JNB

01-3919 N Accident and Emergency Services in Dublin. 01-3925 N The Current Status of Emergency 01-3941 S The Stages of Development and the 01-3956 N The Trauma Patient vs. Emergency Care. 01-3970 N Fundamentals of the Therapy of Trauma. 01-4010 N The Injured Patient and the Specialist. 01-4015 N The Accident Surgery of Motorways. 01-4017 N Traffic Accidents in Canada. 01-4114 S One Year's Experience in the Anesthetic 01-4120 N Medical Aspects of Automotive Crash 01-4190 N Estimating Community Requirements for 01-4194 N Pilot Study on Traffic Accidents. 01-4529 S Changes in Traffic Accident Injuries 02-3849 N Immediate Measures at Site of Accident. 02-3872 N Management of Spinal Injuries with 02-4000 N Road Accidents. Essentials in Treating 02-4023 N The Interest of Organized Medicine in 02-4170 N Disaster First Aid. Part 1. 02-4180 N Medical First-Aid at the Accident Site. 02-4524 N The Physician's Kit for Life-Saving 03-3704 N Proceedings of the Symposium of 03-3993 N First Management of the Injured at the 03-4337 S Road Accidents. 03-4539 S Report on a Clinomobile. 04-4018 N Some Problems Encountered in the Aerial 04-4093 N Helicopters in Civil Medical Evacuations. 04-4177 S Aerial Transport of the Sick and Injured. 11-3742 S Permanent Brain Injuries Following 11-3747 S Traumatic Cerebral Hemorrhages in 11-3784 N The Management of Head Injuries 11-3792 S Causes of Shock with Head Injury. 11-3964 N On First Aid in Very Severe 11-4092 S Statistical and Therapeutic 11-4108 S Associated Injuries in Head Injured 11-4199 N Acute Craniocerebral Trauma. 11-4536 S Clinical Experiences in the Neurosurgical 11-4537 S Findings in 1000 Brain-Injuried Persons 11-4540 S Acute, Subacute, and Chronic Subdural 12-3771 N Emergency Management of Cervical Spine 12-3843 S Impairment of Respiration after Spinal 12-3911 S Automobile Accidents and Laryngeal and 12-4001 S Cervical Spine Cineradiography after 12-4006 S Injuries of the Larynx and Cervical 12-4039 S Survival of Patients with Injuries of 12-4117 S Differential Therapeutic Discussions on 12-4167 N The Early Diagnosis of Cervical Cord 12-4514 S On the Treatment of Spinal Cord Injury. 12-4515 S Life Expectancy, Survival Rates, and 13-3794 S Effect of Chest Trauma upon Respiratory 13-3836 N Traumatic Thoracic Aortic Aneurysms. 13-4056 N Thoracic Injuries in Children. 13-4067 N Thoracic Injuries. 13-4526 S Chest Injuries in Traffic Accidents. 14-3719 S Traumatic Rupture of the Aorta with 14-4122 N Fracture of the Sternum and Injury to 14-4528 S Traumatic Aortic Rupture. 15-3799 S Early Surgical Treatment of Abdominal 15-3865 N The Mechanism of Acute Renal Failure 15-3881 N Injury Produced by Seat Belts. 15-3902 N Traumatic Injuries to the Biliary System 15-4132 N The Automotive Safety Belt. 15-4144 S Pancreatic Trauma.

17-4533 S 17 Femoro Popliteal Arterial Lesions 18-4003 N Research on Accidental Trauma in the 18-4009 S Injuries from Road Accidents.18-4133 S The Annual Injury of 15,000,000 Children. 18-4172 N Protection Offered by Safety Belts. 21-3757 N Death from Pulmonary Embolism (II). 21-3959 S On the Initial Treatment of Acute 21-4115 S The Basic Surgery of Major Road Injuries. 21-4119 S Fatal Traffic Accidents in Brisbane from 22-3737 S Report on 5900 Craniocerebral Traumas. 22-3739 S Limits of Resuscitation in Serious Brain 22-3931 N The Incidence and Mechanisms of Shock 22-3974 S Importance and Features of First Aid In 22-4143 S The Etiology of Acute Brain Swelling 23-3894 N The Management of the Airway and Ventilation 23-4046 N Combined Renal and Respiratory Failure 24-3770 N Massive Liver Injury and Shock. 24-4020 S Extent and Time of Blood-Loss after 24-4111 N Metabolic Responses to Injury. 25-3705 S An Analysis of 950 Fatal Injuries. 25-4062 N Heart Damage in Fat Embolism. 25-4534 S Cause of Death in Traumatized Patients. 31-3831 N A Review of the Literature on Burns and

31-3877 N A Review of the Literature on Burns and

31-3910 N A Review of the Literature on Burns and

Fatal, Injury/ Trauma, Accident

01-4008 N Fatal Pedestrian Automotive Accidents.

01-3918 S Traffic Deaths.

01-4012 S Fatal Traffic Accidents in Adelaide. 01-4016 S Epidemiology of Traffic Casualties in 01-4024 S Ambulance Services and Traffic Casualties. 01-4120 S Medical Aspects of Automotive Crash Injury 01-4194 N Pilot Study on Traffic Accidents. 02-3995 S On Time Relations Between the Accidents 02-4041 N Fatal Hemorrhage during Tracheotomy. 02-4185 S Organization and Scope of Highway First 11-4092 S Statistical and Therapeutic Considerations 12-4116 N Fatal Neck Injuries Caused by Use of 14-3828 S Traumatic Rupture of Aorta. 14-3846 S Gunshot Wounds of the Heart. 18-3802 S Pedestrian Deaths in Oslo Traffic 18-3835 N Agricultural Tractor Accidents. The Causes of Post Operative Deaths. 18-4061 S 18-4133 S The Annual Injury of 15,000,000 Children. 21-3882 S The Pathology of Pedestrian Automotive 21-4119 S Fatal Traffic Accidents in Brisbane from 21-4164 S Fatal Pulmonary Embolism. 21-4504 S Died in Hospital. 22-4521 S Mortality in Head Injuries. 23-3767 S Deaths Causes in Recent Thoracic 23-3976 S The Fatal Traffic Accident from the 24-3710 S Concealed Hemorrhage due to Pelvic 24-4014 S Patterns of Thoracic Injuries in Fatal 24-4195 S A Survey of Evacuation, Resuscitation, 25-3721 S Fat Embolism in Fatal Automobile Accidents.

JNE Contusion/ Crushing/ Blunt, Injury/ Trauma, Accident

11-3752 N The Secondary Morphological Brain Changes

11-3880 S The Long–Term Prognosis of Severe Head

SUBJECT INDEX

11-3938 S Head Injuries in Children. 11-3960 S Late Posttraumatic Headache. 11-3963 S Craniocerebral Trauma. 11-4063 S The Evaluation and Therapy of Skull 11-4068 S Decisive Factors in the Success of 11-4151 N Continuous Recording of the Ventricular-11-4166 S On the Differential Diagnosis of Permanent 12-3839 N Immediate Management of Laryngeal and 12-4150 N Blunt Trauma to the Larynx and Upper 13-3723 S Closed Thoracic Injuries. 13-3783 N Nonpenetrating Chest Trauma in Adults. 13-3798 S Thoracic Trauma. 13-3841 S Classification of Chest Injuries as an 13-3864 S Crushed Chest Injury. 13-3907 S Traumatic Hemothorax. 13-3909 N A Regimen for the Early Care of the 13-3936 S Current Treatment of Acute Thoracic 13-3999 N Closed Traumatic Rupture of the Diaphragm. 13-4045 S Chest Trauma with Pneumothorax and 13-4072 S Analysis of Factors Affecting Survival 13-4081 S Apropos of 268 Closed Chest Injuries. 13-4091 N Late Rupture of the Esophagus after Blunt 13-4129 N Mechanisms of Pulmonary Trauma. 13-4130 N Rupture of the Right Hemidiaphragm due to 13-4161 S Severe Non-Penetrating Injuries to the 13-4163 S Twenty-One Years of Thoracic Injuries. 13-4182 N Contribution to Traumatic Rupture of the 13-4518 S Thoracic Injuries due to Blunt Trauma. 13-4520 S Traumatic Nonpenetrating Lung Contusion. 14-3892 N Nonpentrating Traumatic Rupture of the 14-3942 N Deceleration Injuries of Heart and Lung. 14-4029 S Penetrating Wounds of the Aorta. 14-4032 S A Report of Fifteen Patients with Traumatic 14-4033 S Traumatic Rupture of the Aorta. 14-4040 S Cardiac Wounds. 14-4048 N Acute Traumatic Rupture of the Thoracic 14-4059 S Aortic Rupture in Blunt Thoracic Traumas. 14-4527 S Traumatic Aortic Rupture in Traffic 14-4528 S Traumatic Aortic Rupture. 15-3709 S A Five-Year Survey of 152 Acute Abdominal 15-3720 S Closed Abdominal İnjuries. 15-3750 S Blunt Abdominal Injuries in Childhood. 15-3823 N Traumatic Rupture of the Spleen. 15-3827 N Delayed Rupture of the Spleen. 15-3842 S Injuries of the Kidney. 15-3860 N Complete Division of the Common Bile Duct 15-3866 S Nonpenetrating Injuries of Abdomen Causing 15-3899 N A Pattern of Severe Blunt Trauma to the 15-3908 S Injury of the Superior Mesenteric Vessels 15-3915 S Blunt Adbominal Trauma. 15-3929 N Seat-Belt Hernia. 15-3967 S Special Features of Blunt Abdominal Trauma. 15-3991 S Blunt Abdominal Trauma. 15-4022 S Civilian Penetrating Wounds of the Abdomen. 15-4028 S Surgical Considerations of Non-Penetrating 15-4044 S Lesions of the Spleen in Closed and Open 15-4047 S Closed Abdominal Injuries. 15-4051 S Lesions Associated with Closed Liver 15-4052 N Management of Blunt Abdominal Trauma. 15-4054 S Blunt Abdominal Trauma. 15-4082 S Nonpenetrating Wounds of the Abdomen. 15-4101 N The Seat Belt Syndrome.

15-4103 N Intra-Abdominal Injuries Caused by

15-4106 S Unrecognized Abdominal Trauma in Patients

- 15-4126 S Injuries of the Liver.
- The Surgical Management of Pancreatic 15-4131 S

15-4147 S Incidence, Aetiology, Diagnosis, and

- 15-4196 S Abdominal Trauma.
- 15-4198 S Delayed Splenic Rupture.
- Closed Injury of the Liver. 15-4506 S
- 15-4542 S Nonpenetrating Abdominal Injury.
- 17-3707 S Arterial Complications of Closed Injuries
- 17-3863 N Closed Traumatic Rupture of Common
- 18-3835 N Agricultural Tractor Accidents.
- 18-4058 N Emergency Management of Thoracoabdominal
- 22-3765 S Statistical Data on 400 Cases of Grave
- 22-4143 S The Etiology of Acute Brain Swelling
- 22-4517 S Autopsy Findings in Head Injuries from

Concussion, Injury/ Trauma, Accident JNF

- 02-3740 S Clinical and Morphological Findings in
- 03-3744 S The Outcome of the Cerebrocranial Injury
- 11-3738 S Special Circulatory Reactions in the
- 11-3880 S The Long-Term Prognosis of Severe Head
- 11-3922 S Analysis of 1,400 Cases of Acute Injury
- 11-3923 N Intracerebral Vascular Lesions Following
- 11-3932 S Disability Arising from Closed Head Injury.
- 11-3933 S Head Injuries in a Peripheral Hospital.
- 11-3938 S Head Injuries in Children.
- 11-3960 S Late Posttraumatic Headache. 11-4063 S The Evaluation and Therapy of Skull
- 11-4086 S Brain Concussion.
- 11-4089 S Rehabilitation of Craniocerebral Injuries.
- 11-4166 S On the Differential Diagnosis of Permanent
- 11-4536 S Clinical Experiences in the Neurosurgical
- 22-3765 S Statistical Data on 400 Cases of Grave
- 22-3939 S Extradural Hematoma.
- 22-4500 S Factors in the Mortality of Closed Head

JNG Laceration/ Openwound/ Penetrating, Injury/ Trauma, Accident

- 11-4042 S The Repair of Dural Defects by Graft.
- 11-4063 S The Evaluation and Therapy of Skull
- 12-3702 S Arterial Injuries of the Base of the Neck.
- 12-3839 N Immediate Management of Laryngeal and
- 12-4159 N Bullet Transection of Both Common Carotid
- 13-3753 N Contribution to Traumatic Bronchial Ruptures.
- 13-3798 S Thoracic Trauma.
- 13-3895 N Traumatic Closed Rupture of the Diaphragm.
- 13-3907 S Traumatic Hemothorax.
- 13-3912 S Treatment of Penetrating Wounds of the Chest.
- 13-4045 S Chest Trauma with Pneumothorax and
- 13-4072 S Analysis of Factors Affecting Survival
- 13-4077 N Injuries of the Thoracic Esophagus.
- 13-4125 S Experience with 472 Civilian Penetrating Wounds
- Penetrating Injuries to the Chest. 13-4160 S
- 14-3717 S
- Penetrating Cardiac Injuries. Ten Years' Experience with Penetrating 14-3776 S
- 14-3829 S Penetrating Wounds of the Pericardium or Its
- 14-3830 S Penetrating Wounds of the Heart.
- 14-3846 S Gunshot Wounds of the Heart.
- 14-3861 N Successful Surgical Management of
- 14-3876 N Stab Wound of the Heart with Tamponade and
- 14-4040 S Cardiac Wounds.
- 14-4083 S Penetrating Wounds of the Heart and
- 14-4157 S Further Observations of Penetrating Wounds
- 14-4158 S Gunshot Wounds of the Heart.
- 14-4509 S Missiles in the Heart.
- 14-4522 S The Management of Wounds of the Heart.
- 15-3709 S A Five-Year Survey of 152 Acute Abdominal
- 15-3797 S Management of Shotgun Injuries.
- 15-3819 S Pancreatic Trauma.
- 15-3825 S Stab Wounds of the Abdomen.
- 15-3842 S Injuries of the Kidney.
- 15-3867 N X-Ray Diagnosis of Penetrating Wounds of
- 15-3891 S Surgical Experience with 103 Truncal Shotgun
- 15-3914 S Perforating Injury of the Small Intestine.
- 15-4005 S Analysis of 500 Stab Wounds of the Abdomen.
- 15-4044 S Lesions of the Spleen in Closed and Open
- 15-4073 S Penetrating Renal Injuries.
- 15-4126 S Injuries of the Liver.
- 15-4131 S The Surgical Management of Pancreatic Injuries.
- 15-4146 S Penetrating Wounds of the Abdomen.
- 15-4196 S Abdominal Trauma.
- 16-4064 S Pelvic Fractures.
- 17-4071 S Arterial Injuries in Civilian Practice.
- 18-4058 N Emergency Management of Thoracoabdominal
- 21-4115 S The Basic Surgery of Major Road Injuries.
- 22-3953 S Autopsy Findings of Head Injuries from
- 24-4043 N Penetrating Injuries of the Subclavian Vessels
- Fracture, Injury/ Trauma, Accident **JNH**
 - 01-3928 N The Removal of Injured Personnel from
 - 02-3777 N First Aid Treatment, Diagnosis and
 - 02-3887 N Training in Cardiopulmonary Resuscitation.
 - 03-3744 S The Outcome of the Cerebrocranial Injury
 - 11-3738 S Special Circulatory Reactions in the Acute
 - 11-3793 N Early Versus Late Treatment of Facial Fractures.
 - 11-3880 S The Long–Term Prognosis of Severe Head Injury.
 - 11-3884 S Treatment of the Patient with Acute Head Injury.
 - 11-3922 S Analysis of 1,400 Cases of Acute Injury to the
 - 11-3938 S Head Injuries in Children.
 - 11-3963 S Craniocerebral Trauma.
 - 11-4092 S Statistical and Therapeutic Considerations
 - 11-4104 S The Management of Skeletal Fractures in the
 - 11-4536 S Clinical Experiences in the Neurosurgical Clinic
 - 12-4105 N Seat-Belt Fractures of the Spine and
 - 13-3841 S Classification of Chest Injuries as an Aid to
 - 13-3864 S Crushed Chest Injury.
 - 13-3909 N A Regimen for the Early Care of the Patient
 - 13-4163 S Twenty–One Years of Thoracic Injuries.
 - 15-3915 S Blunt Abdominal Trauma.
 - 16-3789 S Central Acetabular Fractures.
 - 16-3790 S Complications Associated with Fractures of
 - 16-4034 N Fractures of the Pelvis.
 - 16-4064 S Pelvic Fractures.
 - 16-4075 N Pelvic Injuries and Urinary Tract Complications.
 - 16-4085 S Complicated Pelvic Fractures.
 - 16-4149 S Major Abdominal Injuries Associated with
 - 17-3780 N Some Complications of Upper Limb Injuries.
 - 17-3788 S Primary Prothetic Replacement in Fresh
 - 17-3901 N Management of Fracture with Vascular Injury.
 - 17-3917 S Fractures of the Shaft of the Femur Resulting
 - 17-3921 S Shaft Fractures of the Femur.
 - 17-3930 S Orthopedic Problems in Agricultural Trauma.
 - 17-3937 S Conservative Treatment of Ankle Fractures.
 - 17-3944 S Deep Venous Thrombosis Following Fractures
 - 17-3965 S Over-All Statistical Study of 216 Cases of
 - 17-4013 N Thromboembolic Complications of Orthopedics

- 17-4037 S Analytical Study of 122 Diaphysial Leg The Basic Surgery of Major Road Injuries. Autopsy Findings of 127 Patients Following 21-4115 S 22-3728 S Report on 5900 Craniocerebral Traumas. 22-3737 S 22-3939 S Extradural Hematoma. 23-3883 N Emergency Management of Facial Fractures 23-4128 S Flail Chest. 24-3710 S Concealed Hemorrhage Due to Pelvic Fracture. 24-4050 S Massive Hemorrhage from Pelvic Fractures. On Serial Rib Fractures Caused by Traffic 24-4513 S 25-3703 S The Clinical Significance of Traumatic Fat An Analysis of 950 Fatal Injuries. 25-3705 S 25-3721 S Fat Embolism in Fatal Automobile Accidents. 25-3722 S Fat Embolism Studied in 100 Patients Dying
- 25-3724 S Mortality Related to Various Methods of
- 25-3775 N Acute Peptic Ulceration and Cerebral Fat
- 25-3946 S Fat Embolism.

