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MORTALITY FROM ROAD CRASHES IN 183 COUNTRIES: A COMPARISON WITH LEADING CAUSES OF DEATH

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MORTALITY FROM ROAD CRASHES IN 183 COUNTRIES: A COMPARISON WITH LEADING CAUSES OF DEATH

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16. Abstract		
This study compared,	for individual countries, fa	talities from road crashes with
fatalities from three leading caus	ses of death (malignant neopla	sms, ischaemic heart disease, and
strakes) and from all anyong T	be raw data applicable to 20	015, came from the World Health

Organization.

The main findings are as follows:

- (1) For the world, fatalities from road crashes represented 2.4% of fatalities from all causes. The highest percentage was in Oman (9.4%) and the lowest in Sweden (0.3%). The percentage in the United States was 1.3%.
- (2) For the world, fatalities from road crashes corresponded to 15.4% of fatalities from malignant neoplasms. The highest percentage was in Gambia (122.7%) and the lowest in the United Kingdom (1.1%). The percentage in the United States was 5.8%.
- (3) For the world, fatalities from road crashes corresponded to 15.3% of fatalities from ischaemic heart disease. The highest percentage was in Kenya (180.6%) and the lowest in Ukraine (1.3%). The percentage in the United States was 7.3%.
- (4) For the world, fatalities from road crashes corresponded to 21.5% of fatalities from strokes. The highest percentage was in Qatar (166.1%) and the lowest in Bulgaria (2.5%). The percentage in the United States was 26.5%.

The appendix lists the 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)	22. Price		
None	None	22	

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Introduction

This study was designed to place road fatalities in the broader public-health context of fatalities from leading causes of death. Specifically, the study compared mortality from road crashes with mortality from three leading causes of death: malignant neoplasms (cancer), ischaemic heart disease, and strokes. The analysis was performed for each member country of the World Health Organization (WHO). The raw data came from WHO and are applicable for 2015. This study is an update of Sivak and Schoettle (2014), which used data for 2008.¹

Method

Estimated fatalities in 2015 from all causes, road crashes, malignant neoplasms, ischaemic heart disease, and strokes for the 183 individual WHO member countries (WHO, 2017) were the raw data for the analysis. The variables of interest were fatalities from road crashes as a percentage of fatalities from each of the other three causes of death and from all causes.

¹ According to WHO (2017), "due to changes in data and some methods, these [2015] estimates are not comparable to previously-released WHO estimates."

Results

Tables 1 through 4 present fatalities from road crashes as a percentage of the following leading causes of death for each country: all causes, malignant neoplasms, ischaemic heart disease, and strokes. For each cause of death, these tables include the 25 countries with the highest and lowest percentages, plus the following countries (if they are not already among the 25 highest or lowest ranked countries): the Unites States, Canada, Mexico, Argentina, Brazil, France, Germany, the United Kingdom, Australia, the Russian Federation, China, India, Japan, and South Korea. The 25 countries with the highest and lowest percentages are also mapped in Figures 1 through 4. (A complete list of these percentages for each of the 183 countries is shown in the appendix.)

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

For the world, fatalities from road crashes represented 2.4% of fatalities from all causes (Table 1). The highest percentage for an individual country (9.4% in Oman) was 31 times the lowest percentage (0.3% in Sweden). The percentage in the United States was 1.3%.

In the following 10 countries, road crashes were responsible for the highest percentages of all fatalities: Oman, Qatar, Saudi Arabia, Venezuela, Kuwait, Jordan, Iran, United Arab Emirates, Rwanda, and Sao Tome and Principe (Table 1). The 10 countries with the lowest percentages were Sweden, the United Kingdom, Micronesia, Kiribati, Denmark, Germany, the Netherlands, Spain, Norway, and Switzerland.

The countries with the highest percentages (Figure 1) tended to be in South America, Africa, the Middle East, and Southeast Asia. Twenty of the 25 countries with the lowest percentages were in Europe.

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 Table 1

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

	a percentage of fatan	
Rank	Country	%
1	Oman	9.4
2	Qatar	8.6
3	Saudi Arabia	8.1
4	Venezuela	7.5
5	Kuwait	7.2
6	Jordan	6.2
7	Iran	6.1
8	United Arab Emirates	6.0
9	Rwanda	5.3
10	Sao Tome and Principe	5.3
11	Zimbabwe	5.2
12	Libya	5.0
13	Algeria	4.8
14	Madagascar	4.8
15	Dominican Republic	4.7
16	Senegal	4.6
17	Malaysia	4.5
18	Kenya	4.4
19	Paraguay	4.4
20	Tanzania	4.3
21	Viet Nam	4.1
21	Liberia	4.1
22	Eritrea	4.1
23		
	Ecuador	4.0
25	Cape Verde	4.0
33	Brazil	3.7
68	India	2.9
74	China	2.7
88	Mexico	2.4
	World	2.4
95	South Korea	2.2
112	Argentina	1.8
129	United States	1.3
130	Russian Federation	1.2
145	Australia	0.8
145	Canada	0.8
159	Ukraine	0.6
160	Ireland	0.6
161	Austria	0.6
162	Serbia	0.6
163	Czechia	0.6
164	Israel	0.6
165	Hungary	0.6
166	France	0.6
167	Iceland	0.6
168	Estonia	0.5
169	Italy	0.5
170	Bulgaria	0.5
170	Barbados	0.5
171		0.5
172	Finland	
	Japan Societate d	0.5
174	Switzerland	0.5
175	Norway	0.4
176	Spain	0.4
177	Netherlands	0.4
178	Germany	0.4
179	Denmark	0.4
180	Kiribati	0.4
181	Micronesia	0.3
182	United Kingdom	0.3
183	Sweden	0.3
		5.5

