

Sex-specific and age-specific suicide mortality by method in 58 countries between 2000 and 2015

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ABSTRACT

Objective To examine recent changes in sex-specific and age-specific suicide mortality by method across countries.

Methods Using mortality data from the WHO mortality database, we compared sex-specific, age-specific and country-specific suicide mortality by method between 2000 and 2015. We considered seven major suicide methods: poisoning by pesticides, all other poisoning, firearms and explosives, hanging, jumping from height, drowning and other methods. Changes in suicide mortality were quantified using negative binomial models among three age groups (15–44 years, 45–64 years, and 65 years and above) for males and females separately.

Results Suicide mortality declined substantially for both sexes and all three age groups studied in 37 of the 58 included countries between 2000 and 2015. Males consistently had much higher suicide mortality rates than females in all 58 countries. Hanging was the most common suicide method in the majority of 58 countries. Sex-specific suicide mortality varied across 58 countries significantly for all three age groups. The spectrum of suicide method generally remained stable for 28 of 58 included countries; notable changes occurred in the other 30 countries, including especially Colombia, Finland and Trinidad and Tobago.

Conclusion Likely as a result of prevention efforts as well as sociodemographic changes, suicide mortality decreased substantially in 37 of the included 58 countries between 2000 and 2015. Further actions are needed to explore specific drivers of the recent changes (particularly for increases in eight countries), to understand substantial disparities in suicide rates across countries, and to develop interventions to reduce suicide rates globally.

INTRODUCTION

Suicide is a significant public health problem internationally and is responsible for over 793 800 deaths in 2017 according to estimates from the Global Burden of Disease (GBD) study group.¹ Although suicide mortality varies substantially by sex and age group and across regions and countries,² suicide places among the top three causes of death for people aged 15–44 years in several countries.¹ The United Nations lists suicide prevention as a specific target in the Sustainable Development Goals (SDGs), 'reducing by one-third premature mortality from non-communicable diseases by 2030 (including suicide)'.³ In the past few decades, successful suicide prevention measures have been developed in many countries to reduce self-harm and suicide. Implemented strategies include improved access to mental health and welfare services, reduced use of alcohol and promotion of responsible media reporting about suicide.² Perhaps the most successful suicide prevention strategy, however, is restricting access to lethal means.^{2 4 5} This prevention strategy has been widely promoted to prevent suicide by international organisations such as WHO and the UNICEF, individual governments, non-government organisations, as well as injury researchers in the last decade.⁶⁻⁹

In order to best promote efforts to prevent suicide, including by restricting access to lethal means, it is important to understand the patterns of sex-specific and age-specific suicide mortality by method across individual countries around the world. Previous research offers some indication of these patterns. One publication, for example, reported varying spectrums of suicide methods and method-specific suicide mortality across sex, age groups, and regions and countries before 2005,¹⁰ revealing hanging as the predominant method of suicide in most countries and firearms suicide in the USA. In addition, a few studies report suicide mortality patterns for specific suicide methods among certain age groups in a single nation or region.¹¹⁻¹⁵ As an example, one study reported that firearm suicide mortality decreased globally from 1990 to 2016.¹¹ Another study on suicide by charcoal burning showed that charcoal-burning suicide mortality increased significantly in some East/Southeast Asian countries/territories in the first decade of the 21st century.¹² No published study examines, however, recent changes within countries across the world in sex-specific and agespecific suicide mortality by method. Since epidemiological characteristics may change as the result of prevention efforts and socioeconomic development, this knowledge would be valuable for prevention planning by a range of stakeholders.

The WHO mortality database is a freely available data source with national-level mortality data reported by all WHO Member States from 1979 to 2016.¹⁶ The database provides detailed data on the methods used in suicide, extending beyond the two cause/method groups (self-harm by firearm and selfharm by other specified means) used in the GBD database.¹

Using the latest WHO mortality data, therefore, we compared sex-specific and age-specific suicide

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METHODS

Data source

Suicide mortality data were extracted from the WHO mortality database, which provides detailed death registration data for about 150 countries and regions.¹⁶ To ensure we obtained the most statistically reliable data possible concerning sex-specific, age-specific and method-specific suicide mortality rates, we applied the following criteria to determine eligible countries for this study: (1) country/territory's vital registration data were assessed as medium or high quality by WHO¹⁷; (2) at least 8 years of data were available between 2000 and 2015 in the WHO mortality database; (3) at least 100 suicide deaths were reported for people aged 15 years and older in a single year and (4) deaths were coded using the 10th International Classification of Disease (ICD-10). In total, 58 countries or territories met the inclusion criteria.

Methods of suicide

Following the approach by Ajdacic-Gross *et al*,¹⁰ we classified suicide into seven categories based on the ICD-10 codes: (1) poisoning by pesticides (X68); (2) all other poisoning (X60–X67, X69); (3) firearms and explosives (X72–X75), (4) hanging (X70); (5) jumping from height (X80); (6) drowning (X71); (7) other methods (X76–79, X81–84).

Data analysis

We performed interpolation and (or) extrapolation to impute the missing values from 2000 to 2015 for each country.¹⁷ Specifically, the mean death rate of the first or last 3 years was extrapolated to impute the missing values in the starting or ending years. For missing values occurring in the middle of the time series, we replaced them with the mean death rate of all available data in a 7-year window (3 years on either side around the year with missing values).¹⁷ The following missing values were estimated using these strategies: Australia, 2005; Austria, 2000, 2001; Bulgaria, 2000-2004, 2015; Canada, 2014, 2015; Costa Rica, 2000, 2015; Cuba, 2000; France, 2015; Guatemala, 2000-2004, 2015; Guyana, 2000, 2014, 2015; Hong Kong Special Administrative Region (Hong Kong SAR), 2000; Ireland, 2000-2006, 2015, Italy, 2000-2002; Mauritius, 2000-2004, 2015; New Zealand, 2014, 2015; Panama, 2015; Philippines, 2004, 2005, 2012-2015; Portugal, 2000, 2001, 2004-2006, 2015; Slovakia, 2011, 2015; Suriname, 2015; TFYR Macedonia, 2000-2005, 2014, 2015; Trinidad and Tobago, 2012-2015; UK, 2000; Uruguay, 2011; Uzbekistan, 2000-2003, 2006-2008, 2015 and Venezuela, 2014, 2015. In addition, we used a previously published method¹⁸ to redistribute injury deaths coded as undetermined intent (ICD-10 codes: Y10-Y34).

We analysed data for persons aged ≥ 15 years because suicide is uncommon in children and early adolescence and determining suicidal intent in younger children can be difficult.¹⁹ According to previous studies,^{20 21} age was divided into four groups: 15–24 years, 25–44 years, 45–64 years and 65 years and older. Following preliminary analyses, we decided to combine adolescents and young adults into one age group (15–44 years) because they showed very similar suicide method patterns and changing trends in most countries. We calculated age-adjusted mortality rates using the direct standardisation method, in which the new WHO world standard population (WHO millennium)²² was used as the reference population. A univariate negative binomial regression model was run to examine the significance of changes in mortality between 2000 and 2015, using percentage change in mortality rate and its 95% CI. The percentage change was calculated as '(mortality rate ratio-1)×100', while the mortality rate ratio was calculated by dividing the mortality rate for 2015 with the corresponding rate of 2000.²³

We first analysed the changing patterns of suicide for both sex. Then, method-specific subgroup analyses by sex and age group were conducted. Statistical analyses were completed using Stata V.12.1 (StataCorp).

RESULTS

Suicide among people aged 15-44 years old

Between 2000 and 2015, the total number of suicide deaths in the 58 included countries among adults aged 15-44 years decreased from 80647 to 61180. The male to female suicide mortality ratio ranged from 2.0 in Republic of Korea to 12.3 in Puerto Rico in 2000, and from 1.7 in Uzbekistan to 8.5 in Latvia in 2015.

For males, suicide mortality decreased in 37 countries but increased in 8 countries between 2000 and 2015, with the largest decrease in South Africa (-69%, 95% CI -73% to -65%) and the greatest increase in Ecuador (50%, 95% CI 31% to 73%) (table 1). Suicide mortality ranged greatly across the 58 countries in 2000 (from 4.8 to 85.9 per 100 000 people in Philippines and in Lithuania, respectively) and in 2015 (from 2.2 to 73.4 per 100000 people in South Africa and in Guyana, respectively) (table 1). Between 2000 and 2015, the leading suicide method changed from other poisoning to hanging in Finland, from firearms and explosives to hanging in Columbia and South Africa, from pesticide poisoning to hanging in Trinidad and Tobago, and from hanging to pesticide poisoning in Suriname between 2000 and 2015 (figure 1, online supplementary tables S1 and S2). The most common suicide method was hanging in 54 of the 58 countries in 2015. Pesticide poisoning was most common in two countries, and firearms and explosives and jumping from a height in one country each (figure 1, online supplementary table S2).

For females, suicide mortality experienced a decrease in 19 countries (greatest in South Africa: -65%, 95% CI -73% to -55%) but an increase in eight countries (greatest in Mexico: 98%, 95% CI 76% to 122%) between 2000 and 2015 (table 1). Female suicide mortality rates also varied substantially across the 58 countries, with a 12-fold gap in 2000 (20.0 per 100000 people in Guyana and 1.6 per 100000 people in Mexico) and a 40-fold gap in 2015 (24.4 per 100000 people in Guyana and 0.6 per 100000 people in South Africa) (table 1). Between 2000 and 2015, the leading suicide method transferred from other poisoning to hanging in seven countries (New Zealand, France, Sweden, Puerto Rico, UK, Colombia, TFYR Macedonia), and from hanging to other poisoning in Germany and Mauritius (figure 1, online supplementary tables S1 and S2). In 2015, hanging, other poisoning, pesticide poisoning and jumping from a height were the most prevalent suicide methods in 47, 5, 3 and 3 countries for females, respectively (figure 1, online supplementary table S2).

Suicide among people aged 45-64 years old

Among adults aged 45–64 years, the total number of suicide deaths across the 58 countries rose from 57497 in 2000 to 67777 in 2015. The male to female suicide mortality ratio ranged from 1.6 in Netherlands to 10.1 in Puerto Rico in 2000, and from 2.0 in Hong Kong SAR to 9.4 in Guatemala in 2015.

 Table 1
 Age-standardised mortality (/100 000 persons) and per cent change in mortality between 2000 and 2015 among persons aged 15–44 years

