- 1 Pritchard C, Parrish M, Williams R # (2020) Civilian Violent Deaths in the USA
- 2 International Comparison of USA Civilian Violent Deaths: A Public Health
- 3 Approach to Reduce Youth (15-24) Gun- Related Deaths. Public Health.
- 4 180:109-113

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- 9 Abstract.
- 10 **Objectives:** The controversy about firearm fatalities amongst American Youth (15-
- 11 24) continues and this study examines whether a public health approach could
- 12 reduce USA gun-related Youth deaths.
- 13 **Study Design**: US and international population-based analysis.
- 14 **Methods:** Data from USA National Archives of American Military fatalities from the
- 15 Vietnam, Afghan and Iraq wars are contrasted against current USA Civilian Violent
- Deaths (CVD) (suicides, assaults and road deaths), using WHO data, with special
- 17 focus upon Youth (15-24) CVD. To place USA CVD results in a wider context
- 18 American CVD rates are compared with the seven Major Western Countries (MWC)
- 19 based upon latest WHO data on CVD for 2015. Road deaths fatalities, between
- 20 1979-2015, are analysed, compared to suicide rates, to demonstrate the
- 21 effectiveness of a public health policy, when Governments intervened to ensure
- technical improvements and change public behaviour to improve public safety.
- 23 **Results**: American Vietnam, Afghan and Iraq wars fatalities totalled 65,771. Vietnam
- 24 deaths averaged 5,838p.a. 2015 total USA CVD 101,456 consisted of 39,675 road
- deaths, 44,193 suicides and 17,588 homicides of which 30,891 probably gun-related.
- American CVD significantly higher than the other MWC. American Youth (15-24)
- 27 suicides and homicides totalled 10,223, minimum 5,112 gun-related. Public health
- approach significantly reduced road deaths, compared to suicides, in every country.

Conclusions: Government intervention reduced transports deaths, so too, with gunrelated violence by America appreciating its level of CVD compared to military deaths and other MWC rates. This would show that a Public Health approach is needed to reduce firearms deaths and make America safer.

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- human or animal involvement thus satisfying all ethical requirements.

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Introduction. [Text 3,000)

- 40 The spate of USA school-based shootings shocked America and the world, with
- 41 tragedies at Stoneham Douglas, February, 2018 and Sante Fe, May 2018, triggering
- 42 protests of American high-school students cry of "we want change".
- 43 Some have argued that USA gun-related violent deaths should be considered as a
- 44 public health problem ^{1,2} and it has recently been described as a Global public health
- 45 problem described in the international Global Burden of Disease study series 3.
- This current project provides new and original evidence to support such an approach
- 47 and starts with what was the greatest civilian death toll of the 1970's, namely
- 48 transport deaths ⁴. This saw a transformation following a preventative Public Health
- 49 approach across the Western world to improve road safety and behaviour, a model
- that could be applied to gun-related violence. Over the past 30 years there had been
- 51 major Governmental campaigns and legislation to make cars safer in the 1970's as
- Western Governments began to appreciate the scale of the problem, which were far,
- far higher than the powerful media highlighted child-related-abuse-deaths, especially
- when including health-related knock-on effect of bereaved and orphaned children ^{5,6}.
- 55 There were major preventative legislation that reduced transport deaths, bringing
- about changes such as the introduction of seat belts, campaigns against drinking and