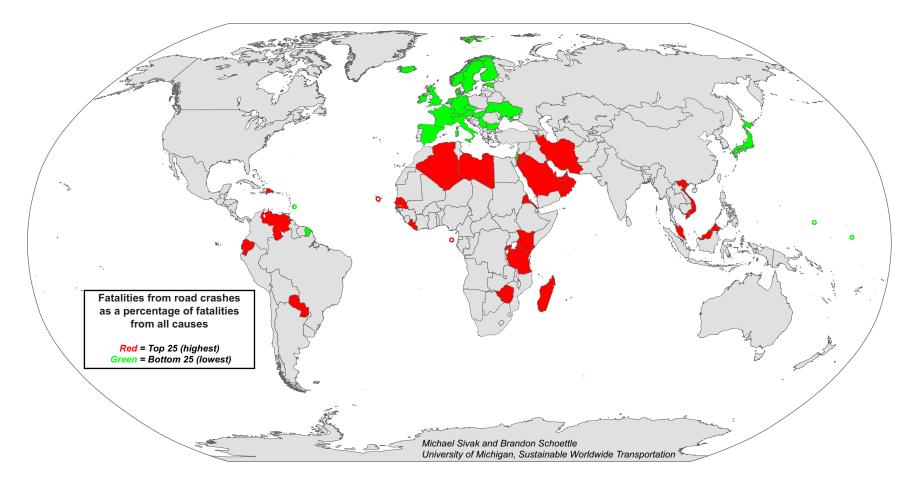


Figure 1. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from all causes of death.

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

For the world, the number of fatalities from road crashes corresponded to 15.4% of fatalities from malignant neoplasms (Table 2). The highest percentage for an individual country (122.7% in Gambia) was 112 times the lowest percentage (1.1% in the United Kingdom). The percentage in the United States was 5.8%.

In the following 10 countries, fatalities from road crashes corresponded to the highest percentages of fatalities from malignant neoplasms: Gambia, Niger, Oman, Liberia, Zimbabwe, Benin, Saudi Arabia, Sierra Leone, Burkina Faso, and Guinea-Bissau (Table 2). The 10 countries where fatalities from road crashes corresponded to the lowest percentages of fatalities from malignant neoplasms were the United Kingdom, Denmark, Sweden, the Netherlands, Germany, Spain, Norway, Japan, Switzerland, and Italy.

The 25 countries with the highest percentages were all located either in Africa or the Middle East (Figure 2). Twenty of the 25 countries with the lowest percentages were in Europe.

 Table 2

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

I Gambia 122.7 2 Niger 105.1 3 Oman 99.0 4 Liberia 89.0 5 Zimbabwe 82.5 6 Benin 80.2 7 Saudi Arabia 80.1 8 Sierra Leone 79.1 9 Burkina Faso 77.1 10 Guinea-Bissau 75.7 11 Guinea 75.2 12 Senegal 74.6 13 Kuwait 74.5 14 Togo 74.5 15 Angola 74.2 16 Congo 71.5 17 Dem. Rep. of the Congo 66.9 18 Central African Republic 66.7 19 Tanzania 65.5 20 Mauritania 61.0 21 Chad 64.4 22 Yemen 64.2 23 Namibia 61.9 24	1 Gambia 2 Niger 3 Oman	w
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166 Barbados 2.3 167 Israel 2.2 168 Estonia 2.2 169 Ireland 2.1 170 Slovenia 2.1 171 Iceland 2.1 172 Finland 2.0 173 France 1.9 174 Italy 1.9 175 Switzerland 1.7 176 Japan 1.5 177 Norway 1.5 178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2		
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172 Finland 2.0 173 France 1.9 174 Italy 1.9 175 Switzerland 1.7 176 Japan 1.5 177 Norway 1.5 178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland	
173 France 1.9 174 Italy 1.9 175 Switzerland 1.7 176 Japan 1.5 177 Norway 1.5 178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia	2.1
174 Italy 1.9 175 Switzerland 1.7 176 Japan 1.5 177 Norway 1.5 178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland	
175 Switzerland 1.7 176 Japan 1.5 177 Norway 1.5 178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland	2.0
176 Japan 1.5 177 Norway 1.5 178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France	2.0 1.9
177 Norway 1.5 178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy	2.0 1.9 1.9 1.7
178 Spain 1.5 179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy175Switzerland	2.0 1.9 1.9 1.7 1.5
179 Germany 1.5 180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy175Switzerland176Japan	2.0 1.9 1.9 1.7 1.5
180 Netherlands 1.3 181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy175Switzerland176Japan177Norway	2.0 1.9 1.9 1.7 1.5 1.5
181 Sweden 1.2 182 Denmark 1.2	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy175Switzerland176Japan177Norway178Spain179Germany	2.0 1.9 1.9 1.7 1.5 1.5 1.5 1.5
	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy175Switzerland176Japan177Norway178Spain179Germany	2.0 1.9 1.7 1.5 1.5 1.5 1.5 1.5 1.3
	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy175Switzerland176Japan177Norway178Spain179Germany180Netherlands	2.0 1.9 1.7 1.5 1.5 1.5 1.5 1.3 1.2
183 United Kingdom 1.1	167Israel168Estonia169Ireland170Slovenia171Iceland172Finland173France174Italy175Switzerland176Japan177Norway178Spain179Germany180Netherlands181Sweden182Denmark	2.0 1.9 1.7 1.5 1.5 1.5 1.5 1.3 1.2