	Male			Female		
Location	2000	2015	% change (95% CI)	2000	2015	% change (95% CI)
Lithuania	85.9	55.6	-36 (-44 to -26)	16.2	9.0	-47 (-61 to -26)
Guyana	65.2	73.4	5 (-19 to 35)	20.0	24.4	25 (-20 to 94)
Latvia	54.6	36.1	-32 (-44 to -17)	9.3	4.3	-53 (-73 to -18)
Estonia	46.1	27.3	-44 (-58 to -26)	9.9	3.7	-60 (-80 to -18)
Finland	43.2	22.8	-48 (-55 to -39)	11.4	6.6	-42 (-57 to -22)
Suriname	42.8	50.1	14 (-21 to 65)	13.3	19.2	37 (–28 to 163)
Hungary	42.2	19.6	-51 (-56 to -45)	7.5	5.2	-26 (-42 to -6)
Slovenia	37.5	22.6	-36 (-50 to -19)	10.0	4.4	–56 (–75 to –23)
Belgium	32.9	22.1	-33 (-40 to -25)	10.8	7.1	-35 (-46 to -20)
New Zealand	32.7	25.3	-20 (-33 to -4)	6.4	9.3	43 (2 to 101)
Poland	30.8	26.0	-14 (-18 to -9)	4.8	3.2	-34 (-43 to -23)
reland	29.8	23.4	-20 (-33 to -4)	7.2	5.8	-20 (-44 to 15)
Frinidad and Tobago	28.7	24.0	-13 (-36 to 19)	6.2	6.3	3 (-48 to 81)
Australia	27.7	23.5	-14 (-21 to -7)	7.5	7.8	2 (-12 to 18)
Croatia	26.8	16.0	-41 (-52 to -27)	4.6	3.9	-15 (-46 to 34)
Republic of Moldova	26.6	24.4	-8 (-24 to 11)	3.1	4.9	60 (-1 to 160)
Jruguay	26.3	33.5	27 (5 to 53)	5.8	8.1	36 (-8 to 103)
Kyrgyzstan	26.3	17.5	-35 (-45 to -23)	5.5	4.9	-14 (-39 to 21)
Switzerland	26.2	14.7	-45 (-53 to -35)	8.3	4.9	-42 (-56 to -24)
Czech Republic	25.9	14.7	-24 (-33 to -14)	4.7	3.5	-42 (-36 to -24)
lapan	25.4	24.9	0 (-4 to 3)	9.6	9.5	0 (-6 to 6)
rance	23.4	17.7	-28 (-32 to -25)	7.1	4.8	-33 (-40 to -26)
	24.8	14.9	-28 (-32 to -23) -37 (-48 to -23)	7.0	7.3	-33 (-40 to -20) 5 (-24 to 47)
lorway						
Austria	24.0	17.8	-26 (-36 to -14)	6.7	5.1	-27 (-45 to -4)
Canada	23.7	18.6	-22 (-28 to -17)	6.3	6.6	3 (-10 to 17)
Chile	23.3	18.6	-20 (-27 to -12)	3.9	5.1	29 (4 to 60)
ierbia	22.5	14.1	-35 (-45 to -23)	7.0	4.5	-34 (-51 to -10)
blovakia	22.1	17.3	-19 (-32 to -4)	3.9	2.2	-45 (-66 to -11)
long Kong SAR	21.1	16.5	-21 (-33 to -6)	10.2	7.8	-18 (-34 to 3)
Romania	20.4	16.3	-15 (-23 to -6)	3.1	2.0	-31 (-47 to -9)
JSA	19.9	23.4	17 (14 to 20)	4.6	7.0	44 (38 to 51)
Denmark	19.4	10.4	-47 (-57 to -34)	5.4	4.2	-22 (-46 to 15)
weden	18.4	17.1	-7 (-20 to 8)	7.6	8.4	7 (–15 to 35)
Republic of Korea	18.3	25.1	41 (33 to 48)	9.0	13.8	58 (47 to 71)
Puerto Rico	18.1	9.4	-47 (-60 to -30)	1.5	1.5	4 (–54 to 136)
Nauritius	18.1	18.2	1 (-31 to 47)	6.1	8.0	28 (-31 to 139)
Germany	17.8	13.4	-26 (-30 to -22)	4.6	4.4	-8 (-17 to 2)
IK	17.4	14.3	-18 (-23 to -13)	4.5	4.1	-9 (-19 to 2)
luba	17.1	12.6	-25 (-35 to -14)	6.8	2.9	-58 (-68 to -44)
Costa Rica	16.7	13.5	-18 (-34 to 2)	2.5	2.4	-2 (-44 to 72)
Argentina	16.0	18.2	13 (5 to 21)	3.8	4.5	19 (3 to 37)
/enezuela	15.8	7.1	-55 (-59 to -50)	2.6	1.3	-50 (-61 to -35)
srael	15.0	7.7	-49 (-59 to -36)	2.8	1.8	-35 (-60 to 4)
Colombia	13.8	10.2	-26 (-32 to -20)	4.3	3.1	-30 (-39 to -20)
Jzbekistan	13.4	12.4	-6 (-14 to 4)	4.7	7.2	54 (34 to 78)
Portugal	12.8	11.2	-5 (-20 to 12)	3.1	2.5	-12 (-38 to 24)
Vetherlands	12.7	13.2	1 (–11 to 15)	4.9	5.7	7 (–13 to 32)
Panama	11.7	7.0	-39 (-56 to -15)	2.1	1.8	-20 (-60 to 61)
Bulgaria	11.5	12.0	6 (-13 to 30)	3.3	3.0	-10 (-40 to 36)
Spain	10.7	8.2	-18 (-25 to -10)	2.7	2.8	13 (-5 to 34)
Guatemala	10.7	7.0	-30 (-41 to -17)	3.3	2.8	-19 (-38 to 6)
Ecuador	10.5	15.5	50 (31 to 73)	5.0	5.3	3 (–16 to 27)
Mexico	9.0	11.9	31 (25 to 39)	1.6	3.2	98 (76 to 122)
Brazil	8.7	10.5	25 (20 to 30)	2.2	2.9	29 (19 to 40)

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Table 1 Continued

	Male			Female			
Location	2000	2015	% change (95% CI)	2000	2015	% change (95% CI)	
Italy	8.5	7.6	-10 (-18 to -2)	2.3	1.9	-15 (-29 to 1)	
TFYR Macedonia	8.2	8.9	13 (-27 to 74)	2.5	2.9	11 (–49 to 144)	
South Africa	7.3	2.2	-69 (-73 to -65)	1.8	0.6	-65 (-73 to -55)	
Philippines	4.8	5.7	19 (10 to 30)	1.8	1.9	9 (–5 to 25)	

Mortality rates were age adjusted using the new WHO world standard population (WHO millennium).

For males, suicide mortality decreased in 27 countries (greatest decrease in South Africa: -76%, 95% CI -82% to -68%) but rose in 9 countries (greatest increase in Republic of Korea: 57%, 95% CI 48% to 66%) between 2000 and 2015 (table 2). A 30-fold and 55-fold mortality gap, respectively, occurred in 2000 (5.3 per 100000 people in Philippines and 162.3 per 100000 people in Lithuania) and in 2015 (1.6 per 100000 people in South Africa and 88.1 per 100000 people in Lithuania) (table 2). Hanging was the leading suicide method in 46 of the 58 countries in 2000 and in 53 of the 58 in 2015. Between 2000 and 2015, the most prevalent suicide method changed from other poisoning to hanging in New Zealand and Australia, from firearms and explosives to hanging in Switzerland and Columbia, from pesticide poisoning to hanging in Costa Rica, from other methods to hanging in Guatemala, and from pesticide poisoning to other poisoning in Trinidad and Tobago (figure 2, online supplementary tables S3 and S4). The most prevalent suicide method was hanging in 53 countries, pesticide poisoning in 2 countries, and other poisoning, firearms and explosives and jumping from a height in 1 country each in 2015 (figure 2, online supplementary table S4).

For females, suicide mortality decreased in 18 countries (largest in Kyrgyzstan: -61%, 95% CI -79% to -28%) but increased in 6 countries (greatest in Australia: 69%, 95% CI 36% to 110%) between 2000 and 2015 (table 2). Female suicide mortality ranged dramatically across the 58 countries both in 2000 (0.8 per 100 000 people for South Africa to 28.5 per 100 000 people for Lithuania) and in 2015 (0.5 per 100 000 people for South Africa to 18.0 per 100 000 people for Belgium) (table 2). Between 2000 and 2015, the most prevalent suicide method changed from other poisoning to hanging in France, Colombia and UK; from firearms and explosives to hanging in Uruguay; from jumping from a height to hanging in Israel and Italy; from pesticide poisoning to hanging in Republic of Korea and Panama; from hanging to other poisoning in Hungary, Austria and Germany; and from pesticide poisoning to other poisoning in Trinidad and Tobago (figure 2, online supplementary tables S3 and S4). In 2015, the most prevalent suicide method was hanging in 40 countries, other poisoning in 14 countries, pesticide poisoning in 2 countries and jumping from a height in 1 country (figure 2, online supplementary table S4).

Suicide among people aged 65 years and above

Among people aged 65 years and above, the total number of suicide deaths across the 58 countries increased from 37170 in 2000 to 44019 in 2015. The male to female suicide mortality ratio ranged from 1.5 per 100000 people in Suriname to 17.3 per 100000 people in Colombia in 2000, and from 1.9 per 100000 people in Hong Kong SAR to 32.2 per 100000 people in Puerto Rico in 2015.

For males, suicide mortality demonstrated statistically significant declines in 25 countries (largest decrease in Kyrgyzstan: -69%, 95% CI -82% to -44%) but increases in Ecuador and Republic of Korea (largest increase in Ecuador: 226%, 95% CI 97% to 438%) between 2000 and 2015 (table 3). A 24-fold and 37-fold suicide mortality rate gap, respectively, existed across the 58 countries in 2000 (5.3 per 100 000 people in South Africa and 132.4 per 100 000 people in Serbia) and in 2015 (2.8 per 100 000 people in South Africa and 106.0 per 100 000 people

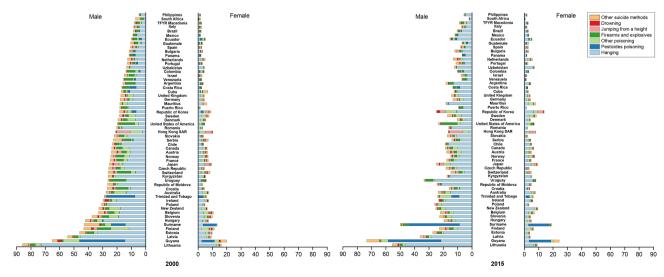


Figure 1 Variation of method-specific suicide mortality rates among persons aged 15–44 years in 2000 and 2015 (/100 000 people) notes: mortality rates were age adjusted using the new WHO world standard population (who millennium).

 Table 2
 Age-standardised mortality (/100 000 persons) and percent change in mortality between 2000 and 2015 among persons aged 45–64 years

	Male			Female		
Location	2000	2015	% change (95% CI)	2000	2015	% change (95% CI)
Lithuania	162.3	88.1	-45 (-52 to -38)	28.5	13.9	-49 (-62 to -31)
Latvia	103.2	47.8	-51 (-60 to -39)	15.3	11.4	-29 (-54 to 9)
Guyana	103.1	65.2	-36 (-57 to -5)	14.7	14.7	-1 (-65 to 127)
Estonia	84.8	31.7	-62 (-72 to -47)	13.1	6.1	–51 (–75 to –2)
Hungary	80.7	48.0	-41 (-46 to -34)	20.8	13.3	-34 (-45 to -20)
Slovenia	65.1	41.6	-33 (-47 to -16)	27.5	11.7	-57 (-71 to -35)
Republic of Moldova	64.9	50.6	-22 (-35 to -5)	9.9	7.8	-24 (-51 to 19)
lapan	60.7	36.2	-41 (-43 to -40)	16.7	13.6	-21 (-25 to -17)
Serbia	49.5	35.1	-27 (-37 to -16)	18.6	9.1	-51 (-62 to -36)
Poland	47.0	43.7	-6 (-12 to 0)	9.1	6.9	-26 (-35 to -14)
Kyrgyzstan	46.7	19.1	-56 (-67 to -42)	7.9	3.2	-61 (-79 to -28)
Finland	45.9	30.4	-35 (-45 to -23)	18.9	9.6	-50 (-63 to -33)
Croatia	43.9	37.0	-14 (-29 to 3)	14.4	12.0	-16 (-39 to 14)
Jruguay	43.0	36.3	-14 (-33 to 9)	8.6	10.8	29 (–19 to 107)
ilovakia	41.7	35.3	-15 (-29 to 1)	9.1	6.2	-31 (-53 to 1)
Belgium	38.4	38.6	0 (-12 to 13)	18.6	18.0	-4 (-19 to 15)
Romania	37.6	30.7	-18 (-25 to -10)	7.6	4.5	-40 (-52 to -26)
Austria	36.8	29.4	-19 (-30 to -6)	12.5	10.4	-15 (-34 to 9)
Republic of Korea	36.1	56.0	57 (48 to 66)	10.0	16.6	64 (47 to 82)
Czech Republic	35.7	30.2	-14 (-25 to -2)	9.8	8.1	-20 (-37 to 4)
witzerland	35.0	25.4	-27 (-38 to -15)	15.0	10.2	-34 (-48 to -15)
rance	33.4	34.1	0 (-5 to 6)	14.1	11.4	-20 (-26 to -12)
Cuba	31.3	28.9	-9 (-20 to 5)	12.6	7.6	-41 (-54 to -25)
Denmark	30.8	23.1	-25 (-38 to -8)	12.4	8.7	-28 (-48 to -1)
rinidad and Tobago	29.9	23.5	-24 (-52 to 21)	4.5	3.9	-18 (-75 to 167)
Chile	29.9	23.5	-24 (-34 to -13)	4.5	5.6	41 (3 to 93)
	28.1	20.7	-25 (-38 to -10)	13.2	10.2	
long Kong SAR						-21 (-40 to 2)
iermany	28.1	22.8	-19 (-23 to -14)	9.8	8.4	-15 (-22 to -8)
ulgaria	27.6	22.8	-16 (-29 to 0)	7.0	5.1	-29 (-50 to 2)
reland	27.4	28.6	3 (-19 to 32)	10.1	6.4	-38 (-60 to -3)
uriname	26.5	48.2	75 (-18 to 272)	6.9	12.9	43 (-63 to 452)
weden	25.0	30.1	20 (3 to 40)	13.0	11.2	-15 (-33 to 7)
uerto Rico	24.9	21.1	-15 (-37 to 14)	2.5	2.8	17 (-48 to 161)
ortugal	24.8	26.1	5 (-10 to 22)	7.6	7.2	-8 (-30 to 20)
rgentina	24.8	15.0	-39 (-45 to -32)	5.8	4.2	-28 (-41 to -12)
anada	23.6	26.9	11 (2 to 21)	8.0	9.4	13 (–3 to 31)
Nauritius	22.6	13.0	-45 (-69 to 0)	4.7	2.2	-48 (-86 to 93)
lorway	21.7	23.5	8 (–15 to 38)	8.5	10.6	28 (-12 to 88)
JSA	21.7	29.7	36 (32 to 40)	6.4	10.7	66 (57 to 75)
FYR Macedonia	20.6	16.9	-16 (-44 to 27)	7.2	5.2	-25 (-63 to 51)
lustralia	20.2	27.1	31 (16 to 47)	5.4	9.3	69 (36 to 110)
lew Zealand	19.6	21.4	6 (–20 to 41)	5.7	7.7	34 (–18 to 119)
zbekistan	19.5	13.6	-28 (-39 to -16)	3.4	1.7	-48 (-65 to -23)
letherlands	17.9	23.9	34 (17 to 53)	11.2	11.4	4 (-13 to 24)
Inited Kingdom	16.3	18.8	16 (7 to 25)	5.5	6.2	13 (-1 to 29)
enezuela	15.0	6.8	-55 (-63 to -45)	1.7	1.1	-38 (-63 to 3)
pain	14.4	15.2	5 (–5 to 16)	5.2	5.5	5 (–1 to 24)
Costa Rica	14.3	15.1	3 (-29 to 49)	1.6	2.2	38 (-51 to 291)
srael	13.2	12.8	-6 (-30 to 27)	4.0	2.6	-40 (-67 to 8)
aly	12.5	13.1	4 (-4 to 14)	4.2	3.9	-7 (-20 to 9)
Irazil	12.4	13.3	8 (1 to 15)	2.6	3.5	34 (19 to 52)
Colombia	12.1	10.2	-15 (-26 to -2)	2.1	1.6	-26 (-47 to 2)
Panama	12.1	6.6	-46 (-69 to -7)	1.4	1.3	-4 (-77 to 302)
Ecuador	9.7	9.7	-1 (-25 to 31)	2.0	2.7	41 (-22 to 152)

