New Fellow Orientation For The Department of Psychiatry

Rosenzweig, Merle

http://hdl.handle.net/2027.42/92476
Clinical and Research Resources at the University of Michigan

Merle Rosenzweig
Liaison Librarian to the Department of Psychiatry & the Depression Center
oriley@umich.edu
What Will Be Covered

• Intro
• Quick Tour
• Services
• Clinical Tools
• Research Resources
• There’s an app for that...
• Questions?
Taubman Health Sciences Library

• Access resources from the Clinical Homepage
  – http://www.med.umich.edu/clinical/

• Additional resources from the Library Website
  – http://www.lib.umich.edu/thl

• Research Guide for Psychiatry
  – http://guides.lib.umich.edu/psychiatry

• Services
  – Interlibrary Loan → When we don ’t have it
  – 7-FAST (document delivery) → When you want it scanned & sent
  – Liaison Services → When you need some help
http://www.med.umich.edu/clinical/
ACCESS OFF CAMPUS

LEVEL 1 KERBEROS

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Clinical Tools

• Point-of-Care resources
• Clinical guidelines
• E-book resources
• Drug databases
• Patient education
Point-of-Care Resources
<table>
<thead>
<tr>
<th>Description</th>
<th>UptoDate</th>
<th>Dynamed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updated</td>
<td>3 times per year</td>
<td>Daily</td>
</tr>
<tr>
<td>Content</td>
<td>More comprehensive: 7,000 topics</td>
<td>Less comprehensive: 3,200 topics</td>
</tr>
<tr>
<td>Access off campus</td>
<td>No; prohibitively expensive</td>
<td>Yes</td>
</tr>
<tr>
<td>Targeted Audience</td>
<td>Internal Medicine Pract.</td>
<td>Primary Care Providers</td>
</tr>
<tr>
<td>Authors</td>
<td>Subject Experts</td>
<td>Predominantly family practice physicians</td>
</tr>
<tr>
<td>Unique features</td>
<td>Links to LexiComp Drug database</td>
<td>Contains ICD codes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Links to primary literature</td>
</tr>
<tr>
<td>Evidence Based Medicine</td>
<td>Topic reviews from subject experts evaluated by physician editors for</td>
<td>Conclusions based on evidence systematically identified, selected and</td>
</tr>
<tr>
<td></td>
<td>accuracy, completeness and beginning to grade for evidence.</td>
<td>evaluated from the literature</td>
</tr>
<tr>
<td>Levels of Evidence</td>
<td>Very few graded for EBM</td>
<td>Yes, in descending order</td>
</tr>
<tr>
<td>Graphics</td>
<td>Yes, illustrated</td>
<td>No</td>
</tr>
<tr>
<td>CME</td>
<td>If accessed through EMR</td>
<td>No</td>
</tr>
<tr>
<td>Major Criticism</td>
<td>Cost</td>
<td>Expertise of authors</td>
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<tr>
<td>Major Advantages</td>
<td>Authoritative</td>
<td>Off campus access</td>
</tr>
<tr>
<td>Model</td>
<td>Physicians preference</td>
<td>Daily Update</td>
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<tr>
<td>Marketed to</td>
<td>Physicians</td>
<td>Librarians</td>
</tr>
<tr>
<td>Format</td>
<td>Narrative</td>
<td>Bulletin List</td>
</tr>
<tr>
<td>Journals monitored</td>
<td>430</td>
<td>500</td>
</tr>
<tr>
<td>Both products</td>
<td>Point of Care clinical decision support systems</td>
<td></td>
</tr>
<tr>
<td>Knowledge management</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fast, accurate, unbiased and valid</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peer reviewed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provide patient handouts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Compatible for hand held / mobile devices</td>
<td></td>
</tr>
<tr>
<td>Similar Resources</td>
<td>ACP’s Prier, eMedicine, Clinical Evidence, First Consult, BMJ’s Point of</td>
<td>Zynx Evidence</td>
</tr>
</tbody>
</table>
Practice-Changing DynaMed Updates