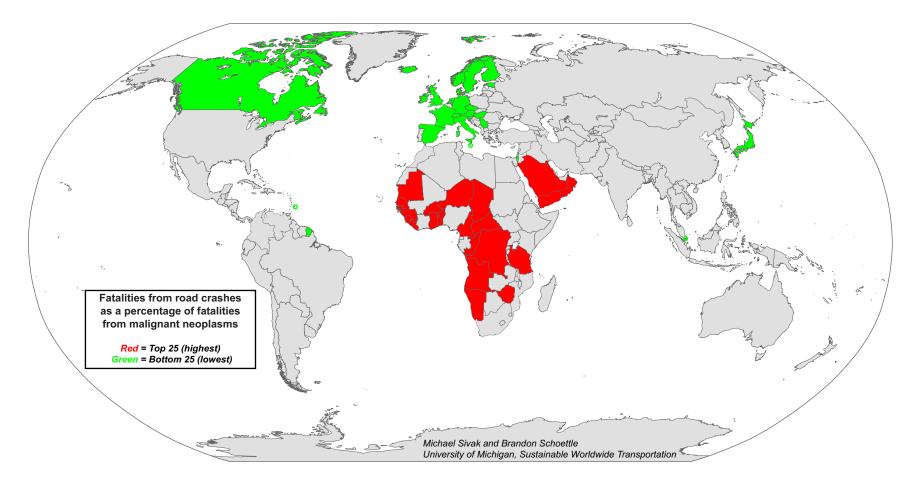


Figure 2. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from malignant neoplasms.

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 15.3% of fatalities from ischaemic heart disease (Table 3). The highest percentage for an individual country (180.6% in Kenya) was 139 times the lowest percentage (1.3% in Ukraine). The percentage in the United States was 7.3%.

In the following 10 countries, fatalities from road crashes corresponded to the highest percentages of fatalities from ischaemic heart disease (Table 3): Kenya, Zimbabwe, Uganda, Burundi, Rwanda, Democratic Republic of the Congo, Somalia, Mozambique, Malawi, and Tanzania. The 10 countries where fatalities from road crashes corresponded to the lowest percentages of fatalities from ischaemic heart disease were Ukraine, Estonia, Bulgaria, Sweden, Germany, Hungary, Belarus, Latvia, Romania, and Czechia.

All 25 countries with the highest percentages were in sub-Saharan Africa (Figure 3). Twenty-three of the 25 countries with the lowest percentages were in Europe.

