

CURRICULUM VITAE
MATTHEW JASON MILLER

EDUCATION:

Biology	BS	Yale University, New Haven, CT
Medicine MD		Yale University School of Medicine, New Haven, CT
Public Health	MPH	Harvard School of Public Health, Boston, MA
Health Policy	ScD	Harvard School of Public Health, Boston, MA

LICENSURE AND CERTIFICATION:

1991	Board certified, Internal Medicine
1995	Board eligible, Medical Oncology

ACADEMIC APPOINTMENTS:

1990-1991	Instructor in Medicine, Department of Medicine, Yale School of Medicine
1995-1996	Instructor in Medicine, Department of Medicine, Harvard Medical School
1995-1996	Instructor in Medicine, Medical Oncology, Dana-Farber Cancer Institute
1999-2003	Research Associate, Harvard Injury Control Research Center
2003-2008	Assistant Professor of Health Policy and Injury Prevention, Department of Health Policy and Management, Harvard School of Public Health
2009-2014	Associate Professor of Health Policy and Injury Prevention, Department of Health Policy and Management, Harvard School of Public Health
2014-present	Professor of Epidemiology (adjunct), Department of Epidemiology, Harvard School of Public Health
2014-present	Professor of Health Sciences and Epidemiology, Department of Health Sciences, Northeastern University

HOSPITAL APPOINTMENTS:

1990-1991	Attending Physician in Medicine, Yale-New Haven Hospital
1990-1991	Attending Physician in Medicine, West Haven VA Hospital
1995-1997	Attending Physician in Medicine, Brigham and Women's Hospital
1995-1996	Acting Clinical Director of Phase I Trials, Dana-Farber Cancer Institute

HONORS AND DISTINCTIONS

1996-1999	National Research Service Award (T32)
2006-2007	Young Investigator Award, American Foundation for Suicide Prevention
2008	Young Investigator Research Award, American Foundation for Suicide Prevention
2011	Burke Global Health Fellowship Award, Harvard Institute for Global Health
2011	Excellence in Science Award, The American Public Health Association's Injury Control and Emergency Health Services (ICEHS) award for "significant contributions that have a long-term impact on the injury field"
2011	Teaching Award, Harvard School of Public Health
2013	Mentoring Award, Harvard School of Public Health

- 2015 Jess Kraus Paper of the Year Award in Injury Epidemiology (“Explaining Geographic Patterns of Suicide in the US: The Role of Firearms and Antidepressants” *Injury Epidemiology* 2014, 1:6).
- 2018 Kenerson Faculty Scholarship Award, Bouvé College/Northeastern University (in recognition of the impact and significance of research and teaching)
- 2018 Reviewer of the Year Award, American Journal of Public Health

PROFESSIONAL SERVICE

- Admissions committee for ScD, MPH, and MS programs at HPM 2003-2014
- Harvard School of Public Health Human Subjects Committee member 2004-2014
- Organizing committee member for two summits of the International Association of Chiefs of Police on police suicide and illegal firearm trafficking 2006-2007
- Manuscript review for: *JAMA, American Journal of Public Health, American Journal of Epidemiology, Pediatrics, International Journal of Epidemiology, Social Science and Medicine, Injury Prevention, Accident Analysis and Prevention, Journal of Quantitative Criminology, Kennedy Institute of Ethics Journal, Journal of Adolescent Health, Social Science and Medicine, American Journal of Preventive Medicine, Suicide and Life Threatening Behavior* 2006-Present
- Testimony before Commonwealth of Massachusetts House of Representatives on need for population based approach to suicide prevention 2006
- Faculty Advisor for the Harvard Jewish Students Association 2009-2014
- Consultations with the Vice Chief of Staff of the US Army, General Peter Chiarelli, and his staff, including other Army generals, to try to develop a program to reduce suicide in the US Army. 2009-2014
- Consultation with police officers from the Office of the Commissioner/Family Assistance Unit of the Boston Police Department, and helped create a program to prevent suicide among police officers 2010
- Service on the State Trauma Outcomes Committee (STOC) for Massachusetts, which is the scientific advisory subcommittee to the State Trauma Committee and to the Massachusetts Department of Public Health on the uses of the new State Trauma Registry and Injury Prevention. 2010
- Member of the U.S. Army Suicide Reduction and Prevention Research Strategic Planning Work Group 2010-Present
- Scientific Advisory Board for the American Foundation for Suicide Prevention 2011-Present
- Consultations with the National Strategy for Suicide Prevention Task Force 2011-Present
- Board of Directors, Safe Kids Massachusetts

