UMTRI-2014-6

FEBRUARY 2014

MORTALITY FROM ROAD CRASHES IN 193 COUNTRIES: A COMPARISON WITH OTHER LEADING CAUSES OF DEATH

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MORTALITY FROM ROAD CRASHES IN 193 COUNTRIES: A COMPARISON WITH OTHER LEADING CAUSES OF DEATH

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> Report No. UMTRI-2014-6 February 2014

		Technical Report Documentation Page
1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
UMTRI-2014-6		
4. Title and Subtitle		5. Report Date
Mortality from Road Crashes in 193 Countries:		February 2014
A Comparison with Other I	Leading Causes of Death	6. Performing Organization Code
-	-	383818
7. Author(s)		8. Performing Organization Report No.
Michael Sivak and Brandon Schoettle		UMTRI-2014-6
9. Performing Organization Name and Address		10. Work Unit no. (TRAIS)
The University of Michigan	l	
Transportation Research Institute		11. Contract or Grant No.
2901 Baxter Road		
Ann Arbor, Michigan 4810	9-2150 U.S.A.	
12. Sponsoring Agency Name and Address		13. Type of Report and Period Covered
The University of Michigan	l	
Sustainable Worldwide Transportation		14. Sponsoring Agency Code
http://www.umich.edu/~umtriswt		
15. Supplementary Notes		
16. Abstract		

This study compared, for each country of the world, the fatalities per population from road crashes with fatalities per population from three leading causes of death (malignant neoplasm, ischaemic heart disease, and cerebrovascular disease) and from all causes. The data, applicable to 2008, came from the World Health Organization.

The main findings are as follows:

- (1) For the world, there were 18 fatalities from road crashes per 100,000 population, as compared with 113 for malignant neoplasm, 108 for ischaemic heart disease, and 91 for cerebrovascular disease. The highest fatality rate from road crashes was in Namibia (45) and the lowest in the Maldives (2). The rate in the United States was 14.
- (2) For the world, fatalities from road crashes represented 2.1% of fatalities from all causes. The highest percentage was in the United Arab Emirates (15.9%) and the lowest in the Marshall Islands (0.3%). The percentage in the United States was 1.8%.
- (3) For the world, fatalities from road crashes corresponded to 15.9% of fatalities from malignant neoplasm. The highest percentage was in Namibia (153.9%) and the lowest in the Maldives (1.7%). The percentage in the United States was 7.7%.
- (4) For the world, fatalities from road crashes corresponded to 16.7% of fatalities from ischaemic heart disease. The highest percentage was in Qatar (123.9%) and the lowest in Malta (1.9%). The percentage in the United States was 10.1%.
- (5) For the world, fatalities from road crashes corresponded to 19.6% of fatalities from cerebrovascular disease. The highest percentage was in Qatar (529.7%) and the lowest in the Marshall Islands (2.3%). The percentage in the United States was 30.8%.

The appendixes list the rates and percentages for each individual country.

17. Key Words			18. Distribution Statement
Road crashes, public health perspective, leading causes of death,			Unlimited
global, worldwide, cancer, heart disease, stroke			
19. Security Classification (of this report)	20. Security Classification (of this page)	21. No. of Pages	22. Price
None	None	43	

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Introduction

Road safety is a multifaceted concept. Consequently, it is not surprising that there are various indexes for evaluating different aspects of road safety. Several key indexes and their appropriate roles are listed in Table 1.

Road safety index	Appropriate role/perspective
Fatalities per population	Public health
Fatalities per driver	Driver education/licensing
Fatalities per vehicle	Vehicle manufacturing/regulation
Fatalities per distance driven	Traffic/roadway engineering
Fatalities per trip	Urban planning

Table 1Key road-safety indexes (Sivak, 1996).

The most frequently used index in the U.S. is fatality rate per distance driven. However, one of the main limitations of this index is that it does not allow us to place road fatalities in the broader context of fatalities from other leading causes of death. That is possible only with fatalities per population.

This study was designed to compare mortality from road crashes with mortality from three leading causes of death: malignant neoplasm (cancer), ischaemic heart disease, and cerebrovascular disease. The analysis was performed for each individual country of the world. The raw data came from the World Health Organization.

Method

Estimated fatalities from road crashes, malignant neoplasm, ischaemic heart disease, and cerebrovascular disease for 193 countries were obtained from WHO (2014). The data were for 2008.

Two sets of variables were analyzed: fatality rates per population from each of the four causes of deaths, and fatalities from road crashes as a percentage of fatalities from each of the other three causes of death.

Results

Fatality rates per population

Tables 2 through 6 present the following fatality rates per population for each country: overall, road crashes, malignant neoplasm, ischaemic heart disease, and cerebrovascular disease. For each cause of death, these tables include the 25 countries with the highest and lowest rates, plus the following countries (if they are not already among the 25 highest or lowest countries): the Unites States, Canada, Mexico, Brazil, Argentina, the United Kingdom, Germany, France, Australia, China, India, and South Korea. The 25 countries with the highest and lowest rates are also mapped in Figures 1 through 5. (A complete list of these fatality rates for all 193 countries is shown in Appendix A.)

Overall fatality rate

For the world, there were 844 fatalities from all causes per 100,000 population (Table 2). The highest rate by country (1,717 in Chad) was 12 times the lowest rate (141 in Qatar). The rate in the United States was 817.

The 10 countries with the highest rates were Chad, Guinea-Bissau, Central African Republic, Ukraine, Malawi, Afghanistan, Dem. Rep. of the Congo, Somalia, Lesotho, and Mozambique (Table 2). The 10 countries with the lowest rates were Qatar, the United Arab Emirates, Kuwait, Bahrain, Brunei Darussalam, Oman, Syria, the Maldives, Saudi Arabia, and Costa Rica.

The countries with the highest rates tended to cluster in two regions: central Africa, and several of the countries of the former Soviet Union and some adjacent countries (Figure 1). The countries with the lowest rates tended to cluster in Central America and the northern part of South America, the Middle East, and Southeast Asia.

Rank	Country	Rate
1	Chad	1717
2	Guinea-Bissau	1675
3	Central African Republic	1671
4	Ukraine	1638
5	Malawi	1627
6	Afghanistan	1612
7	Dem. Rep. of the Congo	1607
8	Somalia Lesotho	1560
10	Mozambique	1559 1559
11	Zambia	1551
12	Swaziland	1504
13	Sierra Leone	1502
14	Côte d'Ivoire	1499
15	Russian Federation	1474
16	Zimbabwe	1468
17	Bulgaria	1459
18	Cameroon	1453
19 20	Burundi Guinea	1413 1389
20	Latvia	1389
21	Burkina Faso	1365
23	Armenia	1362
24	Angola	1362
25	Belarus	1356
53	Germany	1009
68	United Kingdom	960
	World	844
94	France	842
98 103	India United States	838
103	United States Argentina	817 810
120	China	716
120	Canada	704
131	Australia	668
145	Brazil	631
162	South Korea	527
165	Mexico	519
169	Turkey	500
170	Malaysia	494
171	Singapore	491
172 173	Jordan Venezuela	483 478
173	Panama	478
175	Peru	475
176	Vanuatu	474
177	Libya	472
178	Belize	463
179	Paraguay	459
180	Solomon Islands	454
181	Colombia Colombia	454
182	Cook Islands	444
183 184	Nicaragua Costa Rica	439 434
184	Saudi Arabia	404
185	Maldives	380
187	Syria	364
188	Oman	331
189	Brunei Darussalam	310
190	Bahrain	296
191	Kuwait	175
192	United Arab Emirates	155
193	Qatar	141

Table 2Fatality rate per 100,000 population from all causes.

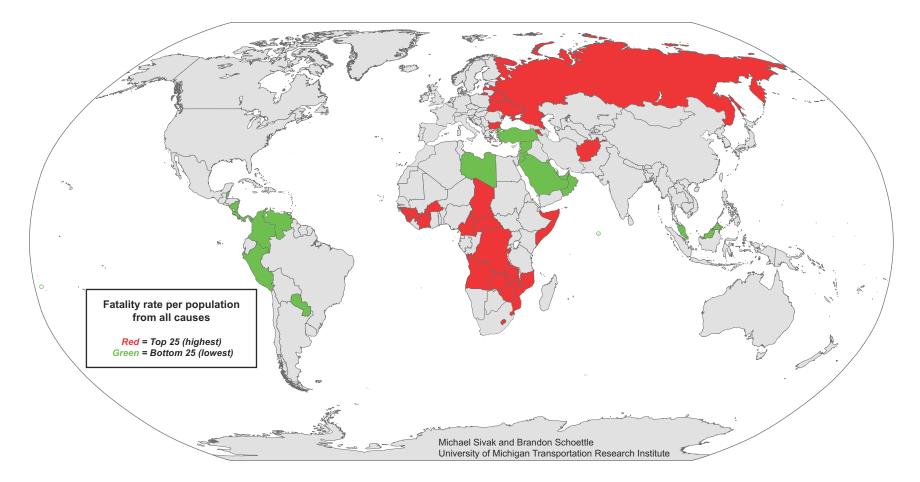


Figure 1. The 25 countries with the highest (red) and lowest (green) rates of fatalities per population from all causes.