What are Practice-Changing DynaMed Updates?
- DynaMed is updated daily through a 7-step evidence-based method for systematic literature surveillance so clinicians can find the best available evidence at the point of care. DynaMed topics provide synthesized summaries interpreting new evidence with existing evidence to directly answer most clinical questions in a quick, efficient, and consistent manner.
- The Recent Updates page provides a view of the new relevant articles added to DynaMed summaries and can be customized to find the articles of greatest personal interest. Recent Updates can be customized by:
  - Category—allowing for example a dermatologist to limit searches to Dermatology content, or a public health officer to limit searches to Prevention and Screening.
  - Practice-Changing—allowing narrowing of search results to the articles most relevant for changing clinical practice.

Creating Personal Alerts:
- DynaMed users can set personal alerts to be notified when Recent Updates meeting customized criteria occur. So you can be notified immediately when new evidence warrants a change in your practice occurs.
- To create an alert:
  - Go to the Recent Updates page.
  - Customize the alerting function by selecting from Limit by Category and/or checking the box labeled Practice-Changing Updates only.
  - Click the event icon (ringing bell) in the “Date” section on the right-hand columns.
  - Select frequency for receiving alerts. (Initially “Once a day” is the only option. This fall we will add “Once a week” and “Once a month”)
  - Add your e-mail address.
  - Click “Create Alert.”
  - Follow the instructions in your e-mail to confirm you want to receive these alerts.

McMaster University Partnership:
- McMaster University and EBSCO Publishing have partnered to create a system to identify practice-changing DynaMed updates.
- For most DynaMed updates, the rating process is comprised in partnership with McMaster University, here is how the process works:
  1. DynaMed editors identify, select, appraise and summarize the most valid evidence for clinically relevant concepts using the DynaMed Systematic Literature Surveillance process.
  2. Independently from the DynaMed Systematic Literature Surveillance process, the McMaster University Health Information Research Unit systematically monitors 120 journals, critically appraises research articles and selects articles that are methodologically sound.
  3. The McMaster Online Rating of Evidence (MORE) system includes about 4,000 practicing physicians from 64 disciplines in more than 160 countries. Over 1,300 MORE raters who are also DynaMed users rate articles selected by both the DynaMed and McMaster processes according to their relevance for use in DynaMed.
- Most articles selected from the McMaster process are also selected from the DynaMed process. For potentially critically important articles not covered by the McMaster process (for example, unpublished reports such as FDA MedWatch alerts) or for more rapid rating, DynaMed will accelerate ratings by discipline-specific DynaMed editors, reviewers and contributors in clinical practice.