	2012-2014
Member of the Scientific Advisory Committee for The Patient Safety Center of Inquiry (PSCI) focusing on suicide prevention	2012-Present
Topic Expert for the National Action Alliance for Suicide Prevention Research Task Force (founded in 2010 by the Department of Health and Human Services)	2012-Present
Advisory Board, Jed Foundation for suicide prevention	2013-Present
Ivy League/Big Ten Concussion Committee	2013-2014
IOM/NRC invited expert testimony re setting the research agenda for firearm-related violence research for the CDC	2013
Advisory Board, National Medical Council on Gun Violence	2014-Present
Research Oversight Committee, Department of Veterans Affairs, Center of Excellence at Canandaigua	2014-Present
Epidemiology Advisory Board, Veterans Health Administration	2015-Present
American College of Emergency Physicians Research Committee – Technical Advisory Group (TAG) on Firearm Research	2015-Present
National Medical Council on Gun Violence Advisory Committee	2015-Present
Consortium for Risk-Based Firearm Policy committee member	2015-Present
Chair, Consortium for Risk-Based Firearm Policy Report on the role of healthcare provider training programs in firearm suicide prevention	2015-Present
Task force MA Attorney General’s Office: helping health care providers speak with patients about firearms	2017-Present
“Thought Leader” chosen to advise the White House task force on Veteran Suicide	2019

MAJOR ADMINISTRATIVE RESPONSIBILITIES:

1990-1991	Chief Resident, Department of Medicine, Yale-New Haven Hospital
2000-2012	Deputy Director of the Harvard Injury Control Research Center
2006-2007	Acting Director of the Harvard Injury Control Research Center
2013-present	Co-Director of the Harvard Injury Control Research Center
2014-2016	Director of the Undergraduate Major in Health Sciences, Northeastern University
2017-present	Chair Departmental ATP Committee, Northeastern University

EDITORIAL BOARDS AND EDITORSHIPS

2011	Editorial committee member for <i>Epidemiological Reviews</i>
2013	Editorial Board, <i>Injury Epidemiology</i>
2013-present	Assistant Editor, <i>Injury Epidemiology</i>
2014-2015	Editorial committee member, <i>Epidemiological Reviews</i>

MAJOR RESEARCH INTERESTS:

Injury Prevention; Suicide Prevention; Violence Prevention; Epidemiology; Pharmacoepidemiology; Firearm injury; Health Policy; Medical Ethics; Causal Inference

TEACHING EXPERIENCE

1990-1991 Internal Medicine. Yale-New Haven Hospital. Chief Resident in Medicine.
 1995-1997 Internal Medicine. Brigham and Women's Hospital. Attending Physician.
 1997-1998 Decision Sciences. Harvard School of Public Health. Teaching Assistant.
 2006-2014 Suicide Prevention. Harvard School of Public Health. Principal Lecturer.
 2010-2014 Suicide and Violence Prevention. Harvard College. Principal Lecturer
 2015-Present Research Methods in Health Science, Northeastern University, Principal lecturer

BIBLIOGRAPHY*Peer-reviewed Journal Articles:*

1. **Miller M**, Hemenway, D. The relationship between firearms and suicide: a review of the literature. *Aggression and Violent Behavior: A Review Journal* 1999; 4:59-75.
2. **Miller M**, Hemenway D, Wechsler H. Guns at college. *J Am Coll Health* 1999; 48:7-12.
3. **Miller M**, Hemenway D, Rimm E. Cigarettes and suicide: a prospective study of 50,000 men. *Am J Public Health* 2000; 90:768-773.
4. **Miller M**, Hemenway D, Bell N, Yore M, Amoroso P. Cigarettes and suicide: a prospective study in 300,000 male active duty soldiers. *Am J Epidemiol* 2000; 151:1060-1064.
5. **Miller M**; Azrael, D; Hemenway, D. Community firearms, community fear. *Epidemiology* 2000; 11:709-714.
6. **Miller M**. Phase I cancer trials: a collusion of misunderstanding. *Hastings Center Report* 2000; 30 (4):34-42.
7. Azrael D, **Miller M**, Hemenway D. Are household firearms stored safely? It depends on whom you ask. *Pediatrics Electronic Pages* 2000; 106:(3). Available at <http://www.pediatrics.org/cgi/content/full/106/3/e31>
8. Hemenway D, **Miller M**. Firearm availability and homicide rates across 26 high-income countries. *J of Trauma* 2000; 49:985-988.
9. Hemenway D, Azrael D, **Miller M**. Gun use in the United States: results from two national surveys. *Inj Prev* 2000; 6:263-267.
10. **Miller M**, Azrael D, Hemenway D. Firearm availability and unintentional firearm deaths. *Accid Anal Prev* 2001; 33:477-484.
11. Hemenway D, Azrael D, **Miller M**. National attitudes concerning gun carrying in the United States. *Inj Prev* 2001; 7:282-285.
12. **Miller M**, Hemenway D. Firearm prevalence and the risk of suicide: a review. *Harvard Health Policy Review* 2001; 2 (2):29-37.
13. **Miller M**. Phase I cancer trials: a crucible of competing priorities. *International Anesthesiology Clinics* 2001; 39(3):13-33.

