

**HEALTH SYSTEMS
INTERVENTIONS TO
PREVENT FIREARM
INJURIES AND DEATH**
A Workshop



WORKSHOP PROGRAM FOR ATTENDEES



October 17–18, 2018
National Academy of Sciences Building
The Fred Kavli Auditorium
2101 Constitution Avenue NW
Washington, DC 20418

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

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Sponsors

Kaiser Permanente

The American Hospital Association

Planning Committee

GEORGE J. ISHAM,* Senior Fellow, HealthPartners Institute

DAVID BRENT,* Academic Chief, Child & Adolescent Psychiatry, Endowed Chair in Suicide Studies, Western Psychiatric Institute & Clinic; Professor of Psychiatry, Pediatrics, Epidemiology & Clinical Translational Science, University of Pittsburgh School of Medicine

CARNELL COOPER, Program Director, Violence Intervention Program; Associate Professor of Surgery, University of Maryland School of Medicine

JOEL A. FEIN, Professor of Pediatrics and Emergency Medicine, University of Pennsylvania Perelman School of Medicine; Co-Director, CHOP Violence Prevention Initiative; and Research Co-Director, National Network of Hospital-Based Violence Intervention Programs

STEPHEN HARGARTEN,* Director, Comprehensive Injury Center; Professor of Emergency Medicine, Medical College of Wisconsin

LUCAS P. NEFF, Assistant Professor of Pediatric Surgery, Wake Forest University Baptist Medical Center

JOHN A. RICH,* Professor of Health Management and Policy, and Director, Center for Nonviolence and Social Justice, Drexel University School of Public Health

THERESE S. RICHMOND,* Andrea B. Laporte Professor, Associate Dean for Research & Innovation, University of Pennsylvania School of Nursing; Penn Injury Science Center

THEA L. JAMES, Associate Professor of Emergency Medicine, Associate Chief Medical Officer, Vice President of Mission for Boston Medical Center, and Director of the Violence Intervention Advocacy Program, Boston Medical Center

ALI ROWHANI-RAHBAR, Bartley Dobb Professor for the Study and Prevention of Violence, Associate Professor of Epidemiology, and Pediatrics, Violence Prevention Section Leader at Harborview Injury Prevention and Research Center, University of Washington

*member of the National Academy of Medicine

Statement of Task

An ad hoc committee will plan a 2-day public workshop that addresses the research needed to enable healthcare systems to be more effective in preventing firearm injury and death. The workshop will focus on the evidence and best practices by health systems and health care professionals in preventing gun injuries.

The workshop would include speakers and discussion panels that

- define the current state of evidence on healthcare-based interventions.
- present current evidenced-informed practices from selected health systems.
- define foundations for best approaches to disseminate and implement evidence-based practices.
- identify community linkages that may help empower health systems to be more effective with interventions.
- frame the scope and programming of potential future research that can be carried out by Kaiser Permanente and others to fill identified research gaps

Panel discussions should consider the many facets of the health system that may be touch points for gun injury prevention strategies such as primary care, specialty care, behavioral health, and emergency departments. Further, prevention strategies to be discussed should include a focus on high-risk individuals who, through a combination of environmental and behavioral risk factors, are at highest risk of a firearm injury or death.

Panel discussions should not focus on regulatory or other public policy approaches or interventions related to firearm sales, manufacture or ownership of firearms. The workshop will focus on primary prevention and not the acute care or rehabilitation services for firearm injury victims.

The committee will plan and organize the workshop, select and invite speakers and discussants, and moderate the discussions. A proceedings of the presentations and discussions at the workshop will be prepared by a designated rapporteur in accordance with institutional guidelines.