17-4027 S Multiple Injuries.

25-4534 S Cause of Death in Traumatized Patients.

JNK Hemorrhage, Injury/ Trauma, Accident

- 01-3805 S The Toll of the Road.
- 02-4041 N Fatal Hemorrhage During Tracheotomy.
- 02-4185 S Organization and Scope of Highway First Aid.
- Special Circulatory Reactions in the Acute 11-3738 S
- 11-3741 S Pulmonary and Enteral Complications after
- 11-3746 S The Acute, Subacute and Chronic Subdural
- 11-3747 S Traumatic Cerebral Hemorrhages in Childhood.
- 11-3922 S Analysis of 1,400 Cases of Acute Injury to
- 11-3938 S Head Injuries in Children.
- 11-3966 S Diagnosis and Treatment of Epidural
- 11-4068 S Decisive Factors in the Success of Treatment
- 11-4124 S Extradural Haematoma.
- 11-4536 S Clinical Experiences in the Neurosurgical
- Acute, Subacute, and Chronic Subdural 11-4540 S
- 13-3907 S Traumatic Hemothorax.
- Treatment of Penetrating Wounds of the Chest. 13-3912 S
- 14-3719 S Traumatic Rupture of the Aorta with Special
- 14-3725 S Surgical Correction of Injuries of the Vena
- 14-3776 S Ten Years' Experience with Penetrating Injuries
- 14-3830 S Penetrating Wounds of the Heart.
- 15-3701 S Surgical Management of Splenic Injuries.
- 15-3706 S Management of Liver Trauma in 259 Consecutive
- 15-3720 S Closed Abdominal Injuries.
- 15-3772 S Report on 41 Cases of Rupture of the Spleen.
- Injuries of the Liver in 300 Consecutive 15-3801 S
- 15-3827 N Delayed Rupture of the Spleen.

Extradural Hematoma.

22-3947 S Severe Craniocerebral Trauma and

22-4500 S Factors in the Mortality of Closed Head

- 15-3899 N A Pattern of Severe Blunt Trauma to the
- 15-3991 S Blunt Abdominal Trauma.

22-4098 S Acute Cranial Trauma.

22-3931 N

22-3939 S

15-4028 S Surgical Considerations of the Non–Penetrating 15-4052 N Management of Blunt Abdominal Trauma.

The Incidence and Mechanisms of Shock in

16-3790 S Complications Associated with Fractures of

17-3708 S The Management of Civilian Arterial Injuries.

22-3710 S Concealed Hemorrhage due to Pelvic Fracture. 24-3713 S An Analysis of 827 Cases of Fatal Accidents.

24-3898 N Controlled Hypotension in the Management of

24-3903 S Metabolic Changes Associated with Hemorrhagic

135

24-3735 N About the Indication of Intra-Venous and

- 24-3935 S Survival Time in Different Types of Shock
- 24-3940 S The Effect of Hyperbaric Oxygenation (OHP)
- 24-3952 N Blood Loss in Trauma.
- 24-4020 S Extent and Time of Blood-Loss after Civilian
- 24-4050 S Massive Hemorrhage from Pelvic Fractures.

JNN Asphyxia/ Suffocation, Injury/ Trauma, Accident

- 01-3805 S The Toll of the Road.
- 02-3949 S Mouth-To-Mouth Resuscitation in Norway.
- 02-4019 N Early Medical Treatment in Cases of
- 03-3993 N First Management of the Injured at the
- 23-3889 S Airway Foreign Body Fatalities in Children.
- 23-4123 S Air Way Foreign Bodies.

JNP

JNO Dismemberment/ Decapitation, Injury/ Trauma, Accident

12-4116 N Fatal Neck Injuries Caused by Use of

Consequences/ Complications, Injury/ Trauma, Accident 02-3740 S Clinical and Morphological Findings in 02-3858 S Results of Cardiac Resuscitation in 254 02-4030 N Tracheostomy. An Underrated Surgical 04-3984 S Tasks of the Physician in the Transportation 04-4137 S Effects of Flying on Patients with 11-3742 S Permanent Brain Injuries Following Traffic 11-3752 N The Secondary Morphological Brain Changes 11-3854 S Rehabilitation after Head Injury. 11-3880 S The Long-Term Prognosis of Severe Head 11-3932 S Disability Arising From Closed Head Injury. 11-3933 S Head Injuries in a Peripheral Hospital. 11-3960 S Late Posttraumatic Headache. 11-3966 S Diagnosis and Treatment of Epidural 11-4042 S The Repair of Dural Defects by Graft. 11-4068 S Decisive Factors in the Success of 11-4162 N The Late Prognosis in Severe Head Injuries. 11-4166 S On the Differential Diagnosis of Permanent 11-4536 S Clinical Experiences in the Neurosurgical 12-4039 S Survival of Patients with Injuries of 12-4515 S Life Expectancy, Survival Rates, and 13-4067 N Thoracic Injuries. 13-4081 S Apropos of 268 Closed Chest Injuries. 13-4087 S Late Sequelae of Severe Chest Injuries. 13-4091 N Late Rupture of the Esophagus after 13-4125 S Experience with 472 Civilian Penetrating 14-3876 N Stab Wound of the Heart with Tamponade 14-4029 S Penetrating Wounds of the Aorta. 14-4522 S The Management of Wounds of the Heart. 15-3706 S Management of Liver Trauma in 259 15-3801 S Injuries of the Liver in 300 Consecutive 15-3879 S Liver Injuries in Northern Ireland. 15-3967 S Special Features of Blunt Abdominal Trauma. 15-4073 S Penetrating Renal Injuries. 15-4084 S The Surgical Management of 640 Consecutive 15-4101 N The Seat Belt Syndrome. 15-4103 N Intra-Abdominal Injuries Caused by 15-4131 S The Surgical Management of Pancreatic 16-3790 S Complications Associated with Fractures of 16-4034 N Fractures of the Pelvis. 16-4075 N Pelvic Injuries and Urinary Tract

16-4085 S Complicated Pelvic Fractures.

- 16-4149 S Major Abdominal Injuries Associated
- 17-3708 S The Management of Civilian Arterial
- 17-3780 N Some Complications of Upper Limb Injuries.
- 17-3788 S Primary Prothetic Replacement in Fresh
- 17-3921 S Shaft Fractures of the Femur.
- 17-3930 S Orthopedic Problems in Agricultural
- 17-3965 S Over-All Statistical Study of 216 Cases of
- 17-4013 N Thromboembolic Complications of Orthopedics
- 17-4037 S Analytical Study of 122 Diaphysial Leg
- 17-4197 S Arterial Repair During the Korean War.
- 18-4061 S The Causes of Post Operative Deaths.
- 21-3959 S On the Initial Treatment of Acute Traumatic
- 22-3947 S Severe Craniocerebral Trauma and
- 22-3953 S Autopsy Findings in Head Injuries
- 22-4500 S Factors in the Mortality of Closed Head
- 22-4521 S Mortality in Head Injuries.
- 23-4123 S Air Way Foreign Bodies.
- 23-4128 S Flail Chest.
- 24-3832 S Central Venous Pressure Monitoring.
- 24-3968 N Traumatic Shock.
- 24-4043 N Penetrating Injuries of the Subclavian
- 24-4057 N Acute Renal Failure Following Extensive
- 24-4513 S On Serial Rib Fractures Caused by Traffic
- 25-4094 N Fat Embolism.
- 25-4534 S Cause of Death in Traumatized Patients.

JNPH Pneumonia, Consequences, Injury/ Trauma, Accident

- 02-3764 N Findings in Temporary Resuscitation
- 25-4534 S Cause of Death in Traumatized Patients.

JNPI Fat Embolism, Consequences, Injury/ Trauma, Accident

- 03-3704 N Proceedings of the Symposium of 21-3757 N Death from Pulmonary Embolism (II). 21-3758 S Early Electrocardiographic Observations 24-3713 S An Analysis of 827 Cases of Fatal 24-3755 N Traumatic and Postoperative Shock. 24-3958 N Concept of Shock in the Past and Today. 24-4513 S On Serial Rib Fractures Caused by Traffic 25-3703 S The Clinical Significance of Traumatic Fat 25-3721 S Fat Embolism in Fatal Automobile Accidents. 25-3722 S Fat Embolism Studied in 100 Patients 25-3724 S Mortality Related to Various Methods 25-3730 N Diagnosis and Treatment of Fat Embolism. 25-3756 N On the Treatment of Fat Embolism. 25-3759 N Experiences with the Preparation 25-3773 S Fat Embolism. 25-3775 N Acute Peptic Ulceration and Cerebral Fat 25-3786 S The Effect of Sublingual Potassium 25-3787 S Hemorrhagic Shock and Fat Embolism. 25-3791 S Experimental Arterial Fat Embolism. 25-3927 N Traumatic Pulmonary Fat Embolism. 25-3946 S Fat Embolism. 25-3971 S On Pulmonary Fat Embolism After Injuries 25-4025 N Studies on the Genesis of Posttraumatic 25-4049 N Treatment of Fat Embolism Complicating 25-4062 N Heart Damage in Fat Embolism. 25-4094 N Fat Embolism. 25-4153 N A Study of the Pathogenesis of Fat Embolism 25-4168 S Studies on the Frequency of Cerebral Fat
- 25-4534 S Cause of Death in Traumatized Patients.

JNPJ Aspiration/ Dehydration, Consequences, Injury/ Trauma, Accident

- 02-3748 S Possibilities and Limitations of Medical
- 02-4185 S Organization and Scope of Highway First
- 18-3802 S Pedestrian Deaths in Oslo Traffic
- 23-3729 S Traffic Accidents and Aspiration Death.
- 23-3754 S First Treatment of the Complications
- 23-3763 S The Significance of Aspiration of Blood23-3768 S The Aspiration in Victims of Traffic23-3806 S Inhaled Foreign Bodies in Children.
- 23-3812 N Foreign Bodies in the Tracheobronchial

JNPK Blood Loss/ Bleeding, Consequences, Injury/ Trauma, Accident

02-3814 N Early Management of the Critically Injured.

02-3850 N Methods of Assessment of Blood Loss in

14-3829 S Penetrating Wounds of the Pericardium or

Shock, Consequences, Injury/ Trauma, Acci-**JNPL** dent

02-3748 S Possibilities and Limitations of Medical 02-3814 N Early Management of the Critically Injured. 02-3850 N Methods of Assessment of Blood Loss in 02-4185 S Organization and Scope of Highway First Aid. 11-3792 S Causes of Shock with Head Injury. 11-3964 N On First Aid in Very Severe Craniocerebral 14-3725 S Surgical Correction of Injuries of the Vena 15-3750 S Blunt Abdominal Injuries in Childhood. 15-3823 N Traumatic Rupture of the Spleen. 15-4035 N Abdominal Injuries. 15-4106 S Unrecognized Abdominal Trauma in Patients 15-4196 S Abdominal Trauma. 21-4115 S The Basic Surgery of Major Road Injuries. 21-4134 S The Incidence of Morbid-Anatomical 22-3931 N The Incidence and Mechanisms of Shock 23-4128 S Flail Chest. 24-3735 N About the Indication of Intra-Venous and 24-3755 N Traumatic and Postoperative Shock. 24-3770 N Massive Liver Injury and Shock. 24-3796 S The Effect of Digitalization in Irreversible 24-3804 S Acute Pharmacodynamic Effects of 24-3809 N Experience with a Digital Computer for 24-3810 N Efficient Monitoring with a Digital 24-3822 N Fluid Repletion in Circulatory Shock.24-3832 S Central Venous Pressure Monitoring. 24-3838 S Rational Approach to Management of 24-3844 S The Mechanism of Shock Following Suicidal 24-3890 N Treatment of Traumatic Shock. 24-3896 S The Management of Experimental Endotoxin 24-3897 S The Nature of Irreversible Shock. 24-3903 S Metabolic Changes Associated with 24-3934 N Oxygen Deficit and Irreversible Hemorrhagic 24-3935 S Survival Time in Different Types of Shock 24-3940 S The Effect of Hyperbaric Oxygenation (OHP) 24-3954 N Hemorrhagic Shock and the Nervous System. 24-3958 N Concept of Shock in the Past and Today. 24-3968 N Traumatic Shock. 24-4111 N Metabolic Responses to Injury. 24-4112 N Metabolic Responses to Injury. 24-4156 S A Clinical Study of Shock Occurring 24-4510 S Circulatory Effects of Angiotensin,

24-4516 N Shock and Pulmonary Embolism.

25-3787 S Hemorrhagic Shock and Fat Embolism.

31-3831 N A Review of the Literature on Burns

JNPM Anoxia/ Hypoxia, Consequences, Injury/ Trauma, Accident

- 02-3764 N Findings in Temporary Resuscitation
- 11-3792 S Causes of Shock with Head Injury.
- 11-3964 N On First Aid in Very Severe Carniocerebral
- 22-3739 S Limits of Resuscitation in Serious Brain
- 22-3931 N The Incidence and Mechanisms of Shock in
- 24-3934 N Oxygen Deficit and Irreversible Hemorrhagic

JNPO Occlusion/ Thrombosis/ Clot, Consequences/ Complications, Injury/ Trauma, Accident

- 17-3944 S Deep Venous Thrombosis Following Fractures
- 17-4013 N Thromboembolic Complications of Orthopedics
- 21-4053 N Pulmonary Embolism.
- 21-4164 S Fatal Pulmonary Embolism.
- 21-4169 S A Study of Pulmonary Embolism.
- 21-4519 S A Vena Cava Filter for the Prevention of
- 24-4516 N Shock and Pulmonary Embolism.

JNW Whiplash, Injury/ Trauma, Accident

12-4001 S Cervical Spine Cineradiography After

12-4538 N The Neurological Syndromes in Injuries

JNX Multiple Severe Injuries, Injury/ Trauma, Accident

- 01-3751 S The Significance of Trauma Records for
- 01-3906 N The Organization of Emergency Medical
- 01-3955 N Emergency Care of Critically Injured.
- 01-4008 N Fatal Pedestrian Automotive Accidents.
- 02-3916 N All-Purpose Stretcher Reduces Transfers
- 02-4127 N The Management of Multiple Injury Patients.
- 02-4152 N Resuscitation after Multiple Injuries.
- 03-4090 S Treatment by Physician of the Severely
- 03-4525 N Mobile Operating Room and Emergency
- 03-4531 N An Outline of the Mobile Operating Room,
- 04-3977 N Transport by Helicopter of Severely
- 11-3784 N The Management of Head Injuries
- 11-3792 S Causes of Shock with Head Injury.
- 11-4002 S The Comatose Injured Patient.
- 11-4092 S Statistical and Therapeutic Considerations
- 11-4108 S Associated Injuries in Head Injured
- 11-4502 S Acute Head Injury.
- 13-3723 S Closed Thoracic Injuries.
- 13-3841 S Classification of Chest Injuries as an
- 13-3936 S Current Treatment of Acute Thoracic
- 13-4045 S Chest Trauma with Pneumothorax and
- 13-4087 S Late Sequelae of Severe Chest Injuries.
- 14-3717 S Penetrating Cardiac Injuries.
- 14-3725 S Surgical Correction of Injuries of the
- 15-3701 S Surgical Management of Splenic Injuries.
- 15-3799 S Early Surgical Treatment of Abdominal
- 15-3801 S Injuries of the Liver of 300 Consecutive
- 15-3891 S Surgical Experience with 103 Truncal
- 15-3915 S Blunt Abdominal Trauma.
- 15-4022 S Civilian Penetrating Wounds of the Abdomen.
- 15-4035 N Abdominal Injuries.
- 15-4084 S The Surgical Management of 640 Consecutive
- 17-4027 S Multiple Injuries.
 - 18-3802 S Pedestrian Deaths in Oslo Traffic

- 22-3727 S A Study of 183 Road Deaths In and Around
- 22-3765 S Statistical Data on 400 Cases of Grave
- 22-3769 S Factors Influencing Mortality in Head
- 22-4500 S Factors in the Mortality of Closed Head
- 22-4503 N Care of the Severely Injured Patient.
- 23-3976 S The Fatal Traffic Accident from the
- 24-3713 S An Analysis of 827 Cases of Fatal Accidents.
- 24-3952 N Blood Loss in Trauma.
- 24-4057 N Acute Renal Failure Following Extensive
- 25-3705 S An Analysis of 950 Fatal Injuries.