14. **Miller M**, Azrael D, Hemenway D. Firearm availability and unintentional firearm deaths, suicide and homicide among 5-14 year olds. *J of Trauma* 2002; 52:267-275.
15. **Miller M**, Azrael D, Hemenway D. Firearm availability and suicide, homicide and unintentional firearm deaths among women. *J of Urban Heath* 2002; 79(1):26-38.
16. **Miller M**, Azrael D, Hemenway D, Solop F. "Road rage" in Arizona: armed and dangerous. *Accid Anal Prev* 2002; 34(6):93-100.
17. Hemenway D, Shinoda-Tagawa T, **Miller M**. Firearm availability and female homicide victimization rates among 25 populous high-income countries. *J Am Med Womens Assoc.* 2002; 57(2):100-104.
18. **Miller M**, Hemenway D, Wechsler H. Guns and gun threats at college. *J Am Coll Health* 2002; 51(2):57-65.
19. **Miller M**, Azrael D, Hemenway D. Household firearm ownership and suicide rates in the United States. *Epidemiology* 2002; 13(5):517-24.
20. Hemenway D and **Miller M**. Association of rates of household handgun ownership, lifetime major depression, and serious suicidal thoughts with rates of suicide across US census regions. *Inj Prev* 2002; 8:313-316.
21. **Miller M**, Azrael D, Hemenway D. Rates of household firearm ownership and homicide across US regions and states, 1988-1997. *Am J Public Health* 2002; 92(12):1988-93.
22. Hepburn L, **Miller M**, Azrael D, Hemenway D. The effect of nondiscretionary concealed weapon carrying laws on homicide. *J of Trauma* 2004; 56(3):676-81.
23. Azrael D, Cook P, **Miller M**. State and local prevalence of firearm ownership measurement, structure and trends. *J Quantitative Criminology* 2004; 20(1):43-62.
24. Azrael D, **Miller M**, Hemenway D. Youth suicide: Insights from 5 years of Arizona Child Fatality Review team data. *Suicide and Life Threatening Behavior* 2004; 56:676-681.
25. **Miller M**, Azrael D, Hemenway D. Firearms and suicide in the northeast. *J of Trauma* 2004; 57:626-632.
26. Hemenway D and **Miller M**. Gun threats against and self-defense gun use by California adolescents. *Archives of Pediatrics and Adolescent Medicine* 2004; 158:395-400.
27. **Miller M**, Azrael D, Hemenway D. The epidemiology of case fatality rates for suicide in the northeast. *Ann Emerg Med* 2004; 43(6):723-30.
28. Molnar BE, **Miller M**, Azrael D, Buka SL. Neighborhood predictors of concealed firearm carrying among children and adolescents: results from the Project on Human Development in Chicago Neighborhoods. *Archives of Pediatrics & Adolescent Medicine* 2004; 158(7):657-64.
29. **Miller M** and Hemenway D. Unsupervised firearm handling by California adolescents. *Inj Prev* 2004; 10(3):163-8.
30. Rothman EF, Hemenway D, **Miller M**, Azrael D. Batterers' use of guns to threaten intimate partners. *J Am Med Womens Assoc* 2005; 60:62-68.

31. **Miller M**, Azrael D, Vriniotis M, Hemenway D. Firearm storage practices and rates of unintentional firearm deaths in the United States. *Accid Anal Prev* 2005; 37:661-667.
32. Jens Ludwig and **Matthew Miller**. Interpreting the WIC debate. *J Policy Analysis and Management* 2005; 24(4):691-701.
33. **Miller M**, Azrael D, Hemenway D. Belief in the inevitability of suicide: results from a national survey. *Suicide and Life Threatening Behavior* 2006; 36(1):1-11.
34. Baxley F and **Miller M**. Parental misperceptions about their children and firearms. *Archives of Pediatrics and Adolescent Medicine* 2006; 160(5):542-7.
35. Hemenway D, Vriniotis M, **Miller M**. Is an armed society a polite society? Guns and road rage. *Accid Anal Prev* 2006. *Accid Anal Prev* 2006; 38(4):687-95.
36. **Miller M**, Azrael D, Hepburn L, Hemenway D, Lippmann SJ. The association between changes in household firearm ownership and rates of suicide in the United States, 1981-2002. *Inj Prev* 2006; 12(30):178-82.
37. Johnson R, **Miller M**, Vriniotis M, Azrael D, Hemenway D. Are household firearms stored less safely in homes with adolescents? Analysis of a national random sample of parents. *J Adolescent Health* 2006; 160(8):788-92.
38. Hepburn L, Azrael D, **Miller M**, Hemenway D. The effect of child access prevention laws on unintentional child firearm fatalities, 1979-2000. *J of Trauma* 2006; 61(2):423-8.
39. **Miller M**, Lippmann S, Azrael D, Hemenway D. Household firearm ownership and rates of suicide across the 50 United States. *J of Trauma* 2007; 62(4):1029-34.
40. Mukamal K, Kawachi I, **Miller M**, Rimm E. Drinking frequency and quantity and risk of suicide among men. *Social Psychiatry and Psychiatric Epidemiology* 2007; 42(2):153-60.
41. Weiner J, Wiebe D, Richmond T, Beam K, Berman A, Branas C, Cheney R, Coyne-Beasley T, Firman T, Fishbein M, Hargarten S, Hemenway D, Jeffcoat R, Kennedy D, Koper C, Lemaire J, **Miller M**, Roth, Schwab CW, Spitzer R, Teret S, Vernick J, and Webster D. Reducing firearm violence: a research agenda. *Inj Prev* 2007; 13(2):80-4.
42. Hepburn L, **Miller M**, Azrael D, Hemenway D. The United States gun stock: results from the 2004 National Firearms Survey. *Inj Prev* 2007; 13(1):15-9.
43. Mukamal K, Kawachi I, **Miller M**, Rimm E. Body mass index and risk of suicide among men. *Archives of Internal Medicine* 2007; 167:468-75.
44. **Miller M**, Hemenway D, Azrael D. State-level homicide victimization rates in the US in relation to survey measures of household firearm ownership, 2001-03. *Social Science & Medicine* 2007; 64:656-664.
45. Segui-Gomez M, **Miller M**. Injury prevention and control: reflections on the state and the direction of the field. *Salud Pub Mexico* 2008; 50(1):S101-111.
46. **Miller M** and Hemenway D. Guns and suicide in the United States. *N Engl J Med* 2008; 359:672-3.