57 driving as well as technical demands to make cars safer and as will be shown, is 58 perhaps one of the greatest modern Public Health achievements. For example, 59 extrapolating from WHO mortality data in the UK in 1979 there were 7,493 transport 60 deaths, which was four times the 2015 transport toll of 1,853 people killed 4. Whilst in 61 America, in 1979 there were 57,577 road deaths but by 2015 had fallen to 39,675, 62 despite a quadrupling of cars over the period 4. 63 One feature of road deaths is that apart from local media coverage there is relatively 64 little public awareness of the extent of such tragedies at the national level. 65 Conversely, there is a very high public awareness of military fatalities that surrounds 66 current and previous conflicts and of course the tragic school shootings. It is 67 suggested that if the extent of these Civilian Violent Deaths (CVD), that includes 68 firearm fatalities in the USA, compared with to the American military causalities was 69 better recognised, especially when compared with CVD in the seven Major Western 70 Countries (MWC), then the demand for a preventative Public Health approach would 71 be strengthened. 72 To do this this study examines the extent of current Civilian Violent Deaths (CVD) in 73 the USA compared to the Vietnam, Afghan and Iraqi war fatalities. Then compares 74 current CVD with the other seven MWC. These include suicides and homicides, 75 which in America are predominately related to firearms 7-11. These major Western 76 countries are Canada, France, Germany, Italy, Japan, Spain, and the UK. 77 The rational for a public health approach is that it is preventative, aimed at the public 78 good and is evidenced-based to enable public and policy makers to take better 79 informed decisions. 80 The debate within the USA about whether there is a need for stricter gun control 81 arouses passions, nonetheless, there appears to be a growing consensus that 82 something must be done, echoing the cries of American youth "we want change",

reinforced by another tragedy at a Thousand Oaks in November 2018.

- 84 It is argued that stricter gun control is feasible if it was appreciated just how
- 85 extraordinary high is the level of risk of gun violence in America compared to
- so comparable Western countries, especially in relation to Youth deaths, young people
- 87 aged 15-24³.
- 88 The key difference between the USA and the other countries under review is that
- 89 USA homicide and suicide deaths are mainly gun-related, approximately 80% and
- 90 66% respectively ⁷⁻¹¹, whilst the rates of fire-arms related deaths are comparatively
- 91 rare in the other MWC ¹²⁻¹⁴. For example, in England & Wales in 2017 there were
- 92 1,388,000 firearm licences issued but of the 709 homicides only 4.8% (34) were the
- 93 result of guns ¹⁴ or a rate of 0.5 per million of the total UK population.
- 94 Perhaps the nightmare of every parent is that their child should pre-decease them.
- How horrific if they died by murder, or the tragedy of a road accident or even worse,
- 96 by suicide, which becomes a scar that lives with them forever ¹⁵.
- 97 As it was the high-school shootings that aroused such public concern, the study
- 98 focuses upon Youth (15-24 years) deaths as a major risk factor in Youth suicide is
- 99 impulsivity, consequently the easy access to a lethal method of self-harm is truly vital
- 100 8,16,17. Hence the particular focus upon violent deaths amongst American Youth and
- the other MWC.
- 102 **Method.** The numbers of USA military losses in the Vietnam (1963-73), Afghan
- 103 (2001-2013) and Iraq (2003-10) wars are drawn from the USA official National
- Archives ¹⁸⁻²⁰. All fatalities of those killed in action, died of wounds or 'missing' but
- not the 382 self-inflicted deaths reported, which suggest a different dynamic. It
- should be stressed that in considering US military losses we intend no disrespect.
- 107 Indeed in remembering their loss, reflects their sacrifice which was to make the USA
- 108 safer.
- 109 The USA Civilian Violent Deaths (CVD) includes suicides and assaults because the
- majority method involved firearms ⁷⁻¹¹. Transport deaths are also examined between
- 111 1979, the earliest year for which we have WHO data to 2015 ⁴. To make the public