2045	0/ shap == (050/ 51)	Female	2045	0/ shap == (05.0/ Cl)
2015	% change (95% CI)	2000	2015	% change (95% CI)
6.3 9.7	-31 (-53 to 0) 20 (8 to 33)	0.9	0.7	-27 (-76 to 117)
9.7	-76 (-82 to -68)	1.1 0.8	1.6 0.5	37 (5 to 80) -42 (-67 to 1)
4.9	-5 (-19 to 12)	1.3	1.2	
	tion (WHO millennium).			
2000 and 201. from firearms Uruguay, Arge a hanging to fir supplementary thod was hang countries; and g from a heigh lementary table ed at a statis Kyrgyzstan: – a Republic of 46%, 95% CI hale suicide mot both 2000 (0. er 100 000 peo e in South Afric ea (table 3). Be de method ch	s and Key finding ntina, Using the V earms ously public tables specific and ing in new pattern other countries w t in 1 substantially e S6). but not all o tically consistently 74%, in all countr Korea most comm 32%, between 20 rtality varied across 8 per trum of suic ple in tries but cha ca and 2015.	s WHO morta shed researc country-spo is of suicide : ith robust su y for both se of the 58 co had much hi ries. Hanging ton suicide r 00 and 2015 is the 58 cou ride methods	h ¹⁰ with mo ecific suicide mortality be bgroup rates xes and all i untries betw gher suicide greplaced no nethod in th Sex-specifi ntries for all generally re	e, this study updates prevore recent sex-specific, age e rates, as well as reportin tween 2000 and 2015 in 5 s. Suicide mortality decline ncluded age groups in most even 2000 and 2015. Male mortality rates than female on-pesticide poisoning as the majority of 58 countries c suicide mortality method three age groups. The spect mained stable in most cour ountries between 2000 an
Rica; from pes and Ecuador; rinidad and To l, Norway and to other pois y tables S5 and d was hanging pesticide pois 1 country (fig	sticide Interpretati from The decrease bago; the effects of Neth- few decades oning global action d S6). government in 42 suicide pre- oning evidence-ba ure 3, media repor	of global and b, WHO has j n to prevent is and policy vention stra sed interven rting ²⁵ and in	mortality in national pre- published sev suicide. The <i>r</i> -makers to tegies ²⁴ and ntions such nproving rish	most countries may reflect evention efforts. ² In the pay yeral documents to advocat ese include efforts to inspir establish or revise nationa to advocate for effectiv as promoting responsible c intervention through cris tzerland and Australia, nov
Female			Mauritius Canada Pertugai Pertugai Perto Rico Sweten Budgaria Hong Kong SAR Chile Triindad and Telago Chile Triindad and Telago Cuba Prance Respublic of Korea	Female

Table 2 Continued

							<u></u>
	Male			Female			
Location	2000	2015	% change (95% CI)	2000	2015	% change (95% CI)	
Guatemala	9.2	6.3	-31 (-53 to 0)	0.9	0.7	-27 (-76 to 117)	
Mexico	8.1	9.7	20 (8 to 33)	1.1	1.6	37 (5 to 80)	
South Africa	6.5	1.6	-76 (-82 to -68)	0.8	0.5	-42 (-67 to 1)	
Philippines	5.3	4.9	-5 (-19 to 12)	1.3	1.2	-3 (-29 to 34)	

Mortality rates were age adjusted using the new WHO wor

in Republic of Korea) (table 3). Between 2 most prevalent suicide method changed explosives to hanging in five countries (U Canada, Colombia and Suriname) and from and explosives in Finland (figure 3, online st S5 and S6). The most common suicide met 50 countries; firearms and explosives in 5 c poisoning, pesticide poisoning and jumping country each in 2015 (figure 3, online suppl

For females, suicide mortality decrease significant rate in 26 countries (largest in 95% CI -90% to -32%) and increased in and USA (greatest in Republic of Korea: 61%) between 2000 and 2015 (table 3). Fem. ranged greatly across the 58 countries in 100000 people in South Africa and 48.2 pe Serbia) and in 2015 (0.3 per 100000 people 32.2 per 100000 people in Republic of Kore 2000 and 2015, the most prevalent suicid from other poisoning to hanging in Costa poisoning to hanging in Republic of Korea pesticide poisoning to other poisoning in Tr from hanging to other poisoning in Finland erlands: and from firearms and explosives in the USA (figure 3, online supplementary In 2015, the most frequent suicide method countries, other poisoning in 13 countries, in 2 countries, and jumping from a height in online supplementary table S6).

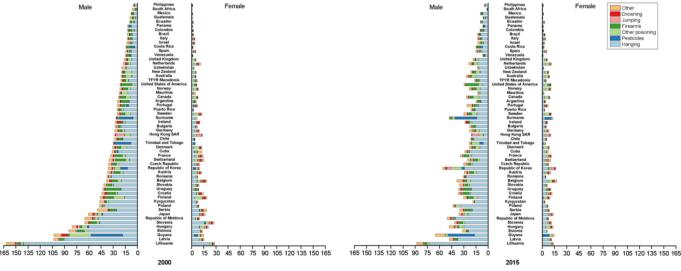


Figure 2 Variation of method-specific suicide mortality rates among persons aged 45–64 years in 2000 and 2015 (/100 000 people) notes: mortality rates were age adjusted using the new who world standard population (who millennium).

 Table 3
 Age-standardised mortality (/100 000 persons) and per cent change in mortality between 2000 and 2015 among persons aged 65 years and older

	Male			Female		
Location	2000	2015	% change (95% CI)	2000	2015	% change (95% CI)
Serbia	132.4	66.8	-45 (-52 to -37)	48.2	20.7	-54 (-62 to -44)
Slovenia	118.2	68.4	-38 (-52 to -19)	30.2	18.6	-40 (-60 to -9)
Hungary	102.3	64.6	-34 (-41 to -25)	36.9	17.3	-51 (-58 to -41)
Latvia	99.8	51.8	-44 (-59 to -24)	25.6	13.8	-45 (-63 to -17)
Lithuania	95.6	86.2	-12 (-29 to 10)	26.6	18.0	-32 (-51 to -6)
Croatia	83.7	59.4	-22 (-36 to -4)	25.5	16.7	-29 (-46 to -6)
Uruguay	81.2	62.0	-21 (-38 to 1)	8.6	8.8	5 (-40 to 82)
Austria	77.8	52.6	–28 (–38 to –17)	16.8	11.7	-29 (-45 to -9)
Cuba	69.0	59.9	-12 (-24 to 0)	18.6	13.1	-27 (-44 to -6)
Estonia	62.6	55.0	-2 (-36 to 50)	26.8	7.0	-70 (-84 to -43)
Republic of Korea	59.5	106.0	93 (78 to 110)	24.4	32.2	46 (32 to 61)
Switzerland	59.0	37.6	-36 (-46 to -24)	20.0	10.3	-52 (-63 to -37)
France	58.2	35.5	-34 (-37 to -30)	15.6	10.2	-35 (-41 to -28)
Czech Republic	57.9	39.9	-29 (-40 to -17)	14.2	7.0	-51 (-63 to -35)
Republic of Moldova	55.9	43.7	-24 (-46 to 8)	9.8	6.0	-37 (-69 to 26)
Portugal	54.6	47.6	-6 (-18 to 8)	10.8	12.3	18 (-8 to 50)
Belgium	52.1	34.5	-30 (-39 to -18)	15.3	12.6	-16 (-33 to 4)
Bulgaria	51.7	39.7	-15 (-28 to 2)	15.6	12.0	-27 (-45 to -4)
TFYR Macedonia	51.7	31.8	-30 (-56 to 12)	15.0	9.7	-34 (-68 to 37)
Guyana	51.6	71.5	23 (-50 to 200)	10.8	5.7 7.1	-19 (-89 to 475)
	48.6	34.9	-27 (-30 to -24)	24.8	15.2	, ,
Japan						-41 (-44 to -38)
Germany	47.8	34.9	-17 (-22 to -13)	14.5	10.8	-27 (-32 to -20)
Kyrgyzstan	45.5	14.7	-69 (-82 to -44)	12.7	3.3	-74 (-90 to -32)
Slovakia	42.3	39.9	-7 (-29 to 23)	8.8	4.2	-52 (-73 to -16)
Denmark	41.6	22.7	-47 (-59 to -33)	13.5	10.3	-29 (-49 to 0)
Hong Kong SAR	41.1	32.7	-16 (-33 to 5)	23.6	17.1	-26 (-44 to -3)
Argentina	40.1	26.9	-31 (-39 to -23)	5.6	3.3	-43 (-57 to -25)
Finland	38.0	23.8	-38 (-52 to -19)	11.3	6.9	−34 (−56 to −1)
Chile	36.8	27.9	-24 (-37 to -7)	3.7	3.5	-1 (-41 to 63)
Sweden	36.0	25.7	-30 (-41 to -16)	11.0	9.3	-15 (-36 to 12)
Poland	35.7	33.5	-3 (-13 to 8)	7.1	4.4	-38 (-50 to -24)
Trinidad and Tobago	35.3	23.4	-37 (-72 to 40)	12.6	3.3	-78 (-96 to 9)
Spain	32.0	21.7	-26 (-33 to -19)	8.3	5.8	-31 (-41 to -19)
Venezuela	31.9	10.5	–67 (–75 to –57)	4.3	1.5	-64 (-80 to -32)
Romania	31.1	30.5	-1 (-12 to 15)	8.7	6.7	-22 (-38 to -2)
USA	30.1	30.8	0 (-4 to 4)	4.1	5.4	28 (18 to 40)
Mauritius	27.8	9.3	-70 (-91 to 0)	8.0	2.7	-60 (-93 to 141)
Italy	25.0	17.5	-26 (-32 to -19)	6.0	4.0	-36 (-45 to -26)
Australia	23.4	21.6	-5 (-20 to 11)	5.6	5.6	1 (-25 to 35)
Puerto Rico	23.0	26.0	16 (-22 to 72)	1.8	0.8	-38 (-86 to 178)
Norway	22.8	18.9	-16 (-40 to 18)	7.0	9.8	52 (-7 to 148)
Israel	21.3	12.6	-43 (-60 to -17)	8.1	4.9	-41 (-65 to 1)
New Zealand	20.8	13.7	-33 (-56 to 3)	2.1	2.8	28 (-53 to 247)
Panama	20.8	9.0	-56 (-79 to -10)	1.2	1.0	-9 (-90 to 1103)
Netherlands	20.3	20.1	-1 (-16 to 22)	8.5	8.2	-7 (-28 to 20)
Canada	19.5	17.1	-12 (-23 to 2)	4.3	4.0	0 (–24 to 31)
Colombia	19.2	17.3	-9 (-25 to 11)	1.1	1.6	46 (-25 to 184)
Suriname	19.1	58.8	123 (-40 to 723)	12.4	12.8	4 (–83 to 522)
Ireland	18.8	15.2	-17 (-48 to 30)	4.5	2.4	-38 (-76 to 60)
Costa Rica	18.8	11.7	-38 (-66 to 15)	4.0	1.2	-68 (-92 to 33)
Brazil	18.4	17.6	0 (–9 to 10)	3.1	3.1	1 (-17 to 22)
Guatemala	16.7	5.5	-63 (-79 to -36)	1.6	1.3	-14 (-76 to 204)
Uzbekistan	11.8	9.3	-25 (-49 to 9)	3.3	2.4	-30 (-62 to 28)
UK	11.5	11.7	2 (–10 to 15)	3.8	3.6	-7 (-23 to 12)