Faculty of 1000 (F1000) Partnership:
- F1000 and EBSCO Publishing have partnered to enhance the system to identify practice-changing DynaMed updates.
- F1000 is an international network of 10,000 experts who select and evaluate the most important biology and medicine articles published.
- Clinicians in the F1000 Faculty (2,200 medical experts) identify articles that Change Clinical Practice based on direct instruction to a clinician, immediate implementability, and backed-up by supporting references without needing validation by other studies.
- Articles highlighted as Changing Clinical Practice in F1000 are matched to article summaries in DynaMed and coded as practice-changing updates, thus expanding the network for identifying the practice-changing updates that occur across DynaMed.
<table>
<thead>
<tr>
<th>Topic</th>
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<th>Date</th>
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<tbody>
<tr>
<td>Hepatitis C</td>
<td>prophylactic escitalopram appears to reduce incidence of peginterferon alfa-2a-associated depression in patients with chronic hepatitis C (Ann Intern Med 2012 Jul 17)</td>
<td>08/02/02:11:14:00 AM</td>
</tr>
<tr>
<td>Peginterferon Alfa</td>
<td>prophylactic escitalopram appears to reduce incidence of peginterferon alfa-2a-associated depression in patients with chronic hepatitis C (Ann Intern Med 2012 Jul 17)</td>
<td>08/02/02:11:14:00 AM</td>
</tr>
<tr>
<td>Alcohol use disorder</td>
<td>therapist-delivered brief intervention in emergency department for adolescents with prior alcohol misuse and aggression may reduce alcohol consequences for 6 months and violence consequences for 1 year (Pediatrics 2012 Jun)</td>
<td>07/31/02:07:30:00 AM</td>
</tr>
<tr>
<td>Depression - differential diagnosis</td>
<td>MTC guideline on primary care diagnosis and management of adults with depression (National Guideline Clearinghouse 2012 Jul 23)</td>
<td>07/25/02:02:26:00 AM</td>
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<tr>
<td>Vitamin D Intake and supplementation</td>
<td>vitamin D plus calcium supplementation may not reduce depressive symptoms in postmenopausal women (Am J Epid 2012 Jul 1)</td>
<td>07/25/02:11:48:00 AM</td>
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<tr>
<td>Erectile dysfunction</td>
<td>FDA warns consumers not to consume X-ROCK 3 Day Pill For Men and 2-ROCK products (FDA MedWatch 2012 Jul 14)</td>
<td>07/25/02:10:12:00 AM</td>
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<tr>
<td>Delirium</td>
<td>nonpharmacological intervention may prevent delirium in hospitalized older patients (Age Ageing 2012 May 15 early online)</td>
<td>07/24/02:09:00:00 AM</td>
</tr>
<tr>
<td>Obstructive sleep apnea (OSA)</td>
<td>Mediterranean diet may reduce apnea-hypopnea index during sleep compared to prosed diet in patients with OSA (Eur Respir J 2012 Jun)</td>
<td>07/23/02:05:19:00 AM</td>
</tr>
<tr>
<td>Dementia evaluation</td>
<td>incidence varies with diagnostic criteria used and cohort studied (Lancet 2012 Jul 7)</td>
<td>07/19/02:02:46:00 PM</td>
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<tr>
<td>Delirium</td>
<td>postoperative development of delirium associated with cognitive decline during first year after cardiac surgery (J Am Coll Cardiol 2012 Jul 5)</td>
<td>07/19/02:02:05:00 PM</td>
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<tr>
<td>Depression alternative treatments</td>
<td>music listening may improve depressive symptoms in adults (Complement Ther Med 2011 Dec)</td>
<td>07/19/02:19:56:00 AM</td>
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<tr>
<td>Depression</td>
<td>transcranial direct current stimulation may improve mood in patients with depression (Br J Psychiatry 2012 Jan)</td>
<td>07/19/02:19:41:00 AM</td>
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<tr>
<td>Anorexia nervosa</td>
<td>case report of eating disorder not otherwise specified (J Am Coll Cardiol 2012 Jul 12)</td>
<td>07/17/02:08:24:00 AM</td>
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<tr>
<td>Bulimia</td>
<td>case report of eating disorder not otherwise specified (J Am Coll Cardiol 2012 Jul 12)</td>
<td>07/17/02:08:24:00 AM</td>
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<tr>
<td>Schizophrenia</td>
<td>integrative psychological intervention may delay progression to psychosis compared to supportive counseling in patients with pronoma symptoms (Br J Psychiatry 2012 Jan)</td>
<td>07/16/02:06:28:00 AM</td>
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<tr>
<td>Alzheimer disease</td>
<td>memory clinics may not improve quality of life or caregiver burden compared to care by general practitioner in patients with newly diagnosed mild-to-moderate dementia (BMC 2012 May 13)</td>
<td>07/11/02:09:08:00 PM</td>
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<tr>
<td>Topic</td>
<td>Date</td>
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<tr>
<td>Breast cancer in women</td>
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<tr>
<td>Prostate cancer</td>
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<tr>
<td>Risk factors for breast cancer</td>
<td></td>
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<tr>
<td>Fibromyalgia</td>
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<tr>
<td>Rheumatoid arthritis (RA)</td>
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<tr>
<td>Rheumatoid arthritis (RA) expert consensus (Grupo de Expertos en Rámitis) consensus on use of rituximab in rheumatoid arthritis (Rheumatol Clin 2011 Jan-Feb)</td>
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<tr>
<td>Cytomegalovirus</td>
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<tr>
<td>Combination therapies for rheumatoid arthritis</td>
<td></td>
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<tr>
<td>Decision rules for computed tomography in head injury in adults</td>
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<tr>
<td>Endometrial adenocarcinoma</td>
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<tr>
<td>Complicated pregnancy</td>
<td></td>
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<tr>
<td>Pneumonia in adults</td>
<td></td>
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<tr>
<td>Elbow dislocation</td>
<td></td>
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<tr>
<td>Hypercholesterolemia</td>
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<tr>
<td>HIV infection</td>
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</tbody>
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- and physical activity during and after cancer treatment include cautions about exercise (CA Cancer J Clin 2013 Jul)
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<td>07/30/2012 07:33 AM</td>
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<tr>
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<td>MQC guideline on primary care diagnosis and management of adults with depression (National Guideline Clearinghouse 2012 Jul 23)</td>
<td>07/25/2012 02:25 PM</td>
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<td>07/25/2012 11:48 AM</td>
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<tr>
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<td>07/25/2012 10:12 AM</td>
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<td>07/23/2012 05:19 AM</td>
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<td>07/19/2012 02:46 PM</td>
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<td>Delirium</td>
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<td>07/19/2012 02:03 PM</td>
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<td>music listening may improve depressive symptoms in adults (Complement Ther Med 2011 Dec)</td>
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<td>transcranial direct current stimulation may improve mood in patients with depression (Br J Psychiatry 2012 Jan)</td>
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<td>Schizophrenia</td>
<td>integrated psychological intervention may delay progression to psychosis compared to supportive counseling in patients with prodromal symptoms (Br J Psychiatry 2012 Jan)</td>
<td>07/16/2012 05:28 AM</td>
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<td>Alzheimer disease</td>
<td>memory clinics may not improve quality of life or caregiver burden compared to care by general practitioner in patients with newly diagnosed mild-to-moderate dementia (BMJ 2012 May 15)</td>
<td>07/11/2012 09:38 AM</td>
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</table>
Dementia evaluation