Fatality rate from road crashes

For the world, there were 18 fatalities from road crashes per 100,000 population (Table 3). The highest rate by country (45 in Namibia) was 22 times the lowest rate (2 in Maldives). The rate in the United States was 14.

The 10 countries with the highest rates were Namibia, Thailand, Iran, Sudan, Swaziland, Venezuela, Congo, Malawi, Dominican Republic, and Iraq (Table 3). The 10 countries with the lowest rates were the Maldives, Tajikistan, Malta, Fiji, the Marshall Islands, Israel, Tonga, Antigua and Barbuda, the Netherlands, and Switzerland.

The countries with the highest rates tended to be in Central America and the northern part of South America, Africa, the Middle East, and Asia (Figure 2). The countries with the lowest rates tended to be in Europe (primarily northern Europe), Oceania, and Asia.

Rank	Country	Rate
1	Namibia	45
2	Thailand	44
3	Iran	38
4	Sudan	36
5	Swaziland	36
6	Venezuela	35
7	Congo	34
8	Malawi	32
9	Dominican Republic	32
10	Iraq	32
11	Central African Republic	32
12	Mongolia	31
13	Belize	31
14	Djibouti	30
15	Lesotho	30
16	Mozambique	30
17	Malaysia	30
18	El Salvador	29
19	Yemen	28
20	Ethiopia	28
21	Equatorial Guinea	28
22	Zambia	28
23	Guyana	27
24	Jordan	27
25	Angola	27
42	Brazil	22
44	China	22
7(World	18
76	India	17
82	South Korea	16
97	United States	14
110	Mexico	13 12
114	Argentina Canada	8
150	Australia	8 7
160 161	France	7
168	Germany	6
169	Iceland	6
170	Singapore	6
170	Kiribati	6
171	Cook Islands	6
172	Denmark	6
173	Bosnia and Herzegovina	6
174	Macedonia	6
175	Haiti	5
170	Norway	5
178	Japan	5
178	Vanuatu	5
180	United Kingdom	5
181	Solomon Islands	5
182	Sweden	5
183	Guatemala	5
184	Switzerland	5
185	Netherlands	4
186	Antigua and Barbuda	4
187	Tonga	4
188	Israel	4
189	Marshall Islands	4
190	Fiji	4
191	Malta	3
192	Tajikistan	3
174	1 ajikistan	5

Table 3Fatality rate per 100,000 population from road crashes.

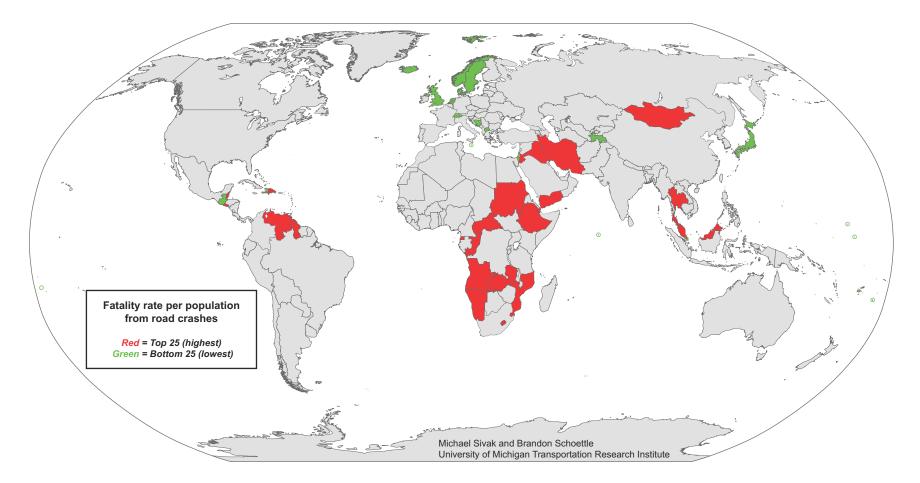


Figure 2. The 25 countries with the highest (red) and lowest (green) rates of fatalities per population from road crashes.

Fatality rate from malignant neoplasm

For the world, there were 113 fatalities from malignant neoplasm per 100,000 population (Table 4). The highest rate by country (318 in Hungary) was 17 times the lowest rate (19 in the United Arab Emirates). The rate in the United States was 189.

The 10 countries with the highest rates were Hungary, Croatia, Denmark, Slovenia, Italy, San Marino, Japan, Latvia, Estonia, and the Czech Republic (Table 4). The 10 countries with the lowest rates were the United Arab Emirates, Kuwait, Qatar, Namibia, Syria, Botswana, Niger, Samoa, Saudi Arabia, and Yemen.

The countries with the highest rates (Figure 3) were primarily in Europe. The countries with the lowest rates tended to be in Africa and the Middle East.

1 Hungary 3 2 Croatia 3 3 Denmark 2 4 Slovenia 2 5 Italy 2 6 San Marino 2 7 Japan 2 8 Latvia 2 9 Estonia 2 10 Czech Republic 2 11 Germany 2 12 United Kingdom 2 13 Poland 2 14 Serbia 2 15 France 2 16 Netherlands 2 17 Lithuania 2 20 Greece 2 21 Belgium 2 22 Bulgaria 2 23 Sweden 2 24 Austria 2 32 Canada 2 33 Australia 1	ate 118 001 990 82 777 775 774 669 667 666 655 555 552 550 647 646 644 643 644 643
2 Croatia 3 3 Denmark 2 4 Slovenia 2 5 Italy 2 6 San Marino 2 7 Japan 2 8 Latvia 2 9 Estonia 2 10 Czech Republic 2 11 Germany 2 12 United Kingdom 2 13 Poland 2 14 Serbia 2 15 France 2 16 Netherlands 2 17 Lithuania 2 18 Portugal 2 20 Greece 2 21 Belgium 2 22 Bulgaria 2 23 Sweden 2 24 Austria 2 32 Canada 2 38 Australia 1	01 90 82 777 75 775 775 775 775 774 669 667 662 661 662 655 552 550 644 643 644 643 644 637
3 Denmark 2 4 Slovenia 2 5 Italy 2 6 San Marino 2 7 Japan 2 8 Latvia 2 9 Estonia 2 10 Czech Republic 2 11 Germany 2 12 United Kingdom 2 13 Poland 2 14 Serbia 2 15 France 2 16 Netherlands 2 17 Lithuania 2 20 Greece 2 21 Belgium 2 22 Bulgaria 2 23 Sweden 2 24 Austria 2 32 Canada 2 38 Australia 1	90 82 777 775 775 774 769 769 767 768 769 767 768 774 775 774 775 774 769 769 767 768 769 767 768 769 767 768 769 769 769 769 769 769 769 769 755 752 750 760 761 762 763 764 764 764 764 764 764 764 764 <t< td=""></t<>
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10Czech Republic211Germany212United Kingdom213Poland214Serbia215France216Netherlands217Lithuania218Portugal220Greece221Belgium223Sweden224Austria238Australia1	67 665 662 661 660 559 555 555 550 550 647 7 446 444 443 441 337
11Germany212United Kingdom213Poland214Serbia215France216Netherlands217Lithuania218Portugal219Uruguay220Greece221Belgium223Sweden224Austria235Monaco238Australia1	265 262 261 260 259 255 252 250 247 246 243 241 237
12United Kingdom213Poland214Serbia215France216Netherlands217Lithuania218Portugal219Uruguay220Greece221Belgium222Bulgaria223Sweden224Austria232Canada238Australia1	.62 .61 .60 .59 .55 .52 .50 .47 .46 .44 .43 .41 .37
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14Serbia215France216Netherlands217Lithuania218Portugal219Uruguay220Greece221Belgium222Bulgaria223Sweden224Austria225Monaco232Canada238Australia1	260 259 255 252 250 247 246 244 243 241 237
15France216Netherlands217Lithuania218Portugal219Uruguay220Greece221Belgium222Bulgaria223Sweden224Austria225Monaco232Canada238Australia1	259 255 252 250 247 246 244 243 241 237
16Netherlands217Lithuania218Portugal219Uruguay220Greece221Belgium222Bulgaria223Sweden224Austria225Monaco232Canada238Australia1	255 252 250 247 246 244 243 241 237
17Lithuania218Portugal219Uruguay220Greece221Belgium222Bulgaria223Sweden224Austria225Monaco232Canada238Australia1	252 250 247 246 244 243 241 237
18Portugal219Uruguay220Greece221Belgium222Bulgaria223Sweden224Austria225Monaco232Canada238Australia1	250 247 246 244 243 241 237
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21 Belgium 2 22 Bulgaria 2 23 Sweden 2 24 Austria 2 25 Monaco 2 32 Canada 2 38 Australia 1	244 243 241 237
22Bulgaria223Sweden224Austria225Monaco232Canada238Australia1	243 241 237
23 Sweden 2 24 Austria 2 25 Monaco 2 32 Canada 2 38 Australia 1	241 237
24Austria225Monaco232Canada238Australia1	.37
25Monaco232Canada238Australia1	
32Canada238Australia1	33
38 Australia 1	208
	.08
42 United States	.89
	63
	56
	49
World 1	13
78 Brazil	99
111 Mexico	66
134 India	54
169 Dem. Rep. of the Congo	42
170 Senegal	42
171 Côte d'Ivoire	41
172 Sudan	41
173 Chad	40
174 Lesotho	40
175 Burkina Faso	39
176 Swaziland	39
177 Sierra Leone	39
178 Angola	38
179 Oman	38
180 Kiribati	37
181 Tanzania	37
182 Eritrea	37
183 Bahrain	37
184 Yemen	35
185 Saudi Arabia	35
186 Samoa	35
187 Niger	34
188 Botswana	33
189 Syria	30
190 Namibia	29
191 Qatar	28
192 Kuwait	23
193 United Arab Emirates	19