health case, we compare all eight countries transport and suicide deaths, to determine whether there were any statistically significant difference between the two mortalities over the years that might indicate the impact of Governmental efforts to reduce the transport toll. As many American States are bigger than many European nations it was decided to compare only what were designated Major Western Countries by having a general population of at least 35 million people. The seven MWC are Canada, France, Germany, Italy Japan, Spain and the UK, all mortality data was taken from the WHO 4. Five MWC data was for 2015 but Canada's latest year was for 2013, and France 2014. We report the numbers of deaths for all the countries reviewed, from which to calculate death rates per million (pm) per population for all ages and for the Youth age-band 15-24, enabling us to compare the USA with countries of smaller population size. This approach has been successfully used across various international comparative studies, ranging from cancer, child abuse, public health to changes in neurological mortality ²¹⁻²⁴. Reducing Suicide & Transport Deaths 1979-2015: Every nation wants to reduce civilian deaths as much as possible and to examine the degree of success we compare each country's transport and suicide, drawing upon the current WHO data, based upon the ICD-10 for the recorded year 1979, contrasted with the latest year of each country under review, mainly 2015 4. To compare relative success in reducing suicide and transport deaths, chi square tests are used to determine any statistical significant difference for each of the countries. It might be said that whilst many Western government's aspiration to reduce suicides, we have not had the same Public Health input that has been given to making roads safer. To examine any the differences between the USA and the MWC CVD rates per million for Youth (15-24) and Total population, we calculate a series of MWC to USA ratio.

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Estimating Extent of Gun-Related-Deaths: The percentage of reported gun-related homicide and suicide deaths in America are approximately 80% and 66% respectively 7-11. It was decided to err on the side of caution and avoid any criticism that we might be over-estimating American gun-related fatalities, so we conservatively estimate that only fifty percent of homicides and suicides were gun-related, which means the numbers of such deaths are a likely to be an underestimate.

Again to avoid over-stating the USA position accidental gun deaths of children and

Again to avoid over-stating the USA position accidental gun deaths of children and other accidental gun deaths are not included ²⁵, as accidents are of a different nature to suicide and homicide in which firearms are the method of lethality.

The Undetermined Death (UnD) category is another mortality that typically entails a degree of violence ⁴. This was also excluded, although sub-categories in UnD include `doubtful' road and gun deaths, which might infer under-reported suicides ^{25,26}.

Results- The War Fatalities: In the Vietnam war between 1963 and 1973 it has been estimated that 57,838 American services personnel died during the conflict, averaging 5,838 deaths p.a. During the main Afghan war years (2001-13), there were 3,410 fatalities, averaging 341 p.a. There was a further 131 deaths in the 2014-17 period, which are not included as it would minimise the overall average annual loss during the height of the conflict.

In the Iraq wars between 2003 and 2010 there were 4,523 USA fatalities, averaging 646 p.a. From the three wars there was a total of 65,771 American service personnel lost over 29 years shown in Table [1]

Table [1] Numbers and Annual Average USA Military Deaths in Viet Nam, Afghan Iraq Wars.

Wars	Numbers	Annual Average
Viet Nam 1963-73	57,838	5,838 p.a.
Afghan War 2001-13	3,410#	341 p.a.
Iraq Wars 2003-10	4,523	646 p.a.
Total Numbers	65,771	2,268 p.a.

Does not include 131 Killed in Afghan War between 2014-17

How do these tragic losses compare with the USA civilian losses in 2015 from homicide, suicide and transport, mainly road deaths?

170 USA Civil Violent Deaths (CVD) 2015.

In 2015 there were a total 17,788 homicides in the USA, which is more than three times the annual average Vietnam toll of 5,838 deaths.

Total suicides were 44,193, which is more than seven times the annual average

Vietnam war fatalities.

Of the homicide and suicides it was estimated that only 50% of these fatalities were gun-related, giving an approximate 30,891 people dying from victims of gun-violence in one year.

Transport deaths in 2015 were 39,675 giving a total of 101,456 combined CVD in one year, exceeding the 65,771 losses incurred in three wars over twenty-nine years of war.

In respect to American Youth (15-24) CVD the total deaths for all three categories, was 17,432, at a rate per million population of 394pm.

There were 10,223 homicide and suicide Youth deaths, which if 50% were by guns gives an estimated 5,112 victims of gun-violence which was not far from the 5,838 annual average of the Vietnam losses.

Table [2] USA Civilian Violent Deaths 2015 Numbers & rates per million [pm]. Ranked by Highest Total Mortality Category.