Continued

Original research

Table 3 Continued

	Male			Female					
Location	2000	2015	% change (95% CI)	2000	2015	% change (95% CI)			
Mexico	11.5	10.9	-4 (-18 to 12)	1.0	0.8	-23 (-53 to 25)			
Philippines	8.3	8.1	-5 (-28 to 23)	2.2	1.2	-46 (-67 to -9)			
Ecuador	6.1	19.7	226 (97 to 438)	1.0	2.1	132 (-35 to 721)			
South Africa	5.3	2.8	-46 (-67 to -12)	0.8	0.3	-62 (-87 to 11)			

Mortality rates were age adjusted using the new WHO world standard population (WHO millennium).

include restriction of suicide means in their national suicide prevention strategies and programmes.^{9 26} In addition, improved availability of mental health and welfare services may have contributed to global reductions in suicide mortality.^{27 28}

During the study period, a number of countries witnessed significant changes in the suicide method used.^{14 15 29} These changes are likely due to trends in sociocultural acceptability of suicide and mental health, plus access to specific suicide methods.^{6 30} The rising rate of suicide by hanging in many countries, for example, might be attributed to prevention efforts focused on limiting access to firearms.¹⁴ In addition, unlike suicide by other methods, suicide by hanging is less likely to be misclassified as unintentional or undetermined death.³¹ The decrease of suicide by other poisoning (typically drug poisoning) in some countries has been linked to the implementation of careful and appropriate medication prescribing and dosing, such as restricting size of analgesic packs in the UK³² and withdrawal of co-proxamol throughout Europe.³³ Improved firearm legislation and restriction of firearm availability may partially explain the drops in suicide mortality by firearm in New Zealand,³⁴ Australia³⁵ and in Switzerland.³⁶ Finally, the adoption of strengthened pesticide regulations and restrictions may have led to substantial decreases in suicide by pesticide in Republic of Korea, despite an increase in overall suicide mortality in this nation.³⁷

Notably, some countries witnessed significant increases in suicide mortality between 2000 and 2015 (eg, the Republic of Korea and the USA). Published studies suggest the increases may be explained by various factors, including economic recession,³⁸ ³⁹ widening income inequalities,⁴⁰ increased unemployment⁴¹ and ease access to highly lethal methods like firearms.

Birth cohort effects may also contribute, given cohort population exposures to the Great Depression and the Korean War.⁴²

In accordance with previous reports,⁴³ this study reported comparatively higher suicide mortality in males compared with females in all 58 included countries. Male–female disparities are interpreted as sex differences in help-seeking behaviour to treat mental health crises and suicidality,⁴⁴ ownership of guns,⁴⁵ unemployment rates,⁴⁶ life roles and alcohol consumption and dependence.⁴⁴ Males also are more likely to choose highly lethal suicide methods compared with females.⁴⁷

Also in concordance with previous reports,²¹⁰ we found significant variation in suicide rates across countries. These variations can be interpreted as the combined effects of socioeconomic development, religion, laws and policies, availability of lethal methods, suicide prevention efforts, mental health treatment availability and cultural acceptance of it, and prehospital and hospital treatment.^{4 46}

Policy implications

Our findings offer societal benefits through two major policy implications. First, the recent decrease of suicide mortality in most of the 58 included countries highlights the apparent success of global and national suicide prevention efforts. The progress demonstrates the role of evidence-based public health interventions and suggests that the SDGs target for suicide prevention may be achievable if the recommended interventions are fully implemented. Second, our results underscore the urgency and importance of efforts to reduce disparities in suicide mortality and mortality change. The global suicide prevention community,

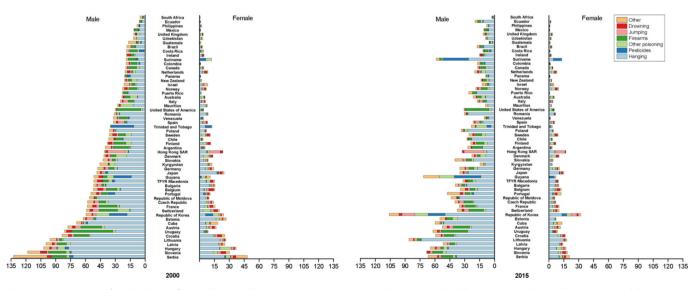


Figure 3 Variation of method-specific suicide mortality rates among persons aged 65 years and older in 2000 and 2015 (/100 000 people) notes: mortality rates were age-adjusted using the new who world standard population (who millennium).

and especially the governments of countries with high suicide mortality rates and those with small suicide mortality reductions (or mortality increases) between 2000 and 2015, should collaborate to identify reasons for the disparities and develop solutions to reduce them. The reduction of disparities between countries, and subsequent reduction of suicide rates in high-risk countries, will be a critical strategy to attain the global SDGs suicide prevention target. From a research perspective, continued work to generate evidence-based strategies for global and national suicide policy interventions should be pursued.

Study limitations

Our analyses were limited by three factors. First, we were limited by data availability. Many countries were excluded because they did not report data to the WHO mortality database, including China, India and Russia. We also excluded countries with small annual suicide deaths in order to obtain robust subgroup suicide mortality rates by sex, age group and suicide method. Complete analyses could be made if the GBD study group extended their database to offer detailed groups of fatalities by suicide method rather than estimating only two groups (self-harm by firearm and self-harm by other specified means).¹ Second, due to lack of data concerning relevant risk factors such as previous suicide attempts, mental health disorders, substance use disorders and inappropriate media reporting, we cannot explain the causality of suicide rate changes and mortality differences by sex, age, suicide method and country. Last, given the social taboo of suicide in almost all cultures, data on suicide rates suffer from challenges in data quality, including underreporting and misclassification. Such effects likely impact our results, especially for those countries with poor-quality suicide mortality data and those with particularly strong sociocultural biases concerning suicidality.

CONCLUSIONS

Substantial suicide mortality decreases occurred between 2000 and 2015 in 37 of the 58 countries (64%) included in this study. The suicide spectrum by method experienced substantial changes in several countries, likely reflecting combined influences of changes in population sociodemographic characteristics and organised suicide prevention efforts. Results amplify calls for further research to explore specific drivers of the observed changes, including especially the increases in suicide rates we

What is already known on this subject

- ► Suicide is a serious global public health problem.
- Suicide method varies substantially by sex and age group and across countries.
- Recent suicide mortality by method has not been examined across countries.

What this study adds

- Between 2000 and 2015, suicide mortality decreased in 37 of the included 58 countries but increased in 8 countries.
- The suicide spectrum by method experienced substantial changes in several countries between 2000 and 2015.
- Hanging is the most prevalent suicide method in most included countries.

witnessed in eight countries, and to understand disparities in suicide rates across countries. Results also amplify urgent need to continue global suicide prevention efforts.

Contributors GQH conceived of the project. GQH and YW designed the study. YW, YH, PSN and PXC analyzed and interpreted the data. YW and GQH drafted the manuscript. DCS reviewed and revised the manuscript critically for important content. All authors approved the final version and take responsibility for the integrity of the work.

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Competing interests None declared.

Patient consent for publication Not required. Provenance and peer review Not commissioned; externally peer reviewed.

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Table S1. Age-standardized suicide mortality by method among persons aged 15 to 44 years in 2000 (/100,000 population)
Table S2. Age-standardized suicide mortality by method among persons aged 15 to 44 years in 2015 (/100,000 population)
Table S3. Age-standardized suicide mortality by method among persons aged 45 to 64 years in 2000 (/100,000 population)
Table S4. Age-standardized suicide mortality by method among persons aged 45 to 64 years in 2015 (/100,000 population)
Table S5. Age-standardized suicide mortality by method among persons aged 65 years and older in 2000 (/100,000 population)
Table S6. Age-standardized suicide mortality by method among persons aged 65 years and older in 2015 (/100,000 population)

Location			1	Aale				Female						
	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other
Lithuania	72.8	0.1	4.0	3.5	1.4	0.1	3.9	13.0	0.0	1.3	0.0	0.6	0.3	1.0
Guyana	14.5	31.7	11.3	1.1	0.0	2.9	3.7	2.6	8.7	3.2	0.1	0.0	1.0	4.3
Latvia	45.2	0.0	1.9	2.8	0.5	0.6	3.6	5.8	0.0	1.5	0.2	0.7	0.2	1.0
Estonia	33.7	0.0	2.3	5.1	0.7	0.1	4.1	5.1	0.0	2.1	0.7	1.5	0.1	0.4
Finland	11.7	0.0	12.7	9.4	2.6	1.6	5.2	2.4	0.0	5.1	0.5	0.9	0.9	1.4
Suriname	14.3	9.9	4.4	2.9	0.0	1.0	10.5	3.5	9.4	0.4	0.0	0.0	0.0	0.0
Hungary	29.6	0.7	3.7	2.2	2.1	0.4	3.4	3.2	0.2	2.0	0.2	1.0	0.2	0.7
Slovenia	18.8	0.2	6.7	4.9	2.1	0.9	3.9	4.1	0.1	2.2	0.9	0.9	0.7	1.2
Belgium	18.1	0.1	3.7	4.5	1.7	0.7	4.0	3.9	0.1	3.3	0.6	0.9	0.8	1.2
New Zealand	17.5	0.1	8.1	2.6	1.1	0.8	2.6	2.4	0.0	3.0	0.1	0.3	0.4	0.2
Poland	25.5	0.0	1.5	0.7	0.8	0.3	1.9	3.2	0.0	0.7	0.0	0.4	0.1	0.3
Ireland	20.6	0.1	3.1	1.3	0.8	2.8	1.1	4.8	0.0	1.4	0.0	0.2	0.7	0.2
Trinidad and Tobago	7.6	19.8	0.8	0.3	0.0	0.0	0.1	0.4	3.4	1.0	0.4	0.0	0.0	1.1
Australia	13.6	0.1	8.4	2.0	1.1	0.1	2.3	3.1	0.0	3.1	0.2	0.3	0.1	0.8
Croatia	10.5	0.1	1.6	8.6	1.3	1.1	3.6	2.1	0.0	0.7	0.3	0.5	0.1	0.9
Republic of Moldova	19.6	0.0	1.5	0.7	0.6	0.3	3.8	2.0	0.0	0.6	0.0	0.2	0.0	0.3
Uruguay	13.3	0.0	0.7	10.7	0.4	0.2	1.1	2.0	0.0	0.3	2.5	0.3	0.4	0.3
Kyrgyzstan	20.9	0.0	1.5	0.5	0.0	0.4	3.0	3.5	0.0	0.7	0.2	0.1	0.4	0.7
Switzerland	7.3	0.1	3.1	9.3	2.0	0.8	3.7	2.0	0.1	2.4	0.5	1.0	0.6	1.6
Czech Republic	15.1	0.0	2.5	3.2	1.9	0.4	2.7	1.2	0.0	1.2	0.3	1.1	0.1	0.7
Japan	15.9	0.2	2.6	0.1	3.6	0.8	2.3	4.5	0.1	0.9	0.0	2.6	0.5	1.1
France	12.6	0.1	2.9	4.6	1.5	0.6	2.6	2.0	0.0	2.2	0.5	1.2	0.3	1.0
Norway	11.6	0.0	3.5	5.9	1.2	0.2	1.9	2.8	0.0	2.2	0.3	0.5	0.5	0.8
Austria	10.7	0.0	2.9	3.2	2.6	0.8	3.8	1.7	0.0	1.7	0.3	1.4	0.4	1.2
Canada	11.7	0.0	4.6	4.1	1.2	0.6	1.6	3.1	0.0	1.7	0.3	0.5	0.2	0.4
Chile	17.0	0.6	0.8	2.3	0.3	0.8	1.5	2.4	0.1	0.4	0.4	0.1	0.2	0.4
Serbia	8.7	0.6	0.9	5.3	0.6	0.5	5.8	2.4	0.1	1.0	0.4	0.8	0.5	1.8
Slovakia	13.1	0.1	2.0	3.5	1.4	0.1	2.0	1.4	0.1	0.8	0.2	0.8	0.2	0.5
Hong Kong SAR	2.5	0.0	8.1	0.0	9.6	0.4	0.4	0.9	0.0	3.9	0.0	4.7	0.4	0.2
Romania	16.5	0.4	1.4	0.5	0.3	0.1	1.2	1.8	0.2	0.8	0.0	0.1	0.0	0.2
United States of America	5.1	0.0	2.6	10.7	0.4	0.2	0.9	0.9	0.0	1.6	1.7	0.1	0.1	0.2
Denmark	7.0	0.1	5.9	2.9	0.8	0.6	2.3	1.9	0.0	1.7	0.3	0.6	0.3	0.5
Sweden	7.3	0.0	4.8	2.1	1.1	1.0	2.1	2.2	0.0	3.1	0.0	0.7	0.4	1.2
Republic of Korea	6.8	3.1	2.8	0.1	1.9	0.8	2.9	1.9	1.8	1.7	0.0	1.9	0.4	1.2
Puerto Rico	12.2	0.0	0.5	3.9	0.4	0.1	1.0	0.5	0.0	0.6	0.2	0.1	0.0	0.0