Table 4 Fatality rate per 100,000 population from malignant neoplasm.

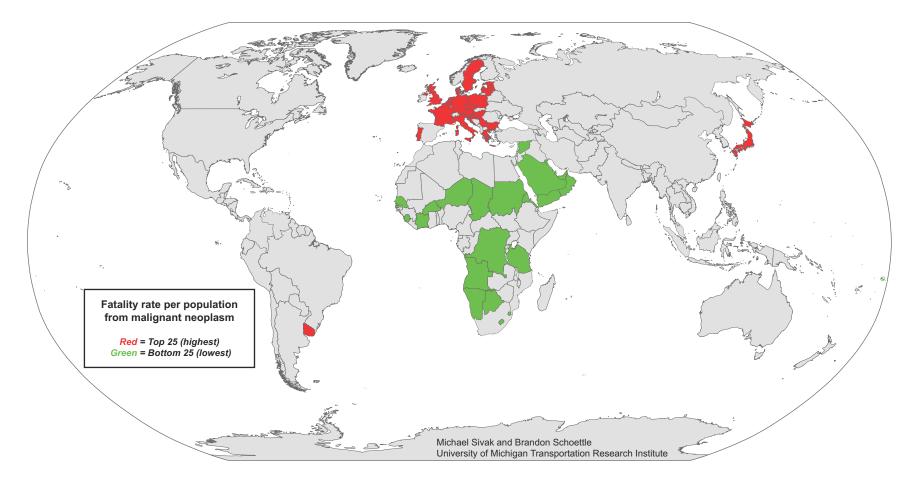


Figure 3. The 25 countries with the highest (red) and lowest (green) rates of fatalities per population from malignant neoplasm.

Fatality rate from ischaemic heart disease

For the world, there were 108 fatalities from ischaemic heart disease per 100,000 population (Table 5). The highest rate by country (735 in Ukraine) was 92 times the lowest rate (8 in Kiribati). The rate in the United States was 143.

The 10 countries with the highest rates were Ukraine, Belarus, the Russian Federation, Georgia, Lithuania, Moldova, Latvia, Estonia, Armenia, and Slovakia (Table 5). The 10 countries with the lowest rates were Kiribati, Qatar, the Maldives, Niger, Brunei Darussalam, the United Arab Emirates, Bahrain, Senegal, Haiti, and Eritrea.

The countries with the highest rates (Figure 4) tended to be in several of the countries of the former Soviet Union, and eastern and northern Europe. The countries with the lowest rates tended to be in Central and South America, Africa, and Oceania.

Rank	Country	Rate
1	Ukraine	735
2	Belarus	580
3	Russian Federation	466
4	Georgia	465
5	Lithuania	449
6	Moldova	447
7	Latvia	439
8	Estonia	364
9	Armenia	342
10	Slovakia	340
11	Hungary	335
12	Kazakhstan	311
13 14	Bulgaria	304
14	Croatia	277
15	Czech Republic	276 266
10	Romania Kurguzeten	238
17	Kyrgyzstan Turkmenistan	238
18	Finland	215
20	Poland	213
20	Uzbekistan	190
22	Germany	189
23	Azerbaijan	187
24	Sweden	185
25	Malta	178
31	United Kingdom	151
34	United States	143
43	Canada	126
54	Australia	118
	World	108
68	India	106
84	Argentina	91
99	China	77
109	Mexico	71
112	Brazil	70
115	France	69
161	South Korea	43 40
169 170	Gambia Bahamas	
170	Madagascar	39 39
171	Madagascar Mauritania	39
172	Rwanda	36
173	Sao Tome and Principe	35
175	Cape Verde	35
176	Belize	35
177	Kenya	35
178	Burkina Faso	34
179	Ecuador	33
180	Guatemala	32
181	Sierra Leone	32
182	Peru	32
183	Mali	32
184	Eritrea	31
185	Haiti	29
186	Senegal	29
187	Bahrain	27
188	United Arab Emirates	26
189	Brunei Darussalam	25
190	Niger	25
191	Maldives	24
192	Qatar	16
193	Kiribati	8

Table 5Fatality rate per 100,000 population from ischaemic heart disease.

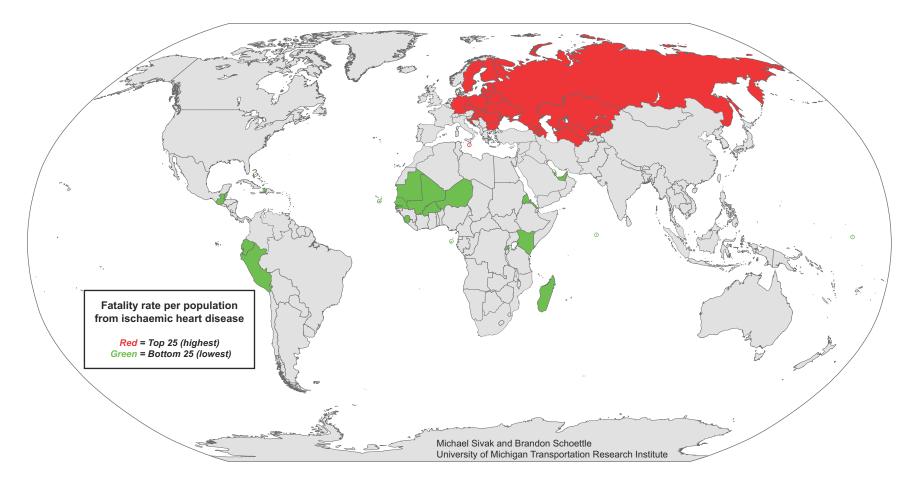


Figure 4. The 25 countries with the highest (red) and lowest (green) rates of fatalities per population from ischaemic heart disease.

Fatality rate from cerebrovascular disease

For the world, there were 91 fatalities from cerebrovascular disease per 100,000 population (Table 6). The highest rate by country (318 in the Russian Federation) was 80 times the lowest rate (4 in Qatar). The rate in the United States was 47.

The 10 countries with the highest rates were the Russian Federation, Bulgaria, Georgia, Latvia, Ukraine, Romania, Belarus, Macedonia, Serbia, and Moldova (Table 6). The 10 countries with the lowest rates were Qatar, the United Arab Emirates, Bahrain, Guatemala, Oman, Saudi Arabia, Brunei Darussalam, the Maldives, Kuwait, and Peru.

The countries with the highest rates (Figure 5) tended to be in several of the countries of the former Soviet Union, southern Europe, and Southeast Asia. The countries with the lowest rates tended to be in Central and South America, Africa, and the Middle East.