47. **Miller M**, Mogun H, Azrael D, Hempstead K, Solomon D. Cancer and the risk of suicide in older Americans. *J Clinical Oncology* 2008; 28(29):4720-4724.
48. Wray M, **Miller M**, Gurvey J, Kawachi I. Leaving Las Vegas: exposure to Las Vegas and risk of suicide. *Social Science and Medicine* 2008; 67(11):1882-8.
49. Mukamal K, **Miller M**. BMI and risk factors for suicide: why is BMI inversely related to suicide?" *Obesity* doi:10.1038/oby.2008.538.
50. Kessler R, Borges G, Sampson N, **Miller M**, Nock M. The association between smoking and subsequent suicide-related outcomes in the National Comorbidity Survey panel sample. *Molecular Psychiatry* 2009; 14:1132-1142.
51. Rathmell J and **Miller M**. Death after initiation of intrathecal drug therapy for chronic pain: assessing risk and designing prevention. *Anesthesiology* 2009; 111(4):706-708.
52. Borges G, Breslau J, Su M, **Miller M**, Medina-Mora ME, Aguilar-Gaxiola S. Immigration and suicidal behavior among Mexicans and Mexican Americans. *Am J Public Health* 2009; 99:728-733.
53. **Miller M**, Barber C, Azrael D, Hemenway D, Molnar B. Recent psychopathology, suicidal thoughts and suicide attempts in households with and without firearms: findings from the National Comorbidity Study Replication. *Inj Prev* 2009; 15(3):183-187.
54. **Miller M**, Borges G. Firearms and suicide in Mexico: intimations of mortality. *Jovenes* 2009.
55. **Miller M**, Barber C, Azrael D, Calle E, Lawler E; Mukamal K. Suicide among US veterans: a prospective study of 500,000 middle-aged and elderly men. *Am J Epidemiol* 2009; 170:494-500.
56. Mukamal K, Wee C, **Miller M**. BMI and rates of suicide in the United States: an ecological analysis. *Obesity* 2009; doi:10.1038/oby.2009.122.
57. Schneeweiss S, Patrick AR, DH, Metha J, Dormuth C, **Miller M**, Lee J, Wang PS. Variation in the risk of suicide attempts and completed suicides by antidepressant agent in adults: a propensity score-adjusted analysis of 9 years' data. *Archives of General Psychiatry* 2010; 67(5):497-506.
58. Mukamal K, Rimm E, Kawachi I, O'Reiley E, Calle J, **Miller M**. Body-mass index and risk of suicide among one million US adults. *Epidemiology* 2010; 21:82-86.
59. Borges G, Benjet C, Medina-Mora ME, **Miller M**. Body mass index and its relationship to mental disorders in the Mexican Adolescent Mental Health Survey. *Salud Pública de México* 2010; 52(2).
60. Schneeweiss S, Patrick AR, Solomon DH, Metha J, Dormuth C, **Miller M**, Lee J, Wang PS. The comparative safety of antidepressant agents for children regarding suicidal acts. *Pediatrics* 2010; 125:876-888.
61. Gradus J, Qin P, Lincoln A, **Miller M**, Lawler L, Sorensen HT, Lash TL Posttraumatic Stress Disorder and completed suicide. *Am J Epidemiol* 2010; 171(6):721-7. Epub 2010 Feb 16.
62. Gradus J, Qin P, Lincoln A, **Miller M**, Lawler L, Lash TL. The association between adjustment disorder diagnosed at psychiatric treatment facilities and completed suicide. *Clin Epidemiol.* 2010; 2:23-8.