JR Recovery of Injured, Accident

- 01-3816 N The Organization of an Efficient Accident
- 01-3818 S Yale Studies in Ambulatory Medical Care.
- 01-3824 S Utilization of Ambulance Services in a
- 01-3848 N The Louisville Plan for Care of the Injured.
- 01-3886 N Provincial Wide Ambulance Service for
- 01-3919 N Accident and Emergency Services in Dublin.
- 01-3925 N The Current Status of Emergency
- 01-3926 N Ambulance Service Transportation or
- 01-4190 N Estimating Community Requirements for the
- 02-3762 N Urgency of Accident Injury Care.
- 02-3845 N Cardiopulmonary Resuscitation.
- 02-3856 N Ten Musts of a Skilled and Ready Ambulance
- 02-4188 N Vehicle Accidents. Immediate Care to
- **JRF** Extraction of Occupant, Recovery of Injured, Accident

01-3928 N The Removal of Injured Personnel from

JRG Treatment/ Care, Recovery of Injured, Accident (See Also Medical Methods, WS)

- 03-3714 S First Aid at Scene of Accident and First
- 03-4337 S Road Accidents.
- 13-3712 S Treatment of Flail Chest Injuries with

JRGF First Aid (Red Cross), Treatment/ Care, Recovery of Injured, Accident

01-4535 N Community-Wide Emergency Medical Services.

JRGI Professional/ Physician, Treatment/ Care, Recovery of Injured, Accident 01-3919 N Accident and Emergency Services in Dublin. 01-4179 N Suggestions for Community Action on 01-4190 N Estimating Community Requirements for 01-4193 N The Bloody Lanes. 02-3700 N Surgical Problems of Traffic Accidents 02-3748 N Possibilities and Limitations of Medical 02-3814 N Early Management of the Critically 02-4019 N Early Medical Treatment in Cases of 02-4023 N The Interest of Organized Medicine in

- 02-4180 N Medical First-Aid at the Accident Site.
- 02-4511 N Emergency Squad Doctor. A Plan for Handling
- 02-4523 N Contribution to the Therapy of Shock on 02-4524 N The Physician's Kit for Life-Saving
- 02-4530 N Tracheal Intubation in First and Emergency
- 03-3744 S The Outcome of the Cerebrocranial Injury
- 03-3815 N Organization and Function of an Accident
- 03-3900 N Flying Squad.

- 03-3961 S Experience about Medical Aid at the Scene 03-3962 N First Treatment at the Scene of an Accident. 03-3979 S Anesthesia and Intubation at the Site of 03-3980 S Medical Aid on the Site of Accident. 03-3981 S Medical First Aid at the Site of an Accident 03-3982 S First Aid at the Accident Site with 03-3983 S Experiences with the Cologne Emergency 03-3993 N First Management of the Injured at the 03-4090 S Treatment by Physician of the Severely 03-4505 N Ambulance Brings Operating Room to 03-4512 N Experiences with the Mobile Unit of the 03-4525 N Mobile Operating Room and Emergency 03-4531 N An Outline of the Mobile Operating Room, 03-4539 S Report on a Clinomobile. 04-3977 N Transport by Helicopter of Severely 04-3984 S Tasks of the Physician in the Transportation 04-4021 N Medical Criteria for Passenger Flying. 04-4110 N A Civilian Aeromedical Lifesaving Plan, 04-4173 N The Use of the Helicopter as a Means of
- 04-4174 N Canadian Air Ambulance Service Answers
- 15-3706 S Management of Liver Trauma in 259 Consecutive
- 23-3754 S First Treatment of the Complications of
- 25-3730 N Diagnosis and Treatment of Fat Embolism.

JRH Transportation, Recovery of Injured, Accident

(See Also Special Purpose Vehicles, DEH)

- 01-3851 N Automobile Crash Injuries.
- 01-4095 N Medicine in South Vietnam Today. Part 5.
- 01-4096 S Accident and Emergency Services in Dublin.
- 01-4190 N Estimating Community Requirements for the
- 01-4535 N Community-Wide Emergency Medical Services.
- 02-3916 N All-Purpose Stretcher Reduces Transfers of
- 03-3993 N First Management of the Injured at the
- 04-4018 N Some Problems Encountered in the Aerial
- 04-4093 N Helicopters in Civil Medical Evacuations.
- 04-4135 N Medical Criteria for Passenger Flying on
- 04-4136 N The Patient in Commercial Jet Aircraft.
- 04-4139 N Aerial Medical Evacuation with Special
- 04-4140 N The Transport of Patients with Respiratory
- 04-4141 N Assisted Respiration in Air Evacuation.
- 04-4174 N Canadian Air Ambulance Service Answers
- 04-4177 S Aerial Transport of the Sick and Injured.
- 04-4178 N Patrolling the Roads with Aircraft.
- 24-4195 S A Survey of Evacuation, Resuscitation, and

JRID Dead on Arrival, Hospital Admission, Recovery of Injured, Accident

02-3748 S Possibilities and Limitations of Medical

JRJ Hospital Care, Recovery of Injured, Accident

- 01-3853 N Emergency Medical Services in the Small
- 01-4535 N Community-Wide Emergency Medical Services.

JRJE Emergency Room, Hospital Care, Recovery of Injured, Accident

- 01-3851 N Automobile Crash Injuries.
- 01-3862 S An Analysis on 2,418 Emergency Room
- 01-3906 N The Organization of Emergency Medical
- 01-3925 N The Current Status of Emergency

- 01-3941 S The Stages of Development and the
- 01-3948 S Analysis of Admissions to a Casualty Ward.
- 01-3955 N Emergency Care of Critically Injured.
- 01-3956 N The Trauma Patient vs. Emergency Care.

KBE Mountains, Terrain/ Habitat, Space

01-3857 S Control of Accidents in Rural Areas.

Rural, Terrain/ Habitat, Space **KBK**

- 01-3824 S Utilization of Ambulance Services in a
- 01-3857 S Control of Accidents in Rural Areas.
- 01-3918 S Traffic Deaths.
- 03-3715 S Possibilities for Intensifying First Aid
- 18-3835 N Agricultural Tractor Accidents.

KBM Urban/ Town/ City, Terrain/ Habitat, Space

01-3857 S Control of Accidents in Rural Areas.

- 01-3918 S Traffic Deaths.
- 03-3715 S Possibilities for Intensifying First Aid

03-3981 S Medical First Aid at the Site of an

School/ Hospital, Zone/ Land Usage, Space KLC

- 01-3816 N The Organization of an Efficient Accident
- 01-3919 N Accident and Emergency Services in Dublin.
- 01-3941 S The Stages of Development and the
- 01-3955 N Emergency Care of Critically Injured.
- 01-3956 N The Trauma Patient vs. Emergency Care.
- 02-3873 N The Role of a University Hospital in

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(See Also Frequency/ Time, NKF)

- 01-3751 S The Significance of Trauma Records for
- 01-3805 S The Toll of the Road.
- 01-3848 N The Louisville Plan for Care of the Injured.
- 01-3918 S Traffic Deaths.

Time

- 01-3948 S Analysis of Admissions to a Casualty Ward.
- 01-4012 S Fatal Traffic Accidents in Adelaide.
- 01-4024 S Ambulance Services and Traffic Casualties.
- 02-3718 S Of 153 Attempted-Cardiopulmonary
- 02-3740 S Clinical and Morphological Findings in
- 02-3905 S Closed-Chest Cardiac Massage for
- 02-3945 N Ventricular Fibrillation.
- 03-3715 S Possibilities for Intensifying First Aid
- 03-3744 S The Outcome of the Cerebrocranial Injury
- 11-3738 S Special Circulatory Reactions in the
- 11-3741 S Pulmonary and Enteral Complications
- 11-3746 S The Acute, Subacute and Chronic Subdural
- 11-3747 S Traumatic Cerebral Hemorrhages in
- 11-3793 N Early Versus Late Treatment of Facial
- 11-3854 S Rehabilitation after Head Injury. 11-3938 S Head Injuries in Children.
- 13-3836 N Traumatic Thoracic Aortic Aneurysms.
- 13-3864 S Crushed Chest Injury.
- 13-3909 N A Regimen for the Early Care of the
- 14-3716 N Rupture of Thoracic Aorta due to Closed-Chest
- 14-3719 S Traumatic Rupture of the Aorta with
- 14-3766 S
- Symptoms and Therapy of Rupture of the Ten Years' Experience with Penetrating 14-3776 S
- 14-3830 S Penetrating Wounds of the Heart.
- 14-3893 N Immediate Thoracotomy for Wounds of the
- 15-3720 S Closed Abdominal Injuries.

- 15-3772 S Report on 41 Cases of Rupture of the Early Surgical Treatment of Abdominal 15-3799 S 15-3801 S Injuries of the Liver in 300 Consecutive 15-3879 S Liver Injuries in Northern Ireland. 15-3891 S Surgical Experience with 103 Truncal 17-3707 S Arterial Complications of Closed 17-3847 S The Recognition and Management of Pedestrian Deaths in Oslo Traffic 18-3802 S Autopsy Findings in 127 Patients Following 22-3728 S Severe Craniocerebral Trauma and 22-3947 S 22-3953 S Autopsy Findings in Head Injuries from 23-3875 S Rate of Lung Collapse After Airway 24-3713 S An Analysis of 827 Cases of Fatal Accidents. 24-3810 N Efficient Monitoring with a Digital 24-3898 N Controlled Hypotension in the Management 24-3935 S Survival Time in Different Types of Shock
- 25-3721 S Fat Embolism in Fatal Automobile 25-3722 S Fat Embolism Studied in 100 Patients
- 25-3946 S Fat Embolism.
- **Operating Conditions**, Physical Aspect NK 22-3728 S Autopsy Findings in 127 Patients

Pressure, Operating Conditions, Physical As-NKC pect

23-3875 S Rate of Lung Collapse After Airway

- NKE Acceleration/ Deceleration, Operating Conditions, Physical Aspect
 - 14-3942 N Deceleration Injuries of Heart and Lung.

Frequency/ Time, Operating Conditions, NKF **Physical Aspect** (See Also Time, L)

- 03-4090 S Treatment by Physician of the Severely
- 11-4089 S Rehabilitation of Craniocerebral Injuries.
- 13-3712 S Treatment of Flail Chest Injuries with a
- 14-4083 S Penetrating Wounds of the Heart and
- 21-4169 S A Study of Pulmonary Embolism.
- 25-4168 S Studies on the Frequency of Cerebral Fat

Reaction Time, Frequency/ Time, Operating NKFB **Conditions**, Physical Aspect

15-4054 S Blunt Abdominal Trauma.

NKFD Latency, Frequency/ Time, Operating Conditions, Physical Aspect

22-3974 S Importance and Features of First Aid in

NKFF Delay, Frequency/ Time, Operating Conditions, Physical Aspect

- 01-4095 N Medicine in South Vietnam Today. Part 5.
- 01-4097 S Emergency Medical Service System-Analysis
- 11-4166 S On the Differential Diagnosis of Permanent
- 12-4159 N Bullet Transection of Both Common Carotid
- 12-4514 S On the Treatment of Spinal Cord Injury.
- 12-4515 S Life Expectancy, Survival Rates, and
- 14-4528 S Traumatic Aortic Rupture.
- 15-4147 S Incidence, Aetiology, Diagnosis, and
- 15-4196 S Abdominal Trauma.

- 15-4198 S Delayed Splenic Rupture.
- 15-4506 S Closed Injury of the Liver.
- 21-4115 S The Basic Surgery of Major Road Injuries.
- 24-4156 S A Clinical Study of Shock Occurring During
- 24-4195 S A Survey of Evacuation, Resuscitation, and
- 25-4168 S Studies on the Frequency of Cerebral Fat

NKFP Period, Frequency/ Time, Operating Conditions. Physical Aspect

- 01-4008 N Fatal Pedestrian Automotive Accidents.
- 01-4024 S Ambulance Services and Traffic Casualties.
- 02-3995 S On Time Relations Between the Accidents
- 11-3960 S Late Posttraumatic Headache.
- 14-4048 N Acute Traumatic Rupture of the Thoracic
- 17-4037 S Analytical Study of 122 Diaphysial Leg
- 23-3976 S The Fatal Traffic Accident from the
- 24-4020 S Extent and Time of Blood-Loss after
- 25-3971 S On Pulmonary Fat Embolism after Injuries
- NLE Impact, Phenomena, Physical Aspect

01-2592 S Traffic Injury in Brisbane.

- OAD Lower Extremity, Anatomy/ Body, Biomedical Aspect
 - 01-3726 S Injuries in Traffic Accidents.
 - 17-3707 S Arterial Complications of Closed Injuries
 - 17-3901 N Management of Fracture with Vascular Injury.
- OADA Ankle, Lower Extremity, Anatomy/ Body, **Biomedical Aspect**

17-3937 S Conservative Treatment of Ankle Fractures.

OADE Leg, Lower Extremity, Anatomy/ Body, **Biomedical Aspect**

17-4037 S Analytical Study of 122 Diaphysial Leg

OADEB Femur, Leg, Lower Extremity, Anatomy/ Body, Biomedical Aspect

- 17-3788 S Primary Prothetic Replacement in Fresh
- 17-3917 S Fractures of the Shaft of the Femur
- 17-3921 S Shaft Fractures of the Femur.
- 17-3965 S Over-All Statistical Study of 216 Cases of
- 17-4027 S Multiple Injuries.
- 25-3724 S Mortality Related to Various Methods of

OADED Tibia, Leg, Lower Extremity, Anatomy/ **Body**, Biomedical Aspect

- 17-3937 S Conservative Treatment of Ankle Fractures.
- 17-3944 S Deep Venous Thrombosis Following Fractures
- OADG Thigh, Lower Extremity, Anatomy/ Body, **Biomedical Aspect**

17-3863 N Closed Traumatic Rupture of Common Femoral

OADH Pelvis, Lower Extremity, Anatomy/ Body, **Biomedical Aspect**

- 01-3726 S Injuries in Traffic Accidents.
- 16-3789 S Central Acetabular Fractures.
- 16-3790 S Complications Associated with Fractures
- 16-4034 N Fractures of the Pelvis.

- 16-4064 S Pelvic Fractures.
- 16-4075 N Pelvic Injuries and Urinary Tract
- 16-4085 S Complicated Pelvic Fractures.
- 16-4149 S Major Abdominal Injuries Associated
- 18-3835 S Agricultural Tractor Accidents.
- 22-3728 S Autopsy Findings in 127 Patients Following
- 24-4050 S Massive Hemorrhage from Pelvic Fractures.
- 25-3705 S An Analysis of 950 Fatal Injuries.

Abdomen, Anatomy/ Body, Biomedical As-OAE pect

01-3726 S Injuries in Traffic Accidents. 01-3751 S The Significance of Trauma Records for 02-3700 N Surgical Problems of Traffic Accidents 11-3741 S Pulmonary and Enteral Complications after 11-3784 N The Management of Head Injuries Complicated 11-4108 S Associated Injuries in Head Injured Patients. 15-3709 S A Five-Year Survey of 152 Acute Abdominal 15-3720 S Closed Abdominal Injuries. 15-3750 S Blunt Abdominal Injuries in Childhood. 15-3797 S Management of Shotgun Injuries. 15-3799 S Early Surgical Treatment of Abdominal 15-3819 S Pancreatic Trauma. 15-3825 S Stab Wounds of the Abdomen. 15-3826 S Surgical Management of Traumatic 15-3827 N Delayed Rupture of the Spleen. 15-3860 N Complete Division of the Common Bile Duct 15-3866 S Nonpenetrating Injuries of Abdomen 15-3867 N X-Ray Diagnosis of Penetrating Wounds of 15-3891 S Surgical Experience with 103 Truncal 15-3899 N A Pattern of Severe Blunt Trauma to the 15-3908 S Injury of the Superior Mesenteric Vessels 15-3914 S Perforating Injury of the Small Intestine. 15-3915 S Blunt Abdominal Trauma. 15-3929 N Seat-Belt Hernia. 15-3967 S Special Features of Blunt Abdominal Trauma. 15-3991 S Blunt Abdominal Trauma. 15-4005 S Analysis of 500 Stab Wounds of the 15-4022 S Civilian Penetrating Wounds of the 15-4028 S Surgical Considerations of Non-Penetrating 15-4035 N Abdominal Injuries. 15-4047 S Closed Abdominal Injuries. 15-4052 N Management of Blunt Abdominal Trauma. 15-4054 S Blunt Abdominal Trauma. 15-4082 S Nonpenetrating Wounds of the Abdomen. 15-4101 N The Seat Belt Syndrome. 15-4103 N Intra-Abdominal Injuries Caused by 15-4106 S Unrecognized Abdominal Trauma in Patients 15-4132 N The Automotive Safety Belt. 15-4146 S Penetrating Wounds of the Abdomen. 15-4147 S Incidence, Aetiology, Diagnosis, and 15-4196 S Abdominal Trauma. 15-4542 S Nonpenetrating Abdominal Injury.