Rank	Country	Rate
1	Russian Federation	318
2	Bulgaria	305
3	Georgia	278
4	Latvia	244
5	Ukraine	230
6	Romania	223
7	Belarus	214
8	Macedonia	214
9	Serbia	212
10	Moldova	203
11	Albania	192
12	Armenia	190
13 14	Croatia	189
14	Bosnia and Herzegovina	182 175
15	Lithuania Azerbaijan	163
10	Marshall Islands	165
17	China	158
19	Kazakhstan	150
20	Portugal	150
21	Viet Nam	138
22	Greece	137
23	Kyrgyzstan	137
24	Hungary	136
25	Uruguay	127
42	United Kingdom	91
	World	91
52	Germany	82
54	South Korea	80
72 87	India	70 64
87	Brazil Australia	59
110	Argentina	57
115	France	55
139	United States	47
142	Canada	47
169	Senegal	35
170	Papua New Guinea	34
171	Djibouti	34
172	Iraq	33
173	Mexico	32
174	Colombia	31
175	Nicaragua	30
176	Niger	29 29
177 178	Ecuador	29
178	Israel Yemen	29
1/9	Timor-Leste	26
180	El Salvador	26
182	Costa Rica	26
183	Belize	25
184	Peru	24
185	Kuwait	20
186	Maldives	19
187	Brunei Darussalam	19
188	Saudi Arabia	19
189	Oman	18
190	Guatemala	12
191	Bahrain	10
192	United Arab Emirates	8
193	Qatar	4

Table 6Fatality rate per 100,000 population from cerebrovascular disease.

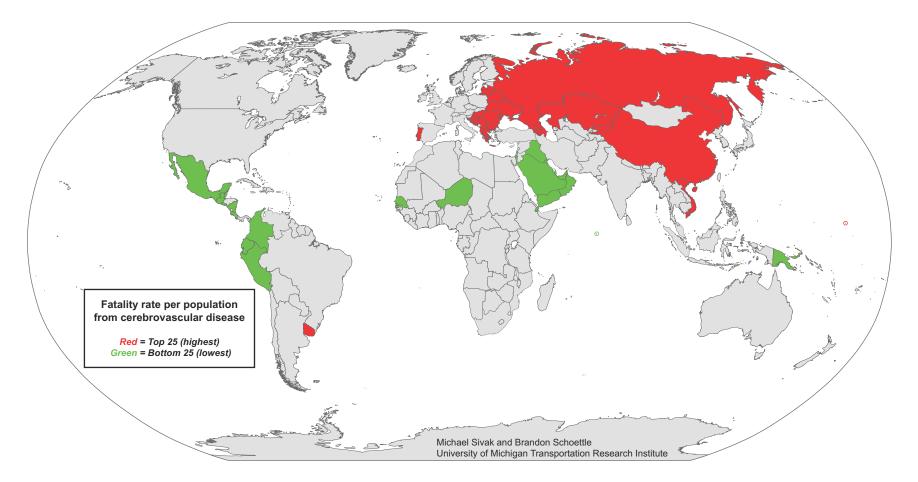


Figure 5. The 25 countries with the highest (red) and lowest (green) rates of fatalities per population from cerebrovascular disease.

Fatalities from road crashes as a percentage of fatalities from other leading causes of death

Tables 7 through 10 present fatalities from road crashes as a percentage of the following other leading causes of death for each country: overall, malignant neoplasm, ischaemic heart disease, and cerebrovascular disease. For each cause of death, these tables include the 25 countries with the highest and lowest percentages, plus up to 10 additional selected countries (as in Tables 2 through 6). The 25 countries with the highest and lowest percentages are also mapped in Figures 6 through 9. (A complete list of these percentages for all 193 countries is shown in Appendix B.)

Fatalities from road crashes as a percentage of fatalities from all causes of death

For the world, fatalities from road crashes represented 2.1% of fatalities from all causes (Table 7). The highest percentage by country (15.9% in the United Arab Emirates) was 53 times the lowest percentage (0.3% in the Marshall Islands). The percentage in the United States was 1.8%.

In the following 10 countries, road crashes were responsible for the highest percentage of all fatalities: the United Arab Emirates, Qatar, Kuwait, Bahrain, Venezuela, Iran, Belize, Malaysia, Jordan, and Mongolia (Table 7). The 10 countries with the lowest percentages were the Marshall Islands, Malta, Tajikistan, Sweden, the United Kingdom, Switzerland, the Netherlands, Fiji, Denmark, and Macedonia.

The countries with the highest percentages (Figure 6) tended to be in Central America and the northern part of South America, the Middle East, and Southeast Asia. Eleven of the 25 countries with the lowest percentages were in Europe.

 Table 7

 Fatalities from road crashes as a percentage of fatalities from all causes of death.

Rank	Country	%
1	United Arab Emirates	15.9
2	Qatar	14.3
3	Kuwait	7.9
4	Bahrain	7.3
5	Venezuela	7.3
6	Iran	7.1
7	Belize	6.7
8	Malaysia	6.0
9	Jordan	5.7
10	Mongolia	5.5
11	Saudi Arabia	
12	Thailand	5.1 5.1
13	Dominican Republic	4.9
14	Iraq	4.5
15	Paraguay	4.5
16	Libya	4.4
17	Brunei Darussalam	4.4
18	Lebanon	4.4
19	Yemen	4.3
20	El Salvador	4.1
21	Namibia	4.1
22	Costa Rica	4.1
23	Ecuador	3.7
24	Colombia	3.7
25	Viet Nam	3.7 3.7
31	Brazil	3.5
38	China	3.0
40	South Korea	3.0
48	Mexico	2.4
	World	2.1
67	India	2.0
85	United States	1.8
108	Argentina	1.5
133	Canada	1.2
148	Australia	1.0
167	France	0.8
169	Niger	0.8
170	Tuvalu	0.8
171	Kiribati	0.8
172	Guatemala	0.8
173	Israel	0.8
174	Finland	0.7
175	Somalia	0.7
176	Antigua and Barbuda	0.6
177	Tonga	0.6
178	Norway	0.6
179	Germany	0.6
180	Japan	0.6
181	Maldives	0.6
182	Haiti	0.6
183	Bosnia and Herzegovina	0.6
184	Macedonia	0.6
185	Denmark	0.6
186	Fiji	0.6
187	Netherlands	0.6
188	Switzerland	0.5
189	United Kingdom	0.5
190	Sweden	0.5
191	Tajikistan	0.4
192	Malta	0.4
193	Marshall Islands	0.3

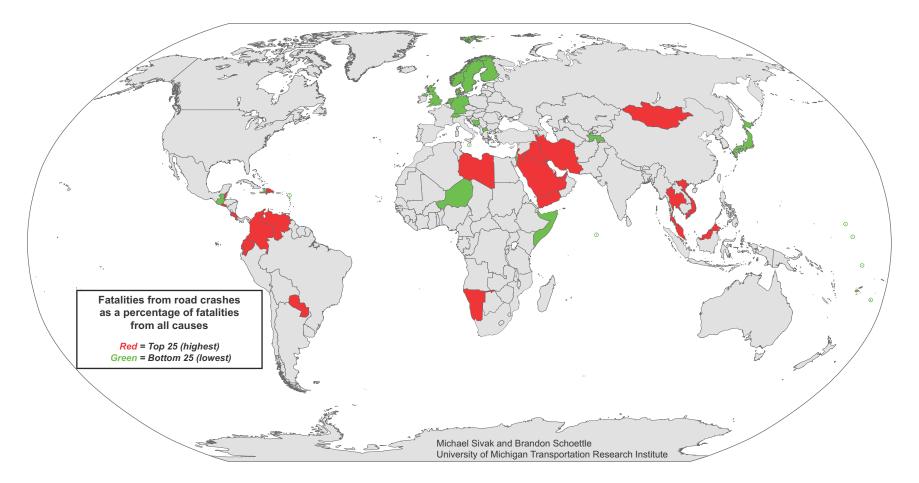


Figure 6. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from all causes of death.

Fatalities from road crashes as a percentage of fatalities from malignant neoplasm

For the world, the number of fatalities from road crashes corresponded to 15.9% of fatalities from malignant neoplasm (Table 8). The highest percentage by country (153.9% in Namibia) was 91 times the lowest percentage (1.7% in the Maldives). The percentage in the United States was 7.7%.

In the following 10 countries, fatalities from road crashes corresponded to the highest percentage of fatalities from malignant neoplasm: Namibia, the United Arab Emirates, Swaziland, Sudan, Yemen, Lesotho, Congo, Angola, Qatar, and Central African Republic (Table 8). The 10 countries where fatalities from road crashes corresponded to the lowest percentage of fatalities from malignant neoplasm were the Maldives, the Netherlands, Malta, Demark, the United Kingdom, Sweden, Japan, Switzerland, Norway, and Germany.

Seventeen of the 25 countries with the highest percentages were in Africa (Figure 7). Twenty-one of the 25 countries with the lowest percentages were in Europe.

 Table 8

 Fatalities from road crashes as a percentage of fatalities from malignant neoplasm.