63. Hemenway D, Barber C, **Miller M**. Unintentional firearm deaths: A comparison of other-inflicted and self-inflicted shootings. *Accid Anal Prev*. 2010; 42(4):1184-8. Epub 2010 Feb 7.
64. Betz E, Barber C, **Miller M**. Firearm restriction as suicide prevention: variation in belief and practice among providers in an urban emergency department. *Inj Prev* 2010; 16(4):278-281.
65. Gradus J, Qin P, Lincoln A, **Miller M**, Lawler L, Sorensen HT, Lash TL. Inflammatory bowel disease and completed suicide in Danish Adults. *Inflamm Bowel Dis* 2010; 16(12):2158-61. doi: 10.1002/ibd.21298.
66. Gradus J, Qin P, Lincoln A, **Miller M**, Lawler L, Sorensen HT, Lash TL. Acute stress reaction and completed suicide. *Int J Epidemiol* 2010; doi: 10.1093/ije/dyq112.
67. Mukamal K and **Miller M**. Invited commentary: body mass index and suicide - untangling an unlikely association *Am J Epidemiol* 2010; doi: 10.1093/aje/kwq278.
68. Gunnell D and **Miller M**. Strategies to prevent suicide. *British Medical Journal* 2010; 341:c3054.
69. **Miller M**, Bhalla K. An urgent need to restrict access to pesticides based on human lethality. *PLoS Med* 2010; 7(10): e1000358. doi:10.1371/journal.pmed.1000358
70. Hemenway D, Johnson R, Vrinotis M, **Miller M**, Azrael D. Gun carrying by Boston high school students: does overestimation of peer gun carrying matter? *Journal of Adolescence* 2010; doi:10.1016/j.adolescence.2010.11.008.
71. Patrick A, **Miller M**, Barber C, Wang P, Canning C, Schneeweiss S. Identification of hospitalizations for intentional self-harm when E-codes are incompletely recorded. *Pharmacoepidemiology and Drug Safety* 2010; 19(12):1263-75.
72. **Miller M**, Borges G, Mukamal K, Rimm E, Benjet, C, Medina-Mora ME, Orozco R. Exposure to alcohol, drugs and tobacco and the risk of subsequent suicidality: findings from the Mexican Adolescent Mental Health Survey. *Drug and Alcohol Dependence* 2011; 113(2-3):110-117.
73. Connorton E, **Miller M**, Perry M, Hemenway D. Mental health and unintentional injurers: results from the National Co-morbidity Survey Replication. *Inj Prev* 2011; 17:171-175 doi:10.1136/ip.2010.028464.
74. **Miller M**, Sturmer T, Azrael D, Levin R, Solomon D. Opioid analgesics and the risk of fractures among older adults with arthritis. *Journal of the American Geriatrics Society* 2011; 59:430-438. doi: 10.1111/j.1532-5415.2011.03318.x.
75. Borges G, Azrael D, Johnson R, Molnar B, Almeida J, Hemenway D, **Miller M**. Immigration, suicidal ideation and deliberate self-injury in the Boston Youth Survey 2006. *Suicide and Life Threatening Behavior* 2011; 41(2):193-202.
76. Betz E, Barber C, **Miller M**. Suicidal behavior and firearm access: results from the second injury control and risk survey. *Suicide and Life Threatening Behavior* 2011; 41(4):384-391.
77. Connorton E, Hemenway D, Perry M, **Miller M**. Humanitarian relief workers and trauma-related mental illness. *Epidemiologic Reviews* 2011; doi: 10.1093/epirev/mxr026.
78. Murtagh L and **Miller M**. Censorship in the patient-physician relationship: a new Florida law. *JAMA* 2011; doi: 10.1001/jama.2011.1235.