- 18-4058 N Emergency Management of Thoracoabdominal 22-3728 S Autopsy Findings in 127 Patients Following 24-3710 S Concealed Hemorrhage Due to Pelvic Fracture.
- 24-4513 S On Serial Rib Fractures Caused by Traffic
- 31-3831 N A Review of the Literature on Burns and
- 31-3910 N A Review of the Literature on Burns and

Thorax, Anatomy/ Body, Biomedical Aspect OAF

01-3751 S The Significance of Trauma Records for 01-3805 S The Toll of the Road.

03-3704 N Proceedings of the Symposium of 11-3784 N The Management of Head Injuries 11-4108 S Associated Injuries in Head Injured 12-4105 N Seat-Belt Fractures of the Spine and 13-3712 S Treatment of Flail Chest Injuries with 13-3723 S Closed Thoracic Injuries. 13-3753 N Contribution to Traumatic Bronchial 13-3781 N A Simplified Treatment of Pneumothorax 13-3783 N Nonpenetrating Chest Trauma in Adults. 13-3794 S Effect of Chest Trauma upon Respiratory 13-3798 S Thoracic Trauma. 13-3841 S Classification of Chest Injuries as an 13-3859 N A New Method of Treating the Flail Chest 13-3864 S Crushed Chest Injury. 13-3907 S Traumatic Hemothorax. 13-3909 N A Regimen for the Early Care of the Patient 13-3912 S Treatment of Penetrating Wounds of the 13-3936 S Current Treatment of Acute Thoracic 13-4045 S Chest Trauma with Pneumothorax and 13-4056 N Thoracic Injuries in Children. 13-4067 N Thoracic Injuries. 13-4072 S Analysis of Factors Affecting Survival Apropos of 268 Closed Chest Injuries. 13-4081[°]S Late Sequelae of Severe Chest Injuries. 13-4087 S 13-4125 S Experience with 472 Civilian Penetrating 13-4160 S Penetrating Injuries to the Chest. 13-4161 S Severe Non-Penetrating Injuries to the Chest. 13-4163 S Twenty-One Years of Thoracic Injuries. 13-4518 S Thoracic Injuries due to Blunt Trauma. 13-4526 S Chest Injuries in Traffic Accidents. 14-3893 N Immediate Thoracotomy for Wounds of the 14-4059 S Aortic Rupture in Blunt Thoracic Traumas. 14-4122 N Fracture of the Sternum and Injury to 15-3797 S Management of Shotgun Injuries. 18-4058 N Emergency Management of Thoracoabdominal 22-4500 S Factors in the Mortality of Closed Head 23-3767 S Deaths Causes in Recent Thoracic Injuries. 23-4128 S Flail Chest. 24-4014 S Patterns of Thoracic Injuries in Fatal 31-3831 N A Review of the Literature on Burns and 31-3910 N A Review of the Literature on Burns and Ribs, Thorax, Anatomy/ Body, Biomedical OAFD Aspect

- - 02-3887 N Training in Cardiopulmonary
 - 13-3794 S Effect of Chest Trauma upon Respiratory
 - 13-3859 N A New Method of Treating the Flail Chest
 - 13-3864 S Crushed Chest Injury.
 - 13-3909 N A Regimen for the Early Care of the
 - 13-4163 S Twenty-One Years of Thoracic Injuries.
 - 23-4128 S Flail Chest.
 - 24-4513 S On Serial Rib Fractures Caused by Traffic

OAG Upper Extremity, Anatomy/ Body, Biomedical Aspect

- 01-3726 S Injuries in Traffic Accidents.
- 17-3707 S Arterial Complications of Closed Injuries
- 17-3780 N Some Complications of Upper Limb Injuries.

Neck, Anatomy/ Body, Biomedical Aspect OAH

- 01-3726 S Injuries in Traffic Accidents.
- 02-4184 N Death in a Ditch.
- 02-4188 N Vehicle Accidents. Immediate Care to

- 12-4116 N Fatal Neck Injuries Caused by Use of
- 31-3831 N A Review of the Literature on Burns and

31-3910 N A Review of the Literature on Burns and

OAI H	ead, Anatomy/ Body, Biomedical Aspect
01-3726 S	Injuries in Traffic Accidents.
03-3751 S	The Significance of Trauma Records for
01-3805 S	The Toll of the Road.
02.3700 N	Surgical Problems of Traffic Accidents
02-3740 S	Clinical and Morphological Findings
02-3740 5	Possibilities and Limitations of Medical
02-3740 S	Proceedings of the Symposium of
02 2742 8	Shull Injustice of Soon by the Physician
03-3743 5	Skull Injulies as Seen by the Thysician
11-3/60 8	Cranio-Cerebrai injunes in nospital
11-3/61 8	Clinical and Statistical Considerations
11-3784 N	The Management of Head Injuries
11-3792 S	Causes of Shock with Head Injury.
11-3854 S	Rehabilitation after Head Injury.
11-3880 S	The Long–Term Prognosis of Severe Head
11-3884 S	Treatment of the Patient with Acute Head
11-3922 S	Analysis of 1,400 Cases of Acute Injury
11-3923 N	Intracerebral Vascular Lesions Following
11-3932 S	Disability Arising from Closed Head Injury.
11-3933 S	Head Injuries in a Peripheral Hospital.
11-3938 S	Head Injuries in Children.
11-3960 S	Late Posttraumatic Headache.
11-3963 S	Craniocerebral Trauma.
11-3964 N	On First Aid in Very Severe Craniocerebral
11-4002 8	The Comatose Injured Patient.
11-4089 S	Rehabilitation of Craniocerebral Injuries.
11-4092 S	Statistical and Therapeutic Considerations
11-4104 S	The Management of Skeletal Fractures in
11-4107 S	Severe Head Injuries in Children.
11-4108 S	Associated Injuries in Head Injured
11-4124 S	Extradural Haematoma.
11-4162 N	The Late Prognosis in Severe Head
11-4199 N	Acute Craniocerebral Trauma.
11-4502 \$	Acute Head Injury
11-4536 \$	Clinical Experiences in the Neurosurgical
11-4540 \$	Acute Subacute and Chronic Subdural
13.3841 \$	Classification of Chest Injuries as an
15-3797 \$	Management of Shotgun Injuries
15-4106 \$	Unrecognized Abdominal Trauma in Patients
17 4027 9	Multinla Injurias
22.3728	Autonsy Findings in 127 Patients Following
11 2727 \$	Papart on 5000 Craniocarebral Trainas
22 2765 9	Statistical Data on 400 Cases of Grave
22-3703 3	Eastern Influencing Mortality in Head
22-37093	J The Incidence and Machanisms of Shock in
22-39311	The incluence and mechanisms of shock in
22-3939 3	Extradural Hematoma.
22-3933 3	Autopsy Findings in Head injunes from
22-39743	A suite Craniel Travene
22-4098 3	Acute Granial Trauma.
22-4500 3	Factors in the Mortality of Closed Head
22-4503	N Care of the Severely Injured Patient.
22-45178	Autopsy Findings in Head Injuries from
22-4521	Mortality in Head Injuries.
23-3754 \$	First Treatment of the Complications of
24-3713	An Analysis of 82/ Cases of Fatal Accidents.
25-3705 \$	An Analysis of 950 Fatal Injuries.
31-3831 1	N A Review of the Literature on Burns
31-39101	N A Review of the Literature on Burns

- OAIA Skull, Head, Anatomy/ Body, Biomedical Aspect
 - 02-4000 N Road Accidents. Essentials in Treating
 - 03-3744 S The Outcome of the Cerebrocranial
 - 11-3738 S Special Circulatory Reactions in the 11-4063 S The Evaluation and Therapy of Skull

 - 22-3947 S Severe Craniocerebral Trauma and

Face, Head, Anatomy/ Body, Biomedical As-OAIB pect

- 11-3793 N Early Versus Late Treatment of Facial
- 11-4108 S Associated Injuries in Head Injured
- 23-3883 N Emergency Management of Facial Fractures

OAIE Maxilla, Head, Anatomy/ Body, Biomedical Aspect

02-3777 N First Aid Treatment, Diagnosis and

- OAJI Esophagus, Digestive System/ Alimentary Tract, Anatomy/ Body, Biomedical Aspect 13-4077 N Injuries of the Thoracic Esophagus.
 - 13-4091 N Late Rupture of the Esophagus after
 - 23-4036 N Unsuspected Foreign Bodies in the Young
- Small Intestine, Digestive System/ Alimen-OAJK tary Tract, Anatomy/ Body, Biomedical Aspect
 - 15-3914 S Perforating Injury of the Small Intestine. 16-4064 S Pelvic Fractures.
- OAJL Large Intestine, Digestive System/ Alimentary Tract, Anatomy/ Body, Biomedical Aspect
 - 16-4064 S Pelvic Fractures.

OAJM Liver/ Biliary Tract, Digestive System/ Alimentary Tract, Anatomy/ Body, Biomedical Aspect

- 15-3706 S Management of Liver Trauma in 259 Consecut
- 15-3709 S A Five-Year Survey of 152 Acute Abdominal
- 15-3720 S Closed Abdominal Injuries.
- 15-3801 S Injuries of the Liver in 300 Consecutive
- 15-3860 N Complete Division of the Common Bile Duct
- 15-3879 S Liver Injuries in Northern Ireland.
- 15-3902 N Traumatic Injuries to the Biliary System
- 15-4051 S Lesions Associated with Closed Liver Injury.
- 15-4054 S Blunt Abdominal Trauma.
- 15-4084 S The Surgical Management of 640 Consecutive
- 15-4126 S Injuries of the Liver.
- 15-4506 S Closed Injury of the Liver.
- 24-3770 N Massive Liver Injury and Shock.

Spleen/ Lymph Tracts, Digestive System/ OAJN Alimentary Tract, Anatomy/ Body, Biomedical Aspect

- 15-3701 S Surgical Management of Splenic Injuries.
- 15-3720 S Closed Abdominal Injuries.
- 15-3772 S Report on 41 Cases of Rupture of the
- 15-3823 N Traumatic Rupture of the Spleen.
- 15-3827 N Delayed Rupture of the Spleen.

- 15-3866 S Nonpenetrating Injuries of Abdomen
- 15-4044 S Lesions of the Spleen in Closed and
- 15-4054 S Blunt Abdominal Trauma.
- 15-4198 S Delayed Splenic Rupture.
- Pancreas, Digestive System/ Alimentary OAJP Tract, Anatomy/ Body, Biomedical Aspect 15-4131 S The Surgical Management of Pancreatic 15-4144 S Pancreatic Trauma.

Cardiovascular System, Anatomy/ Body, OAK **Biomedical Aspect**

- 01-3824 S Utilization of Ambulance Services in a
- 02-3718 S Of 153 Attempted-Cardiopulmonary
- 02-3774 S Cardiac Arrest.
- 02-3814 N Early Management of the Critically
- 02-3820 N Resuscitation: 1966.
- 02-3858 S Results of Cardiac Resuscitation in 254
- 02-3885 N Closed-Chest Cardiac Resuscitation.
- 02-3887 N Training in Cardiopulmonary Resuscitation.
- 02-3888 N Emergency Resuscitation.
- 02-3905 S Closed-Chest Cardiac Massage for
- 02-4078 N Cardiopulmonary Resuscitation at a
- 02-4145 S Cardiac Resuscitation.
- 04-4137 S Effects of Flying on Patients with
- 11-3738 S Special Circulatory Reactions in the
- 13-3798 S Thoracic Trauma.
- 13-3864 S Crushed Chest Injury.
- 14-3829 S Penetrating Wounds of the Pericardium 24-3713 S An Analysis of 827 Cases of Fatal
- 24-3804 S Acute Pharmacodynamic Effects of
- 24-3809 N Experience with a Digital Computer
- 24-3810 N Efficient Monitoring with a Digital
- 24-3838 S Rational Approach to Management of
- 24-3844 S The Mechanism of Shock Following
- 24-3890 N Treatment of Traumatic Shock.
- 24-3896 S The Management of Experimental
- 24-3897 S The Nature of Irreversible Shock.

OAKB Heart, Cardiovascular System, Anatomy/ Body, Biomedical Aspect

- 02-3945 N Ventricular Fibrillation.
- 14-3717 S Penetrating Cardiac Injuries.
- 14-3776 S Ten Years' Experience with Penetrating
- 14-3830 S Penetrating Wounds of the Heart.
- 14-3846 S Gunshot Wounds of the Heart.
- 14-3861 N Successful Surgical Management of
- 14-3876 N Stab Wound of the Heart with Tamponade
- 14-3893 N Immediate Thoracotomy for Wounds of
- 14-3942 N Deceleration Injuries of Heart and Lung.
- 14-4040 S Cardiac Wounds.
- 14-4083 S Penetrating Wounds of the Heart and
- 14-4157 S Further Observations of Penetrating
- Gunshot Wounds of the Heart. 14-4158 S
- 14-4509 S Missiles in the Heart.
- 14-4522 S The Management of Wounds of the Heart.
- 21-3758 S Early Electrocardiographic Observations
- 24-3796 S The Effect of Digitalization in Irreversible
- 24-4156 S A Clinical Study of Shock Occurring
- 25-4062 N Heart Damage in Fat Embolism.

OAKC	Bl	ood Vessels, Cardiovascular System, Anat-	
omy/ Body, Biomedical Aspect			
02-3700	Ν	Surgical Problems of Traffic Accidents	
11-3923	Ν	Intracerebral Vascular Lesions Following	
12-4159	Ν	Bullet Transection of Both Common	
13-3836	Ν	Traumatic Thoracic Aortic Aneurysms.	
13-4526	S	Chest Injuries in Traffic Accidents.	
14-3716	Ν	Rupture of Thoracic Aorta Due to	
14-3719	S	Traumatic Rupture of the Aorta with	
14-3828	S	Traumatic Rupture of Aorta.	
14-4032	S	A Report of Fifteen Patients with	
14-4033	S	Traumatic Rupture of the Aorta.	
14-4048	Ν	Acute Traumatic Rupture of the Thoracic	
17-3708	S	The Management of Civilian Arterial	
17-3780	Ν	Some Complications of Upper Limb Injuries.	
17-3901	Ν	Management of Fracture with Vascular Injury.	
24-4014	S	Patterns of Thoracic Injuries in Fatal	
24-4043	Ν	Penetrating Injuries of the Subclavian	

OAKCB

12-3702 S Arterial Injuries of the Base of the Neck. 14-3766 S Symptoms and Therapy of Rupture of the 14-3892 N Nonpenetrating Traumatic Rupture of the 14-4029 S Penetrating Wounds of the Aorta. 14-4059 S Aortic Rupture in Blunt Thoracic Traumas. 14-4165 N Homograft Patch Repair of Bullet Wounds 14-4527 S Traumatic Aortic Rupture in Traffic 14-4528 S Traumatic Aortic Rupture. 17-3707 S Arterial Complications of Closed Injuries 17-3847 S The Recognition and Management of 17-3863 N Closed Traumatic Rupture of Common 17-4071 S Arterial Injuries in Civilian Practice. 17-4197 S Arterial Repair During the Korean War. 17-4533 S 17 Femoro Politeal Arterial Lesions 24-3735 N About the Indication of Intra-Venous and OAKCC Veins, Blood Vessels, Cardiovascular System, Anatomy/ Body, Biomedical Aspect 14-3725 S Surgical Correction of Injuries of 17-3944 S Deep Venous Thrombosis Following Fractures Respiratory System, Anatomy/ Body, Bio-OAL medical Aspect