Rank	Country	%
1	Namibia	153.9
2	United Arab Emirates	133.1
3	Swaziland	91.8
4	Sudan	89.4
5	Yemen	79.7
6	Lesotho	75.5
7	Congo	75.1
8	Angola	71.5
9	Qatar	70.5
10	Central African Republic	68.5
10	Malawi	63.9
11	Djibouti	63.4
12	Botswana	62.7
13	Iraq	
14	Siama Laona	62.6 61.2
	Sierra Leone	
16	Mozambique	61.1
17	Kuwait	60.9
18	Ethiopia	60.7
19	Chad	59.8
20	Burkina Faso	59.3
21	Iran	59.2
22	Saudi Arabia	58.8
23	Cameroon	58.8
24	Bahrain	58.5
25	Tanzania	56.9
59	India	31.1
82	Brazil	22.0
91	Mexico	19.1
	World	15.9
104	China	14.6
122	South Korea	10.1
133	United States	7.7
135	Argentina	7.5
166	Canada	4.0
169	Hungary	3.8
170	Australia	3.6
171	Iceland	3.5
172	Ireland	3.5
173	Antigua and Barbuda	3.4
174	Bosnia and Herzegovina	3.4
175	Czech Republic	3.4
175	Austria	3.2
170	Macedonia	3.2
177	Finland	3.2
178	Italy	3.2
180	San Marino	3.0
180	Spain	3.0
181	Israel	2.7
182		2.7
	France	
184	Germany	2.3
185	Norway	2.3
186	Switzerland	2.1
187	Japan	2.0
188	Sweden	2.0
189	United Kingdom	1.9
190	Denmark	1.9
191	Malta	1.8
192	Netherlands	1.7
193	Maldives	1.7

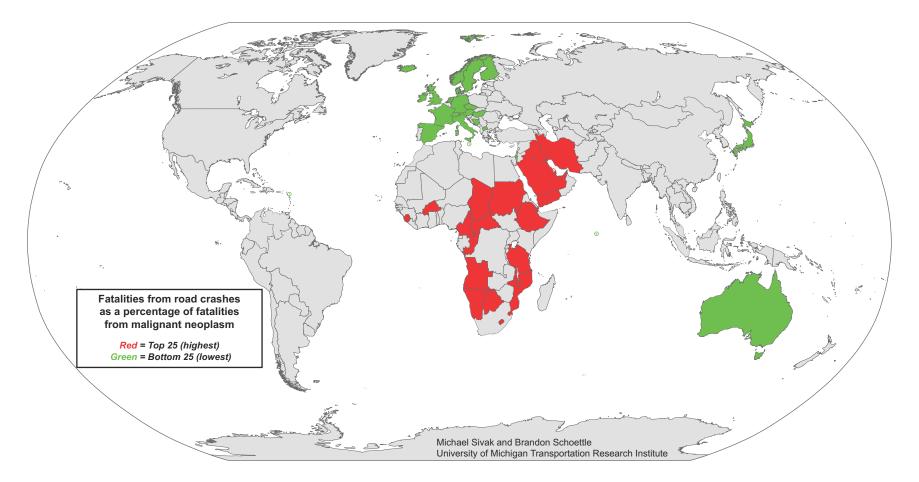


Figure 7. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from malignant neoplasm.

Fatalities from road crashes as a percentage of fatalities from ischaemic heart disease

For the world, the number of fatalities from road crashes corresponded to 16.7% of fatalities from ischaemic heart disease (Table 9). The highest percentage by country (123.9% in Namibia) was 65 times the lowest percentage (1.9% in Malta). The percentage in the United States was 10.1%.

In the following 10 countries, fatalities from road crashes corresponded to the highest percentage of fatalities from ischaemic heart disease (Table 9): Qatar, the United Arab Emirates, Belize, Bahrain, Mongolia, Sierra Leone, Namibia, Kiribati, Burkina Faso, and Angola. The 10 countries where fatalities from road crashes corresponded to the lowest percentage of fatalities from ischaemic heart disease were Malta, the Marshall Islands, Sweden, Georgia, Ukraine, Tajikistan, Finland, the Czech Republic, Germany, and Belarus.

Sixteen of the 25 countries with the highest percentages were in Africa (Figure 8). The countries with the lowest percentages tended to be either in Europe or in the eastern and southern parts of the former Soviet Union.

 Table 9

 Fatalities from road crashes as a percentage of fatalities from ischaemic heart disease.

Rank	Country	%
1	Qatar	123.9
2	United Arab Emirates	95.4
3	Belize	89.6
4	Bahrain	79.6
5	Mongolia	75.0
6	Sierra Leone	73.3
7	Namibia	72.3
8	Kiribati	71.5
9	Burkina Faso	69.3
10	Angola	64.5
11	Swaziland	60.6
12 13	Uganda Ecuador	60.4 59.0
13	Congo	57.9
15	Kenya	57.8
16	Mauritania	56.4
17	Thailand	55.8
18	Brunei Darussalam	54.5
19	Ethiopia	52.3
20	Mozambique	51.5
21	Zambia	51.3
22	Malawi	51.1
23	Dem. Rep. of the Congo	51.1
24	Equatorial Guinea	50.7
25	Central African Republic	49.7
51	South Korea	36.9
67	Brazil	31.4
73	China	28.1
95	Mexico	17.9
98	<i>World</i> India	16. 7 15.8
109	Argentina	13.4
124	United States	10.1
124	France	9.9
148	Canada	6.7
154	Australia	5.9
169	Austria	4.4
170	Azerbaijan	4.3
171	Norway	4.3
172	Turkmenistan	4.2
173	Slovakia	4.2
174	Macedonia	4.2
175	Latvia	3.9
176	Bosnia and Herzegovina	3.8
177	Lithuania	3.8
178 179	Fiji Hungary	3.6 3.6
179	Moldova	3.5
180	Switzerland	3.5
182	United Kingdom	3.3
183	Estonia	3.3
184	Belarus	3.3
185	Germany	3.3
186	Czech Republic	3.3
187	Finland	3.1
188	Tajikistan	2.8
189	Ukraine	2.8
190	Georgia	2.6
191	Sweden	2.5
192	Marshall Islands	2.2
193	Malta	1.9

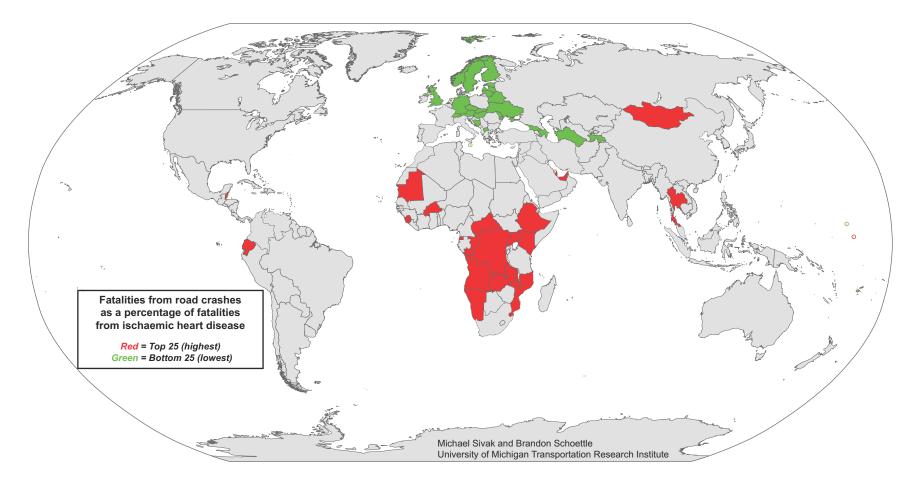


Figure 8. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from ischaemic heart disease.

Fatalities from road crashes as a percentage of fatalities from cerebrovascular disease

For the world, the number of fatalities from road crashes corresponded to 19.6% of fatalities from cerebrovascular disease (Table 10). The highest percentage by country (529.7% in Qatar) was 230 times the lowest percentage (2.3% in the Marshall Islands). The percentage in the United States was 30.8%.

In the following 10 countries, fatalities from road crashes corresponded to the highest percentage of fatalities from cerebrovascular disease (Table 10): Qatar, the United Arab Emirates, Bahrain, Belize, El Salvador, Saudi Arabia, Yemen, Iraq, Venezuela, and Djibouti. The 10 countries where fatalities from road crashes corresponded to the lowest percentage of fatalities from cerebrovascular disease were the Marshall Islands, Macedonia, Bosnia and Herzegovina, Malta, Fiji, Georgia, Bulgaria, Azerbaijan, Albania, and Tonga.

The countries with the highest percentages (Figure 9) tended to be in Central America and the northern part of South America, northern Africa, and the Middle East. The countries with lowest percentages were primarily in Europe and in several countries of the former Soviet Union.

 Table 10

 Fatalities from road crashes as a percentage of fatalities from cerebrovascular disease.