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Mortality	Youths	General	
Category	15-24	Population	
Suicide	5,491 - 124pm	44,193 - 138pm	
Transport	7209 – 163pm	39,675 - 124pm	
Homicide	4,732 – 107pm	17,588 - 56pm	
[Ratio 50% Guns]	[5,112- 116pm]	[30,891 - 97pm	
Total	17.432 – 394nm	101 456 - 318pm	

192	Civilian violent Deaths in Major Western Countries (MWC): The USA CVD might
193	sound severe but how do they compare with the seven MWC, whose mortality rates
194	per million of population and numbers of deaths are shown in Table [3]
195	The USA had the highest all-age total CVD at a rate of 318 per million (pm) followed
196	by Japan at 233pm, Canada 196pm, France 190pm, Germany 183pm, Italy 135pm,
197	Spain 129pm and the UK 105pm. This yields an average of 167pm for the seven
198	MWC.
199	In respect to Total homicides, at 56pm the USA far exceeded every other country,
200	homicides, compared to the MWC average of 6pm and only Canada reached double-
201	figures at 13pm.
202	Youth (15-24) CVD: The total USA Youth CVD rate was 394pm, followed by Canada
203	216pm, Japan162pm, France 134pm, Germany 130pm, Italy 120pm, the UK 101pm
204	and Spain 82pm.
205	USA Youth homicide rates were 107pm, followed by Canada 21pm, Germany 7pm,
206	France and 5pm, Japan and the UK 2pm. The MWC average was 7pm for the year
207	2015.
208	American Youth suicides at 124pm, were second to Japan at 126pm, followed by
209	Canada 95pm, UK 59pm, France 50pm, Spain 36pm and Italy 33pm.
210	In respect to transport deaths the USA was highest at 163pm, the only other country
211	to reach three figures was Canada at 100pm the other MWC averaging 55pm.
212	In column three in Table [3] are the MWC Youth to USA Youth CVD rate ratios. The
213	final column gives the Total CVD MWC to USA ratios.

Table [3] Numbers & Rates Civilian Violent Deaths 2015 in USA & MWC Youth & General Population rates per million [pm]. MWC to USA ratios.

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Country & Total Rank	Youth 15-24 Numbers- Rates	MWC:USA Ratio	General Population Numbers- Rates	MWC:USA Gen Ratio
1.USA. 2015. Suicide	5,491 - 124pm	1:1.00	44,193 - 138pm	1:1.00
Transport	7209 – 163pm	1:1.00	39,675 - 124pm	1:1.00
Homicide	4,732 - 107pm	1:1.00	17,588 - 56pm	1:1.00