Table S1. Age-standardized suicide mortalit	v b	v method among persons aged	1 15 1	to 44 '	vears in 2000 (/100.000	population)
Tuble bit ige standar allea saiciae mortant	J ~	, meenou uniong persons agee			, ca is in 2 000 (1 100,000	population)

Inj	Prev
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Mauritius	12.8	0.0	3.2	0.6	0.0	0.0	1.5	2.7	0.0	1.0	0.0	0.2	0.0	2.3
Germany	8.9	0.1	2.5	1.3	1.8	0.3	2.9	1.3	0.0	1.3	0.1	0.8	0.1	0.8
United Kingdom	8.8	0.0	4.0	0.4	0.6	0.5	3.1	1.5	0.0	1.7	0.0	0.2	0.1	0.8
Cuba	11.2	1.5	1.2	1.2	0.3	0.1	1.5	1.3	0.6	1.1	0.1	0.2	0.1	3.5
Costa Rica	6.7	4.3	0.5	4.4	0.5	0.1	0.2	0.9	0.8	0.3	0.2	0.0	0.1	0.1
Argentina	7.2	0.1	0.3	6.0	0.3	0.3	1.8	1.4	0.1	0.3	1.2	0.2	0.1	0.6
Venezuela	7.0	1.3	0.7	5.7	0.3	0.1	0.8	0.9	0.6	0.3	0.5	0.2	0.0	0.2
Israel	6.2	0.0	1.6	3.8	1.1	0.1	2.2	0.5	0.0	0.3	0.3	0.9	0.0	0.8
Colombia	3.9	1.1	2.4	5.4	0.3	0.1	0.6	0.7	0.7	1.8	0.6	0.2	0.0	0.2
Uzbekistan	10.9	0.0	0.2	0.1	0.1	0.0	2.1	3.6	0.0	0.3	0.0	0.0	0.0	0.7
Portugal	5.6	1.5	0.6	1.5	1.2	0.5	2.0	0.8	0.5	0.5	0.3	0.4	0.2	0.4
Netherlands	6.1	0.0	1.6	0.4	1.3	0.6	2.7	1.8	0.0	1.1	0.0	0.6	0.2	1.2
Panama	7.2	1.9	0.3	1.5	0.5	0.0	0.3	0.8	1.1	0.0	0.0	0.1	0.0	0.0
Bulgaria	6.9	0.2	0.5	1.5	1.5	0.0	1.0	1.4	0.1	0.3	0.2	1.1	0.0	0.2
Spain	5.2	0.1	0.9	0.9	2.2	0.2	1.2	0.7	0.0	0.4	0.1	1.1	0.1	0.3
Guatemala	3.0	0.5	1.9	2.4	0.0	0.4	2.3	0.5	0.5	1.2	0.4	0.0	0.1	0.6
Ecuador	2.9	1.9	1.3	2.7	0.1	0.3	0.9	1.3	1.6	1.5	0.4	0.0	0.1	0.2
Mexico	6.2	0.3	0.3	1.7	0.1	0.1	0.4	0.7	0.2	0.3	0.2	0.0	0.0	0.1
Brazil	4.2	0.5	0.5	2.0	0.2	0.1	1.3	0.7	0.2	0.3	0.3	0.1	0.1	0.5
Italy	4.3	0.1	0.6	1.1	1.5	0.2	0.8	0.7	0.0	0.3	0.2	0.8	0.1	0.2
TFYR Macedonia	2.8	0.2	1.4	1.9	0.2	0.7	1.1	0.7	0.2	0.8	0.1	0.1	0.3	0.3
South Africa	1.2	0.0	0.3	1.9	0.0	0.2	3.6	0.2	0.0	0.2	0.3	0.0	0.0	1.0
Philippines	3.5	0.2	0.3	0.3	0.0	0.0	0.6	1.1	0.2	0.3	0.0	0.0	0.0	0.2

T			Ν	Aale						Fe	emale			
Location	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other
Lithuania	46.2	0.0	2.4	1.7	0.7	0.8	3.8	6.3	0.0	1.5	0.3	0.5	0.1	0.5
Guyana	21.6	36.8	5.0	0.4	0.3	0.2	9.1	3.4	15.1	1.5	0.0	0.0	0.0	4.3
Latvia	28.4	0.0	1.8	1.8	1.9	0.0	2.1	3.1	0.0	0.2	0.0	0.3	0.0	0.5
Estonia	19.7	0.0	1.5	2.4	0.7	0.3	2.9	1.9	0.0	1.1	0.3	0.4	0.0	0.1
Finland	10.0	0.0	3.1	2.7	2.2	0.6	4.3	1.6	0.0	2.9	0.0	1.1	0.2	0.9
Suriname	8.8	35.5	0.4	3.5	0.8	0.3	0.9	2.8	14.8	0.5	0.3	0.0	0.0	0.8
Hungary	11.5	0.0	2.3	0.9	1.9	0.2	2.8	1.9	0.0	1.4	0.0	1.0	0.1	0.8
Slovenia	14.5	0.0	3.1	1.2	1.3	0.0	2.6	1.7	0.0	1.4	0.4	0.6	0.0	0.2
Belgium	13.1	0.0	2.7	1.1	1.3	0.5	3.5	2.9	0.0	2.0	0.2	0.3	0.3	1.4
New Zealand	18.3	0.0	3.4	1.6	0.6	0.2	1.2	6.7	0.0	1.6	0.1	0.3	0.3	0.3
Poland	21.5	0.0	2.3	0.2	1.0	0.2	0.9	2.4	0.0	0.4	0.0	0.2	0.0	0.2
Ireland	18.5	0.0	1.5	1.1	0.2	1.6	0.6	4.0	0.0	0.9	0.1	0.1	0.6	0.0
Trinidad and Tobago	9.0	5.2	8.4	0.4	0.0	0.1	0.8	1.1	2.4	2.2	0.0	0.0	0.0	0.5
Australia	15.1	0.0	3.7	1.0	1.1	0.2	2.5	4.8	0.0	1.7	0.0	0.4	0.0	0.9
Croatia	8.6	0.4	1.3	2.2	1.7	0.2	1.6	2.0	0.0	0.3	0.1	0.9	0.2	0.3
Republic of Moldova	21.2	0.0	0.3	0.8	0.8	0.3	1.0	3.3	0.0	0.4	0.1	0.6	0.0	0.5
Uruguay	26.3	0.0	0.8	5.2	0.0	0.0	1.2	6.0	0.0	0.1	1.5	0.3	0.0	0.1
Kyrgyzstan	15.3	0.0	0.6	0.3	0.0	0.3	1.0	4.6	0.0	0.1	0.1	0.0	0.0	0.1
Switzerland	5.3	0.0	1.6	2.3	2.2	0.3	3.0	1.4	0.0	1.0	0.1	0.8	0.1	1.5
Czech Republic	10.6	0.0	1.8	1.5	1.5	0.2	2.5	1.0	0.0	0.3	0.2	1.0	0.2	0.8
Japan	15.3	0.0	4.7	0.0	2.4	0.5	1.9	5.1	0.0	1.6	0.0	1.5	0.3	0.9
France	11.2	0.0	1.6	1.9	1.1	0.2	1.6	2.3	0.0	1.0	0.2	0.7	0.1	0.5
Norway	8.7	0.0	1.8	1.7	1.4	0.6	0.9	2.9	0.0	2.9	0.1	0.4	0.5	0.5
Austria	7.3	0.0	3.4	1.8	1.8	0.7	2.7	1.4	0.0	1.4	0.0	0.9	0.2	1.1
Canada	10.0	0.0	3.4	2.2	1.1	0.4	1.5	3.5	0.0	2.0	0.1	0.4	0.1	0.4
Chile	16.6	0.1	0.4	1.0	0.2	0.0	0.4	4.0	0.1	0.5	0.1	0.2	0.0	0.2
Serbia	7.7	0.0	0.9	2.5	0.9	0.6	1.6	1.8	0.0	1.3	0.3	0.5	0.2	0.4
Slovakia	11.0	0.0	1.2	1.3	1.6	0.1	2.0	0.9	0.0	0.3	0.1	0.5	0.0	0.3
Hong Kong SAR	2.5	0.0	3.8	0.0	9.5	0.5	0.1	1.4	0.0	2.3	0.0	4.0	0.0	0.1
Romania	14.0	0.0	0.6	0.1	0.3	0.4	0.8	1.7	0.0	0.1	0.0	0.1	0.1	0.0
United States of America	8.0	0.0	2.2	11.1	0.6	0.3	1.1	2.5	0.0	1.9	2.0	0.2	0.1	0.3
Denmark	4.6	0.0	2.2	0.8	0.3	0.5	1.9	2.2	0.0	1.2	0.0	0.4	0.2	0.3
Sweden	7.4	0.1	4.0	1.0	0.8	0.4	3.4	3.4	0.0	2.9	0.1	0.4	0.3	1.2
Republic of Korea	10.5	0.2	7.8	0.0	3.9	1.9	0.7	6.6	0.1	2.5	0.0	3.9	0.4	0.3
Puerto Rico	6.3	0.0	0.1	2.3	0.3	0.1	0.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0

Table S2. Age-standardized suicide mortality by method among persons aged 15 to 44 years in 2015 (/100,000 population)

4

Philippines

4.4

0.2

0.4

0.0

Mauritius	16.4	0.4	1.4	0.0	0.0	0.0	0.1	2.9	0.0	3.4	0.3	0.0	0.0	1.4
Germany	5.9	0.0	2.5	0.4	1.4	0.2	2.9	1.3	0.0	1.4	0.0	0.6	0.1	1.0
United Kingdom	9.3	0.0	2.0	0.2	0.6	0.3	1.9	2.4	0.0	1.1	0.0	0.1	0.1	0.5
Cuba	10.4	0.2	0.6	0.4	0.2	0.1	0.8	1.2	0.1	0.6	0.0	0.2	0.0	0.6
Costa Rica	8.5	1.9	0.6	1.9	0.3	0.1	0.3	1.3	0.4	0.3	0.3	0.1	0.0	0.1
Argentina	13.0	0.1	0.1	3.1	0.1	0.2	1.5	3.3	0.0	0.1	0.5	0.0	0.1	0.4
Venezuela	3.4	0.4	0.4	2.3	0.1	0.0	0.4	0.6	0.2	0.2	0.2	0.0	0.0	0.1
Israel	3.4	0.0	0.5	1.1	1.4	0.0	1.3	0.7	0.0	0.2	0.1	0.3	0.0	0.4
Colombia	5.8	1.0	0.7	1.7	0.4	0.1	0.4	1.4	0.6	0.5	0.2	0.2	0.0	0.1
Uzbekistan	10.8	0.0	0.1	0.1	0.0	0.0	1.3	6.3	0.0	0.2	0.0	0.0	0.0	0.7
Portugal	5.2	0.2	0.6	0.9	1.4	0.4	2.5	0.8	0.0	0.3	0.2	0.4	0.1	0.7
Netherlands	6.4	0.0	1.7	0.4	1.1	0.6	2.8	2.1	0.0	1.8	0.1	0.3	0.1	1.2
Panama	4.6	1.6	0.0	0.3	0.2	0.0	0.2	1.3	0.3	0.0	0.1	0.0	0.0	0.0
Bulgaria	6.8	0.0	0.6	1.3	1.9	0.0	1.3	1.2	0.0	0.3	0.0	0.9	0.0	0.4
Spain	4.4	0.0	0.6	0.5	1.8	0.1	0.8	0.8	0.0	0.6	0.0	1.1	0.0	0.4
Guatemala	2.9	1.3	1.7	0.9	0.0	0.0	0.3	0.9	0.8	1.0	0.0	0.0	0.0	0.1
Ecuador	10.5	1.5	1.4	1.0	0.2	0.2	0.8	2.8	0.8	1.4	0.1	0.1	0.0	0.2
Mexico	9.7	0.3	0.3	1.0	0.1	0.0	0.5	2.3	0.2	0.3	0.1	0.0	0.0	0.2
Brazil	7.2	0.4	0.6	1.0	0.4	0.1	0.9	1.5	0.2	0.4	0.1	0.2	0.1	0.3
Italy	4.2	0.0	0.3	0.6	1.2	0.1	1.1	0.7	0.0	0.1	0.1	0.6	0.0	0.4
TFYR Macedonia	3.9	0.2	1.7	1.5	0.3	0.4	1.0	1.4	0.1	0.4	0.3	0.0	0.1	0.5
South Africa	1.6	0.1	0.3	0.1	0.0	0.0	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.1

0.7

1.2

0.1

0.4

0.0

0.0

0.0

Notes: a. Mortality rates were age-adjusted using the new WHO world standard population (WHO millennium); b. Other poisoning means poisoning excluding those by pesticide.