Arteries, Blood Vessels, Cardiovascular

System, Anatomy/ Body, Biomedical Aspect

- 01-3824 S Utilization of Ambulance Services in a
- 02-3718 S Of 153 Attempted-Cardiopulmonary
- 02-3777 N First Aid Treatment, Diagnosis and
- 02-3820 N Resuscitation: 1966.
- 02-3885 N Closed-Chest Cardiac Resuscitation.
- 02-3887 N Training in Cardiopulmonary Resuscitation.
- 02-3888 N Emergency Resuscitation.
- 02-3905 S Closed-Chest Cardiac Massage for
- 02-4000 N Road Accidents. Essentials in Treating
- 02-4019 N Early Medical Treatment in Cases of
- 02-4078 N Cardiopulmonary Resuscitation at a
- 04-3984 S Tasks of the Physician in the
- 04-4140 N The Transport of Patients with Respiratory
- 11-4502 S Acute Head Injury.
- 12-3843 S Impairment of Respiration after Spinal
- 13-3798 S Thoracic Trauma.
- 13-3841 S Classification of Chest Injuries as an
- 13-3859 N A New Method of Treating the Flail Chest

- 13-3864 S Crushed Chest Injury.
- 13-3909 N A Regimen for the Early Care of the
- 13-4045 S Chest Trauma with Pneumothorax and
- 13-4056 N Thoracic Injuries in Children.
- 13-4081 S Apropos of 268 Closed Chest Injuries.
- 13-4087 S Late Sequelae of Severe Chest Injuries.
- 13-4129 N Mechanisms of Pulmonary Trauma.
- 13-4163 S Twenty-One Years of Thoracic Injuries.
- 21-4053 N Pulmonary Embolism.
- 21-4115 S The Basic Surgery of Major Road Injuries. 22-3947 S Severe Craniocerebral Trauma and
- 23-3806 S Inhaled Foreign Bodies in Children.
- 23-3889 S Airway Foreign Body Fatalities in Children.
- 23-3894 N The Management of the Airway and
- 23-4036 N Unsuspected Foreign Bodies in the Young
- 23-4046 N Combined Renal and Respiratory Failure
- 24-4014 S Patterns of Thoracic Injuries in Fatal
- 24-4112 N Metabolic Responses to Injury.
- 24-4513 S On Serial Rib Fractures Caused by Traffic

OALC Larynx, Respiratory System, Anatomy/ **Body**, Biomedical Aspect

- 12-3839 N Immediate Management of Laryngeal and
- 12-4006 S Injuries of the Larynx and Cervical
- 12-4150 N Blunt Trauma to the Larynx and Upper

OALD Trachea/ Bronchi, Respiratory System, Anatomy/ Body, Biomedical Aspect

- 12-3839 N Immediate Management of Laryngeal and
- 12-3911 S Automobile Accidents and Laryngeal and
- 12-4150 N Blunt Trauma to the Larynx and Upper
- 13-3753 N Contribution to Traumatic Bronchial
- 23-3812 N Foreign Bodies in the Tracheobronchial

OALE Lungs, Respiratory System, Anatomy/ **Body**, **Biomedical** Aspect

- 02-3700 N Surgical Problems of Traffic Accidents
- 11-3741 S Pulmonary and Enteral Complications
- 13-3781 N A Simplified Treatment of Pneumothorax
- 13-4520 S Traumatic Nonpenetrating Lung Contusion.
- 14-3942 N Deceleration Injuries of Heart and Lung.
- 21-3757 N Death from Pulmonary Embolism (II).
- 21-3758 S Early Electrocardiographic Observations
- 21-3959 S On the Initial Treatment of Acute
- 21-4164 S Fatal Pulmonary Embolism.
- 21-4169 S A Study of Pulmonary Embolism.
- 21-4519 S A Vena Cava Filter for the Prevention
- 23-3875 S Rate of Lung Collapse After Airway
- 24-4516 N Shock and Pulmonary Embolism.
- 25-3722 S Fat Embolism Studies in 100 Patients
- 25-3971 S On Pulmonary Fat Embolism After Injuries

Diaphragm, Respiratory System, Anatomy/ OALF Body, Biomedical Aspect

- 12-3803 N Diaphragmatic Respiration.
- 13-3723 S Closed Thoracic Injuries.
- 13-3895 N Traumatic Closed Rupture of the Diaphragm.
- 13-3999 N Closed Traumatic Rupture of the Diaphragm.
- 13-4130 N Rupture of the Right Hemidiaphragm Due to 13-4182 N Contribution to Traumatic Rupture of
- 13-4526 S Chest Injuries in Traffic Accidents.
- 16-3790 S Complications Associated with Fractures

OALG Mediastinum, Respiratory System, Anatomy/ Body, Biomedical Aspect

02-3700 N Surgical Problems of Traffic Accidents

OAM Urogenital System, Anatomy/ Body, Biomedical Aspect

16-3790 S Complications Associated with Fractures 16-4075 N Pelvic Injuries and Urinary Tract

OAMB Kidneys, Urogenital System, Anatomy/ **Body**, **Biomedical Aspect**

- 15-3720 S Closed Abdominal Injuries.
- 15-3785 S Penal Trauma.
- 15-3842 S Injuries of the Kidney.
- 15-3865 N The Mechanism of Acute Renal Failure
- 15-4054 S Blunt Abdominal Trauma.
- 15-4073 S Penetrating Renal Injuries.
- 21-4134 S The Incidence of Morbid-Anatomical
- 23-4046 N Combined Renal and Respiratory Failure
- 24-4057 N Acute Renal Failure Following Extensive

24-4111 N Metabolic Responses to Injury.

OAMC Bladder, Urogenital System, Anatomy/ **Body**, **Biomedical Aspect**

15-4054 S Blunt Abdominal Trauma.

OAN Nervous System, Anatomy/ Body, Biomedical Aspect

- 01-3751 S The Significance of Trauma Records for
- 22-4503 N Care of the Severely Injured Patient.
- 24-3954 N Hemorrhagic Shock and the Nervous System.
- OANB Central, Nervous System, Anatomy/ Body, **Biomedical Aspect**

23-3894 N The Management of the Airway and

Brain, Central, Nervous System, Anatomy/ **OANBB** Body, Biomedical Aspect 02-3740 S Clinical and Morphological Findings in 02-4000 N Road Accidents. Essentials in Treating 03-3743 S Skull Injuries as Seen by the Physician 03-3744 S The Outcome of the Cerebrocranial Injury 11-3738 S Special Circulatory Reactions in the 11-3741 S Pulmonary and Enteral Complications 11-3742 S Permanent Brain Injuries Following Traffic 11-3746 S The Acute, Subacute and Chronic Subdural 11-3747 S Traumatic Cerebral Hemorrhages in 11-3752 N The Secondary Morphological Brain Changes 11-3760 S Cranio-Cerebral Injuries in Hospital 11-3922 S Analysis of 1,400 Cases of Acute Injury 11-3960 S Late Posttraumatic Headache. 11-3963 S Craniocerebral Trauma. 11-3964 N On First Aid in Very Severe Craniocerebral 11-3966 S Diagnosis and Treatment of Epidural 11-4042 S The Repair of Dural Defects by Graft. 11-4063 S The Evaluation and Therapy of Skull 11-4068 S Decisive Factors in the Success of 11-4086 S Brain Concussion. 11-4089 S Rehabilitation of Craniocerebral Injuries. 11-4092 S Statistical and Therapeutic Considerations

- 11-4151 N Continuous Recording of the Vertricular-
- 11-4166 S On the Differential Diagnosis of Permanent 11-4199 N Acute Craniocerebral Trauma.
- 11-4502 S Acute Head Injury.
- 11-4536 S Clinical Experience in the Neurosurgical
- 11-4537 S Findings in 1000 Brain–Injured Persons
- 11-4540 S Acute, Subacute, and Chronic Subdural
- 22-3737 S Report on 5900 Craniocerebral Traumas.
- 22-3739 S Limits of Resuscitation in Serious
- 22-3769 S Factors Influencing Mortality in Head
- 22-3939 S Extradural Hematoma.
- 22-3947 S Severe Craniocerebral Trauma and
- 22-3974 S Importance and Features of First Aid in
- 22-4143 S The Etiology of Acute Brain Swelling
- 25-3775 N Acute Peptic Ulceration and Cerebral
- 25-4168 S Studies on the Frequency of Cerebral

OANBC Spinal Cord, Central, Nervous System, Anatomy/ Body, Biomedical Aspect

- 02-3700 N Surgical Problems of Traffic Accidents
- 02-3872 N Management of Spinal Injuries with
- 02-4184 N Death in a Ditch.
- 02-4188 N Vehicle Accidents. Immediate Care to
- 12-3771 N Emergency Management of Cervical Spine
- 12-3782 N Some Problems in the Initial Management
- 12-3803 N Diaphragmatic Respiration.
- 12-3843 S Impairment of Respiration after Spinal
- 12-4039 S Survival of Patients with Injuries
- 12-4117 S Differential Therapeutic Discussions on
- 12-4167 N The Early Diagnosis of Cervical Cord
- 12-4514 S On the Treatment of Spinal Cord Injury.
- 22-4515 S Life Expectancy, Survival Rates, and
- 22-3959 S On the Initial Treatment of Acute
- 22-3769 S Factors Influencing Mortality in Head
- 22-4503 N Care of the Severely Injured Patient.

OAO Musculo-Skeletal System, Anatomy/ Body, **Biomedical Aspect**

11-4104 S The Management of Skeletal Fractures in

OAOBB Vertebrae/ Spine, Bones, Musculo-Skeletal System, Anatomy/ Body, Biomedical Aspect

- 01-3726 S Injuries in Traffic Accidents.
- 02-4188 N Vehicle Accidents. Immediate Care to
- 12-4001 S Cervical Spine Cineradiography After
- 12-4006 S Injuries of the Larynx and Cervical
- 12-4105 N Seat-Belt Fractures of the Spine and

OARC Blood, Body Fluids, Anatomy/ Body, Biomedical Aspect

24-4020 S Extent and Time of Blood-Loss after

Metabolism, Problems, Biomedical Aspect OBM

- 22-3974 S Importance and Features of First Aid in
- 24-3968 N Traumatic Shock.
- 24-4111 N Metabolic Responses to Injury.
- 24-4112 N Metabolic Responses to Injury.
- р **Psychological Aspect**

11-3932 S Disability Arising From Closed Head

- PCCC Suicide/ Homocide, Typologies/ Clinical Diagnosis, Personality, Psychological Aspect 24-3844 S The Mechanism of Shock Following Suicidal
- **PF** Behavioral Factors, Psychological Aspect 11-3960 S Late Posttraumatic Headache.

QD Teaching/ Training, Educational Aspect

- 01-3919 N Accident and Emergency Services in Dublin.
- 01-3925 N The Current Status of Emergency
- 01-3926 N Ambulance Service Transportation or
- 01-4097 S Emergency Medical Service System-Analysis
- 01-4179 N Suggestions for Community Action on
- 01-4193 N The Bloody Lanes.
- 02-3718 S Of 153 Attempted-Cardiopulmonary
- 02-3795 N The Medical Self-Help Training Program.
- 02-3845 N Cardiopulmonary Resuscitation.
- 02-3849 N Immediate Measures at Site of Accident.
- 02-3856 N Ten Musts of a Skilled and Ready
- 02-3873 N The Role of a University Hospital in
- 02-3885 N Closed-Chest Cardiac Resuscitation.
- 02-3888 N Emergency Resuscitation.
- 02-3949 S Mouth-To-Mouth Resuscitation in Norway.
- 02-4078 N Cardiopulmonary Resuscitation at a
- 02-4184 N Death in a Ditch.
- OGM Medical, Education, Educational Aspect
 - 01-3811 N Opportunity for Community Leadership.
 - 01-3857 S Control of Accidents in Rural Areas.

S Socioeconomic Aspect

01-3818 S Yale Studies in Ambulatory Medical

SC Economics, Socioeconomic Aspect

- 01-3749 S Traffic Accidents as Viewed by the
- 01-3853 N Emergency Medical Services in the Small
- 01-3886 N Provincial Wide Ambulance Service for
- 01-3926 N Ambulance Service Transportation or
- 01-3956 N The Trauma Patient vs. Emergency Care.

SCE Costs/ Benefits, Economics, Socioeconomic Aspect

- 01-4175 S Ambulance Service in Seattle.
- 11-4537 S Findings in 1000 Brain-Injured Persons
- SFD Community Support, Measures of, Socioeconomic Aspect
 - 01-3857 S Control of Accidents in Rural Areas.
 - 01-3886 N Provincial Wide Ambulance Service for
- VM Biomedical Sciences, Disciplines 31-2631 N Traffic Accidents Medical Bibliography,
- VMB Biomechanics, Biomedical Sciences, Disciplines
 - 01-3749 S Traffic Accidents as Viewed by the
 - 11-3923 N Intracerebral Vascular Lesions Following

VN Epidemiology/ Etiology, Disciplines 01-3749 S Traffic Accidents as Viewed by the

01-3751 S The Significance of Trauma Records for 01-3805 S The Toll of the Road. 01-3818 S Yale Studies in Ambulatory Medical Care. 01-3821 S 50.000 Child-Years of Accidental 01-3824 S Utilization of Ambulance Services in a 01-3851 N Automobile Crash Injuries. 01-3925 N The Current Status of Emergency 01-3941 S The Stages of Development and the 01-3948 S Analysis of Admissions to a Casualty 01-3956 N The Trauma Patient vs. Emergency Care. 01-3970 N Fundamentals of the Therapy of Trauma. 01-4010 N The Injured Patient and the Specialist. 01-4012 S Fatal Traffic Accidents in Adelaide. 01-4015 N The Accident Surgery of Motorways. 01-4016 S Epidemiology of Traffic Casualties in the 01-4017 N Traffic Accidents in Canada. 01-4096 S Accident and Emergency Services in Dublin. 01-4097 S Emergency Medical Service System-Analysis 01-4114 S One Year's Experience in the Anesthetic 01-4120 S Medical Aspects of Automotive Crash 01-4175 S Ambulance Service in Seattle 01-4194 N Pilot Study of Traffic Accidents. 01-4529 S Changes in Traffic Accident Injuries for 02-3905 S Closed-Chest Cardiac Massage for Organization and Scope of Highway 02-4185 S Experiences with the Cologne Emergency 03-3983 S 03-4512 N Experiences with the Mobile Unit of 11-3761 S Clinical and Statistical Considerations 11-3938 S Head Injuries in Children. 11-4042 S The Repair of Dural Defects by Graft. 11-4068 S Decisive Factors in the Success of 11-4092 S Statistical and Therapeutic Considerations 11-4124 S Extradural Haematoma. 11-4162 N The Late Prognosis in Severe Head 11-4166 S On the Differential Diagnosis of 12-3911 S Automobile Accidents and Laryngeal 12-4006 S Injuries of the Larynx and Cervical 12-4167 N The Early Diagnosis of Cervical Cord 13-3798 S Thoracic Trauma. 13-3912 S Treatment of Penetrating Wounds of the 13-3936 S Current Treatment of Acute Thoracic 13-4045 S Chest Trauma with Pneumothorax and 13-4067 N Thoracic Injuries. 13-4072 S Analysis of Factors Affecting Survival 13-4125 S Experience with 472 Civilian Penetrating 13-4160 S Penetrating Injuries to the Chest. 13-4161 S Severe Non-Penetrating Injuries to the 13-4163 S Twenty-One Years of Thoracic Injuries. 13-4526 S Chest Injuries in Traffic Accidents. 14-3776 S Ten Years' Experience with Penetrating A Report of Fifteen Patients with 14-4032 S 14-4122 N Fracture of the Sternum and Injury to 15-3785 S Penal Trauma. 15-3797 S Management of Shotgun Injuries. 15-3799 S Early Surgical Treatment of Abdominal 15-3801 S Injuries of the Liver in 300 Consecutive Stab Wounds of the Abdomen. 15-3825 S 15-3866 S Nonpenetrating Injuries of Abdomen 15-3914 S Perforating Injury of the Small 15-3915 S Blunt Abdominal Trauma.

- 15-3991 S Blunt Abdominal Trauma.
- 15-4028 S Surgical Considerations of Non-Penetrating
- 15-4051 S Lesions Associated with Closed Liver

- 15-4054 S Blunt Abdominal Trauma. 15-4082 S Nonpenetrating Wounds of the Abdomen. 15-4126 S Injuries of the Liver. 15-4131 S The Surgical Management of Pancreatic 15-4144 S Pancreatic Trauma. 15-4146 S Penetrating Wounds of the Abdomen. 15-4147 S Incidence, Aetiology, Diagnosis, and 15-4196 S Abdominal Trauma. 15-4198 S Delayed Splenic Rupture. 15-4506 S Closed Injury of the Liver. 15-4542 S Nonpenetrating Abdominal Injury. 16-4149 S Major Abdominal Injuries Associated 17-3917 S Factures of the Shaft of the Femur 17-3930 S Orthopedic Problems in Agricultural 17-3944 S Deep Venous Thrombosis Following 18-3802 S Pedestrian Deaths in Oslo Traffic 18-3835 N Agricultural Tractor Accidents. 18-4003 N Research on Accidental Trauma in 18-4009 S Injuries from Road Accidents. 18-4061 S The Causes of Post Operative Deaths. 18-4133 S The Annual Injury of 15,000,000 21-4119 S Fatal Traffic Accidents in Brisbane from 21-4164 S Fatal Pulmonary Embolism. 21-4504 S Died in Hospital. 22-3947 S Severe Craniocerebral Trauma and 22-3953 S Autopsy Findings in Head Injuries 22-4143 S The Etiology of Acute Brain Swelling 22-4517 S Autopsy Findings in Head Injuries 23-3894 N The Management of the Airway and 23-3976 S The Fatal Traffic Accident from the 23-4123 S Air Way Foreign Bodies. 23-4128 S Flail Chest. 24-3903 S Metabolic Changes Associated with 24-4014 S Patterns of Thoracic Injuries in Fatal 24-4195 S A Survey of Evacuation, Resuscitation, and 25-3756 N On the Treatment of Fat Embolism. 25-3971 S On Pulmonary Fat Embolism After Injuries
- 25-4153 N A Study of the Pathogenesis of Fat

Regression, Design, Statistical/ Probability, WMEBD Mathematical, Methods

01-3726 S Injuries in Traffic Accidents.