Total	17,432 – 394pm	1:1.00	101,456 - 317pm	1:1.00
2. Japan 2015. Suicide	1,499 - 126pm	1:0.98	23,160- 185pm	1:0.75
Transport	404 - 34pm	1:4.79	5,646 - 45pm	1:2.75
Homicide	15 - 2pm	1:53.5	316 - 3pm	1:18.7
Total	1,918 - 162pm	1:243	29,122 - 233pm	1:1.36
3.Canada.2013.Suicide	438 - 95pm	1:1.31	4,054 - 115pm	1:1.20
Transport	463 - 100pm	1:1.63	2380 - 68pm	1:1.82
Homicide	95 - 21pm	1:5.10	446 - 13pm	1:4.31
Total	996 - 216pm	1:1.82	6,880 - 196pm	1:1.62
4.France 2014. Suicide	374 - 50pm	1:2.48	8881 - 138pm	1:1.00
Transport	596 - 79pm	1:2.06	3,056 - 48pm	1:2.58
Homicide	33 - 5pm	1:21.4	285 - 4pm	1:14.0
Total	1,003 - 134pm	1:2.94	12,222 - 190pm	1:1.67
5.Germany 2015. Suicide	512 - 59pm	1:2.10	10088 - 133pm	1:1.04
Transport	558 - 64pm	1:2.55	3,368 - 45pm	1:2.76
Homicide	57 - 7pm	1:15.3	434 - 5pm	1:11.2
Total	1,127 - 130pm	1:3.03	14,886 - 183pm	1:1.73
6.Italy 2015. Suicide	195 - 33pm	1:3.76	3989 - 66pm	1:2.09
Transport	478 - 81pm	1:2.01	3783 - 62pm	1:2.00
Homicide	38 - 6pm	1:17.8	395 - 7pm	1:8.00
Total	711 – 120pm	1:3.28	9,294 - 135pm	1:2.35
7. Spain 2015. Suicide	162 - 36pm	1:3.44	3604 - 78pm	1:1.77
Transport	186 - 41pm	1:3.97	2097 - 45pm	1:2.76
Homicide	24 - 5pm	1:21.4	288 - 6pm	1:9.33
Total	372 - 82pm	1:4.80	5,989 - 129pm	1:2.46
8. UK 2015. Suicide	478 - 59pm	1:2.10	4,910 - 75pm	1:1.84
Transport	321 - 40pm	1:4.08	1,853 - 28pm	1:4.43
Homicide	17 - 2pm	53.50	124 - 2pm	1:28.0
Total	816 - 101pm	1:3.90	6,763 - 105pm	1:3.02
Average MWC Suicide	65pm	1:1.91	56pm	1:2.46
Average Transport	55pm	1:2.98	40pm	1:3.10
Average MWC Homicide	7pm	1:15.3	6pm	1:9.33

219 The total MWC Youth to USA Youth CVD ratios were Canada 1:1.82, Japan 1:2.43, 220 France 2.94, Germany 1:3.03, Italy 1:3.28, the UK 1:3.90 and Spain 1:4.80. Apart 221 from Canada, American Youth (15-24) had more than double the MWC rate of 222 civilian violent deaths. 223 The salient ratios are in regard to suicides as the USA had more than double the rate 224 of MWC. Youth MWC to USA homicides ratios were substantial, ranging from just 225 1:5.10 in Canada, to six countries having more than 1: 15.3. There were notable 226 highs of 1:21.4 in France and Spain and Japan and the UK 1:53.5. Bearing in mind 227 that suicides in America are strongly linked to firearms, the high USA Youth rate may 228 be because of the relatively easy access to guns, by distressed impulsive Youth,

using the most lethal effective easily available method - firearms, which yields an 229 230 estimated 2,746 possibly gun-related suicides a rate of 62pm. 231 In regard to Total CVD, the disproportionate MSW to USA ratios was repeated for 232 both suicide and homicides, an average ratio of 1:2.46 and 1:9.3 respectively, 233 another strong indication of the effect of easy access to firearms. 234 Public Health Success Reducing Suicide & Transport Deaths: This can be clearly 235 demonstrated when examine changing patterns of transports and suicide fatalities 236 between 1979 and 2015 shown in table [4]. 237 In the USA suicides were 27,206 a rate of 121pm, now are 42,772, a rate of 134pm. 238 Conversely, USA transport deaths fell from 57,577, a rate of 256pm, down to today's 239 39,675 deaths, a rate of 118pm, more than halving the earlier toll, a statistically 240 significant change (p<0.0001). 241 The success of a Public Health approach to transport deaths is exemplified in Table 242 [4] showing that every MWC reduced its transport deaths significantly more than their 243 suicides over the period, this was especially strong for Youth transport and suicide 244 deaths (p<0.001). It should be noted, that except in Germany, in 1979 every MWC 245 total transport rates were higher than their suicides but are now fare lower in every 246 MWC. Whilst in respect to Youth fatalities the 1979 transport deaths were higher than 247 suicides in all eight countries but today there has been a complete and significant 248 reversal as via Government's Public Health preventative legislation lives have been 249 saved.