0.0

0.3

0.0

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Female							
Latvia89.70.01.63.71.40.76.29.70.02.60.0Guyana18.339.026.52.80.07.39.23.24.33.10.0Estonia61.00.04.59.21.60.08.510.80.00.00.0Hungary59.82.16.62.42.61.45.69.30.66.30.2Slovenia46.50.83.17.40.81.84.715.61.84.10.4Republic of Moldova48.40.33.70.31.81.58.84.90.22.10.0Japan42.91.35.00.33.62.25.59.70.60.90.0Foland40.40.11.60.30.80.53.26.50.01.00.1Kyrgyztan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.61.30.2Slovakia29.80.31.75.11.60.23.04.80.0<	oing Drowning	Other						
Guyana18.339.026.52.80.07.39.23.24.33.10.0Estonia61.00.04.59.21.60.08.510.80.00.00.0Hungary59.82.16.62.42.61.45.69.30.66.30.2Slovenia46.50.83.17.40.81.84.715.61.84.10.4Republic of Moldova48.40.33.70.31.81.58.84.90.22.10.0Japan42.91.35.00.33.62.25.59.70.60.90.2Serbia25.71.01.07.10.51.113.19.30.72.00.2Poland40.40.11.60.30.86.53.26.50.01.00.1Kyrgyzstan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.	0.3 1.1	1.6						
Estonia61.00.04.59.21.60.08.510.80.00.00.0Hungary59.82.16.62.42.61.45.69.30.66.30.2Slovenia46.50.83.17.40.81.84.715.61.84.10.4Republic of Moldova48.40.33.70.31.81.58.84.90.22.10.0Japan42.91.35.00.33.62.25.59.70.60.90.0Serbia25.71.01.07.10.51.113.19.30.72.00.2Poland40.40.11.60.30.80.53.26.50.01.00.1Kyrgyzstan35.50.02.51.90.00.86.05.30.09.50.2Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.31.75.11.60.23.04.80.01.30.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Slovakia29.80.31.75.11.60.23.04.80.0	0.6 1.0	1.4						
Hungary59.82.16.62.42.61.45.69.30.66.30.2Slovenia46.50.83.17.40.81.84.715.61.84.10.4Republic of Moldova48.40.33.70.31.81.58.84.90.22.10.0Japan42.91.35.00.33.62.25.59.70.60.90.0Serbia25.71.01.07.10.51.113.19.30.72.00.2Poland40.40.11.60.30.80.53.26.50.01.00.1Kyrgyzstan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Slovakia29.80.31.75.11.60.23.04.80.	0.0 0.8	3.4						
Slovenia 46.5 0.8 3.1 7.4 0.8 1.8 4.7 15.6 1.8 4.1 0.4 Republic of Moldova 48.4 0.3 3.7 0.3 1.8 1.5 8.8 4.9 0.2 2.1 0.0 Japan 42.9 1.3 5.0 0.3 3.6 2.2 5.5 9.7 0.6 0.9 0.0 Serbia 25.7 1.0 1.0 7.1 0.5 1.1 13.1 9.3 0.7 2.0 0.2 Poland 40.4 0.1 1.6 0.3 0.8 0.5 3.2 6.5 0.0 1.0 0.1 Kyrgyzstan 35.5 0.0 2.5 1.9 0.0 0.8 6.0 5.3 0.0 0.9 0.0 Finland 15.9 0.2 13.5 9.1 1.1 2.7 3.4 3.4 0.0 9.5 0.2 Croatia 24.7 0.4 2.0 9.2 1.0 3.1 3.4 6.0 0.2 2.4 0.6	0.6 0.7	1.1						
Republic of Moldova48.40.33.70.31.81.58.84.90.22.10.0Japan42.91.35.00.33.62.25.59.70.60.90.0Serbia25.71.01.07.10.51.113.19.30.72.00.2Poland40.40.11.60.30.80.53.26.50.01.00.1Kyrgyzstan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.0	1.7 1.1	1.7						
Japan42.91.35.00.33.62.25.59.70.60.90.0Serbia25.71.01.07.10.51.113.19.30.72.00.2Poland40.40.11.60.30.80.53.26.50.01.00.1Kyrgyzstan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	2.0 2.0	1.7						
Serbia25.71.01.07.10.51.113.19.30.72.00.2Poland40.40.11.60.30.80.53.26.50.01.00.1Kyrgyzstan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	0.5 1.2	1.1						
Poland40.40.11.60.30.80.53.26.50.01.00.1Kyrgyzstan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	1.7 1.7	2.1						
Kyrgyzstan35.50.02.51.90.00.86.05.30.00.90.0Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	0.6 1.4	4.3						
Finland15.90.213.59.11.12.73.43.40.09.50.2Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	0.5 0.4	0.6						
Croatia24.70.42.09.21.03.13.46.00.22.40.6Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	0.0 0.4	1.3						
Uruguay20.20.30.618.30.01.32.22.40.01.23.2Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	1.1 3.2	1.6						
Slovakia29.80.31.75.11.60.23.04.80.01.30.2Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	0.7 2.3	2.3						
Belgium19.90.24.66.01.03.13.56.70.34.20.8Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	1.1 0.4	0.3						
Romania32.20.62.40.10.40.11.95.30.11.50.0Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	1.0 0.6	1.2						
Austria17.60.13.77.92.51.23.83.90.02.70.3Republic of Korea12.38.67.70.02.11.04.52.02.92.30.0	1.6 3.5	1.6						
Republic of Korea 12.3 8.6 7.7 0.0 2.1 1.0 4.5 2.0 2.9 2.3 0.0	0.1 0.0	0.4						
1	2.3 1.6	1.6						
Czech Republic 22.8 0.0 2.9 4.5 1.1 0.7 3.7 3.8 0.1 2.2 0.2	1.1 0.3	1.4						
	1.0 0.8	1.7						
Switzerland 9.9 0.1 4.5 12.8 2.2 1.1 4.3 3.1 0.0 4.2 0.7	1.7 2.6	2.7						
France 15.0 0.1 3.5 9.0 1.1 1.4 3.3 4.1 0.1 4.3 0.8	1.3 1.8	1.8						
Cuba 23.9 1.7 1.3 0.7 0.7 0.3 2.8 3.5 0.6 2.3 0.1	0.5 0.2	5.4						
Denmark 13.0 0.0 7.6 4.3 1.5 1.7 2.7 2.1 0.1 7.3 0.0	0.4 1.8	0.7						
Trinidad and Tobago 8.0 20.6 0.0 0.8 0.0 0.0 0.5 1.8 2.7 0.0 0.0	0.0 0.0	0.0						
Chile 18.0 1.3 0.7 4.0 0.3 1.2 2.8 2.3 0.1 0.5 0.4	0.2 0.3	0.3						
Hong Kong SAR 8.4 0.1 7.3 0.3 10.7 0.8 0.7 2.9 0.1 3.0 0.0	6.4 0.7	0.2						
Germany 15.7 0.2 3.0 3.1 1.5 0.8 3.9 3.7 0.1 2.3 0.2	1.3 0.8	1.5						
Bulgaria 20.1 0.3 1.3 2.3 2.0 0.1 1.5 4.4 0.1 0.7 0.1	1.3 0.0	0.5						
Ireland 15.1 0.3 2.4 2.2 0.6 4.7 2.1 3.7 0.0 2.4 0.1	0.1 3.4	0.2						
Suriname 5.5 17.3 1.2 1.2 0.0 1.2 0.0 4.1 0.0 2.7 0.0	0.0 0.0	0.0						
Sweden 8.7 0.0 6.9 4.2 1.3 1.4 2.7 2.2 0.0 6.3 0.2	1.0 1.8	1.6						
Puerto Rico 17.6 0.3 2.3 2.4 0.3 0.7 1.4 1.4 0.2 0.2 0.0	0.4 0.0	0.2						
Portugal 10.9 3.3 1.4 2.9 1.4 1.6 3.3 1.7 1.4 1.2 0.3	0.8 0.7	1.5						
Argentina 9.9 0.2 0.5 9.7 0.4 0.6 3.4 1.9 0.0 0.5 1.4	0.4 0.4	1.2						

Table S3. Age-standardized suicide mortalit	v bv	v method among persons aged	I 45	to 64	vears in 2000	(/100.000)	population)
- asie see age standar and ea sale at the second se	J ~J			•••••			

6

Inj	Prev
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Canada	8.3	0.0	6.1	6.3	0.7	0.5	1.6	1.8	0.0	4.3	0.4	0.6	0.2	0.7
Mauritius	11.9	0.0	7.7	0.4	0.1	0.9	1.6	1.4	0.0	1.0	0.0	0.0	0.0	2.3
Norway	8.7	0.0	3.4	5.3	0.8	1.4	2.2	2.4	0.0	3.6	0.0	0.6	1.2	0.8
United States of America	3.1	0.0	3.7	13.2	0.4	0.2	1.1	0.7	0.0	2.8	2.2	0.2	0.1	0.4
TFYR Macedonia	10.9	0.4	3.1	2.2	0.5	1.4	2.1	3.0	0.2	1.6	0.0	0.3	0.6	1.6
Australia	6.8	0.3	7.7	3.1	0.3	0.3	1.8	1.6	0.0	2.5	0.1	0.2	0.5	0.4
New Zealand	7.1	0.0	8.3	1.8	0.5	1.0	1.0	1.7	0.0	2.7	0.2	0.7	0.1	0.3
Uzbekistan	13.6	0.0	0.6	0.2	0.0	0.0	5.0	1.8	0.0	0.5	0.0	0.0	0.0	1.0
Netherlands	8.8	0.2	2.6	0.9	1.0	1.7	2.8	2.8	0.0	3.1	0.1	1.1	1.6	2.4
United Kingdom	7.4	0.0	4.4	0.7	0.4	0.7	2.7	1.5	0.0	2.6	0.0	0.2	0.3	0.9
Venezuela	7.9	1.4	0.3	3.5	0.3	0.2	1.5	0.7	0.1	0.3	0.4	0.1	0.0	0.1
Spain	7.6	0.2	1.0	1.2	2.0	0.5	1.8	1.7	0.0	0.8	0.0	1.6	0.4	0.6
Costa Rica	3.3	5.2	0.6	4.0	0.3	0.0	0.8	0.7	0.4	0.5	0.2	0.1	0.0	0.0
Israel	6.0	0.0	1.4	1.4	1.7	0.0	2.7	1.2	0.0	0.7	0.2	1.2	0.2	0.6
Italy	6.2	0.1	1.0	2.1	1.5	0.5	1.0	1.2	0.0	0.5	0.1	1.4	0.5	0.5
Brazil	6.4	0.6	0.8	2.3	0.1	0.2	2.1	1.0	0.1	0.3	0.3	0.1	0.1	0.8
Colombia	3.7	0.7	2.2	3.8	0.8	0.3	0.7	0.5	0.3	0.5	0.2	0.3	0.0	0.3
Panama	7.4	3.0	0.0	0.6	0.0	0.0	1.2	0.4	1.0	0.0	0.0	0.0	0.0	0.0
Ecuador	3.5	1.3	2.2	1.7	0.1	0.1	0.8	1.0	0.3	0.5	0.0	0.0	0.0	0.2
Guatemala	2.0	0.5	2.0	1.7	0.1	0.3	2.8	0.1	0.0	0.3	0.1	0.0	0.0	0.3
Mexico	4.7	0.2	0.3	2.1	0.1	0.1	0.6	0.6	0.1	0.2	0.1	0.0	0.0	0.1
South Africa	1.1	0.1	0.4	1.3	0.0	0.2	3.5	0.1	0.0	0.1	0.1	0.0	0.0	0.5
Philippines	3.5	0.1	0.3	0.3	0.0	0.0	1.0	0.7	0.1	0.2	0.0	0.0	0.0	0.2