Rank	Country	%
Rank	Qatar	529.7
2	United Arab Emirates	299.0
3	Bahrain	208.5
4	Belize	124.5
5	El Salvador	111.8
6	Saudi Arabia	109.1
7	Yemen	102.0
8	Iraq	96.4
9	Venezuela	93.6
10	Djibouti	89.4
11	Brunei Darussalam	71.2
12	Kuwait	69.5
13	Costa Rica	68.9
14 15	Malaysia	67.2 67.1
15	Ecuador Oman	65.5
10	Namibia	65.2
17	Sudan	64.6
18	Iran	64.3
20	Sierra Leone	61.2
21	Burkina Faso	57.6
22	Libya	57.6
23	Afghanistan	57.4
24	Colombia	55.0
25	Jordan	52.7
51	Mexico	40.1
71	Brazil	34.2
77	United States	30.8
95	India	23.8
103	Argentina	21.3
108	South Korea	19.7
112	<i>World</i> Canada	19.6
112	China	18.1 13.8
133	France	12.3
133	Australia	11.9
169	Russian Federation	7.6
170	Germany	7.5
171	Dominica	7.4
172	Latvia	7.0
173	Haiti	7.0
174	Norway	7.0
175	Romania	6.6
176	Denmark	6.4
177	Tuvalu	6.4
178	Tajikistan	6.4
179	Kiribati	6.1
180 181	Serbia United Kingdom	5.6 5.5
	U	
182 183	Japan Sweden	5.1 5.1
183	Tonga	5.0
185	Albania	5.0
186	Azerbaijan	4.9
187	Bulgaria	4.6
188	Georgia	4.3
189	Fiji	4.2
190	Malta	4.0
191	Bosnia and Herzegovina	3.1
192	Macedonia	2.6
193	Marshall Islands	2.3

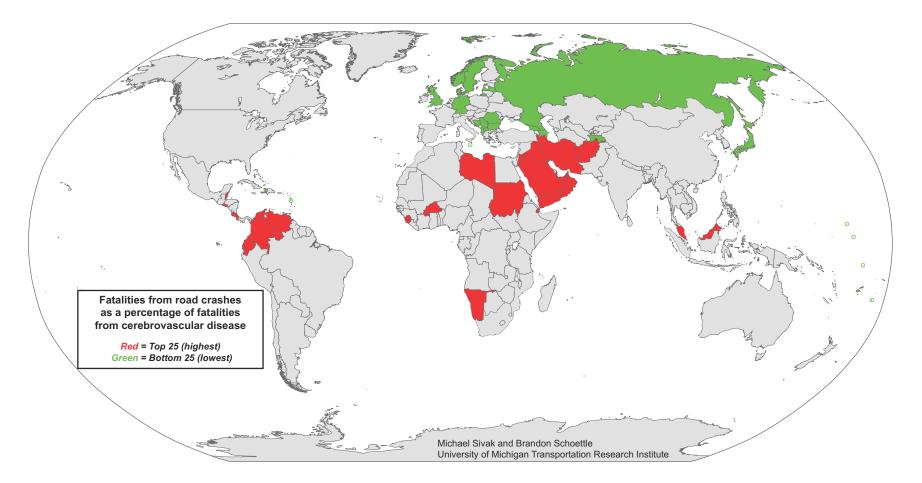


Figure 9. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from cerebrovascular disease.

Discussion

Fatality rates per population

The key findings concerning the examined fatality rates per population are summarized in Table 11. Of particular note is the fact that the range of fatality rates from road crashes (maximum/minimum) is comparable to the range of rates from malignant neoplasm, but is substantially smaller than the range of rates from either ischaemic heart disease or cerebrovascular disease.

Cause of death	World	United States	Maximum	Minimum	Maximum/ minimum
All causes	844	817	1,717 (Chad)	141 (Qatar)	12
Road crashes	18	14	45 (Namibia)	2 (Maldives)	22
Malignant neoplasm	113	189	318 (Hungary)	19 (United Arab Emirates)	17
Ischaemic heart disease	108	143	735 (Ukraine)	8 (Kiribati)	92
Cerebrovascular disease	91	47	318 (Russian Federation)	4 (Qatar)	80

Table 11Key findings concerning fatality rates per 100,000 population by cause of death.

Fatalities from road crashes as a percentage of fatalities from all causes

For the world, fatalities from road crashes represented 2.1% of fatalities from all causes (Table 7). For two countries on one extreme, this percentage was greater than 10% (15.9% in the United Arab Emirates and 14.3% in Qatar). On the other extreme, in six countries this percentage was 0.5% or less (0.5% in Switzerland, the United Kingdom, and Sweden; 0.4% in Tajikistan and Malta; and 0.3% in the Marshall Islands). The percentage in the United States was 1.8%.

Fatalities from road crashes as a percentage of fatalities from other leading causes of death

The key findings concerning fatalities from road crashes as a percentage of fatalities from malignant neoplasm, ischaemic heart disease, and cerebrovascular disease are presented in Table 12. For the world, these percentages were 15.9%, 16.7%, and 19.6%, respectively.

Table 12
Key findings concerning fatalities from road crashes as a percentage of fatalities from
three leading causes of death.

Cause of death	World	United States	Maximum	Minimum	Maximum/ minimum
Malignant neoplasm	15.9	7.7	153.9 (Namibia)	1.7 (Maldives)	91
Ischaemic heart disease	16.7	10.1	123.9 (Namibia)	1.9 (Malta)	65
Cerobrovascular disease	19.6	30.8	529.7 (Qatar)	2.3 (Marshall Islands)	230

Table 13 lists the number of countries where fatalities from road crashes exceeded 100% and 60% of fatalities from each of these three leading causes of death. Also shown in Table 13 are the numbers of countries where fatalities from road crashes corresponded to less than 3.5% of fatalities from each of these three causes. Of particular note is the fact that the number of fatalities from road crashes exceeded the number of fatalities from malignant neoplasm, ischaemic heart disease, and cerebrovascular disease in 2, 1, and 7 countries, respectively. The corresponding number of countries where this percentage was between 60% and 100% is 21, 12, and 3, respectively.

Table 13

Causa of dooth	Fatalities from road crashes were:				
Cause of death	>100%	>60%, <100%	<3.5%		
Malignant neoplasm	2	16	21		
Ischaemic heart disease	1	11	12		
Cerebrovascular disease	7	13	3		

Number of countries at the extremes of fatalities from road crashes as a percentage of fatalities from malignant neoplasm, ischaemic heart disease, and cerebrovascular disease.

How fatalities from road crashes can correspond to a high (or low) percentage of fatalities from another cause

For a country to have fatalities from road crashes corresponding to a high percentage of fatalities from another cause requires either a high fatality rate per population from road crashes, or a low fatality rate from the other cause, or both. The converse applies to a low percentage. (Because both of the rates are per population, these statements apply to the absolute numbers as well.)

Let us consider the following three examples. In the first example, the United Arab Emirates and Qatar are the two countries where fatalities from road crashes represented the two highest percentages of fatalities from all causes. This is the case primarily because these two countries had the two lowest fatality rates from all causes. (Their rank order in terms of the fatality rate from road crashes was only the 32nd and 60th highest, respectively.) In the second example, the SUN countries (Sweden, the United Kingdom, and the Netherlands) were all among the seven countries with the lowest fatalities from road crashes as a percentage of fatalities from all causes. This is primarily the case because all three of these countries had a low fatality rate per population from road crashes. Indeed, these countries had the 4th, 5th, and 7th lowest rates, respectively. (Their rank order in terms of the fatality rate from all causes was only the 64th, 55th, and 105th highest, respectively.) In the third example, in the Netherlands fatalities from road crashes represented the second lowest percentage of fatalities from malignant neoplasm. This was the case because the Netherlands had both a low fatality rate per population from road crashes (9th lowest) and a high fatality rate per population from malignant neoplasm (16th highest).