 Table 3

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

	a percentage of fatalitie	
Rank	Country	%
1	Kenya	180.6
2	Zimbabwe	148.8
3	Uganda	126.7
4	Burundi	115.7
5	Rwanda	108.6
6	Dem. Rep. of the Congo	107.4
7	Somalia	102.3
8	Mozambique	98.6
9	Malawi	98.3
10	Tanzania	93.5
11	South Sudan	88.6
12	Madagascar	88.5
13	Sao Tome and Principe	86.5
14	Liberia	81.0
15	Comoros	77.9
15	Zambia	77.3
		75.8
17	Eritrea	
18	Niger	73.7
19	Gambia	66.9
20	Senegal	66.9
21	Togo	59.4
22	Central African Republic	58.1
23	Ethiopia	57.8
24	Chad	57.6
25	Guinea	57.2
58	Brazil	28.6
69	South Korea	24.1
82	India	19.2
92	China	16.8
96	Mexico	15.8
	World	15.3
115	Argonting	10.2
113	Argentina	10.2
115	Argentina United States	7.3
124	United States	7.3
124 131 132	United States Australia Canada	7.3 5.6 5.5
124 131 132 134	United States Australia Canada France	7.3 5.6 5.5 5.2
124 131 132 134 150	United States Australia Canada France Japan	7.3 5.6 5.5 5.2 3.9
124 131 132 134 150 152	United States Australia Canada France Japan Russian Federation	7.3 5.6 5.5 5.2 3.9 3.6
124 131 132 134 150 152 159	United States Australia Canada France Japan Russian Federation Spain	7.3 5.6 5.5 5.2 3.9 3.6 3.1
124 131 132 134 150 152 159 160	United States Australia Canada France Japan Russian Federation Spain Italy	7.3 5.6 5.5 5.2 3.9 3.6 3.1 3.1
124 131 132 134 150 152 159 160 161	United States Australia Canada France Japan Russian Federation Spain Italy Greece	7.3 5.6 5.5 5.2 3.9 3.6 3.1 3.1 2.9
$ \begin{array}{r} 124 \\ 131 \\ 132 \\ 134 \\ 150 \\ 152 \\ 159 \\ 160 \\ 161 \\ 162 \\ \end{array} $	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia	7.3 5.6 5.5 5.2 3.9 3.6 3.1 3.1 2.9 2.9
$ \begin{array}{r} 124 \\ 131 \\ 132 \\ 134 \\ 150 \\ 152 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ \end{array} $	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway	7.3 5.6 5.5 3.9 3.6 3.1 2.9 2.9 2.8
$ \begin{array}{r} 124 \\ 131 \\ 132 \\ 134 \\ 150 \\ 152 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164 \\ \end{array} $	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7
$\begin{array}{c} 124\\ 131\\ 132\\ 134\\ 150\\ 152\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ \end{array}$	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.7
$\begin{array}{c} 124\\ 131\\ 132\\ 134\\ 150\\ 152\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ \end{array}$	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.7 2.6
$\begin{array}{c} 124\\ 131\\ 132\\ 134\\ 150\\ 152\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ \end{array}$	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.7 2.6 2.5
$\begin{array}{c} 124\\ 131\\ 132\\ 134\\ 150\\ 152\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ \end{array}$	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.6 2.5
$\begin{array}{c} 124\\ 131\\ 132\\ 134\\ 150\\ 152\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ \end{array}$	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.7 2.6 2.5 2.5
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.6 2.5 2.5 2.5 2.4
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.6 2.5 2.5 2.5 2.4 2.3
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.6 2.5 2.5 2.4 2.3 2.2
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia	7.3 5.6 5.5 5.2 3.9 3.6 3.1 2.9 2.8 2.7 2.6 2.5 2.5 2.4 2.3 2.2 2.0
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.4 \\ 2.3 \\ 2.2 \\ 2.0 \\ 2.0 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.3 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.4 \\ 2.3 \\ 2.2 \\ 2.0 \\ 2.0 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia Romania	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.3 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia Romania Latvia Belarus	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.3 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 171 172 173 174 175 176 177	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia Romania Latvia	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia Romania Latvia Belarus Hungary Germany	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \\ 1.9 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia Romania Latvia Belarus Hungary Germany Sweden	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.4 \\ 2.4 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \\ 1.9 \\ 1.6 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia Romania Latvia Belarus Hungary Germany Sweden Bulgaria	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.3 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \\ 1.9 \\ 1.6 \\ 1.6 \\ 1.6 \end{array}$
124 131 132 134 150 152 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180	United States Australia Canada France Japan Russian Federation Spain Italy Greece Georgia Norway Iceland Croatia Switzerland Austria Moldova United Kingdom Malta Lithuania Finland Micronesia Czechia Romania Latvia Belarus Hungary Germany Sweden	$\begin{array}{c} 7.3 \\ 5.6 \\ 5.5 \\ 5.2 \\ 3.9 \\ 3.6 \\ 3.1 \\ 3.1 \\ 2.9 \\ 2.9 \\ 2.8 \\ 2.7 \\ 2.7 \\ 2.6 \\ 2.5 \\ 2.5 \\ 2.4 \\ 2.4 \\ 2.3 \\ 2.2 \\ 2.0 \\ 2.0 \\ 2.0 \\ 2.0 \\ 1.9 \\ 1.6 \end{array}$

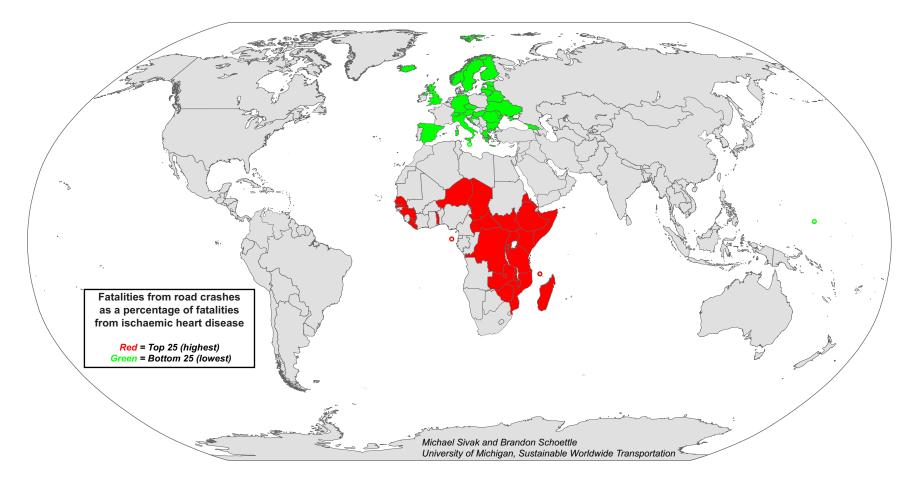


Figure 3. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from ischaemic heart disease.

Fatalities from road crashes as a percentage of fatalities from strokes

For the world, the number of fatalities from road crashes corresponded to 21.5% of fatalities from strokes (Table 4). The highest percentage for an individual country (166.1% in Qatar) was 66 times the lowest percentage (2.5% in Bulgaria). The percentage in the United States was 26.5%.