79. White R, Barber C, Azrael D, Mukamal K, **Miller M**. History of military service and the risk of suicidal ideation: findings from the 2008 National Survey on Drug Use and Health. *Suicide and Life-Threatening Behavior* 2011; 41(5):554-561.
80. Connorton E, Hemenway D, Perry M, **Miller M**. Occupational trauma and mental illness: results from the National Co-morbidity Survey Replication. *J Occup Environ Med* 2011; 53(12):1360-1363.
81. **Miller M**, Azrael D, Barber C, Mukamal K, Lawler E. A call to link data to answer pressing questions about suicide risk among veterans. *Am J Public Health* 2012; 102(S1):S20, S22.
82. **Miller M**. Preventing suicide by preventing lethal injury: the need to act on what we already know. *Am J Public Health* 2012; 102(S1):e1-3.
83. **Miller M**, Barber C, Young M, Mukamal K, Lawler L. Veterans and suicide: a reexamination of the National Death Index-Linked National Health Interview Survey. *Am J Public Health* 2012; 102(S1):S20-S159.
84. **Miller M**, Azrael D, Barber C. Suicide mortality in the United States: the importance of attending to method in understanding population-level disparities in the burden of suicide. *Annu Rev Public Health*. 2012 Apr;33:393-408. doi: 10.1146/annurev-publhealth-031811-124636. Epub 2012 Jan 3
85. Gradus J, Qin P, Lincoln A, **Miller M**, Lawler L, Sorensen HT, Lash TL. Sexual victimization and completed suicide among female adults in Denmark. *Violence Against Women*. 2012 May;18(5):552-61. doi: 10.1177/1077801212453141. Epub 2012 Jul 11.
86. Johnson R, Lintz J, Gross D, **Miller M**, Hemenway D. Evaluation of the ASK campaign in two Midwestern cities. *ISRN Public Health* 2012; <http://dx.doi.org/10.5402/2012/408124>
87. Hepburn L, Azrael D, Molnar B, **Miller M**. Bullying and suicidal behaviors among urban high school youth. *J Adolesc Health*. 2012 Jul;51(1):93-5. doi: 10.1016/j.jadohealth.2011.12.014. Epub 2012 Mar 3.
88. Soeteman D, **Miller M**, Kim J. Modeling the risks and benefits of depression treatment for children and young adults. *Value in Health* 2012;15:724-729.
89. Wray M, **Miller M**, Kawachi I, Gurvey J. Orlando: A Nice Place to Visit...": A Reply to Zarkowski and Nguyen. *Social Science and Medicine* 2012; 74(10): 1474–1476
90. Gradus JL, Shipherd JC, Suvak MK, Giasson HL, **Miller M**. Suicide and Suicide Attempts among Marines: A Decade of Follow-up. *Suicide Life Threat Behav* 2013 Feb;43(1):39-49. doi: 10.1111/j.1943-278X.2012.00126.x. Epub 2012 Oct 20.
91. Spittal MJ, Pirkis J, **Miller M**, Studdert DM. Declines in the lethality of suicide attempts explain the decline in suicide deaths in Australia. *PLoS One*. 2012;7(9):e44565. doi: 10.1371/journal.pone.0044565. Epub 2012 Sep 5.
92. Lozano R, Naghavi M, Foreman K, ...**Miller M**, et al. Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the Global Burden of Disease Study 2010. *Lancet* 2012;380: 2095–128.
93. Murray CJL, Vos T, Lozano R, ... **Miller M**, et al. Disability-adjusted life years (DALYs) for 291 diseases and injuries in 21 regions, 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010. *Lancet* 2012; 380: 2197–223.

94. Vos T, Flaxman AD, Naghavi M, ...**Miller M**, et al. Years lived with disability (YLD) for 1160 sequelae of 289 diseases and injuries 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010. *Lancet* 2012; 380: 2163–96.
95. **Miller M**, Barber C, Azrael D, White R. Firearms and suicide in the United States: is risk independent of underlying suicidal behavior? *Am J Epidemiol* 2013 Sep 15;178(6):946-55. doi: 10.1093/aje/kwt197. Epub 2013 Aug 23.
96. Brent D, **Miller M**, Loeber R, Mulvey E, Birmaher B. Ending the Silence on Gun Violence. *Journal of the American Academy of Child and Adolescent Psychiatry* 2013; 52(4): 333-338
97. Betz M, **Miller M**, Barber C, et al. Lethal means restriction for suicide prevention: Beliefs and behaviors of emergency department providers. *Depression and Anxiety* 2013 Mar 14. doi: 10.1002/da.22075.
98. **Miller M**, Hempstead K, Nygun T, Azrael D, Barber C. Method choice in non-fatal self-harm as a predictor of subsequent episodes of self-harm and suicide: implications for clinical practice. *Am J Public Health* 2013 Jun;103(6):e61-8. doi: 10.2105/AJPH.2013.301326. Epub 2013 Apr 18.
99. Hemenway D and **Miller M**. The public health approach to violence prevention. *N Engl J Med*. 2013 May 23;368(21):2033-5. doi: 10.1056/NEJMs1302631. Epub 2013 Apr 12.
100. Lucas M, O'Reilly EJ, Mirzaei F, Okereke OI, Unger L, **Miller M**, Ascherio A. Cigarette smoking and completed suicide: results from 3 prospective cohorts of American adults. *Journal of Affective Disorders*. 2013, 151(3):1053-1058.
101. **Miller M**, Warren M, Azrael D, Hemenway D, Barber C. Firearms and suicide in US cities. *Inj Prev* 2015;21: e116–e119. doi: 10.1136/injuryprev-2013-040969. Epub 2013 Dec 3.
102. Garnett BR, Masyn KE, Austin SB, **Miller M**, Williams DR, Viswanath K. The Intersectionality of Discrimination Attributes and Bullying among Youth: An Applied Latent Class Analysis. *Journal of Youth and Adolescence* 2014; 43(8):1225-3.
103. **Miller M**, Pate V, Swanson S, Azrael D, White A, Sturmer T. Antidepressant class, age, and the risk of deliberate self-harm. *CNS Drugs*. 2014;28(1),79-88. doi:10.1007/s40263-013-0120-8
104. Spittal MJ, Pirkis J, **Miller M**, Carter G, Studdert DM. The Repeated Episodes of Self-Harm (RESH) score: A tool for predicting risk of future episodes of self-harm by hospital patients. *Journal of Affective Disorders*. 2014; 161; 36–42
105. Barber C and **Miller M**. Reducing a Suicidal Person's Access to Lethal Means of Suicide A Research Agenda. *Am J Preventive Medicine*. 2014;47(3S2):S264–S272.
106. Opoliner AA, Azrael D, Barber C, Fitzmaurice G, **Miller M**. Explaining geographic patterns of suicide in the US: The role of firearms and antidepressants. *Injury Epidemiology*. 2014. 1:6
107. **Miller M**, Swanson S, Azrael D, Pate V, White A, Sturmer T. Antidepressant dose, age, and the risk of suicide attempts. *JAMA Internal Medicine*. 2014. doi:10.1001/jamainternmed.2014.1053
108. Gradus J, Leatherman S, Raju S, Ferguson R, **Miller M**. Posttraumatic Stress Disorder, Depression, and Intentional Self-Harm in Massachusetts Veterans. *Injury Epidemiology*. 2014; 1:20
<http://www.injepjournal.com/content/1/1/20>