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Appendix A

	Fatality rates per 100,000 population from leading causes of death					
Country	All causes	Malignant neoplasm	Ischaemic heart disease	Cerebrovascular disease	Road crashes	
WORLD	844	113	108	91	18	
Afghanistan	1612	43	115	42	24	
Albania	884	162	172	192	10	
Algeria	506	60	43	52	12	
Andorra	819	202	101	82	13	
Angola	1362	38	42	52	27	
Antigua and Barbuda	684	128	88	53	4	
Argentina	810	163	91	57	12	
Armenia	1362	217	342	190	15	
Australia	668	194	118	59	7	
Austria	886	237	175	64	8	
Azerbaijan	889	116	187	163	8	
Bahamas	530	94	39	39	16	
Bahrain	296	37	27	10	22	
Bangladesh	719	65	102	51	13	
Barbados	805	178	75	60	10	
Belarus	1356	196	580	214	19	
Belgium	937	244	132	73	10	
Belize	463	58	35	25	31	
Benin	1110	46	48	59	20	
Bhutan	846	80	129	66	15	
Bolivia	675	55	52	40	13	
Bosnia and Herzegovina	939	162	146	182	6	
Botswana	1006	33	44	53	21	
Brazil	631	99	70	64	22	
Brunei Darussalam	310	51	25	19	14	
Bulgaria	1459	243	304	305	14	
Burkina Faso	1365	39	34	41	23	
Burundi	1413	52	45	58	22	
Cambodia	840	62	63	48	15	
Cameroon	1453	45	59	74	27	
Canada	704	208	126	47	8	
Cape Verde	509	52	35	44	16	
Central African Republic	1671	46	64	79	32	
Chad	1717	40	49	60	24	
Chile	568	132	58	52	13	
China	716	149	77	158	22	
Colombia	454	76	61	31	17	
Comoros	914	48	46	59	18	
Congo	1240	48	60	70	34	
Cook Islands	444	48	57	50	6	
Costa Rica	444	92	62	26	18	
Côte d'Ivoire	1499	41	72	83	23	
Croatia	1203	301	277	189	15	
Cuba	789	194	162	85	9	
Cuba	663	194	162	61	12	
Czech Republic	998	267	276	112	9	
Dem. Rep. of the Congo	1607	42	42	52	21	
Dem. Rep. of the Congo Denmark	983	290	122	52 87	6	

Appendix A (continued)

	Fa	Fatality rates per 100,000 population from leading causes of death						
Country	All causes	Malignant neoplasm	Ischaemic heart disease	Cerebrovascular disease	Road crashes			
Djibouti	903	48	97	34	30			
Dominica	759	156	74	90	7			
Dominican Republic	650	80	97	73	32			
Ecuador	512	99	33	29	19			
Egypt	556	62	97	64	20			
El Salvador	699	83	80	26	29			
Equatorial Guinea	1314	50	55	70	28			
Eritrea	601	37	31	38	15			
Estonia	1242	269	364	119	12			
Ethiopia	1235	47	54	68	28			
Fiji	642	80	98	84	4			
Finland	897	205	215	77	7			
France	842	259	69	55	7			
Gabon	944	49	58	68	22			
Gambia	921	51	40	48	17			
Georgia	1153	135	465	278	12			
Germany	1009	265	189	82	6			
Ghana	946	54	56	59	22			
Greece	879	246	117	137	15			
Grenada	631	132	67	59	11			
Guatemala	594	67	32	12	5			
Guinea	1389	52	58	71	26			
Guinea-Bissau	1675	53	61	75	25			
Guyana	840	68	121	94	27			
Haiti	923	54	29	78	5			
Honduras	616	79	84	51	11			
Hungary	1274	318	335	136	12			
Iceland	609	172	116	50	6			
India	838	54	106	70	17			
Indonesia	736	95	107	61	21			
Iran	532	64	120	59	38			
Iraq	707	51	89	33	32			
Ireland	636	185	119	47	6			
Israel	527	145	67	29	4			
Italy	976	277	147	109	9			
Jamaica	769	117	115	66	14			
Japan	893	275	83	105	5			
Jordan	483	55	76	52	27			
Kazakhstan	1159	142	311	150	22			
Kenya	942	54	35	40	20			
Kiribati	739	37	8	94	6			
Kuwait	175	23	40	20	14			
Kyrgyzstan	839	84	238	137	21			
Laos	794	68	92	61	17			
Latvia	1379	274	439	244	17			
Lebanon	614	119	140	52	27			
Lesotho	1559	40	67	78	30			
Liberia	1165	44	43	54	16			
Libya	472	61	106	36	21			

Appendix A (continued)

	Fatality rates per 100,000 population from leading causes of death						
Country	All causes	Malignant neoplasm	Ischaemic heart disease	Cerebrovascular disease	Road crashes		
Lithuania	1305	252	449	175	17		
Luxembourg	736	201	96	66	8		
Macedonia	970	170	131	214	6		
Madagascar	715	57	39	47	13		
Malawi	1627	51	63	75	32		
Malaysia	494	75	84	44	30		
Maldives	380	136	24	19	2		
Mali	1323	50	32	36	15		
Malta	769	190	178	83	3		
Marshall Islands	1225	86	168	162	4		
Mauritania	956	48	38	47	22		
Mauritius	702	83	108	68	15		
Mexico	519	66	71	32	13		
Micronesia	595	50	61	65	6		
Moldova	1242	168	447	203	16		
Monaco	819	233	85	68	11		
Mongolia	571	119	42	88	31		
Montenegro	976	178	100	117	10		
Morocco	528	62	107	38	17		
Mozambique	1559	49	58	70	30		
Myanmar	1232	92	117	68	10		
Namibia	1089	29	62	69	45		
Nauru	1094	104	131	53	24		
Nepal	634	69	73	39	9		
Netherlands	805	255	77	57	4		
New Zealand	678	199	135	62	10		
Nicaragua	439	59	54	30	11		
Niger	1237	34	25	29	10		
Nigeria	1304	49	47	58	16		
Niue	560	60	74	63	10		
North Korea	857	113	116	63	11		
Norway	860	232	126	77	5		
Oman	331	38	81	18	12		
Pakistan	835	57	111	57	11		
Palau	523	69	69	60	7		
Panama	476	88	51	40	16		
Papua New Guinea	704	60	68	34	12		
Paraguay	459	77	50	46	20		
Peru	475	87	32	24	12		
Philippines	564	54	64	45	9		
Poland	1000	261	207	105	16		
Portugal	964	250	98	150	10		
Qatar	141	230	16	4	20		
Romania	1163	216	266	223	15		
Russian Federation	1474	191	466	318	24		
Rwanda	998	51	36	45	17		
Saint Kitts and Nevis	801	144	86	125	17		
Saint Kitts and Nevis	593	103	46	61	17		
Sann Lucia	575	103	40	01	15		

Appendix A (continued)

Sandi Arabia 404 35 83 19 21 Senegal 785 42 29 35 13 Serbía 1261 260 178 212 12 Seychelles 727 142 46 62 8 Singapore 491 146 103 41 6 Slovakia 985 224 340 115 14 Slovakia 985 224 340 11 5 Solomon Islands 1560 43 80 16 5 South Kroca 527 156 43 80 16 Suitaka 899 85 80 40 12 Sudan 1013 41 95 56		Fa	Fatality rates per 100,000 population from leading causes of death						
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	Zimbabwe	1468	58	42	50	14			

Appen	dix	B
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	Fatalities from road	crashes as % of fat	alities from other lead	ding causes of death
Country	All causes	Malignant neoplasm	Ischaemic heart disease	Cerebrovascular disease
WORLD	2.1	15.9	16.7	19.6
	1.5	56.3	20.9	57.4
Afghanistan Albania	1.5	6.0	5.6	5.0
	2.3	19.5	27.4	22.6
Algeria				
Andorra	1.6	6.4 71.5	12.7 64.5	15.7 52.6
Angola			5.0	
Antigua and Barbuda	0.6	3.4		8.3
Argentina	1.5	7.5	13.4	21.3
Armenia	1.1	7.0	4.5	8.0
Australia	1.0	3.6	5.9	11.9
Austria	0.9	3.2	4.4	12.0
Azerbaijan	0.9	6.9	4.3	4.9
Bahamas	3.0	16.8	40.4	40.5
Bahrain	7.3	58.5	79.6	208.5
Bangladesh	1.8	20.5	13.0	25.9
Barbados	1.3	5.8	13.7	17.4
Belarus	1.4	9.7	3.3	8.9
Belgium	1.1	4.2	7.9	14.2
Belize	6.7	54.0	89.6	124.5
Benin	1.8	43.6	41.8	33.8
Bhutan	1.8	19.4	12.0	23.5
Bolivia	2.1	25.6	26.8	35.0
Bosnia and Herzegovina	0.6	3.4	3.8	3.1
Botswana	2.1	62.7	47.3	39.7
Brazil	3.5	22.0	31.4	34.2
Brunei Darussalam	4.4	27.0	54.5	71.2
Bulgaria	1.0	5.8	4.6	4.6
Burkina Faso	1.7	59.3	69.3	57.6
Burundi	1.6	42.6	49.2	38.0
Cambodia	1.8	24.8	24.3	32.1
Cameroon	1.8	58.8	44.9	35.8
Canada	1.2	4.0	6.7	18.1
Cape Verde	3.1	30.7	45.2	36.5
Central African Republic	1.9	68.5	49.7	40.2
Chad	1.4	59.8	49.4	40.1
Chile	2.3	9.8	22.2	24.8
China	3.0	14.6	28.1	13.8
Colombia	3.7	22.2	27.4	55.0
Comoros	1.9	36.9	38.5	30.1
Congo	2.8	75.1	57.9	49.5
Cook Islands	1.3	13.0	9.8	11.2
Costa Rica	4.1	19.0	28.4	68.9
Côte d'Ivoire	1.6	56.9	32.3	28.1
Croatia	1.2	4.9	5.3	7.7
Cuba	1.1	4.6	5.5	10.5
Cyprus	1.8	9.3	9.6	19.0
Czech Republic	0.9	3.4	3.3	8.0
Dem. Rep. of the Congo	1.3	51.0	51.1	41.3
Denmark	0.6	1.9	4.6	6.4