In the following 10 countries, fatalities from road crashes corresponded to the highest percentages of fatalities from strokes (Table 4): Qatar, Zimbabwe, Oman, Kenya, Malawi, Tanzania, Rwanda, Zambia, Venezuela, and Burkina Faso. The 10 countries where fatalities from road crashes corresponded to the lowest percentages of fatalities from strokes were Bulgaria, Kiribati, Micronesia, Montenegro, Latvia, Romania, Macedonia, Ukraine, Sweden, and Georgia.

The countries with the highest percentages (Figure 4) tended to be in sub-Saharan Africa and the Middle East. The countries with the lowest percentages were primarily in Europe.

oad cra		
Rank	Country	%
1	Qatar	166.1
2	Zimbabwe	143.8
3	Oman	138.3
4 5	Kenya	117.2 115.8
6	Malawi	103.7
7	Tanzania Rwanda	103.7
8	Zambia	101.7
9	Venezuela	98.4
10	Burkina Faso	94.3
11	Uganda	87.9
12	Burundi	86.0
13	Liberia	80.1
14	Guatemala	79.0
15	Kuwait	77.2
16	Dem. Rep. of the Congo	76.4
17	Saudi Arabia	75.9
18	South Sudan	74.9
19	Somalia	74.1
20	Niger	70.0
21 22	Mozambique	70.0 69.0
22	Sao Tome and Principe Ethiopia	68.6
23	Ecuador	66.7
25	Gambia	65.5
59	Mexico	44.0
60	Brazil	43.6
65	India	40.1
91	United States	26.5
94	Argentina	24.8
	World	21.5
100	0 I XX	
109	South Korea	21.2
118	Canada	16.5
118 126	Canada China	16.5 12.8
118 126 128	Canada China Australia	16.5 12.8 12.3
118 126 128 141	Canada China Australia France	16.5 12.8 12.3 9.6
118 126 128 141 158	Canada China Australia France Russian Federation	16.5 12.8 12.3 9.6 6.2
118 126 128 141 158 159	Canada China Australia France Russian Federation Norway	16.5 12.8 12.3 9.6 6.2 6.1
118 126 128 141 158	Canada China Australia France Russian Federation	16.5 12.8 12.3 9.6 6.2
118 126 128 141 158 159 160	Canada China Australia France Russian Federation Norway Belarus	16.5 12.8 12.3 9.6 6.2 6.1
118 126 128 141 158 159 160 161	Canada China Australia France Russian Federation Norway Belarus Netherlands	16.5 12.8 12.3 9.6 6.2 6.1 6.1 6.1 6.0
$ \begin{array}{r} 118 \\ 126 \\ 128 \\ 141 \\ 158 \\ 159 \\ 160 \\ 161 \\ 162 \\ 163 \\ 164 \\ \end{array} $	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary	16.5 12.8 12.3 9.6 6.2 6.1 6.1 6.1 6.0 5.9
118 126 128 141 158 159 160 161 162 163 164	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark	16.5 12.8 12.3 9.6 6.2 6.1 6.1 6.1 6.0 5.9 5.8
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom	16.5 12.8 12.3 9.6 6.2 6.1 6.1 6.1 6.1 6.1 5.9 5.8 5.3 5.2 4.9
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172 \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ \end{array}$
118 126 128 141 158 159 160 161 162 163 164 165 166 167 168 169 170 172 173	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.6\end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172\\ 173\\ 174 \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ \end{array}$
118 126 128 141 158 159 160 161 162 163 164 165 166 167 168 169 170 172 173	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia Sweden	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ 4.4 \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172\\ 173\\ 174\\ 175 \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ 4.4\\ 4.2\\ \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172\\ 173\\ 174\\ 175\\ 176 \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia Sweden Ukraine	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ 4.4 \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172\\ 173\\ 174\\ 175\\ 176\\ 177\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia Sweden Ukraine Macedonia	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ 4.4\\ 4.2\\ 4.1\\ \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172\\ 173\\ 174\\ 175\\ 176\\ 177\\ 178 \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia Sweden Ukraine Macedonia Romania	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ 4.4\\ 4.2\\ 4.1\\ 3.9\\ 3.8\\ 3.7 \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172\\ 173\\ 174\\ 175\\ 176\\ 177\\ 178\\ 179\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia Sweden Ukraine Macedonia Romania Latvia Montenegro	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ 4.4\\ 4.2\\ 4.2\\ 3.9\\ 3.8\\ 3.7\\ 3.2 \end{array}$
$\begin{array}{c} 118\\ 126\\ 128\\ 141\\ 158\\ 159\\ 160\\ 161\\ 162\\ 163\\ 164\\ 165\\ 166\\ 167\\ 168\\ 169\\ 170\\ 171\\ 172\\ 173\\ 174\\ 175\\ 176\\ 177\\ 178\\ 179\\ 180\\ \end{array}$	Canada China Australia France Russian Federation Norway Belarus Netherlands Hungary Germany Spain Denmark Finland Italy Croatia United Kingdom Serbia Barbados Greece Japan Georgia Sweden Ukraine Macedonia Romania Latvia Montenegro	$\begin{array}{c} 16.5\\ 12.8\\ 12.3\\ 9.6\\ 6.2\\ 6.1\\ 6.1\\ 6.1\\ 6.1\\ 6.0\\ 5.9\\ 5.8\\ 5.6\\ 5.3\\ 5.2\\ 4.9\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.7\\ 4.6\\ 4.5\\ 4.4\\ 4.2\\ 4.1\\ 3.9\\ 3.8\\ 3.7 \end{array}$

 Table 4

 Fatalities from road crashes as a percentage of fatalities from strokes.