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RESEARCH SUPPORT (As PI or Co-PI, last 5 years)

Ongoing Research Support

18-38517 (Miller PI) 9/01/2020 -- 08/31/2022 Total Cost \$540,000

Agency: Joyce Foundation

Title: Firearm Violence Prevention

The goals of this project are to continue collaborative efforts by Northeastern University and the Harvard Injury Control Research using the 2019 NFS and the National Violent Death Reporting System (NVDRS). Projects will use the 2019 NFS to examine the contemporary firearm stock, gun transfers, including where transfers occur and whether background checks are conducted, reporting gaps between non-gun owners in gun households and gun-owners in gun owning households with regard to the way firearms are stored, estimating the number of lives saved if adult patients visiting the ED remove guns from their homes under different screening approaches, the theoretical effect of smart gun technology on adolescent suicide, gun carrying in states with more vs. less restrictive gun carrying laws, firearm training, whether parents store household guns more safely when their child is highly impulsive or have validated psychiatric or behavioral problems, knowledge about and behavior regarding gun laws. Projects involving NVDRS will examine legal intervention homicides to understand the types of police killings that occur differentially across the rural/urban divide (e.g., IPV-related homicides), the distribution of homicide rates by race, urbanicity, demographics and circumstances (e.g., domestic violence), homicide perpetration by women compared with those by men, and evaluations of open

source data accuracy in reporting out specific types of homicides, including murder-suicides; occupational homicides and others. Our Means Matter work will expand the Lethal Means Safety Academy (our one-day training on why and how to partner with gun owners on clinical and community-based strategies to reduce the use of firearms in suicide attempts) to at least six more states, we will evaluate its impact, and we will publish a follow-up evaluation of the original (NH) Gun Shop Project.

25%

XXXXX (Miller PI) 9/01/2020 -- 8/31/2022 Total Cost \$740,000

Agency: National Collaborative on Gun Violence Policy

Title: Evaluating and Improving the Accuracy of ICD-Coded Hospital Data Systems in Estimating the Incidence of Nonfatal Firearm Injuries by Intent Type.

The goals of this project are to improve hospital EMR coding for firearm injuries - particularly to improve coding on the intent of the injury. We take two complementary approaches to the problem: 1) to do medical record abstraction to code and compare against the codes issued, to come up with potential ways to improve the coding and give recommendations to the NCHS/CMS committee that oversees coding; and 2) use natural language processing to develop an algorithm to automate coding using written passages in medical records.

12.5%

XXXXX (Miller PI) 9/01/2019 -- 8/31/2021 Total Cost \$482,071

Agency: National Collaborative on Gun Violence Policy

Title: Determinants of How Firearms Are Stored in Households with Children: Implications for Interventions to Reduce Firearm Mortality.

The goals of this project are to examine the role of Child Access Prevention laws in motivating safe storage of household firearms (Aim 1) and the role of clinical counseling in affecting safe storage in homes with children (Aim2). In addition, because we will have survey responses from 4,000 US adults who live in households with firearms (two-thirds of whom personally own firearms) and a sub-sample of 400 adolescents 13-17 years of age who live with one of the adult survey respondents, we will be able to address clinically relevant questions prior studies have not, including the extent to which parental beliefs about their own adolescents' knowledge and behavior around guns is inaccurate (e.g., adolescents report having easy access to household firearms when their parents think otherwise), how such discordance varies by adolescent and parental characteristics, and whether discordant beliefs are related to parental firearm storage practices.

20%

XXXXX (Miller Sub-PI) 9/01/2019 -- 8/31/2021 Total Cost of Sub: \$128,021

Agency: National Collaborative on Gun Violence Policy

Title: The Harvard/Utah Suicide Database: Linking NVDRS Data with Suicide Decedents' Criminal Background and Concealed Carry Permit Status, Hospital Visit History, and ATF Trace Results.