<u>Table [4] Comparing Suicide & Transport Death Numbers & Rates per million 1979-2015</u> <u>Chi Square p value: Ranked by Highest Youth Suicide & Transport rates</u>

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Country	1979	Total Population	X2	Youth 15-24	X2
& 2015		Suicide- Transport	P value	Suicide-Transport	P value
1.USA	1979	121pm – 256pm.		124 pm – 476pm	
	2015	138pm - 124pm	27.2	124pm - 163pm	50.9
% Change	е	+14%52%	***<0.0001	+ 0%66%	***<0.0001
2. Canada	a 1979	142pm - 275pm		172 pm - 523pm	
	2015	115pm - 68pm	43.0	95pm - 100pm	41.7
% Change	е	-19%75%	***<0.0001	-45%81%	***<0.0001
3.Japan	1979	197pm - 213pm		148pm - 158pm	

2015	185pm - 45pm	64.2	126pm - 34pm	40.0
% Change	-6%79%	***<0.0001	-15%78%	***<0.0001
4.France 1979	187pm - 213pm		99pm - 391pm	
2014	138pm - 48pm	38.7	50pm - 64pm	28.1
% Change	-26%77%	***<0.0001	-49%84%	***P<0.0001
5.Italy 1979	140pm -172pm		68pm - 281pm	
2015	66pm - 62pm	1.63	33pm - 81pm	4.51
% Change	-53%64%	<0.2 n.sig	-51%71%	*<0.04
6.Germany 1990	175pm - 145pm		95pm - 285pm	
2015	133pm - 45pm	19.5	59pm - 64pm	23.1
% Change	-24%69%	**<0.001	- 38%78%	***<0.0001
7.UK 1979	88pm - 134pm		49pm - 253pm	
2015	75pm - 28pm	31.0	59pm - 40pm	26.7
% Change	-15%79%	***<0.0001	+20%84%	***<0.0001
8. Spain 1980	88pm – 172pm		54pm - 223pm	
2015	78pm - 45pm	29.7	36pm - 41pm	23.6
% Change	-11%74%	***<0.0001	-33%82%	***<0.0001

! Unified Germany's base line was 1990

Gen pop 26.044 million –Baseline Years Denmark 1994, Finland 1987, Norway 1986 and Sweden 1987

Discussion

This studies results provides evidence for the high-school student's call "we want change", showing that America had substantially higher rates of gun-related civilian deaths than the other major Western countries. Whilst homicides often attract high media attention there does not appear to be the same appreciation that suicides often involve firearms. Moreover these gun-related deaths might be thought of an under-reporting as the USA results did not include children's deaths and serious injuries related to guns, 1,300 and 5,790 respectively ²⁵. Furthermore, there is indicative evidence that the official suicide figures for Youths are under-reported in many countries, including the USA, often being designated as Undetermined ^{26,27}. Moreover, there is considerable evidence that the impact of a homicide upon family members often has long-lasting negative consequences upon surviving family and friends ^{6, 28-31}. As an American study of 3,614 adolescent's response to homicide, the results were projected the results onto the national population, which estimated that in their life-times, one in five young people might be affected by a homicide of someone they knew or a family member ²⁸.

The multi-national study looking of firearm deaths across in the world, estimated the 250,000 people die annually and that the USA, along with Colombia, Mexico Guatemala and Venezuela, accounted for more than 50% of these deaths world-wide Is there a possible solution to reduce USA gun deaths, especially its Youth? Yes, as lessons can be drawn from the massive improvement in transport deaths brought about Governments preventive Public Health approaches. It was essentially Western Government action that brought about a range of changes - seat belts, restrictions on alcohol, changing attitudes that improved safety, saving thousands of lives. If we are to reduce the tragic loss of young lives from suicide and homicides, where the easy access to firearms have such fatal consequences then Government at Federal and State level must take a preventative approach and act. It should be remembered that guns are not banned in Britain but whilst 1.338 million British people own a gun, there were less than forty gun-deaths in 2017 14, which included accidental military casualties. This is because of UK safety controls, not bans, are so effective, which is the core of a preventive Public Health approach, the common good of all. The core message of these results is the need for the American public and policy makers to look outside the USA in order for a change of mind set needed to bring about change. The American general public need to be aware of the toll of gunrelated victims of violence compared to the rest of the Western world, especially amongst young people. Seen in the simple fact that US Youth (15-24) firearm deaths are close to the tragic annual average of the Vietnam war. This evidenced-based Public Health study to reduce gun-relates deaths indicates that this is achievable and feasible in the USA. So that that families might feel more relaxed when their children leave for school or when young people, who experiencing psychosocial turbulence, do not have easy access to fatal weapons, which with youthful impulsivity ends so tragically.