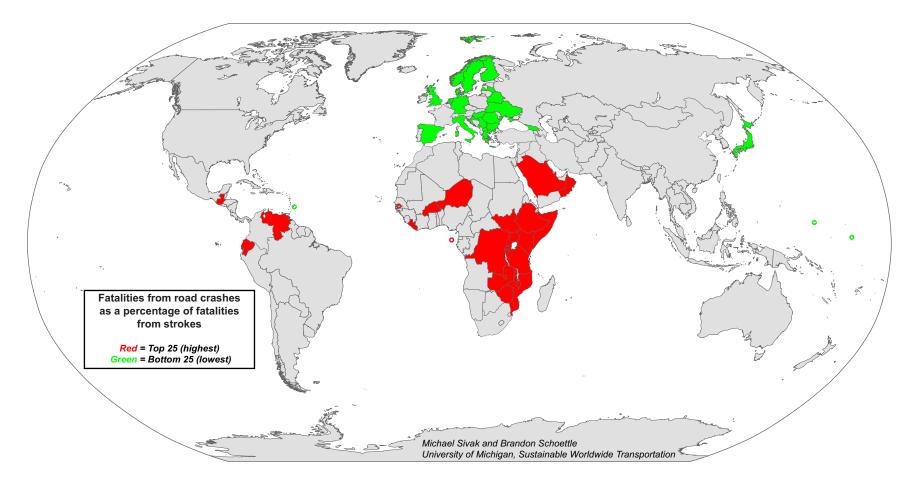


Figure 4. The 25 countries with the highest (red) and lowest (green) fatalities from road crashes as a percentage of fatalities from strokes.

Discussion

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

For the world, fatalities from road crashes represented 2.4% of fatalities from all causes (Table 1). For three countries on one extreme, this percentage exceeded 8% (9.4% in Oman, 8.6% in Qatar, and 8.1% in Saudi Arabia). On the other extreme, in three countries this percentage was 0.3% (Sweden, the United Kingdom, and Micronesia). The percentage in the United States was 1.3%.

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

The key findings concerning fatalities from road crashes as a percentage of fatalities from malignant neoplasms, ischaemic heart disease, and strokes are presented in Table 5. For the world, these percentages were 15.4%, 15.3%, and 21.5%, respectively.

 Table 5

 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 neoplasms	15.4%	5.8%	122.7% (Gambia)	1.1% (United Kingdom)	112
Ischaemic heart disease	15.3%	7.3%	180.6% (Kenya)	1.3% (Ukraine)	139
Strokes	21.5%	26.5%	166.1% (Qatar)	2.5% (Bulgaria)	66

Table 6 lists the number of countries where fatalities from road crashes exceeded 100%, were between 60% and 100%, or were less than 3% of fatalities from each of these three leading causes of death. Of particular note is the fact that the number of fatalities from road crashes exceeded the number of fatalities from malignant neoplasms, ischaemic heart disease, and strokes in 2, 7, and 8 countries, respectively. The corresponding number of countries where this percentage was between 60% and 100% is 22, 13, and 22, respectively.

Table 6

Cause of death	Fatal	ities from road cr	es from road crashes			
Cause of death	>100%	60% to 100%	<3%			
Malignant neoplasms	2	22	30			
Ischaemic heart disease	7	13	23			
Strokes	8	22	2			

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

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 per population 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.² In the first example, Oman 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 low fatality rates per population from all causes (Oman the 5th lowest, and Qatar the lowest). (Their rank order in terms of the fatality rate per population from road crashes was only the 38th and 116th highest, respectively.) In the second example, all three of the SUN countries (Sweden, the United Kingdom, and the Netherlands) had very low fatalities from road crashes as a percentage of fatalities from all causes (the 1st, 2nd, and 7th lowest, respectively). This is primarily the case because all three countries had a low fatality rate per population from road crashes. Indeed, these countries had the 4th, 3rd, and 10th lowest rates, respectively. (Their rank order in terms of the fatality rate per population from all causes was only the 51st, 57th, and 63rd highest, respectively.) In the third example, fatalities from road crashes in the Netherlands represented the 4th lowest percentage of fatalities from malignant neoplasms. This was the case because the Netherlands had both a low fatality rate per population from road crashes (10th lowest) and a high fatality rate per population from malignant neoplasms (12th highest).

 $^{^{2}}$ The fatality rates per population in these examples are based on the raw data in WHO (2017).