24-3810 N Efficient Monitoring with a Digital

WS Medical, Methods

(See Also Treatment/ Care, JRG) (See Also Medical, Equipment, XT)

- 01-4010 N The Injured Patient and the Specialist.
- 01-4186 S Investigations about the Adequacy of
- 01-4190 N Estimating Community Requirements for
- 02-4511 N Emergency Squad Doctor. A Plan for
- 03-4505 N Ambulance Brings Operating Room to
- 03-4512 N Experiences with the Mobile Unit of
- 04-4135 N Medical Criteria for Passenger Flying
- 04-4136 N The Patient in Commercial Jet Aircraft.

First Aid, Medical, Methods WSB

01-3848 N The Lousiville Plan for Care of the

01-3853 N Emergency Medical Services in the Small 01-3955 N Emergency Care of Critically Injured. 01-3956 N The Trauma Patient vs. Emergency Care. 01-4024 S Ambulance Services and Traffic 01-4097 S Emergency Medical Service System-Analysis 01-4102 S A Survey of Emergency Ambulance Service. 01-4179 N Suggestions for Community Action on 02-3748 S Possibilities and Limitations of Medical 02-3777 N First Aid Treatment, Diagnosis and 02-3795 N The Medical Self-Help Training Program. 02-3849 N Immediate Measures at Site of Accident. 02-3873 N The Role of a University Hospital in 02-4170 N Disaster First Aid. Part 1. 02-4180 N Medical First-Aid at the Accident Site. 02-4184 N Death in a Ditch. 02-4185 S Organization and Scope of Highway 02-4523 N Contribution to the Therapy of Shock 03-3993 N First Management of the Injured at the 12-3782 N Some Problems in the Initial Management 18-3802 S Pedestrian Deaths in Oslo Traffic 22-3974 S Importance and Features of First Aid

WSBC Maintaining Airways, First Aid, Medical, Methods

- 01-3928 N The Removal of Injured Personnel from
- 02-3777 N First Aid Treatment, Diagnosis and
- 02-3814 N Early Management of the Critically
- 02-3888 N Emergency Resuscitation.
- 02-4000 N Road Accidents. Essentials in Treating 02-4530 N Tracheal Intubation in First and
- 03-3979 S Anesthesia and Intubation at the Site
- 03-3993 N First Management of the Injured at the
- 13-4056 N Thoracic Injuries in Children.
- 23-3754 S First Treatment of the Complications
- 23-3768 S The Aspiration of Victims of Traffic 23-3875 S Rate of Lung Collapse after Airway
- 23-3894 N The Management of the Airway and
- 23-4123 S Air Way Foreign Bodies.

WSBCR Resuscitation, Maintaining Airways, First Aid, Medical, Methods

- 01-3816 N The Organization of an Efficient 01-4183 N Combat Casualty Management in Vietnam. 01-4535 N Community-Wide Emergency Medical 02-3740 S Clinical and Morphological Findings in 02-3764 N Findings in Temporary Resuscitation 02-3774 S Cardiac Arrest. 02-3820 N Resuscitation: 1966. 02-3845 N Cardiopulmonary Resuscitation. 02-3858 S Results of Cardiac Resuscitation in 254 02-3874 N Ambulance Design and Equipment for 02-3885 N Closed-Chest Cardiac Resuscitation. 02-3887 N Training in Cardiopulmonary 02-3888 N Emergency Resuscitation. 02-3905 S Closed-Chest Cardiac Massage for 02-3945 N Ventricular Fibrillation. 02-4078 N Cardiopulmonary Resuscitation at a 02-4145 S Cardiac Resuscitation. 02-4152 N Resuscitation after Multiple Injuries. 02-4524 N The Physician's Kit for Life-Saving 03-3815 N Organization and Function of an Accident
- 22-3739 S Limits of Resuscitation in Serious
- 24-4195 S A Survey of Evacuation, Resuscitation,

WNB Models/ Modeling, Systems Analysis/ Operations Research, Methods 24-3809 N Experience with a Digital Computer

WSBCRM Mechanical, Resuscitation, Maintaining Airways, First Aid, Medical, Methods 04-4141 N Assisted Respiration in Air Evacuation. WSBCRN Mouth-To-Mouth, Resuscitation, Maintaining Airways, First Aid, Medical, Methods 02-3949 S Mouth-To-Mouth Resuscitation in Norway. Tracheostomy, Maintaining Airways, First WSBCT Aid, Medical, Methods 02-4019 N Early Medical Treatment in Cases of 02-4030 N Tracheostomy. An Underrated Surgical 02-4041 N Fatal Hemorrhage During Tracheotomy. 04-4141 N Assisted Respiration in Air Evacuation. 13-4526 S Chest Injuries in Traffic Accidents. WSC Diagnosis, Medical, Methods 01-3948 S Analysis of Admissions to a Casualty 01-4096 S Accident and Emergency Services in Dublin. 02-3777 N First Aid Treatment, Diagnosis and 02-3849 N Immediate Measures at Site of Accident. 03-3962 N First Treatment at the Scene of an 11-3746 S The Acute, Subacute and Chronic Subdural 11-3761 S Clinical and Statistical Considerations 11-3938 S Head Injuries in Children. 11-3963 S Craniocerebral Trauma. 11-3964 N On First Aid in Very Severe Craniocerebral 11-3966 S Diagnosis and Treatment of Epidural 11-4002 S The Comatose Injured Patient. 11-4104 S The Management of Skeletal Fractures 11-4108 S Associated Injuries in Head Injured 11-4199 N Acute Craniocerebral Trauma. 11-4536 S Clinical Experiences in the Neurosurgical 11-4540 S Acute, Subacute, and Chronic Subdural 12-3771 N Emergency Management of Cervical Spine 12-4001 S Cervical Spine Cineradiography after 12-4167 N The Early Diagnosis of Cervical Cord 12-4538 N The Neurological Syndromes in Injuries 13-3723 S Closed Thoracic Injuries. 13-3907 S Traumatic Hemothorax. 13-4045 S Chest Trauma with Pneumothorax and 14-3766 S Symptoms and Therapy of Rupture of the 14-3893 N Immediate Thoracotomy for Wounds of the 14-4032 S A Report of Fifteen Patients with Traumatic 14-4033 S Traumatic Rupture of the Aorta. 14-4059 S Aortic Rupture in Blunt Thoracic Traumas. 14-4083 S Penetrating Wounds of the Heart and 15-3709 S A Five-Year Survey of 152 Acute Abdominal 15-3720 S Closed Abdominal Injuries. 15-3772 S Report on 41 Cases of Rupture of the 15-3825 S Stab Wounds of the Abdomen. 15-3827 N Delayed Rupture of the Spleen. 15-3842 S Injuries of the Kidney. 15-3866 S Nonpenetrating Injuries of Abdomen 15-3867 N X-Ray Diagnosis of Penetrating Wounds 15-3899 N A Pattern of the Severe Blunt Trauma to the 15-3902 N Traumatic Injuries to the Biliary System 15-3915 S Blunt Abdominal Trauma. 15-3991 S Blunt Abdominal Trauma. 15-4022 S Civilian Penetrating Wounds of the 15-4044 S Lesions of the Spleen in Closed and 15-4047 S Closed Abdominal Injuries. 15-4052 N Management of Blunt Abdominal Trauma.

15-4054 S Blunt Abdominal Trauma. 15-4073 S Penetrating Renal Injuries. 15-4106 S Unrecognized Abdominal Trauma in Patients 15-4147 S Incidence, Aetiology, Diagnosis and 16-4064 S Pelvic Fractures. 17-3847 S The Recognition and Management of 17-3901 N Management of Fracture with Vascular 18-4007 S The Seat Belt Syndrome. 18-4061 S The Causes of Post Operative Deaths. 21-3959 S On the Initial Treatment of Acute 21-4053 N Pulmonary Embolism. 21-4504 S Died in Hospital. 22-3737 S Report on 5900 Craniocerebral Traumas. 22-3769 S Factors Influencing Mortality in Head 22-4098 S Acute Cranial Trauma. 23-3894 N The Management of the Airway and 23-4036 N Unsuspected Foreign Bodies in the Young 23-4123 S Air Way Foreign Bodies. 25-3730 N Diagnosis and Treatment of Fat Embolism. 25-3773 S Fat Embolism. 25-4062 N Heart Damage in Fat Embolism. 25-4094 N Fat Embolism.

WSD Surgery, Medical, Methods

01-3749 S Traffic Accidents as Viewed by the 01-3751 S The Significance of Trauma Records for 01-4015 N The Accident Surgery of Motorways. 01-4183 N Combat Casualty Management in Vietnam. 02-4030 N Tracheostomy. An Underrated Surgical 02-4511 N Emergency Squad Doctor. A Plan for Handling 03-3815 N Organization and Function of an Accident 03-3961 S Experience about Medical Aid at the Scene 03-3978 S The Mobile Operation Room of the 03-4090 S Treatment by Physician of the Severely 03-4512 N Experiences with the Mobile Unit of the 11-3746 S The Acute, Subacute and Chronic Subdural 11-3760 S Cranio–Cerebral Injuries in Hospital 11-3761 S **Clinical and Statistical Considerations** Treatment of the Patient with Acute Head 11-3884 S 11-3938 S Head Injuries in Children. 11-4042 S The Repair of Dural Defects by Graft. 11-4540 S Acute, Subacute, and Chronic Subdural 12-3839 N Immediate Management of Laryngeal and 12-4150 N Blunt Trauma to the Larynx and Upper 12-4159 N Bullet Transection of Both Common 12-4514 S On the Treatment of Spinal Cord Injury. 13-3753 N Contribution to Traumatic Bronchial 13-3836 N Traumatic Thoracic Aortic Aneurysms. 13-3907 S Traumatic Hemothorax. 13-3912 S Treatment of Penetrating Wounds of the 13-4045 S Chest Trauma with Pneumothorax and 14-3716 N Rupture of Thoracic Aorta Due to 14-3725 S Surgical Correction of Injuries of the 14-3776 S Ten Years' Experience with Penetrating 14-3830 S Penetrating Wounds of the Heart. 14-3846 S Gunshot Wounds of the Heart. 14-3861 N Successful Surgical Management of 14-3876 N Stab Wound of the Heart with Tamponade 14-3892 N Nonpenetrating Traumatic Rupture of the 14-3893 N Immediate Thoractomy for Wounds of the 14-4029 S Penetrating Wounds of the Aorta. 14-4032 S A Report of Fifteen Patients with 14-4033 S Traumatic Rupture of the Aorta.

SUBJECT INDEX

14-4040 S Cardiac Wounds. 14-4048 N Acute Traumatic Rupture of the Thoracic 14-4059 S Aortic Rupture in Blunt Thoracic Traumas. 14-4083 S Penetrating Wounds of the Heart and 14-4165 N Homograft Patch Repair of Bullet Wounds 14-4522 S The Management of Wounds of the Heart. 15-3750 S Blunt Abdominal Injuries in Childhood. 15-3785 S Penal Trauma. 15-3797 S Management of Shotgun Injuries. 15-3799 S Early Surgical Treatment of Abdominal 15-3801 S Injuries of the Liver in 300 Consecutive 15-3823 N Traumatic Rupture of the Spleen. 15-3825 S Stab Wounds of the Abdomen. 15-3826 N Surgical Management of Traumatic 15-3842 S Injuries of the Kidney. 15-3866 S Nonpenetrating Injuries of Abdomen 15-3891 S Surgical Experience with 103 Truncal 15-3908 S Injury of the Superior Mesenteric Vessels 15-3915 S Blunt Abdominal Trauma. 15-3967 S Special Features of Blunt Abdominal 15-4028 S Surgical Considerations of Non-Penetrating 15-4044 S Lesions of the Spleen in Closed and 15-4052 N Management of Blunt Abdominal Trauma. 15-4084 S The Surgical Management of 640 Consecutive 15-4131 S The Surgical Management of Pancreatic 15-4146 S Penetrating Wounds of the Abdomen. 15-4196 S Abdominal Trauma. 15-4506 S Closed Injury of the Liver. 16-3789 S Central Acetabular Fractures. 16-3790 S Complications Associated with Fractures 17-3708 S The Management of Civilian Arterial 17-3788 S Primary Prothetic Replacement in Fresh 17-3847 S The Recognition and Management of 17-3863 N Closed Traumatic Rupture of Common 17-3965 S Over-All Statistical Study of 216 Cases 17-4013 N Thromboembolic Complications of Orthopedics 17-4071 S Arterial Injuries in Civilian Practice. 17-4197 S Arterial Repair during the Korean War. 17-4533 S 17 Femoro Popliteal Arterial Lesions 18-4061 S The Causes of Post Operative Deaths. 21-4504 S Died in Hospital. 22-3939 S Extradural Hematoma. 22-4503 N Care of the Severely Injured Patient. 24-3903 S Metabolic Changes Associated with 24-4050 S Massive Hemorrhage from Pelvic Fractures. 24-4111 N Metabolic Responses to Injury. 24-4195 S A Survey of Evacuation, Resuscitation, WSDF Experimental, Surgery, Medical, Methods 24-3896 S The Management of Experimental WSDG Amputation, Surgery, Medical, Methods 17-3707 S Arterial Complications of Closed Injuries 17-3847 S The Recognition and Management of

WSE Therapeutic, Medical, Methods

- 01-3956 N The Trauma Patient vs. Emergency Care.
- 01-3970 N Fundamentals of the Therapy of Trauma.
- 01-4114 S One Year's Experience in the Anesthetic
- 01-4183 N Combat Casualty Management in Vietnam.
- 02-3814 N Early Management of the Critically Injured.
- 02-3872 N Management of Spinal Injuries with

02-3945 N Ventricular Fibrillation. 02-4000 N Road Accidents. Essentials in Treating 02-4127 N The Management of Multiple Injury 03-3962 N First Treatment at the Scene of an 03-3980 S Medical Aid on the Site of Accident. 03-3983 S Experiences with the Cologne Emergency 03-4512 N Experiences with the Mobile Unit of 11-3793 N Early Versus Late Treatment of Facial 11-3884 S Treatment of the Patient with Acute 11-3933 S Head Injuries in a Peripheral Hospital. 11-3963 S Craniocerebral Trauma. 11-3966 S Diagnosis and Treatment of Epidural 11-4002 S The Comatose Injured Patient. 11-4063 S The Evaluation and Therapy of Skull 11-4068 S Decisive Factors in the Success of 11-4104 S The Management of Skeletal Fractures 11-4107 S Severe Head Injuries in Children. 11-4124 S Extradural Haematoma. 12-3771 N Emergency Management of Cervical Spine 12-3782 N Some Problems in the Initial Management 12-3911 S Automobile Accidents and Laryngeal and 12-4001 S Cervical Spine Cineradiography after 12-4117 S Differential Therapeutic Discussions on 12-4514 S On the Treatment of Spinal Cord Injury. 13-3781 N A Simplified Treatment of Pneumothorax 13-3783 N Nonpenetrating Chest Trauma in Adults. 13-3841 S Classification of Chest Injuries as an 13-3859 N A New Method of Treating the Flail Chest
13-3909 N A Regimen for the Early Care of the Patient
13-3912 S Treatment of Penetrating Wounds of the 13-3936 S Current Treatment of Acute Thoracic 13-4045 S Chest Trauma with Pneumothorax and 13-4067 N Thoracic Injuries. 13-4081 S Apropos of 268 Closed Chest Injuries. 13-4125 S Experience with 472 Civilian Penetrating 13-4161 S Severe Non–Penetrating Injuries to the 13-4518 S Thoracic Injuries due to Blunt Trauma. 14-3766 S Symptoms and Therapy of Rupture of the Aortic Rupture in Blunt Thoracic Traumas. 14-4059 S Gunshot Wounds of the Heart. 14-4158 S 15-3785 S Penal Trauma. 15-3797 S Management of Shotgun Injuries. 15-3891 S Surgical Experience with 103 Truncal Surgical Considerations on Non-Penetrating 15-4028 S 15-4054 S Blunt Abdominal Trauma. 15-4073 S Penetrating Renal Injuries. 15-4126 S Injuries of the Liver. 15-4131 S The Surgical Management of Pancreatic 15-4144 S Pancreatic Trauma. 15-4506 S Closed Injury of the Liver. 16-3789 S Central Acetabular Fractures. 16-4034 N Fractures of the Pelvis. 17-3780 N Some Complications of Upper Limb 17-3788 S Primary Prothetic Replacement in Fresh 17-3847 S The Recognition and Management of 17-3901 N Management of Fracture with Vascular Shaft Fractures of the Femur. 17-3921 S 17-3930 S Orthopedic Problems in Agricultural 17-3937 S Conservative Treatment of Ankle

- 17-3965 S Over-All Statistical Study of 216 Cases
- 17-4027 S Multiple Injuries.
- 17-4071 S Arterial Injuries in Civilian Practice.
- 18-4058 N Emergency Management of Thoracoabdominal

- 21-3959 S On the Initial Treatment of Acute
- 21-4519 S A Vena Cava Filter for the Prevention
- 22-3737 S Report on 5900 Craniocerebral Traumas.
- 22-3939 S Extradural Hematoma.
- 22-4503 N Care of the Severely Injured Patient.
- 22-4521 S Mortality in Head Injuries.
- 23-3883 N Emergency Management of Facial Fractures
- 24-3735 N About the Indication of Intra-Venous
- 24-3755 N Traumatic and Postoperative Shock.
- 24-3770 N Massive Liver Injury and Shock.
- 24-3832 S Central Venous Pressure Monitoring.
- 24-3838 S Rational Approach to Management of
- 24-3890 N Treatment of Traumatic Shock.
- 24-3898 N Controlled Hypotension in the Management
- 24-3958 N Concept of Shock in the Past and Today.
- 24-3968 N Traumatic Shock.
- 24-4050 S Massive Hemorrhage from Pelvic Fractures.
- 24-4057 N Acute Renal Failure Following Extensive
- 24-4156 S A Clinical Study of Shock Occurring
- 24-4510 S Circulatory Effects of Angiotensin,
- 25-3724 S Mortality Related to Various Methods of
- 25-3756 S On the Treatment of Fat Embolism.
- 25-3759 N Experiences with Preparation
- 25-3786 S The Effect of Sublingual Potassium
- 25-4049 N Treatment of Fat Embolism Complicating
- 25-4094 N Fat Embolism.