- Updated 2012 Jul 19 02:46:01 PM. Incidence varies with diagnostic criteria used and cohort studied (Lancet 2013 Jul 7) View more updates

Related Summaries:
- Mild cognitive impairment
- Alzheimer disease
- Vascular dementia
- Fronto-temporal dementia
- Normal-pressure hydrocephalus (NPH)

Overview:
- Diagnosis of dementia based on decline in memory and cognitive abilities significant enough to interfere with ability to perform activities of daily living
- Common causes of dementia include neurodegenerative causes (such as Alzheimer disease) and vascular dementia
- Potentially reversible causes of impaired cognitive function include depression, delirium, seizures, infections, metabolic abnormalities, brain insults, and medication
- Diagnostic evaluation
  - Begin with history and physical to identify any potentially reversible cause
  - Obtain additional clinical history from independent informant when available
- Functional assessment should include:
  - Standardized cognitive assessments (EPIS Level A)
  - Assessment of activities of daily living (EPIS Level A)
  - Behavioral and psychological assessment to check for depression and psychosis (EPIS Level A)
  - Blood tests recommended for most patients include complete blood count, electrolytes, glucose, calcium, renal function tests, liver function tests, thyroid stimulating hormone, vitamin B12, folate, erythrocyte sedimentation rate (EPIS Good Practice Point)
  - Cerebral imaging (computed tomography [CT] or magnetic resonance imaging [MRI]) recommended for most patients (EPIS Level A)
- Diagnosis of dementia is not synonymous with mental incapacity
  - Determination of decision-making capacity should involve evaluation of patient's current functional status to perform specific task required (EPIS Good Practice Point)
- Clinical Dementia Rating scale considered useful for identifying patients at increased risk for unsafe driving (AHF Level A)
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Effortless CME

Contents

What’s New

Patient Education

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UpToDate in Psychiatry

The UpToDate faculty is currently developing UpToDate in Psychiatry. Some content for this specialty is already included in UpToDate, with new topics being added to each new release.