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References

- 305 1.Hemenway, D. (2001) The public health approach to motor vehicles, tobacco, alcohol with applications to firearm policy. *J Pub Health Pol.* 22: 31-402.
- 307
 308
 2. Mozaffrarian, D., Hemenway, D., Ludwig, D. (2013) Curbing Gun Violence:
 309
 Lessons From Public Health Success. Viewpoint.
- 310 www.jamnetwork.com/journals/jama/ful article/1556167.

311

3. Naghavi M, Marczak LB, Kutz M, Shackleford KA, Arora M, Miller-Petrie M et al (2015) Global Burden Disease Studies. *JAMA*. 320: 792-814.

314

4. World Health Organisation (2018). Annual Mortality Statistics. www.who.int/healthinfo/statstics/mortality/whodpms

317

5. Pritchard C , Davey J & Williams R (2013) Who kill children? Re-examining the evidence. *Brit J Soc Work.* 43; 1403-1438.

320

- 321 6. Alisic, E., Groot, A., Snetselaar, H., Stroeken, T., van de Putte, E. (2017) Children
- 322 bereaved by fatal intimate partner violence: A population-based study into
- demographics, family characteristics and homicide exposure. *PLoS One*.
- 324 4;12(10):e0183466. doi: 10.1371/journal.pone.0183466. eCollection 2017.

325

7. Oh, S.H., Lee, K.U., Kim, S.H., Park, K.N., Kim, Y.M., Kim, H.J. (2014) Factor associated with choice of high lethality methods in suicide attempters: A cross-sectional study. *Intern J Ment Health Sys*.18: 43-48.

329

8. Sarai, S.K., Abaid, B., Lippmann, S. (2017) Guns and Suicide: Are They Related?
 Prim Care Comp CNS Dis. Dec 21;19(6). pii: 17br02116. doi: 10.4088
 /PCC.17br02116.

333

9.Siegel, M., Xuan, Z., Ross, C.S., Galea, S., Kalesan, B., Goss, K.A. (2017) Easiness of legal access to concealed firearm permits and homicide rates in the USA. *Am J Pub Health*, 107: 1923-1929.

337 338

10.Koper, C.S., Johnson, W.D., Stesin, K., Egge, J. (2018) Gunshot victimisations
resulting from high-volume gunfire incidents in Minneapolis: findings and policy
implications. *Injury Prev.* Feb 24. pii: injuryprev-2017-042635. doi:
10.1136/injuryprev-2017-042635.

343

11. Regoeczi ,W.C., & Gilson, T. (2019) Homicide and suicide in Cuyahoga County,
 Ohiuo, 1991-2016. *J Foren Sci.* doi:10.111/1556-4029.13729 Epub ahead print.

346

347 12. Paraschakis, A., Michopoulos, I., Douzenis, A., Lykouras, L. (2014) Switching suicide methods in order to achieve lethality: A study of Greek suicide victims. *Death Stud.* 38; 438-442.

350

13. Lopez, G. (2017) America's unique gun violence problem explained in 17 maps. Vox; www.vox.com/policy-and-politics/ us-gun-violence/statistics.