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Appendix

	Fatalities from	road crashes as % of	fatalities from leading ca	uses of death
Country	All causes	Malignant neoplasms	Ischaemic heart disease	Strokes
WORLD	2.4	15.4	15.3	21.5
Afghanistan	1.9	27.8	16.4	27.1
Albania	1.8	7.7	7.2	8.5
Algeria	4.8	38.7	27.9	41.1
Angola	1.8	74.2	56.7	47.6
Antigua and Barbuda	1.9	9.7	13.0	23.9
Argentina	1.8	8.6	10.2	24.8
Armenia	1.6	5.9	5.2	13.7
Australia	0.8	2.9	5.6	12.3
Austria	0.6	2.3	2.5	9.5
Azerbaijan	1.5	9.9	3.9	11.1
Bahamas	1.7	10.0	12.2	23.0
Bahrain	3.0	26.5	14.0	53.5
Bangladesh	2.4	21.5	18.3	16.1
Barbados	0.5	2.3	4.3	4.7
Belarus	0.9	6.0	2.0	6.1
Belgium	0.7	2.7	5.3	11.2
Belize	3.7	34.4	34.8	54.5
Benin	3.1	80.2	47.3	47.7
Bhutan	2.4	29.2	14.5	32.8
Bolivia	3.5	32.4	31.8	45.2
Bosnia and Herzegovina	1.6	8.9	7.4	8.8
Botswana	3.0	47.7	41.4	46.4
Brazil	3.7	21.1	28.6	43.6
Brunei Darussalam	2.3	10.6	15.6	28.1
Bulgaria	0.5	3.0	1.6	2.5
Burkina Faso	3.5	77.1	56.2	94.3
Burundi	3.5	55.5	115.7	86.0
Cambodia	3.2	23.9	23.7	28.7
Cameroon	2.7	59.8	54.0	46.7
Canada	0.8	2.7	5.5	16.5
Cape Verde	4.0	45.5	26.2	22.7
Central African Republic	2.3	66.7	58.1	40.0
Chad	1.9	64.8	57.6	40.0
Chile	2.0	8.0	17.7	21.8
China	2.0	11.6	16.8	12.8
Colombia	3.7	11.6	22.1	56.2
Colombia	3.9	57.0	77.9	60.4
	3.9	71.5	56.1	55.5
Congo Costa Pice				46.5
Costa Rica	3.1	13.4	19.1	
Côte d'Ivoire		54.3	32.8	30.9
Croatia	0.7	2.8	2.7	5.2
Cuba	0.9	3.6	4.4	9.4
Cyprus	0.9	3.9	4.8	12.9
Czechia	0.6	2.5	2.0	7.0
Dem. Rep. of the Congo	3.5	66.9	107.4	76.4
Denmark	0.4	1.2	3.5	5.8
Djibouti	3.1	45.8	51.6	47.6
Dominican Republic	4.7	28.6	25.6	47.6

(continued)

Appendix (continued)

	Fatalities from	road crashes as % of	fatalities from leading ca	uses of death
Country	All causes	Malignant neoplasms	Ischaemic heart disease	Strokes
Ecuador	4.0	24.4	40.1	66.7
Egypt	2.1	15.9	9.6	21.5
El Salvador	2.9	18.1	18.4	62.7
Equatorial Guinea	2.0	44.8	36.1	40.0
Eritrea	4.1	49.8	75.8	56.7
Estonia	0.5	2.2	1.5	7.9
Ethiopia	3.8	54.6	57.8	68.6
Fiji	0.8	7.3	4.5	10.6
Finland	0.5	2.0	2.2	5.6
France	0.6	1.9	5.2	9.6
Gabon	2.8	53.2	36.3	34.3
Gambia	3.7	122.7	66.9	65.5
Georgia	0.9	6.4	2.9	4.5
Germany	0.4	1.5	1.9	6.0
Ghana	3.1	61.0	38.4	36.2
Greece	0.7	3.0	2.9	4.7
Grenada	0.8	4.2	5.1	8.1
Guatemala	3.7	37.4	39.2	79.0
Guinea	2.9	75.2	57.2	53.1
Guinea-Bissau	2.7	75.7	51.1	50.7
Guyana	1.9	23.8	10.8	16.6
Haiti	1.8	25.1	15.4	17.6
Honduras	3.7	25.1	24.2	49.8
Hungary	0.6	2.3	1.9	6.0
Iceland	0.6	2.1	2.7	8.4
India	2.9	36.0	19.2	40.1
Indonesia	2.2	18.6	15.3	12.0
Iran	6.1	38.4	24.8	52.3
Iraq	3.3	33.1	19.9	45.2
Ireland	0.6	2.1	3.6	9.9
Israel	0.6	2.2	5.2	10.5
Italy	0.5	1.9	3.1	5.3
Jamaica	1.5	7.9	13.6	11.3
Japan	0.5	1.5	3.9	4.6
Jordan	6.2	42.0	34.2	62.8
Kazakhstan	2.7	12.7	13.7	27.5
Kenya	4.4	44.9	180.6	117.2
Kiribati	0.4	3.8	3.9	2.9
Kuwait	7.2	74.5	25.3	77.2
Kyrgyzstan	3.2	29.9	8.9	23.8
Laos	2.2	19.4	17.7	23.9
Latvia	0.7	3.1	2.0	3.8
Lebanon	3.1	19.9	9.1	34.3
Lesotho	2.0	47.3	41.6	44.3
Liberia	4.1	89.0	81.0	80.1
Libya	5.0	40.5	21.4	46.5
Lithuania	0.9	4.3	2.3	6.4
Luxembourg	1.2	4.1	7.2	16.6
Macedonia	0.8	4.1	4.5	4.1