All of our topics are written exclusively for UpToDate by physicians for clinicians. Thousands of your colleagues serve as authors, editors, and peer reviewers. Our content is evidence-based, comprehensive, and fully referenced and is subject to an extensive peer review process to ensure that the information and recommendations are accurate and reliable.

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- Contents in Psychiatry
- Educational Objectives in Psychiatry
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- Gastroenterology and Hepatology
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- Nephrology and Hypertension
- Neurology
- Obstetrics, Gynecology, and Women's Health
- Oncology
- Pediatrics
- Practice Changing Updates
- Psychiatry
- Pulmonary, Critical Care, and Sleep Medicine
- Rheumatology
Contents: Calculators

You receive the entire UpToDate library of specialties with your subscription. Click on a section below to view a detailed list of topics associated with that particular section. If you'd like to see the table of contents for other specialties, click here.

- Cardiology calculators
- Critical care calculators
- Emergency med calculators
- Endocrinology calculators
- Gastroenterology and Hepatology calculators
- General surgery calculators

- Hematology calculators
- Hospital medicine calculators
- ID calculators
- Nephrology calculators
- Neurology calculators
- Obstetrics calculators

- Oncology calculators
- Pediatrics calculators
- Primary care calculators
- Pulmonology calculators
- Rheumatology calculators

Patient Information

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Contents: Pediatrics calculators

Clinical Criteria

• Calculator: Apgar Score
• Calculator: Newborn hyperbilirubinemia assessment

Medical Equations

• Calculator: Blood pressure percentiles for boys (2 to 17 years)
• Calculator: Blood pressure percentiles for girls (2 to 17 years)
• Calculator: Body Mass Index (BMI) percentiles for boys (2 to 20 years)
• Calculator: Body Mass Index (BMI) percentiles for girls (2 to 20 years)
• Calculator: Body Surface Area (Mosteller, square root method)
• Calculator: Body mass index for boys (Patient information)
• Calculator: Body mass index for girls (Patient information)
• Calculator: CDC height for age percentiles for boys (2 to 20 years)
• Calculator: CDC height for age percentiles for girls (2 to 20 years)
• Calculator: CDC weight for height percentiles for boys (77 to 121 cm tall)
• Calculator: CDC weight for height percentiles for girls (77 to 121 cm tall)
• Calculator: CDC/NCHS infant head circumference for age percentiles (<36 months)
• Calculator: CDC/NCHS infant length for age percentiles (<36 months)
• Calculator: CDC/NCHS infant weight for age percentiles (<36 months)
PsychiatryOnline


**Off campus**, head to [www.lib.umich.edu/thl](http://www.lib.umich.edu/thl) and search for “psychiatryonline” in the Search box. Click on the link to PsychiatryOnline in the Databases section. You will need to log-in using your Level One/Kerberos username and password.
What is PsychiatryOnline?
PsychiatryOnline is a mobile-friendly, web-based portal that provides instant access to resources

- **DSM® Library titles** including DSM-IV-TR®, DSM-IV-TR® Handbook of Differential Diagnosis, and DSM-IV-TR® Casebook and its Treatment Companion
- **Journals** including The American Journal of Psychiatry, Psychiatric Services, Journal of Neuropsychiatry and Clinical Neurosciences, and Academic Psychiatry
- **American Psychiatric Association Practice Guidelines** for the treatment of psychiatric disorders (quick reference and comprehensive versions)
- **Self-assessment tools** for study, board certification and recertification review, AMA PRA Category 1 Credits™, and lifelong learning
- **Clinical & research news** from Psychiatric News
- **Medication information handouts** for patients
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**DSM® LIBRARY**
- DSM-IV-TR®
- DSM-IV-TR® Handbook of Differential Diagnosis
- DSM Cases
- View entire DSM Library
  (NOW includes previous editions of DSM)

**JOURNALS**
- American Journal of Psychiatry
- Psychiatric Services
- Academic Psychiatry
- Neuropsychiatry & Clinical Neurosciences
- Psychiatric News