Tanada			Ν	/lale				Female							
Location	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other	
Lithuania	73.3	0.0	2.4	2.8	1.1	0.3	8.2	11.3	0.0	0.7	0.0	0.3	0.2	1.5	
Latvia	37.3	0.0	0.1	4.0	0.9	0.6	4.8	6.8	0.0	2.0	0.0	1.3	0.8	0.4	
Guyana	16.9	32.8	3.3	0.1	0.0	0.1	11.9	0.5	8.1	3.5	0.0	0.0	0.0	2.6	
Estonia	24.0	0.0	0.6	1.9	0.6	0.0	4.5	5.5	0.0	0.1	0.0	0.0	0.0	0.6	
Hungary	29.7	0.1	6.2	1.7	3.2	0.9	6.1	4.3	0.1	5.3	0.0	0.8	1.2	1.6	
Slovenia	28.8	0.0	2.4	4.6	1.1	1.8	2.9	6.4	0.0	1.7	0.0	0.9	1.1	1.6	
Republic of Moldova	40.6	0.6	0.9	1.4	1.8	1.5	3.8	4.9	0.0	1.1	0.0	0.5	0.6	0.6	
Japan	24.9	0.1	4.6	0.0	2.3	1.0	3.3	8.0	0.1	1.4	0.0	1.8	0.7	1.5	
Serbia	19.6	1.0	1.1	6.9	1.2	0.9	4.4	4.2	0.2	1.6	0.1	1.3	0.5	1.2	
Poland	33.8	0.0	6.4	0.4	0.9	0.3	1.9	5.1	0.0	1.1	0.0	0.2	0.1	0.4	
Kyrgyzstan	16.7	0.0	0.3	0.0	0.0	0.2	1.9	1.9	0.0	0.8	0.0	0.0	0.3	0.2	
Finland	12.7	0.0	5.8	6.8	0.5	0.5	4.1	1.5	0.2	4.3	0.0	0.8	1.4	1.5	
Croatia	22.3	0.2	1.4	7.4	1.9	0.8	3.1	4.7	0.2	2.8	0.1	1.6	1.3	1.4	
Uruguay	20.6	0.0	0.3	9.8	1.4	1.9	2.3	4.9	0.3	1.3	1.8	0.0	1.2	1.3	
Slovakia	23.0	0.2	2.0	3.5	1.7	0.5	4.4	2.8	0.0	1.5	0.2	0.7	0.1	0.9	
Belgium	21.6	0.1	4.9	2.7	0.8	1.2	7.3	6.8	0.0	5.5	0.3	0.6	1.8	3.0	
Romania	27.0	0.1	1.0	0.2	0.5	0.7	1.3	3.5	0.0	0.3	0.0	0.2	0.1	0.3	
Austria	14.4	0.0	3.8	4.9	2.3	1.2	2.8	2.6	0.0	3.0	0.2	1.1	1.2	2.1	
Republic of Korea	29.3	3.1	13.4	0.1	5.0	2.0	3.1	7.4	0.8	2.8	0.0	3.8	1.1	0.7	
Czech Republic	19.2	0.0	2.2	3.0	1.9	0.2	3.8	3.2	0.0	2.3	0.3	0.9	0.3	1.1	
Switzerland	10.4	0.0	2.6	5.7	2.5	0.7	3.5	2.4	0.0	2.1	0.3	1.9	0.7	2.8	
France	21.1	0.1	3.0	5.4	1.3	0.7	2.5	4.5	0.0	3.2	0.3	1.2	0.9	1.2	
Cuba	22.9	0.3	1.5	0.3	0.8	0.4	2.7	3.2	0.0	1.9	0.0	0.4	0.0	2.1	
Denmark	10.2	0.0	5.5	2.4	1.2	1.0	2.9	1.5	0.0	4.9	0.0	0.9	0.6	0.8	
Trinidad and Tobago	6.0	4.4	10.0	0.6	0.1	0.0	2.4	1.3	0.7	1.5	0.0	0.0	0.0	0.3	
Chile	17.7	0.3	0.9	1.4	0.6	0.0	0.6	3.9	0.1	1.0	0.0	0.2	0.1	0.2	
Hong Kong SAR	5.9	0.2	5.2	0.2	8.5	0.4	0.4	2.3	0.0	1.8	0.0	4.9	0.8	0.4	
Germany	10.8	0.0	4.2	1.8	1.6	0.4	3.9	2.6	0.0	2.8	0.1	0.9	0.3	1.6	
Bulgaria	15.4	0.1	0.8	2.8	1.5	0.0	2.0	3.0	0.0	0.4	0.2	0.9	0.1	0.4	
Ireland	20.0	0.0	2.5	1.9	0.3	2.9	1.0	3.3	0.0	1.1	0.2	0.2	1.1	0.4	
Suriname	14.0	27.1	3.5	1.9	1.1	0.0	0.6	3.2	7.8	1.9	0.0	0.0	0.0	0.0	
Sweden	13.8	0.1	6.5	3.6	0.9	1.2	4.1	2.4	0.0	6.4	0.1	0.4	1.1	0.8	
Puerto Rico	15.9	0.2	0.5	2.6	0.5	0.0	1.4	2.2	0.0	0.3	0.0	0.0	0.2	0.2	
Portugal	12.1	0.8	1.5	2.9	1.4	1.2	6.2	2.3	0.2	1.1	0.1	0.9	0.7	1.7	
Argentina	8.9	0.1	0.2	3.6	0.1	0.2	1.8	2.3	0.0	0.3	0.4	0.1	0.2	0.8	

Table S4. Age-standardized suicide mortality by method among persons aged 45 to 64 years in 2015 (/100,000 population)

8

Inj	Prev
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Canada	11.3	0.0	7.1	4.5	1.2	0.5	2.3	2.7	0.0	5.3	0.1	0.4	0.4	0.5
Mauritius	9.7	0.0	1.3	0.0	0.7	0.0	1.3	0.0	0.6	1.1	0.0	0.0	0.0	0.6
Norway	9.9	0.0	4.8	4.5	0.6	0.6	3.1	3.7	0.0	4.2	0.0	0.7	1.1	0.9
United States of America	7.4	0.0	4.5	15.4	0.6	0.3	1.6	2.0	0.0	4.5	3.2	0.3	0.2	0.5
TFYR Macedonia	10.8	0.2	1.0	2.2	0.6	0.4	1.7	2.7	0.2	1.0	0.0	0.3	0.1	0.8
Australia	15.0	0.0	5.5	2.2	1.0	0.6	2.7	3.4	0.0	4.0	0.0	0.4	0.3	1.1
New Zealand	9.9	0.2	5.2	3.2	0.6	0.4	1.9	2.8	0.0	3.4	0.2	0.5	0.4	0.5
Uzbekistan	11.2	0.0	0.2	0.1	0.1	0.0	2.0	1.3	0.0	0.1	0.0	0.0	0.0	0.3
Netherlands	13.0	0.0	4.7	0.8	0.8	0.9	3.6	3.9	0.0	4.2	0.0	1.0	0.6	1.6
United Kingdom	11.6	0.0	3.5	0.3	0.5	0.5	2.4	2.9	0.0	2.1	0.0	0.2	0.4	0.6
Venezuela	3.8	0.5	0.5	1.1	0.1	0.1	0.8	0.5	0.1	0.2	0.1	0.0	0.0	0.2
Spain	7.8	0.1	1.7	1.3	2.5	0.2	1.7	1.5	0.0	1.3	0.0	1.8	0.2	0.6
Costa Rica	6.9	3.0	0.6	3.0	0.6	0.1	0.9	0.7	0.4	0.5	0.2	0.1	0.0	0.3
Israel	5.8	0.1	1.4	1.7	0.9	0.0	2.8	1.3	0.0	0.4	0.1	0.6	0.0	0.2
Italy	7.6	0.0	0.8	1.6	1.5	0.3	1.2	1.5	0.0	0.4	0.1	1.2	0.3	0.5
Brazil	8.9	0.5	0.7	1.1	0.4	0.1	1.6	1.8	0.2	0.5	0.1	0.2	0.1	0.5
Colombia	4.9	1.1	0.9	1.7	0.5	0.2	0.8	0.8	0.1	0.3	0.0	0.2	0.0	0.2
Panama	3.9	1.4	0.3	0.3	0.3	0.0	0.3	0.5	0.3	0.3	0.1	0.0	0.0	0.1
Ecuador	6.7	0.4	1.2	0.7	0.0	0.1	0.5	1.8	0.2	0.5	0.0	0.0	0.0	0.2
Guatemala	2.5	1.1	1.8	0.9	0.0	0.0	0.1	0.4	0.1	0.0	0.2	0.0	0.0	0.0
Mexico	6.7	0.4	0.4	1.2	0.1	0.1	0.8	1.1	0.1	0.2	0.1	0.0	0.0	0.1
South Africa	1.0	0.1	0.2	0.1	0.0	0.0	0.1	0.2	0.0	0.2	0.0	0.0	0.0	0.1
Philippines	3.5	0.2	0.4	0.1	0.0	0.0	0.7	0.7	0.1	0.2	0.0	0.0	0.0	0.2

Location	Male Hanging Pesticide Other poisoning Firearms Jumping Drowning									Fe	emale			
Location	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other
Serbia	72.5	3.7	3.0	14.8	0.6	4.0	33.7	25.3	1.1	4.6	0.4	2.4	2.8	11.5
Slovenia	74.4	1.5	3.7	17.6	1.7	6.5	12.7	13.9	0.0	4.2	0.0	3.5	4.9	3.7
Hungary	77.2	3.5	7.2	1.1	5.4	1.8	6.1	20.2	0.4	11.4	0.1	2.3	1.1	1.5
Latvia	75.1	0.0	4.1	9.3	2.8	2.3	6.2	19.2	0.0	1.0	0.0	2.1	0.9	2.5
Lithuania	82.2	0.0	1.4	2.6	2.4	0.7	6.3	20.7	0.0	2.3	0.0	1.4	1.1	1.1
Croatia	55.6	0.0	1.1	14.9	2.5	3.2	6.4	13.7	0.0	1.7	0.2	2.4	4.4	3.0
Uruguay	29.8	0.0	2.9	41.4	0.5	4.6	1.9	4.2	0.0	0.8	1.9	0.6	0.3	0.9
Austria	41.1	0.0	2.5	21.1	5.7	3.0	4.5	6.9	0.1	2.4	0.4	3.1	2.4	1.6
Cuba	57.9	1.8	2.0	0.4	1.3	0.7	4.8	6.1	0.4	3.4	0.1	0.6	0.3	7.6
Estonia	49.5	0.0	0.0	2.3	7.2	1.2	2.3	16.6	0.0	3.2	0.0	3.3	0.7	3.1
Republic of Korea	18.3	17.6	13.4	0.0	3.3	1.0	5.9	6.1	7.3	6.1	0.0	2.0	0.6	2.3
Switzerland	15.1	0.4	12.2	18.5	6.4	3.2	3.3	3.6	0.0	7.8	0.2	2.7	3.9	1.8
France	26.1	0.2	2.2	17.8	3.0	3.7	5.2	5.1	0.0	2.8	0.4	2.0	3.0	2.2
Czech Republic	37.2	0.0	2.6	6.7	4.2	1.0	6.2	7.2	0.0	1.3	0.1	2.6	1.1	1.8
Republic of Moldova	46.5	0.0	2.3	1.4	0.7	0.8	4.3	6.3	0.0	1.5	0.0	0.1	1.0	0.8
Portugal	30.6	7.0	1.0	5.5	2.3	2.6	5.6	4.0	2.1	1.1	0.0	0.9	1.7	1.0
Belgium	24.8	0.7	3.0	10.5	3.5	5.4	4.2	4.5	0.4	2.1	0.1	2.3	4.7	1.2
Bulgaria	39.4	0.7	1.4	2.2	4.4	0.6	3.1	10.2	0.5	1.4	0.1	2.1	0.2	1.1
TFYR Macedonia	30.8	2.4	4.0	5.5	0.2	5.4	3.6	6.5	0.6	3.7	0.0	0.3	2.7	1.3
Guyana	13.9	17.9	6.7	4.2	0.0	4.0	4.8	0.0	1.9	4.2	0.0	0.0	0.9	3.9
Japan	37.8	2.2	1.4	0.1	2.3	1.5	3.3	17.5	1.5	0.4	0.0	1.3	2.3	1.8
Germany	27.9	0.4	2.9	5.6	3.6	1.4	6.1	5.8	0.1	2.7	0.1	1.8	1.7	2.3
Kyrgyzstan	30.3	0.0	5.5	1.1	0.2	0.2	8.2	8.2	0.0	1.0	0.0	0.2	0.4	2.9
Slovakia	27.9	0.0	2.2	2.9	3.4	0.9	5.1	4.1	0.0	1.7	0.0	2.0	0.3	0.8
Denmark	18.6	0.0	10.8	5.7	2.2	2.4	1.8	3.9	0.0	5.8	0.2	1.3	2.0	0.4
Hong Kong SAR	16.5	0.8	2.8	0.0	17.6	2.0	1.3	7.2	0.7	1.8	0.0	11.1	2.4	0.4
Argentina	14.6	0.2	1.1	16.3	1.3	0.9	5.7	1.7	0.0	0.5	1.0	0.8	0.6	0.8
Finland	14.0	0.0	5.5	12.1	1.7	3.9	0.8	3.5	0.0	3.1	0.1	1.5	2.7	0.4
Chile	22.0	1.1	0.7	6.2	0.3	1.3	5.2	1.6	0.0	0.4	0.3	0.0	0.3	1.0
Sweden	13.8	0.0	6.1	7.1	1.8	4.0	3.3	1.9	0.0	4.5	0.2	0.9	2.7	0.8
Poland	29.4	0.1	0.7	0.3	1.2	0.5	3.6	5.3	0.0	0.3	0.0	0.6	0.4	0.6
Trinidad and Tobago	11.6	22.9	0.8	0.0	0.0	0.0	0.0	5.8	6.1	0.6	0.0	0.0	0.0	0.0
Spain	18.4	0.4	0.9	1.3	6.5	1.8	2.9	2.8	0.1	0.7	0.0	3.0	0.9	0.8
Venezuela	16.0	1.7	0.9	7.5	1.6	0.5	3.7	1.4	0.7	0.6	0.2	0.2	0.0	1.2
Romania	25.7	0.6	2.1	0.3	0.6	0.0	1.9	6.8	0.1	0.8	0.0	0.3	0.1	0.7