	Fatalities from road	crashes as % of fata	alities from other lea	ding causes of death
Country	All causes	Malignant neoplasm	Ischaemic heart disease	Cerebrovascular disease
Djibouti	3.4	63.4	31.2	89.4
Dominica	0.9	4.2	8.9	7.4
Dominican Republic	4.9	39.9	32.8	43.8
Ecuador	3.7	19.4	59.0	67.1
Egypt	3.5	31.4	20.3	30.6
El Salvador	4.1	34.8	36.0	111.8
Equatorial Guinea	2.1	56.8	50.7	40.5
Eritrea	2.6	41.6	49.5	40.6
Estonia	1.0	4.5	3.3	10.1
Ethiopia	2.3	60.7	52.3	41.6
Fiji	0.6	4.5	3.6	4.2
Finland	0.7	3.2	3.1	8.5
France	0.8	2.6	9.9	12.3
Gabon	2.3	44.7	37.4	32.1
Gambia	1.9	33.7	42.7	35.7
Georgia	1.0	8.8	2.6	4.3
Germany	0.6	2.3	3.3	7.5
Ghana	2.3	40.3	38.5	36.5
Greece	1.7	6.1	12.8	11.0
Grenada	1.8	8.5	16.6	18.8
Guatemala	0.8	6.8	14.2	38.5
Guinea	1.9	49.4	44.5	36.3
Guinea-Bissau	1.5	48.0	41.8	33.9
Guyana	3.3	40.4	22.7	29.4
Haiti	0.6	10.1	18.6	7.0
Honduras	1.7	13.4	12.5	20.8
Hungary	1.0	3.8	3.6	8.9
Iceland	1.0	3.5	5.2	12.0
India	2.0	31.1	15.8	23.8
Indonesia	2.9	22.3	19.8	34.8
Iran	7.1	59.2	31.7	64.3
Iraq	4.5	62.6	35.9	96.4
Ireland	1.0	3.5	5.4	13.5
Israel	0.8	2.7	6.0	14.0
Italy	0.9	3.2	6.0	8.1
Jamaica	1.8	12.1	12.3	21.4
Japan	0.6	2.0	6.5	5.1
Jordan	5.7	50.3	35.9	52.7
Kazakhstan	1.9	15.6	7.1	14.7
Kenya	2.1	37.3	57.8	50.7
Kiribati	0.8	15.2	71.5	6.1
Kuwait	7.9	60.9	34.1	69.5
Kyrgyzstan	2.6	25.7	9.0	15.7
Laos	2.2	25.0	18.7	28.2
Latvia	1.2	6.3	3.9	7.0
Lebanon	4.4	22.6	19.2	51.1
Lesotho	1.9	75.5	45.3	38.6
Liberia	1.3	35.3	36.0	29.1
Libya	4.4	34.3	19.8	57.6

Appendix B (continued)

Fatalities from road crashes as % of fatalities from other leading causes of death Cerebrovascular Country Malignant Ischaemic heart All causes neoplasm disease disease 1.3 6.7 3.8 9.7 Lithuania 12.3 Luxembourg 1.1 4.1 8.6 4.2 Macedonia 0.6 3.2 2.6 22.3 32.5 26.7 Madagascar 1.8 63.9 43.0 Malawi 2.0 51.1 39.7 35.4 67.2 Malaysia 6.0 Maldives 0.6 1.7 9.6 11.7 Mali 1.1 29.2 46.1 40.8 Malta 0.4 1.8 1.9 4.0 Marshall Islands 0.3 4.3 2.2 2.3 2.3 45.4 Mauritania 56.4 46.3 13.5 Mauritius 2.1 17.6 21.3 19.1 17.9 40.1 Mexico 2.4 Micronesia 1.1 12.6 10.3 9.6 7.7 Moldova 1.3 9.3 3.5 Monaco 1.3 4.7 12.9 16.2 Mongolia 5.5 26.2 75.0 35.6 9.9 Montenegro 1.0 5.5 8.4 43.0 Morocco 3.1 26.5 15.5 42.3 1.9 61.1 51.5 Mozambique 0.8 11.1 15.0 Myanmar 8.8 153.9 Namibia 4.1 72.3 65.2 Nauru 2.2 23.1 18.2 44.9 1.4 12.6 11.9 22.7 Nepal Netherlands 0.6 1.7 5.7 7.8 New Zealand 1.5 7.7 5.2 16.7 2.6 19.3 38.2 Nicaragua 21.1 0.8 28.5 39.3 34.1 Niger 1.3 33.7 34.6 28.3 Nigeria Niue 2.0 18.5 15.1 17.7 North Korea 1.2 9.4 9.2 16.8 2.3 Norway 0.6 4.3 7.0 Oman 3.6 31.2 14.6 65.5 19.9 1.4 19.8 10.3 Pakistan Palau 1.4 10.5 10.6 12.1 3.3 17.6 30.5 38.9 Panama Papua New Guinea 1.7 20.6 18.0 36.1 4.5 26.5 40.7 44.6 Paraguay Peru 2.6 14.4 39.2 52.5 Philippines 1.6 16.8 14.1 20.3 Poland 1.6 6.2 7.9 15.6 1.2 4.8 12.2 8.0 Portugal 14.3 70.5 123.9 529.7 Qatar Romania 1.3 6.8 5.6 6.6 12.6 5.2 7.6 Russian Federation 1.6 1.7 37.7 Rwanda 33.2 47.4 Saint Kitts and Nevis 2.1 11.8 19.9 13.6 Saint Lucia 2.5 14.3 31.9 23.9 Saint Vincent and the Grenadines 1.2 8.0 6.9 10.6

Appendix B (continued)

Fatalities from road crashes as % of fatalities from other leading causes of death Country Cerebrovascular Malignant Ischaemic heart All causes neoplasm disease disease 1.0 18.5 9.2 8.3 Samoa 6.3 8.5 San Marino 0.9 3.0 Sao Tome and Principe 14.1 23.3 1.6 30.4 5.1 58.8 25.1 109.1 Saudi Arabia 1.7 44.7 37.4 Senegal 31.1 0.9 4.6 6.7 5.6 Serbia Sevchelles 1.1 5.5 17.1 12.7 Sierra Leone 1.6 61.2 73.3 61.2 Singapore 1.2 4.0 5.7 14.1 Slovakia 1.5 6.4 4.2 12.4 1.2 3.8 9.0 11.2 Slovenia Solomon Islands 11.2 1.1 11.7 11.7 0.7 21.3 13.2 21.4 Somalia South Africa 1.3 17.7 42.2 37.4 South Korea 3.0 10.1 36.9 19.7 9.3 Spain 0.8 3.0 6.9 Sri Lanka 1.3 13.7 14.6 29.4 Sudan 89.4 38.1 64.6 3.6 3.3 28.1 29.7 18.4 Suriname 2.4 91.8 60.6 51.3 Swaziland Sweden 0.5 2.0 2.5 5.1 Switzerland 0.5 2.1 3.5 7.8 Syria 3.5 43.4 18.9 27.9 Tajikistan 0.4 6.4 2.8 6.4 Tanzania 1.8 56.9 47.3 41.1 Thailand 5.1 42.1 55.8 40.6 27.0 Timor-Leste 1.1 14.8 14.2 1.5 33.2 33.2 27.3 Togo 7.1 0.6 6.0 5.0 Tonga 2.2 Trinidad and Tobago 16.6 13.4 24.9 Tunisia 3.7 23.2 19.5 50.2 Turkey 10.8 1.7 9.4 7.8 Turkmenistan 1.1 14.1 4.2 22.5 0.8 7.6 Tuvalu 6.7 6.4 Uganda 1.9 47.9 60.4 52.0 Ukraine 1.3 11.6 2.8 8.9 15.9 United Arab Emirates 133.1 95.4 299.0 United Kingdom 0.5 1.9 3.3 5.5 7.7 United States of America 1.8 10.1 30.8 Uruguay 1.0 4.2 8.6 8.1 23.0 12.5 Uzbekistan 1.6 5.6 Vanuatu 9.7 9.9 10.2 1.1 Venezuela 7.3 47.9 46.0 93.6 Viet Nam 3.7 25.5 26.9 17.5 4.3 79.7 102.0 Yemen 36.6 1.8 55.3 Zambia 51.3 42.5

Appendix B (continued)

1.0

Zimbabwe

24.3

34.1

28.5