**GUIDELINES**

**NEW TEXTBOOK!**

**Textbook of Traumatic Brain Injury, 2nd Edition**

**Clinical & Research News**

**PSYCHIATRY** 19 August 2011
- Psychiatric Services, Integrated Care, and San Francisco
- N.Y. Psychiatrists Recount How Sept. 11 Changed Their Lives

**The Latest Journal Headlines**

**AJP in Advance**—Key articles available in advance of print
- A New Lead From Genetic Studies in Depressed Siblings: Assessing Studies of Chromosome 3
  Steven P. Hamilton, M.D., Ph.D. (From American Journal of Psychiatry)

**Social marketing campaigns to reduce the stigma: five basic principles**
  Patrick W. Corrigan, Psy.D. (From Psychiatric Services)

**Sleep Disturbance After Mild Traumatic Brain Injury: Indicator of Injury?**
  Rac V et al. (From Neurosurgery Clin Neurosurg)

**A Resident, Rural Telepsychiatry Service: Training and Improving Care for Rural Populations**
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- **Figure 21.11:** Curative of a nodular basal cell carcinoma. *Habif: Clinical Dermatology, 5th ed.*
- **Figure 33.82:** Sclerosing basal cell carcinoma. *Rahel: Textbook of Family Medicine, 8th ed.*
- **Figure 80-2:** Latissimus dorsi muscle free flap to the scalp after recurrent basal cell carcinoma. *Platt: Cummings Otolaryngology: Head & Neck Surgery, 5th ed.*
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<tr>
<td>A &amp; D</td>
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<tr>
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<td>A&amp;B Otic</td>
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<td>A-42 Revised</td>
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<td>A-C-D Modified Bracco</td>
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**Capitalized item with asterisk (*) indicates allergy.**

[Add Allergies]
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- Include Repackagers
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<tr>
<td>B</td>
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<td>Positive Scientific Evidence</td>
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<td>D</td>
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<td>Negative Scientific Evidence</td>
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<td>F</td>
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<td>Strong Negative Scientific Evidence</td>
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Early skin-to-skin contact for mothers and their healthy newborn infants.
Early skin-to-skin contact for mothers and their healthy newborn infants.

Moore ER, Anderson GC, Bergman N, Dowswell T
School of Nursing, Vanderbilt University, Nashville, Tennessee, USA. elizabeth.moore@vanderbilt.edu

Abstract

BACKGROUND: Mother-infant separation postbirth is common in Western culture. Early skin-to-skin contact (SSC) begins ideally at birth and involves placing the naked baby, head covered with a dry cap and a warm blanket across the back, prone on the mother's bare chest. According to mammalian neuroscience, the intimate contact inherent in this place (habitat) evokes neurobehaviors ensuring fulfillment of basic biological needs. This time may represent a psychophysiological sensitive period for programming future physiology and behavior.

OBJECTIVES: To assess the effects of early SSC on breastfeeding, physiological adaptation, and behavior in healthy mother-newborn dyads.

SEARCH METHODS: We searched the Cochrane Pregnancy and Childbirth Group's Trials Register (30 November 2011), made personal contact with trialists, and consulted the bibliography on kangaroo mother care (KMC) maintained by Dr. Susan Ludington.

SELECTION CRITERIA: Randomized controlled trials comparing early SSC with usual hospital care.

DATA COLLECTION AND ANALYSIS: We independently assessed trial quality and extracted data. Study authors were contacted for additional information.