WSI

31-3910 N A Review of the Literature on Burns

WSF Anesthesia, Medical, Methods

01-4114 S One Year's Experience in the Anesthetic 03-3979 S Anesthesia and Intubation at the Site

- Autopsy/ Pathology, Medical, Methods 01-3941 S The Stages of Development and the 02-3718 S Of 153 Attempted-Cardiopulmonary 02-3858 S Results of Cardiac Resuscitation in 02-3905 S Closed-Chest Cardiac Massage for 03-3715 S Possibilities for Intensifying First 03-3744 S The Outcome of the Cerebrocranial 03-4525 N Mobile Operating Room and Emergency 03-4531 N An Outline of the Mobile Operating Room, 11-4124 S Extradural Haematoma. 13-3836 N Traumatic Thoracic Aortic Aneurysms. 13-3907 S Traumatic Hemothorax.14-3719 S Traumatic Rupture of the Aorta with 14-3828 S Traumatic Rupture of Aorta. 15-3801 S Injuries of the Liver in 300 15-3879 S Liver Injuries in Northern Ireland. 15-4084 S The Surgical Management of 640

 - 15-4126 S Injuries of the Liver
 - 15-4146 S Penetrating Wounds of the Abdomen.
 - 18-3802 S Pedestrian Deaths in Oslo Traffic
 - 18-4061 S The Causes of Post Operative Deaths.
 - 21-3882 S The Pathology of Pedestrian Automotive
 - 21-3924 N The Autopsy as Research.
 - 21-4053 N Pulmonary Embolism.
 - 21-4119 S Fatal Traffic Accidents in Brisbane
 - 21-4134 S The Incidence of Morbid-Anatomical
 - 21-4169 S A Study of Pulmonary Embolism.
 - 21-4504 S Died in Hospital.
 - 22-3727 S A Study of 183 Road Deaths In and Around
 - 22-3728 S Autopsy Findings in 127 Patients Following

22-3947 S Severe Craniocerebral Trauma and 22-3953 S Autopsy Findings in Head Injuries from Autopsy Findings in Head Injuries from 22-4517 S 23-3763 S The Significance of Aspiration of Blood 23-3767 S Deaths Causes in Recent Thoracic Injuries. 23-3768 S The Aspiration in Victims of Traffic 23-3889 S Airway Foreign Body Fatalities in The Fatal Traffic Accident from the 23-3976 S 23-4128 S Flail Chest. 24-3713 S An Analysis of 827 Cases of Fatal 24-3896 S The Management of Experimental 25-3703 S The Clinical Significance of Traumatic 25-3705 S An Analysis of 950 Fatal Injuries. 25-3721 S Fat Embolism in Fatal Automobile Accidents. 25-3773 S Fat Embolism.

22-3737 S Report on 5900 Craniocerebral Traumas.

- 25-4153 N A Study of the Pathogenesis of Fat

WSX X-Ray, Medical, Methods

15-3867 N X-Ray Diagnosis of Penetrating Wounds

- WU **Testing/ Measures, Methods**
 - 11-4151 N Continuous Recording of the Ventricular-
 - 14-3893 N Immediate Thoracotomy for Wounds of the
 - 23-4128 S Flail Chest.
 - 24-3890 N Treatment of Traumatic Shock.

 - 24-3896 S The Management of Experimental
 24-3897 S The Nature of Irreversible Shock.
 24-3934 N Oxygen Deficit and Irreversible

 - 24-4020 S Extent and Time of Blood-Loss after
- Physiological, Testing/ Measures, Methods WUP
 - 02-3858 S Results of Cardiac Resuscitation in
 - 24-4510 S Circulatory Effects of Angiotensin,
 - 24-4516 N Shock and Pulmonary Embolism.

Blood Pressure, Physiological, Testing/ WUPD Measures, Methods

- 04-4138 N Automatic Indirect Blood Pressure
- 24-3822 N Fluid Repletion in Circulatory Shock.
- 24-3832 S Central Venous Pressure Monitoring.
- 24-3838 S Rational Approach to Management of 24-3844 S The Mechanism of Shock Following
- 24-3898 N Controlled Hypotension in the Management

Equipment/ Facilities Х

- 01-3886 N Provincial Wide Ambulance Service for
- 01-3906 N The Organization of Emergency Medical
- 01-3925 N The Current Status of Emergency
- 01-3926 N Ambulance Service Transportation or
- 02-3888 N Emergency Resuscitation.
- 03-3900 N Flying Squad.
- 03-3981 S Medical First Aid at the Site of an
- 03-3982 S First Aid at the Accident Site with
- 03-3983 S Experiences with the Cologne Emergency
- 23-3894 N The Management of the Airway and

XK Computers, Equipment

24-3809 N Experience with a Digital Computer 24-3810 N Efficient Monitoring with a Digital

Medical, Equipment XT

- 01-3811 N Opportunity for Community Leadership.
- 01-4096 S Accident and Emergency Services in Dublin.
- 01-4097 S Emergency Medical Service System-Analysis
- 01-4102 S A Survey of Emergency Ambulance Service.
- 01-4186 S Investigations about the Adequacy of
- 02-3820 N Resuscitation: 1966.
- 02-4100 N Minimal Equipment for Ambulances.
- 02-4184 N Death in a Ditch.
- 02-4523 N Contribution to the Therapy of Shock
- 02-4524 N The Physician's Kit for Life-Saving
- 03-3815 N Organization and Function of an Accident
- 03-4525 N Mobile Operating Room and Emergency
- 03-4531 N An Outline of the Mobile Operating Room,

XTG Stretchers, Medical, Equipment

02-3916 N All-Purpose Stretcher Reduces Transfers

XTH Backboards, Medical, Equipment

02-4188 N Vehicle Accidents. Immediate Care to

Resuscitators, Medical, Equipment XTI

02-3807 N The Performance of the Engstrom

- 02-3808 N Oxygen Concentrations Achieved with
- 13-3712 S Treatment of Flail Chest Injuries with
- XTJ Aspirators, Medical, Equipment

02-3874 N Ambulance Design and Equipment for

Oxygen Supply, Medical, Equipment XTK

02-3874 N Ambulance Design and Equipment for

22-3947 S Severe Craniocerebral Trauma and

23-3875 S Rate of Lung Collapse after Airway

24-3940 S The Effect of Hyperbaric Oxygenation (OHP)

XTL Airway Maintenance, Medical, Equipment

02-3807 N The Performance of the Engstrom

22-4521 S Mortality in Head Injuries.

YCB Research, Nature of Program, Program-Report Type

- 01-3857 S Control of Accidents in Rural Areas.
- 14-3828 S Traumatic Rupture of Aorta.
- 18-4003 N Research on Accidental Trauma in the
- 24-3809 N Experience with a Digital Computer
- 24-3810 N Efficient Monitoring with a Digital

YCC State-of-the-Art, Nature of Program, Program-Report Type

- 01-4120 S Medical Aspects of Automotive Crash
- 02-3762 N Urgency of Accident Injury Care.
- 11-3742 S Permanent Brain Injuries Following
- 11-3752 N The Secondary Morphological Brain
- 11-3784 N The Management of Head Injuries
- 11-3932 S Disability Arising from Closed Head 11-3964 N On First Aid in Very Severe Craniocerebral
- 11-4086 S Brain Concussion.

150

- 13-3753 N Contribution to Traumatic Bronchial
- 13-3783 N Nonpenetrating Chest Trauma in Adults.
- 14-3876 N Stab Wound of the Heart with Tamponade
- 15-3826 N Surgical Management of Traumatic

- 15-3827 N Delaved Rupture of the Spleen.
- 15-3879 S Liver Injuries in Northern Ireland.
- 15-3908 S Injury of the Superior Mesenteric Vessels
- 15-4044 S Lesions of the Spleen in Closed and
- 15-4051 S Lesions Associated with Closed Liver
- 154082 S Nonpenetrating Wounds of the Abdomen.
- 15-4198 S Delayed Splenic Rupture.
- 17-3863 N Closed Traumatic Rupture of Common
- 21-3757 N Death from Pulmonary Embolism (II). 21-4115 S The Basic Surgery of Major Road Injuries.
- 22-4521 S Mortality in Head Injuries.
- 23-3729 S Traffic Accidents and Aspiration Death.
- 23-3754 S First Treatment of the Complications
- 24-3755 N Traumatic and Postoperative Shock.
- 24-3952 N Blood Loss In Trauma.
- 24-3954 N Hemorrhagic Shock and the Nervous System. 24-3968 N Traumatic Shock.
- 25-3730 N Diagnosis and Treatment of Fat Embolism.
- 25-3756 N On the Treatment of Fat Embolism.
- 25-3927 N Traumatic Pulmonary Fat Embolism.
- 31-3831 N A Review of the Literature on Burns
- 31-3877 N A Review of the Literature on Burns
- 31-3910 N A Review of the Literature on Burns

Survey, Nature of Program, Program-YCD Report Type

- 01-2592 S Traffic Injury In Brisbane.
- 01-3805 S The Toll of the Road.
- 01-3818 S Yale Studies in Ambulatory Medical
- 01-3821 S 50.000 Child-Years of Accidental
- 01-3834 N Present Status of Ambulance Service in
- 01-3853 N Emergency Medical Services in the
- 01-3862 S An Analysis on 2,418 Emergency Room
- 01-3918 S Traffic Deaths. 01-3956 N The Trauma Patient vs. Emergency Care.
- 01-4024 S Ambulance Services and Traffic
- 01-4097 S Emergency Medical Service System-Analysis
- 01-4102 S A Survey of Emergency Ambulance Service.
- 01-4175 S Ambulance Service in Seattle.
- 01-4186 S Investigations About the Adequacy of
- 01-4194 N Pilot Study on Traffic Accidents.
- 01-4529 S Changes in Traffic Accident Injuries
- 04-4178 N Patrolling the Roads with Aircraft.
- 13-3836 N Traumatic Thoracic Aortic Aneurysms.
- 24-3838 S Rational Approach to Management of
- YCF Systems Study, Nature of Program, Program-Report Type
 - 01-3948 S Analysis of Admissions to a Casualty
 - 03-3715 S Possibilities for Intensifying First

Laboratory Experiment, Nature of Program, YCG **Program**-Report Type

11-3741 N Pulmonary and Enteral Complications 11-3923 N Intracerebral Vascular Lesions Following 13-4129 N Mechanisms of Pulmonary Trauma.

22-4143 S The Etiology of Acute Brain Swelling

23-3875 S Rate of Lung Collapse After Airway

24-3770 N Massive Liver Injury and Shock.

14-4165 N Homograft Patch Repair of Bullet Wounds

02-3807 N The Performance of the Engstrom 02-3808 N Oxygen Concentrations Achieved with

- 24-3796 S The Effect of Digitalization in
- 24-3896 S The Management of Experimental Endotoxin
- 24-3897 S The Nature of Irreversible Shock.
- 24-3934 N Oxygen Deficit and Irreversible
- 24-3935 S Survival Time in Different Types of
- 24-3940 S The Effect of Hyperbaric Oxygenation (OHP)
- 24-3954 N Hemorrhagic Shock and the Nervous
- 25-3787 S Hemorrhagic Shock and Fat Embolism.
- 25-3791 S Experimental Arterial Fat Embolism.
- 25-3946 S Fat Embolism. 25-4025 N Studies on the Genesis of Posttraumatic
- 25-4153 N A Study of the Pathogenesis of Fat

YCH Field Experiment, Nature of Program, Program-Report Type

- 02-3874 N Ambulance Design and Equipment for
- 24-3804 S Acute Pharmacodynamic Effects of
- 25-3786 S The Effect of Sublingual Potassium
- 25-3787 S Hemorrhagic Shock and Fat Embolism.

YCJ Future/ Projection, Nature of Program, Program-Report Type

01-3919 N Accident and Emergency Services in Dublin.

Case Study, Nature of Program, Program-YCK Report Type 01-4015 N The Accident Surgery of Motorways. 02-3718 N Of 153 Attempted-Cardiopulmonary 02-3740 S Clinical and Morphological Findings in 02-3764 N Findings in Temporary Resuscitation 02-4041 N Fatal Hemorrhage During Tracheotomy. 02-4078 N Cardiopulmonary Resuscitation at a 02-4127 N The Management of Multiple Injury 03-3714 S First Aid at Scene of Accident and 03-3743 S Skull Injuries as Seen by the Physician 03-3978 S The Mobile Operation Room of the 03-3980 S Medical Aid on the Site of Accident. 03-4090 S Treatment by Physician of the Severely 04-4173 N The Use of the Helicopter as a Means 11-3854 S Rehabilitation after Head Injury. 11-3880 S The Long-Term Prognosis of Severe Head 12-3771 N Emergency Management of Cervical Spine 12-3803 N Diaphragmatic Respiration. 12-3839 N Immediate Management of Laryngeal and 12-4006 S Injuries of the Larynx and Cervical 12-4105 N Seat-Belt Fractures of the Spine and 12-4167 N The Early Diagnosis of Cervical Cord 12-4538 N The Neurological Syndromes in Injuries 13-3753 N Contribution to Traumatic Bronchial 13-3841 S Classification of Chest Injuries as an 13-3895 N Traumatic Closed Rupture of the 13-3936 S Current Treatment of Acute Thoracic 13-3999 N Closed Traumatic Rupture of the Diaphragm. 13-4056 N Thoracic Injuries in Children. 13-4067 N Thoracic Injuries. 13-4091 N Late Rupture of the Esophagus after 13-4130 N Rupture of the Right Hemidiaphragm due 14-3716 N Rupture of the Thoracic Aorta due to Closed-14-3766 S Symptoms and Therapy of Rupture of the 14-3861 N Successful Surgical Management of Through-14-3892 N Nonpenetrating Traumatic Rupture of the 14-3893 N Immediate Thoracotomy for Wounds of the

- 14-3942 N Deceleration Injuries of Heart and Lung.
- 14-4048 N Acute Traumatic Rupture of the Thoracic
- 14-4059 S Aortic Rupture in Blunt Thoracic Traumas.
- 14-4157 S Further Observations on Penetrating Wounds
- 14-4165 N Homograft Patch Repair of Bullet Wounds
- 15-3772 S Report on 41 Cases of Rupture of the Spleen.
- 15-3823 N Traumatic Rupture of the Spleen.
- 15-3827 N Delayed Rupture of the Spleen.
- 15-3842 S Injuries of the Kidney.
- 15-3860 N Complete Division of the Common Bile Duct
- 15-3881 N Injury Produced by Seat Belts.
- 15-3899 N A Pattern of Severe Blunt Trauma to
- 15-3902 N Traumatic Injuries to the Biliary System
- 15-3908 S Injury of the Superior Mesenteric Vessels
- 15-3929 N Seat-Belt Hernia.
- 15-4101 N The Seat Belt Syndrome.
- 15-4103 N Intra-Abdominal Injuries Caused by
- 15-4132 N The Automotive Safety Belt.
- 15-4198 S Delayed Splenic Rupture.
- 16-3789 S Central Acetabular Fractures.
- 16-4085 S Complicated Pelvic Fractures.
- 17-3847 S The Recognition and Management of
- 17-3863 N Closed Traumatic Rupture of Common
- 17-3901 N Management of Fracture with Vascular
- 17-4013 N Thromboembolic Complications of
- 17-4071 S Arterial Injuries in Civilian Practice.
- 18-3835 N Agricultural Tractor Accidents.
- 18-4007 S The Seat Belt Syndrome.
- 22-4098 S Acute Cranial Trauma.
- 23-3883 N Emergency Management of Facial Fractures
- 23-3889 S Airway Foreign Body Fatalities in
- 23-4046 N Combined Renal and Respiratory Failure
- 24-3755 N Traumatic and Postoperative Shock.
- 24-3838 S Rational Approach to Management of
- 24-3898 N Controlled Hypotension in the Management
- 24-4043 N Penetrating Injuries of the Subclavian
- 24-4112 N Metabolic Responses to Injury.
- 25-3759 N Experiences with the Preparation
- 25-3773 S Fat Embolism.
- 25-3775 N Acute Peptic Ulceration and Cerebral
- 25-3927 N Traumatic Pulmonary Fat Embolism.
- 25-4049 N Treatment of Fat Embolism Complicating
- 25-4094 N Fat Embolism.