Table S5. Age-standardized suicide mortality by method among persons aged 65 years and older in 2000 (/100,000 population)

United States of America	2.6	0.0	1.9	23.8	0.4	0.4	1.0	0.8	0.0	1.1	1.6	0.2	0.2	0.2
Mauritius	12.1	0.0	12.8	0.0	0.0	1.5	1.4	6.5	0.0	0.4	0.0	0.0	0.0	1.1
Italy	11.1	0.2	0.8	4.9	5.1	1.1	1.8	1.7	0.0	0.5	0.1	2.5	0.7	0.5
Australia	7.5	0.4	7.4	5.3	0.6	1.2	1.1	1.6	0.0	2.7	0.3	0.1	0.4	0.5
Puerto Rico	16.9	0.0	0.6	4.5	0.0	0.0	1.0	1.3	0.0	0.0	0.5	0.0	0.0	0.0
Norway	6.7	0.0	1.6	7.9	1.7	2.9	2.0	2.3	0.0	0.4	0.0	2.1	1.5	0.6
Israel	9.1	0.1	1.2	3.2	2.0	0.3	5.4	2.4	0.0	1.1	0.2	1.0	0.0	3.4
New Zealand	8.2	0.0	5.6	3.3	1.6	0.9	1.1	0.5	0.0	1.0	0.0	0.0	0.0	0.5
Panama	14.9	2.5	0.1	2.6	0.0	0.0	0.6	0.0	1.2	0.0	0.0	0.0	0.0	0.0
Netherlands	9.7	0.0	2.8	1.2	1.4	2.9	2.3	2.7	0.2	1.8	0.0	0.6	2.3	0.9
Canada	5.6	0.0	3.0	7.7	0.9	0.7	1.5	1.1	0.0	1.6	0.1	0.4	0.4	0.7
Colombia	5.2	1.3	1.7	6.4	1.0	0.8	2.8	0.4	0.2	0.1	0.0	0.2	0.0	0.3
Suriname	7.2	2.0	0.0	7.9	0.0	0.0	2.0	0.0	6.2	6.2	0.0	0.0	0.0	0.0
Ireland	10.1	0.0	1.1	3.4	0.0	3.6	0.7	2.2	0.1	0.4	0.0	0.0	1.4	0.3
Costa Rica	1.1	4.9	1.9	7.8	1.0	0.0	2.1	0.8	0.9	1.7	0.0	0.0	0.0	0.6
Brazil	9.4	0.6	0.6	3.3	0.5	0.2	4.0	1.4	0.1	0.3	0.1	0.2	0.0	0.9
Guatemala	3.7	1.0	2.1	1.5	0.0	0.7	7.7	0.2	0.0	0.3	0.0	0.0	0.0	1.0
Uzbekistan	8.7	0.0	0.1	0.0	0.0	0.0	2.9	1.6	0.0	0.4	0.0	0.0	0.0	1.4
United Kingdom	5.3	0.0	2.9	0.6	0.3	0.8	1.5	0.9	0.0	2.0	0.0	0.1	0.4	0.4
Mexico	5.9	0.4	0.4	3.8	0.0	0.1	0.8	0.4	0.0	0.2	0.1	0.1	0.0	0.2
Philippines	5.2	0.4	0.0	0.3	0.3	0.2	1.9	1.0	0.1	0.2	0.1	0.1	0.0	0.7
Ecuador	3.2	0.7	0.7	0.7	0.0	0.0	0.7	0.0	0.6	0.3	0.0	0.0	0.0	0.0
South Africa	1.3	0.0	0.5	0.8	0.0	0.1	2.5	0.0	0.0	0.0	0.1	0.0	0.0	0.7

Location			Ν	/lale						Fe	emale			
Location	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other	Hanging	Pesticide	Other poisoning	Firearms	Jumping	Drowning	Other
Serbia	38.2	1.1	2.6	11.6	2.7	1.2	9.3	10.2	0.3	3.0	0.4	1.3	1.8	3.6
Slovenia	48.8	0.0	3.4	10.1	2.6	2.9	0.6	9.4	0.0	2.2	0.0	2.3	3.2	1.6
Hungary	46.3	1.1	4.1	2.6	4.4	1.2	4.9	7.6	0.2	5.0	0.0	2.2	0.7	1.7
Latvia	38.4	0.0	1.7	4.9	2.1	0.2	4.6	10.7	0.0	0.4	0.0	1.0	1.2	0.5
Lithuania	73.4	0.0	0.6	3.8	3.1	0.8	4.4	14.4	0.0	0.0	0.0	1.1	0.9	1.6
Croatia	39.1	0.0	1.6	10.0	2.0	1.1	5.6	9.1	0.0	2.6	0.1	2.1	2.0	0.9
Uruguay	27.2	0.0	0.0	26.6	1.6	2.2	4.4	3.5	0.0	0.5	1.0	0.4	1.9	1.6
Austria	23.2	0.0	2.0	16.5	4.0	2.2	4.7	3.8	0.0	2.0	0.1	2.2	1.2	2.4
Cuba	51.1	0.4	1.6	0.4	1.2	0.2	5.0	4.5	0.3	3.0	0.0	0.6	0.1	4.6
Estonia	37.3	0.0	4.9	6.1	0.0	1.2	5.4	6.0	0.0	0.5	0.0	0.4	0.0	0.2
Republic of Korea	49.9	16.9	13.4	0.0	12.9	3.0	9.9	13.1	4.8	4.5	0.0	5.7	1.5	2.6
Switzerland	8.7	0.0	2.4	14.7	4.8	2.2	4.7	2.0	0.0	2.7	0.3	1.8	1.4	2.2
France	17.8	0.0	1.7	10.4	1.7	1.5	2.5	3.7	0.0	2.2	0.2	1.3	1.7	1.1
Czech Republic	21.0	0.0	1.1	8.7	4.6	0.9	3.5	2.4	0.0	1.6	0.1	1.8	0.4	0.6
Republic of Moldova	35.5	0.7	0.0	0.9	0.2	0.8	5.5	3.9	0.0	0.5	0.0	0.6	0.5	0.6
Portugal	21.0	2.1	1.5	4.8	2.6	2.7	12.8	3.7	0.8	0.8	0.1	1.2	1.8	4.0
Belgium	17.3	0.2	2.2	5.1	2.0	2.8	4.9	4.3	0.0	1.8	0.3	1.7	2.9	1.5
Bulgaria	28.0	0.6	1.3	3.1	3.2	0.2	3.3	6.2	0.1	0.8	0.1	1.9	0.1	0.8
TFYR Macedonia	19.5	0.0	2.5	5.1	0.4	2.1	2.2	6.8	0.3	0.6	0.0	0.3	0.9	0.6
Guyana	13.7	26.7	14.8	0.0	0.0	0.0	16.2	0.5	4.8	0.0	0.0	0.0	0.0	1.7
Japan	26.5	0.6	1.4	0.0	1.9	1.4	3.0	10.5	0.4	0.4	0.0	1.3	1.4	1.3
Germany	17.1	0.1	3.6	5.3	3.0	0.9	5.1	3.5	0.0	2.7	0.1	1.7	0.9	1.8
Kyrgyzstan	8.9	0.0	1.6	0.0	0.0	0.4	3.8	2.1	0.0	0.9	0.0	0.0	0.0	0.2
Slovakia	21.3	0.0	1.9	5.2	3.2	0.2	8.1	1.6	0.0	1.1	0.2	0.5	0.0	0.8
Denmark	8.8	0.0	5.7	2.9	1.9	1.2	2.2	2.9	0.0	4.5	0.0	0.0	2.3	0.7
Hong Kong SAR	7.7	0.2	2.8	0.0	20.0	1.5	0.4	5.8	0.1	1.1	0.0	9.2	0.6	0.3
Argentina	12.0	0.1	0.1	11.0	0.2	0.4	3.2	1.5	0.1	0.2	0.4	0.0	0.3	0.9
Finland	7.0	0.0	3.6	7.7	1.5	1.7	2.3	1.4	0.0	3.4	0.2	0.3	1.3	0.4
Chile	23.0	0.3	0.5	2.3	0.4	0.5	1.0	2.3	0.0	0.5	0.1	0.3	0.0	0.3
Sweden	9.0	0.0	4.0	6.1	1.2	1.7	3.6	2.2	0.0	3.4	0.0	0.8	2.3	0.6
Poland	26.9	0.0	3.2	0.4	0.8	0.3	1.9	3.2	0.0	0.5	0.0	0.4	0.2	0.2
Trinidad and Tobago	3.7	3.9	10.9	0.7	0.1	0.1	3.8	0.8	0.9	1.4	0.0	0.0	0.0	0.3
Spain	11.7	0.1	1.3	1.8	4.5	0.8	1.3	1.5	0.0	1.0	0.0	1.9	0.8	0.6
Venezuela	5.7	0.4	0.7	1.5	0.3	0.2	1.7	0.8	0.1	0.2	0.1	0.0	0.0	0.3
Romania	26.8	0.1	0.6	0.1	0.5	0.6	1.6	5.1	0.1	0.5	0.0	0.4	0.2	0.4

 Table S6. Age-standardized suicide mortality by method among persons aged 65 years and older in 2015 (/100,000 population)

United States of America	3.2	0.0	2.4	23.6	0.4	0.3	0.9	0.8	0.0	2.1	1.9	0.2	0.1	0.3
Mauritius	6.7	0.0	0.0	0.0	0.0	0.0	2.5	2.1	0.0	0.0	0.0	0.0	0.0	0.6
Italy	8.1	0.0	0.5	3.2	3.3	0.6	1.8	1.1	0.0	0.4	0.1	1.6	0.3	0.6
Australia	8.9	0.4	4.1	3.7	0.7	0.7	3.0	1.3	0.1	2.8	0.0	0.3	0.2	0.9
Puerto Rico	17.9	0.0	0.5	4.0	0.0	0.0	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.2
Norway	5.2	0.0	2.1	6.1	2.8	1.0	1.6	2.5	0.0	3.8	0.0	0.0	2.2	1.2
Israel	4.8	0.0	1.1	1.5	1.5	0.0	3.7	1.8	0.0	0.3	0.0	2.0	0.0	0.9
New Zealand	5.4	0.3	2.7	3.5	0.2	0.6	1.1	1.0	0.0	1.4	0.0	0.1	0.2	0.0
Panama	5.7	0.8	1.0	0.8	0.0	0.0	0.8	0.3	0.2	0.3	0.0	0.2	0.0	0.0
Netherlands	9.0	0.0	4.2	0.8	1.6	1.8	2.6	2.5	0.1	2.6	0.0	0.6	1.6	0.9
Canada	5.5	0.0	3.3	5.0	1.0	1.0	1.4	0.8	0.0	2.2	0.1	0.4	0.3	0.2
Colombia	9.4	1.0	0.9	2.5	0.6	0.3	2.7	0.5	0.2	0.1	0.0	0.4	0.1	0.4
Suriname	26.3	26.0	1.0	2.1	0.0	0.0	3.5	4.6	8.2	0.0	0.0	0.0	0.0	0.0
Ireland	9.7	0.1	1.0	1.4	0.1	2.3	0.5	0.9	0.1	0.4	0.0	0.0	0.8	0.2
Costa Rica	3.5	1.7	1.2	4.0	0.4	0.2	0.7	0.6	0.0	0.4	0.0	0.1	0.0	0.0
Brazil	10.7	0.7	0.7	2.2	0.6	0.2	2.5	1.5	0.1	0.4	0.0	0.3	0.1	0.6
Guatemala	2.0	0.3	1.7	1.1	0.0	0.3	0.3	0.0	0.4	0.7	0.0	0.0	0.0	0.2
Uzbekistan	7.3	0.0	0.2	0.1	0.0	0.1	1.5	1.5	0.0	0.2	0.1	0.1	0.0	0.6
United Kingdom	5.7	0.0	2.0	0.9	0.5	0.6	1.8	1.2	0.0	1.4	0.0	0.2	0.3	0.5
Mexico	6.0	0.5	0.3	3.0	0.2	0.1	0.8	0.5	0.0	0.1	0.1	0.0	0.0	0.1
Philippines	5.5	0.3	0.5	0.1	0.0	0.0	1.7	0.6	0.1	0.1	0.0	0.0	0.0	0.3
Ecuador	11.1	0.9	2.0	2.6	0.4	0.1	2.7	1.6	0.2	0.0	0.0	0.0	0.0	0.3
South Africa	1.2	0.1	0.5	0.6	0.0	0.0	0.3	0.2	0.0	0.1	0.1	0.0	0.0	0.0