MAIN RESULTS: Thirty-four randomized controlled trials were included involving 2177 participants (mother-infant dyads). Data from more than two trials were available for only eight outcome measures. For primary outcomes, we found a statistically significant positive effect of early SSC on breastfeeding at one to four months postbirth (13 trials; 702 participants) (risk ratio (RR) 1.27, 95% confidence interval (CI) 1.06 to 1.53, and SSC increased breastfeeding duration (seven trials; 324 participants) (mean difference (MD) 42.55 days, 95% CI -1.69 to 86.79) but the results did not quite reach statistical significance (P = 0.05). Late preterm infants had better cardio-respiratory stability with early SSC (one trial; 31 participants) (MD 2.88, 95% CI 0.53 to 5.23). Blood glucose 75 to 90 minutes following the birth was significantly higher in SSC infants (two trials; 94 infants) (MD 10.56 mg/dL, 95% CI 8.40 to 12.72). The overall methodological quality of trials was mixed, and there was high heterogeneity for some outcomes.

AUTHORS' CONCLUSIONS: Limitations included methodological quality, variations in intervention implementation, and outcomes. The intervention appears to benefit breastfeeding outcomes, and cardio-respiratory stability and decrease infant crying, and has no apparent short- or long-term negative effects. Further investigation is recommended. To facilitate meta-analysis, future research should be done using outcome measures consistent with those in the studies included here. Published reports should clearly indicate if the intervention was SSC with time of initiation and duration and include means, standard deviations and exact probability values.

Update of

PMID: 22602691 [PubMed - indexed for MEDLINE]
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Issue: Volume [5], 2012, [no page #]
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[Reviews]

Early skin-to-skin contact for mothers and their healthy newborn infants

Moore, Elizabeth R1; Anderson, Gene C2; Bergman, Nils3; Dowswell, Therese4

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Abstract
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Correction of deafness in shaker-2 mice by an unconventional myosin in a BAC transgene

Author(s): Probst, FJ (Probst, FJ); Fridell, RA (Fridell, RA); Raphael, Y (Raphael, Y); Saunders, TL (Saunders, TL); Wang, AH (Wang, AH); Liang, Y (Liang, Y); Morell, RJ (Morell, RJ); Touchman, JW (Touchman, JW); Lyons, RH (Lyons, RH); Noben-Trauth, K (Noben-Trauth, K); Friedman, TB (Friedman, TB); Camper, SA (Camper, SA)

Source: SCIENCE Volume: 280 Issue: 5368 Pages: 1444-1447 DOI: 10.1126/science.280.5368.1444 Published: MAY 29 1998

Times Cited: 229 (from Web of Science)

Abstract: The shaker-2 mouse mutation, the homolog of human DFNB3, causes deafness and circling behavior. A bacterial artificial chromosome (BAC) transgene from the shaker-2 critical region corrected the vestibular defects, deafness, and inner ear morphology of shaker-2 mice. An unconventional myosin gene, Myo15, was discovered by DNA sequencing of this BAC. Shaker-2 mice were found to have an amino acid substitution at a highly conserved position within the motor domain of this myosin. Auditory hair cells of shaker-2 mice have very short stereocilia and a long actin-containing protrusion extending from their basal end. This histopathology suggests that Myo15 is necessary for actin organization in the hair cells of the cochlea.

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Health Sciences Mobile Devices Resources

A guide to resources for mobile devices in health sciences.

Last Updated: Aug 13, 2012
URL: http://guides.lib.umich.edu/healthmobile
Print Guide RSS Updates

Overview

This guide provides a list of mobile-friendly resources offered through Taubman Health Sciences Library, as well as information on how to access and install them. Please note: subscription resources often require that you first register yourself and/or your device.

Resources are divided by subject and by type of device.

- iPhone/iPod Touch
- Android
- BlackBerry
- Palm
- Windows Mobile

Purchasing a Mobile Device

For more information on using and buying mobile devices:
- Medical School affiliates: How to buy a Handheld Device for Medical School
- Campus-wide: Using Your Device
- UM developed apps catalog: Apps catalog, UM Mobile Center

Accessing and Installing DynaMed

- For an iPhone, iPad, or iPod touch
- For an Android Device
- For a BlackBerry Device
- For a Windows System
- For a Mac System

Configuring Outlook on Your Mobile Device

- Configuring Outlook on Your Mobile Device
  How to use & configure University of Michigan Health System (UMHS) Outlook email for medical students.

Contact Information

Taubman Health Sciences Library

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Links:
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