YCL Evaluation/ Effectiveness, Nature of Program, Program-Report Type 14-4509 S Missiles in the Heart.

Proceedings, Contents, Program-Report YEB Type 03-3704 N Proceedings of the Symposium of

YEC Bibliography, Contents, Program-Report Type

- 15-3801 S Injuries of the Liver in 300
- 15-3908 S Injury of the Superior Mesenteric Vessels
- 21-3757 N Death from Pulmonary Embolism (II).
- 31-2631 N Traffic Accidents Medical Bibliography,
- 31-3877 N A Review of the Literature on Burns
- 31-3910 N A Review of the Literature on Burns

YED Abstracts, Contents, Program-Report Type 03-3704 N Proceedings of the Symposium of Reviews, Contents, Program-Report Type YEE 11-3747 S Traumatic Cerebral Hemorrhages in 15-3826 N Surgical Management of Traumatic 31-3831 N A Review of the Literature on Burns 31-3877 N A Review of the Literature on Burns YEF Data Statistics, Contents, Program-Report Type 01-3726 S Injuries in Traffic Accidents. 01-3749 S Traffic Accidents as Viewed by the The Significance of Trauma Records for 01-3751 S 01-3805 S The Toll of the Road. Utilization of Ambulance Services in a 01-3824 S An Analysis of 2,418 Emergency Room 01-3862 S 01-3918 S Traffic Deaths. 01-3941 S The Stages of Development and the 01-4024 S Ambulance Services and Traffic Casualties. 01-4096 S Accident and Emergency Services in Dublin. 01-4097 S Emergency Medical Service System-Analysis 01-4114 S One Year's Experience in the Anesthetic 01-4120 S Medical Aspects of Automotive Crash 01-4175 S Ambulance Service in Seattle. 01-4529 S Changes in Traffic Accident Injuries 02-3718 S Of 153 Attempted-Cardiopulmonary 02-3748 S Possibilities and Limitations of Medical 02-3774 S Cardiac Arrest. 02-3858 S Results of Cardiac Resuscitation in 254 02-3905 S Closed-Chest Cardiac Massage for 02-3949 S Mouth-To-Mouth Resuscitation in Norway. 02-3995 S On Time Relations Between the Accidents 02-4145 S Cardiac Resuscitation. 02-4185 S Organization and Scope of Highway First 03-3714 S First Aid at Scene of Accident and First 03-3715 S Possibilities for Intensifying First The Outcome of the Cerebrocranial Injury 03-3744 S 03-3961 S Experience about Medical Aid at the Scene 03-3978 S The Mobile Operation Room of the 03-3979 S Anesthesia and Intubation at the Site 03-3980 S Medical Aid on the Site of Accident. 03-4090 S Treatment by Physician of the Severely 03-4539 S Report on a Clinomobile. Aerial Transport of the Sick and Injured. 04-4177 S Special Circulatory Reactions in the 11-3738 S 11-3741 S Pulmonary and Enteral Complications 11-3746 S The Acute, Subacute and Chronic Subdural 11-3747 S Traumatic Cerebral Hemorrhages in Childhood. 11-3760 S Cranio-Cerebral Injuries in Hospital 11-3761 S **Clinical and Statistical Considerations** 11-3792 S Causes of Shock with Head Injury. 11-3880 S The Long-Term Prognosis of Severe Head 11-3884 S Treatment of the Patient with Acute Head 11-3922 S Analysis of 1,400 Cases of Acute Injury 11-3932 S Disability Arising from Closed Head Injury. 11-3933 S Head Injuries in a Peripheral Hospital. 11-3938 S Head Injuries in Children. 11-3960 S Late Posttraumatic Headache. 11-3963 S Craniocerebral Trauma. 11-3966 S Diagnosis and Treatment of Epidural

11-4042 S The Repair of Dural Defects by Graft. 11-4063 S The Evaluation and Therapy of Skull 11-4086 S Brain Concussion. 11-4092 S Statistical and Therapeutic Considerations 11-4104 S The Management of Skeletal Fractures 11-4107 S Severe Head Injuries in Children. 11-4108 S Associated Injuries in Head Injured 11-4124 S Extradural Haematoma. 11-4166 S On the Differential Diagnosis of Permanent 11-4502 S Acute Head Injury. 11-4536 S Clinical Experiences in the Neurosurgical 11-4537 S Findings in 1000 Brain-Injured Persons 11-4540 S Acute, Subacute, and Chronic Subdural 12-3702 S Arterial Injuries of the Base of the 12-3843 S Impairment of Respiration after Spinal Cervical Spine Cineradiography after 12-4001 S 12-4006 S Injuries of the Larynx and Cervical 12-4039 S Survival of Patients with Injuries of 12-4514 S On the Treatment of Spinal Cord Injury. 12-4515 S Life Expectancy, Survival Rates, and 13-3712 S Treatment of Flail Chest Injuries with 13-3798 S Thoracic Trauma 13-3864 S Crushed Chest Injury. 13-3907 S Traumatic Hemothorax. 13-3912 S Treatment of Penetrating Wounds of the 13-3936 S Current Treatment of Acute Thoracic 13-4045 S Chest Trauma with Pneumothorax and 13-4072 S Analysis of Factors Affecting Survival 13-4081 S Apropos of 268 Closed Chest Injuries. 13-4160 S Penetrating Injuries to the Chest. 13-4161 S Severe Non–Penetrating Injuries to the 13-4163 S Twenty-One Years of Thoracic Injuries. 13-4518 S Thoracic Injuries Due to Blunt Trauma. 13-4526 S Chest Injuries in Traffic Accidents. 14-3717 S Penetrating Cardiac Injuries. Symptoms and Therapy of Rupture of the 14-3766 S Ten Years' Experience with Penetrating Traumatic Rupture of Aorta. 14-3776 S 14-3828 S 14-3829 S Penetrating Wounds of the Pericardium 14-3830 S Penetrating Wounds of the Heart. 14-4029 S Penetrating Wounds of the Aorta. 14-4040 S Cardiac Wounds. 14-4083 S Penetrating Wounds of the Heart and 14-4157 S Further Observations on Penetrating 14-4158 S Gunshot Wounds of the Heart. 14-4509 S Missiles in the Heart. 14-4527 S Traumatic Aortic Rupture in Traffic Accidents. 14-4528 S Traumatic Aortic Rupture. 15-3701 S Surgical Management of Splenic Injuries. 15-3706 S Management of Liver Trauma in 259 15-3709 S A Five-Year Survey of 152 Acute Abdominal Closed Abdominal Injuries. 15-3720 S 15-3750 S Blunt Abdominal Injuries in Childhood. 15-3785 S Penal Trauma. Management of Shotgun Injuries. 15-3797 S 15-3799 S Early Surgical Treatment of Abdominal Injuries of the Liver in 300 Consecutive 15-3801 S 15-3819 S Pancreatic Trauma. 15-3825 S Stab Wounds of the Abdomen. 15-3842 S Injuries of the Kidney.

15-3866 S Nonpenetrating Injuries of Abdomen

15-3879 S Liver Injuries in Northern Ireland.

11-4002 S The Comatose Injured Patient.

15-3891 S Surgical Experience with 103 Truncal 15-3914 S Perforating Injury of the Small 15-3915 S Blunt Abdominal Trauma. 15-3967 S Special Features of Blunt Abdominal 15-3991 S Blunt Abdominal Trauma. 154005 S Analysis of 500 Stab Wounds of the Civilian Penetrating Wounds of the 15-4022 S 15-4028 S Surgical Considerations of Non-Penetrating 15-4044 S Lesions of the Spleen in Closed and Open 15-4047 S Closed Abdominal Injuries. 15-4051 S Lesions Associated with Closed Liver 15-4054 S Blunt Abdominal Trauma. 15-4106 S Unrecognized Abdominal Trauma in Patients 15-4126 S Injuries of the Liver. 15-4131 S The Surgical Management of Pancreatic 15-4144 S Pancreatic Trauma. 15-4146 S Penetrating Wounds of the Abdomen. 15-4196 S Abdominal Trauma. Delayed Splenic Rupture. 15-4198 S 15-4506 S Closed Injury of the Liver. Complications Associated with Fractures of 16-3790 S 16-4064 S Pelvic Fractures. 16-4149 S Major Abdominal Injuries Associated with 17-3707 S Arterial Complications of Closed Injuries 17-3708 S The Management of Civilian Arterial Injuries. Primary Prothetic Replacement in Fresh 17-3788 S 17-3847 S The Recognition and Management of 17-3917 S Fractures of the Shaft of the Femur Shaft Fractures of the Femur. 17-3921 S 17-3937 S Conservative Treatment of Ankle Fractures. 17-3944 S Deep Venous Thrombosis Following Fractures 17-3965 S Over-All Statistical Study of 216 Cases of 17-4071 S Arterial Injuries in Civilian Practice. Arterial Repair During the Korean War. 17-4197 S 18-3802 S Pedestrian Deaths in Öslo Traffic 18-4133 S The Annual Injury of 15,000,000 Children. 21-3758 S Early Electrocardiographic Observations in 21-3882 S The Pathology of Pedestrian Automotive 21-3959 S On the Initial Treatment of Acute Traumatic 21-4115 S The Basic Surgery of Major Road Injuries. 21-4119 S Fatal Traffic Accidents in Brisbane from 21-4134 S The Incidence of Morbid-Anatomical 21-4164 S Fatal Pulmonary Embolism. 21-4169 S A Study of Pulmonary Embolism. 21-4504 S Died in Hospital. 21-4519 S A Vena Cava Filter for the Prevention of 22-3728 S Autopsy Findings in 127 Patients following 22-3737 S Report on 5900 Craniocerebral Traumas. 22-3739 S Limits of Resuscitation in Serious Brain 22-3765 S Statistical Data on 400 Cases of Grave 22-3769 S Factors Influencing Mortality in Head 22-3939 S Extradural Hematoma. 22-3947 S Severe Craniocerebral Trauma and 22-3953 S Autopsy Findings in Head Injuries from 22-4500 S Factors in the Mortality of Closed Head Autopsy Findings in Head Injuries from 22-4517 S 22-4521 S Mortality in Head Injuries. 23-3754 S First Treatment of the Complications of 23-3763 S The Significance of Aspiration of Blood 23-3767 S Deaths Causes in Recent Thoracic Injuries. 23-3768 S The Aspiration in Victims of Traffic 23-3806 S Inhaled Foreign Bodies in Children.

23-3976 S The Fatal Traffic Accident from the

23-4123 S Air Way Foreign Bodies. 23-4128 S Flail Chest. 24-3713 S An Analysis of 827 Cases of Fatal Acute Pharmacodynamic Effects of 24-3804 S Rational Approach to Management of 24-3838 S 24-3844 S The Mechanism of Shock Following Suicidal 24-3897 S The Nature of Irreversible Shock. 24-3903 S Metabolic Changes Associated with 24-3940 S The Effect of Hyperbaric Oxygenation (OHP) 24-4014 S Patterns of Thoracic Injuries in Fatal 24-4156 S A Clinical Study of Shock Occurring 24-4195 S A Survey of Evacuation, Resuscitation, On Serial Rib Fractures Caused by Traffic 24-4513 S 25-3703 S The Clinical Significance of Traumatic 25-3705 S An Analysis of 950 Fatal Injuries. 25-3721 S Fat Embolism in Fatal Automobile Accidents. Mortality Related to Various Methods 25-3724 S 25-3773 S Fat Embolism. The Effect of Sublingual Potassium 25-3786 S 25-3787 S Hemorrhagic Shock and Fat Embolism. 25-3791 S Experimental Arterial Fat Embolism. 25-3971 S On Pulmonary Fat Embolism after Injuries

25-4168 S Studies on the Frequency of Cerebral Fat 25-4534 S Cause of Death in Traumatized Patients.

YEG Tables/ Graphs, Contents, Program-Report Type

- 01-2592 S Traffic Injury in Brisbane.
- 01-3726 S Injuries in Traffic Accidents.
- 01-3821 S 50,000 Child-Years of Accidental
- 01-3824 S Utilization of Ambulance Services in a
- 02-3807 N The Performance of the Engstrom
- 13-3794 S Effect of Chest Trauma upon Respiratory
- 24-3838 S Rational Approach to Management of
- 24-3844 S The Mechanism of Shock Following Suicidal
- 24-3897 S The Nature of Irreversible Shock.
- 24-3934 N Oxygen Deficit and Irreversible Hemorrhagic
- 24-4112 N Metabolic Responses to Injury.
- 25-3722 S Fat Embolism Studied in 100 Patients

YEH Diagrams/ Plans, Contents, Program-Report Type

- 02-3814 N Early Management of the Critically
- 22-3765 S Statistical Data on 400 Cases of Grave

YEI Photographs/ Illustrations, Contents, Program-Report Type 03-4337 S Road Accidents.

- YEK Law/ Code/ Statute, Contents, Program-
 - **Report Type** 15-3772 S Report on 41 Cases of Rupture of the

YEN Standards, Contents, Program-Report Type 02-4100 N Minimal Equipment for Ambulances. 02-4191 N Standards for Emergency Ambulance

YER General Discussions, Contents, Program-Report Type

- 01-3811 N Opportunity for Community Leadership.
- 01-3816 N The Organization of an Efficient Accident

01-3925 N The Current Status of Emergency Treatment

01-3926 N Ambulance Service Transportation or

01-4183 N Combat Casualty Management in Vietnam.

02-3814 N Early Management of the Critically Injured.

- 02-3856 N Ten Musts of a Skilled and Ready Ambulance
- 02-3872 N Management of Spinal Injuries with 02-4019 N Early Medical Treatment of Cases of
- 02-4023 N The Interest of Organized Medicine in
- 02-4030 N Tracheostomy. An Underrated Surgical
- 02-4152 N Resuscitation after Multiple Injuries.
- 02-4170 N Disaster First Aid. Part 1.

03-3961 S Experience about Medical Aid at the Scene 03-4337 S Road Accidents.

- 04-4018 N Some Problems Encountered in the Aerial
- 04-4021 N Medical Criteria for Passenger Flying.

04-4135 N Medical Criteria for Passenger Flying on

04-4136 N The Patient in Commercial Jet Aircraft.

- 04-4139 N Aerial Medical Evacuation with Special
- 04-4174 N Canadian Air Ambulance Service Answers
- 11-4199 N Acute Craniocerebral Trauma.
- 13-4520 N Traumatic Nonpenetrating Lung Contusion.
- 14-3846 S Gunshot Wounds of the Heart.
- 15-3865 N The Mechanism of Acute Renal Failure
- 15-3867 N X-Ray Diagnosis of Penetrating Wounds
- 17-3930 S Orthopedic Problems in Agricultural
- 21-3924 N The Autopsy as Research.
- 22-4503 N Care of the Severely Injured Patient.
- 23-3812 N Foreign Bodies in the Tracheobronchial
- 23-3894 N The Management of the Airway and Ventilation
- 24-3822 N Fluid Repletion in Circulatory Shock.
- 24-3832 S Central Venous Pressure Monitoring.
- 24-3952 N Blood Loss in Trauma.
- 24-4516 N Shock and Pulmonary Embolism.
- 25-4025 N Studies on the Genesis of Posttraumatic