- 14. Office of National Statistics (2018) Homicide in England & Wales 2016.
 www.ons.gov.uk
- 356

368

371

374

385

- 357 15. Wertheimer, A. (2001) A Special Scar. The experiences of people bereaved by
 358 suicide. 2nd ed. London, Routledge.
 359
- 16. Diez, C., Kurland, R.P., Rothman, E.F., Bair-Merritt, M.J., Fleegler, E., Gale, S., Siegel M. (2017) State Intimate Partner Violence-Related Firearm Laws and Intimate
- Partner Homicide Rates in the United States 1991-2015. *Ann Intern Med.* 167; 536-363 543.
- 17. Griffin, R.I., Richardson, J.B., Kerby, J.D., McGwin, G. (2018) A decompositional
 analysis of firearm-related mortality in the United States 2001-2012. *Preven Med.* 106: 194-199.
- 18. National Archives (2008) *USA Causalities in Viet Nam Wa*r. www.archives.gov.research/military/vietnam-war/casualities-statstics.
- 19. NBC News (2018) *Afghan War by Numbers*. www. Nbcnew.com/politics/war-afghan-numbers.
- 375 20. National Archives (2018) USA Causalities in Iraq War. www.gov.reserch/alic/
 376 references/military/war-in-iraq.
 377
- 21. Pritchard C & Hickish T (2011) Comparing cancer mortality rates in England &
 Wales with other major developed countries 1979-2006. *Brit J Cancer*, 105; 1788 1994
- 381
 382 22. Pritchard C & Mirza S (2016) Under-fives Child Mortality and Child-Abuse 383 Related-Deaths in the Former USSR: Is there an Under-reporting of Abuse related
 384 deaths? Child Abuse Rev. 25; 218-229.
- 23. Pritchard C & Keen S (2016) Child Mortality and Poverty in Three World Regions
 The West, Asia and Sub-Saharan Africa 1988-2010: Evidence of relative intra regional neglect? Scand J Pub Health, 44;734-741.
- 390 24. Pritchard C, Mayers A, Baldwin DS (2013) Changing patterns of neurological mortality in the 10 major developed countries 1979-2010. *Public Health*, 127, 357-68.
- 393 25. Fowler, K.A., Dahlbeeg, L.L., Haileyesus, H., Gutierrez, C., Bacon, S. (2017)
 394 Childhood firearms injuries in the United States. *Pediatrics*. 140; 1-16.
 395
- 396 26. Varnik, P., Sisask, M., Varnki, A., Arensman, E., Heger, U. (2012) Validity of suicide statistics in Europe in relation to undetermined deaths: Developing a 2-20 benchmark. *Injury Preven.* 18, 321-5.
- 399
 400 27. Tøllefsen IM, Helweg-Larsen K, Thiblin I, Hem E, Kastrup MC, Nyberg U, Rogde
 401 S, Zahl PH, Østevold G, Ekeberg Ø. (2015) Are suicide deaths under-reported?
 402 Nationwide re-evaluations of 1800 deaths in Scandinavia. BMJ Open. Nov.
- 403 25;5(11):e009120. doi: 10.1136/bmjopen-2015-009120. 404
- 28. Rheingold, A.A., Zinzow, H., Hawkins, A., Saunders, B.E., Kilpatrick, D.G. ((2012) Prevalence and mental health outcomes of homicide survivors in a representative US
- 407 sample of adolescents: data from the 2005 National Survey of Adolescents. *J Child*
- 408 Psych Psychiat. 53:687-94.

410 29. Englebrecht, C., Mason, D.T., Adams, M.J. (2014) The experiences of homicide 411 victims' families with the criminal justice system: an exploratory study. Viol Victims. 412 29:407-21. 413 30. Costa, D.H.D., Njaine, K., Schenker, M. (2017) Repercussions of homicide on 414 415 victims' families: a literature review. Ciente Saude Colete. 22: 3087-3097... 416 31. Barbería E, Gispert R, Gallo B, Ribas G, Puigdefàbregas A, Freitas A, Segú E, 417 418 Torralba P, García-Sayago F, Estarellas A. (2018) Improving suicide mortality

statistics in Tarragona (Catalonia, Spain) between 2004-2012. Rev Psiguiatr Salud

409

419

420

421

Ment. 11:227-233.