(continued)

Appendix (continued)

Country	Fatalities from	Malignant	Ischaemic heart	
-	All causes	neoplasms	disease	Strokes
Madagascar	4.8	50.4	88.5	61.7
Malawi	3.8	42.7	98.3	115.8
Malaysia	4.5	28.2	22.1	43.3
Maldives	1.0	6.7	4.7	11.1
Mali	2.5	58.5	53.2	50.1
Malta	0.7	2.6	2.4	7.9
Mauritania	3.1	65.0	45.7	50.0
Mauritius	1.7	13.9	9.7	21.3
Mexico	2.4	19.5	15.8	44.0
Micronesia	0.3	2.9	2.0	3.2
Moldova	1.0	6.8	2.5	6.6
Mongolia	3.1	16.4	14.7	18.2
Montenegro	1.0	4.6	4.2	3.7
Morocco	3.3	25.4	18.5	29.7
Mozambique	3.2	40.9	98.6	70.0
Myanmar	2.4	19.7	34.7	17.3
Namibia	3.5	61.9	45.4	58.4
Nepal	2.6	29.5	16.1	31.8
Netherlands	0.4	1.3	3.2	6.1
New Zealand	0.9	3.1	4.8	10.8
Nicaragua	3.1	22.7	21.7	43.3
Niger	3.2	105.1	73.7	70.0
Nigeria	1.7	47.3	49.2	45.1
North Korea	2.2	12.6	17.1	10.6
Norway	0.4	1.5	2.8	6.1
Oman	9.4	99.0	47.6	138.3
Pakistan	2.0	24.2	10.2	24.8
Panama	2.1	12.2	15.5	25.7
Papua New Guinea	2.2	17.9	21.5	25.8
Paraguay	4.4	27.7	30.7	40.0
Peru	2.5	14.7	20.8	40.6
Philippines	1.6	15.7	8.8	12.3
Poland	0.9	3.8	3.4	8.1
Portugal	0.8	2.9	6.5	6.3
Qatar	8.6	49.8	54.2	166.1
Romania	0.7	3.4	2.0	3.9
Russian Federation	1.2	7.1	3.6	6.2
Rwanda	5.3	44.9	108.6	101.8
Saint Lucia	2.6	13.2	23.8	21.5
Saint Vincent and the Grenadines	1.8	9.3	11.0	17.2
Samoa	3.0	34.5	16.6	29.4
Sao Tome and Principe	5.3	57.5	86.5	69.0
Saudi Arabia	8.1	80.1	36.7	75.9
Senegal	4.6	74.6	66.9	60.5
Serbia	0.6	2.7	3.3	4.7
Seychelles	1.0	5.5	6.8	14.3
Sierra Leone	2.0	79.1	41.3	38.7
Singapore	0.8	2.5	4.2	11.5
Slovakia	0.9	3.2	3.2	9.3

(continued)

Appendix (continued)

Country	Fatalities from road crashes as % of fatalities from leading causes of death			
	All causes	Malignant neoplasms	Ischaemic heart disease	Strokes
Slovenia	0.7	2.1	3.3	6.7
Solomon Islands	3.5	32.8	26.5	33.1
Somalia	2.1	49.5	102.3	74.1
South Africa	2.2	19.5	28.6	35.3
South Korea	2.2	7.2	24.1	21.2
South Sudan	2.8	46.1	88.6	74.9
Spain	0.4	1.5	3.1	5.9
Sri Lanka	2.5	18.2	12.4	21.9
Sudan	3.3	58.4	22.8	36.3
Suriname	2.6	18.3	17.8	17.8
Swaziland	2.7	47.8	43.9	48.5
Sweden	0.3	1.2	1.6	4.4
Switzerland	0.5	1.7	2.6	8.1
Syria	2.5	25.9	13.8	33.0
Tajikistan	3.2	35.8	14.3	28.0
Tanzania	4.3	65.5	93.5	103.7
Thailand	3.9	22.8	34.1	38.9
Timor-Leste	2.5	24.5	25.3	30.2
Togo	3.6	74.5	59.4	57.7
Tonga	1.0	5.3	6.8	11.3
Trinidad and Tobago	1.4	9.4	7.5	15.7
Tunisia	3.5	32.0	21.8	23.9
Turkey	1.6	6.7	8.6	15.8
Turkmenistan	2.3	21.3	7.1	16.3
Uganda	3.7	42.9	126.7	87.9
Ukraine	0.6	4.4	1.3	4.2
United Arab Emirates	6.0	55.3	24.2	53.1
United Kingdom	0.3	1.1	2.4	4.9
United States of America	1.3	5.8	7.3	26.5
Uruguay	1.8	7.1	14.3	22.0
Uzbekistan	1.6	20.5	4.8	18.3
Vanuatu	3.2	28.2	19.8	27.2
Venezuela	7.5	46.6	41.3	98.4
Viet Nam	4.1	22.2	38.4	22.9
Yemen	3.8	64.2	19.2	34.0
Zambia	3.1	50.2	77.3	101.7
Zimbabwe	5.2	82.5	148.8	143.8