Using an enhanced database we created by linking ATP, background check and Utah hospital and Utah mortality data we will address a series of research gaps relevant to improving suicide prevention working including: the interval between firearm purchase and suicide; the proportion of suicide decedents who could pass a background check on the day they died; the proportion of suicides preceded by hospital ED or inpatient visits prior to death (prior month, prior year); who owned the gun used in suicides; what the circumstances, rates, and methods of suicide are among Concealed Firearm Permit (CFP) holders; what proportion of suicides occur in the midst of an argument different with respect to suicide method and storage from other suicides.

10%

(No award #) Miller (PI) 12/1/19 – 11/30/20 Total Cost: \$300,000

Agency: Fund for a Safer Future

Title: National Firearms Survey

The goals of this grant are to conduct survey research on private gun ownership, to improve information on: quantity and types of firearms owned, practices for acquisition, disposal (including theft), and transfer; gun

carrying, smart gun technology, background checks. The sample is nationally-representative of US adults who live in homes with firearms and a random sample of their adolescent children. The survey will enable us to evaluate in greater detail than has prior research whether the intended, most proximate effects of firearm legislation (e.g., improved household firearm storage as intended by Child Access Prevention laws) in fact obtain -- and therefore whether the underlying assumptions of past evaluations assessing the effect of these laws are plausible. The proposed survey will also generate new knowledge about gun owners' attitudes, beliefs, and experiences germane to improving clinical approaches to preventing suicide that focus on means restriction. In particular, the survey will provide answers to questions related to whether gun owners and their families have been exposed to Lethal Means Counselling (LMC) and to suicide prevention messages in non-counselling contexts that focus on reducing access to firearms, and if so, in what contexts, and to what effect. Other suicide prevention relevant questions we will address include what factors make firearm owners a) more (and less) receptive to LMC, b) influence gun owners' belief about whether household firearms increase the risk of suicide, and c) affect whether parents of adolescents who live in homes with guns harbor faulty assumptions about whether their own children can access household firearms.

5%

TBT-0-013-15 Miller (PI) 10/01/2016 -- 12/31/2019 Total Cost: \$1,500,000

Title: An ED-based Randomized Clinical Trial of Lethal Means Counseling for Parents of At-Risk Youth;

Agency: AFSP

The goals of this grant are to conduct the first randomized, controlled trial (RCT) of the effectiveness of Emergency Department (ED)-based Lethal Means Counselling (LMC) on firearm and medication storage. The RCT is based at five Colorado hospitals. We will test whether parents of adolescents in an acute mental health crisis who are treated in hospital EDs that have (vs. have not yet) implemented our LMC protocol are more likely to store household firearms and medications safely. In addition, we will conduct in-depth, qualitative face-to-face interviews with parents who have received LMC counseling to better understand those factors that affect parents' willingness and ability to make changes to firearm and medication storage. We will also conduct qualitative face-to-face interviews with clinicians to understand factors affecting clinician engagement in LMC.

20%

18-38517 (Miller PI) 9/01/2018 -- 08/31/2020 Total Cost \$540,000

Agency: Joyce Foundation

Title: Firearm Violence Prevention

The goals of this project are to continue collaborative efforts by Northeastern University and the Harvard Injury Control Research Center in three main areas: (a) Research: original research to expand the scientific knowledge about firearms; (b) Dissemination: dissemination of the scientific findings of ours and others research; and (c) Interventions: develop and evaluate interventions that put that knowledge to work. Our focus for interventions is the Means Matter campaign. We also propose to continue to promote the National Violent Death Reporting System (NVDRS).

20%

2016-R2-CX-0038 (Miller, Sub-Award PI) 01/01/2017 – 6/30/2019 Sub-award \$167,000

Agency: National Institute of Justice

Title: Using Public Health Datasets to Analyze Legal Intervention Shootings

The project uses the rich data on police shootings of civilians available from the NVDRS to a) code police homicide incidents using a carefully developed and tested coding scheme and procedure, b) use latent class analysis to create a typology of police homicides of civilians based on incident characteristics and c) explore how sub-types of LE homicides (e.g., those initiated by domestic disturbance calls) vary across race, gender and geography (including characteristics such as local firearm ownership rates).

25%

18-38266 (Miller, Sub-Award PI) 05/31/2018 - 05/30/2019 1 year NCE 5/31/20 Sub-award: \$80,000

Agency: Joyce Foundation

Title: Estimating the benefit of conducting firearm safety interventions in US emergency departments: A simulation study

The overarching goal of this proposal is to reduce firearm-related injury and mortality by guiding firearm safety intervention programs conducted in the ED through a series of statistical simulations informed by the latest firearm prevention research literature. Specifically, our goals are to: 1) generate actionable, reliable guidance about the effectiveness of firearm safety intervention programs implemented in the ED across a matrix of real-world circumstances (e.g., ranges of ED patient volume, community firearm ownership prevalence, and fidelity to and effectiveness of hypothetical prevention programs); and 2) disseminate these findings to policy makers, emergency medicine physicians, researchers and other firearm injury prevention stakeholders.

10%