AGENDA

Wednesday, October 17

8:00–9:00 AM	Check-in outside Fred Kavli Auditorium Continental breakfast in the Great Hall
9:00–9:15 AM	Opening remarks – Fred Kavli Auditorium <i>Victor J. Dzau, M.D., President, National Academy of Medicine</i>
9:15–9:30 AM	Workshop objectives <i>Bechara Choucair, M.D., Senior Vice President & Chief Community Officer, Kaiser Permanente – National Community Health</i> <i>Elizabeth A. McGlynn, Ph.D., Vice President, Kaiser Permanente Research; Executive Director, Center for Effectiveness and Safety Research</i>
9:30–9:45 AM	Introduction to Day 1 <i>George J. Isham, M.D., M.S., Senior Fellow, HealthPartners Institute</i>
9:45–10:15 AM	Presentation: Why do health systems have a role? <i>Stephen Hargarten, M.D., M.P.H., Director, Comprehensive Injury Center; Professor, Emergency Medicine, Medical College of Wisconsin</i>
10:15–11:15 AM	Session 1: What is the toll on individuals and communities?
10:15–10:20 AM	Introductions Moderator: George J. Isham
10:20–10:40 AM	Presentation: Case study: A victim and opportunities the health system had to intervene <i>Lucas P. Neff, M.D., Assistant Professor of Pediatric Surgery, Wake Forest University Baptist Medical Center</i>
10:40–11:00 AM	Presentation: The psychological & social burden of firearm violence on communities <i>Therese S. Richmond, Ph.D., CRNP, FAAN, Andrea B. Laporte Professor, Associate Dean for Research & Innovation, University of Pennsylvania School of Nursing; Penn Injury Science Center</i>
11:00–11:45 AM	Moderated Q&A
11:45–12:45 PM	Break: Complimentary lunch in the Great Hall
12:45–2:15 PM	Session 2: Identifying individuals at higher risk for firearm violence
12:45–1:45 PM	Introductions Moderator: Therese S. Richmond <i>Megan H. Bair Merritt, M.D., MSCE, Executive Director, Center for the Urban Child and Healthy Family; Associate Professor of Pediatrics, Associate Division Chief, General Pediatrics, Boston Medical Center</i>

Christopher Barsotti, M.D., CEO, AFFIRM Research; Chair, Trauma and Injury Prevention Section, American College of Emergency Physicians

David C. Grossman, M.D., M.P.H., Senior Associate Medical Director, Market Strategy and Public Policy; Senior Investigator, KPWA Health Research Institute, Kaiser Permanente

1:45–2:15 PM

Moderated Q&A

2:15–3:30 PM

Session 3: Health systems interventions moving forward

2:15–2:20 PM

Introductions

Moderator: George J. Isham

2:20–2:40 PM

Presentation: Developing a firearm storage decision aid to enhance lethal means counseling

Marian Betz, M.D., M.P.H., Associate Professor, Emergency Medicine, University of Colorado School of Medicine

2:40–3:00 PM

Presentation: Creating consensus: The development of a firearm injury research agenda

Megan Ranney, M.D., M.P.H., FACEP, Associate Professor, Emergency Medicine, Brown University, AFFIRM Research

3:00–3:30 PM

Moderated Q&A

3:30–4:45 PM

Session 4: Key issues from the day

3:30–4:15 PM

Moderator: Thea James, M.D., Associate Professor of Emergency Medicine, Associate Chief Medical Officer, Vice President of Mission for Boston Medical Center, and Director of the Violence Intervention Advocacy Program, Boston Medical Center

Patrick M. Carter, M.D., Assistant Director, Injury Prevention Center; Assistant Professor, Department of Emergency Medicine, University of Michigan School of Medicine

Joseph Simonetti, M.D., M.P.H., Clinician Investigator, and Assistant Professor, Rocky Mountain Mental Illness, Research, Education, and Clinical Center for Suicide Prevention, Veterans Health Administration

Daniel Webster, Sc.D., M.P.H., Bloomberg Professor of American Health in Violence Prevention, Director, Johns Hopkins Center for Gun Policy and Research, and Director, Johns Hopkins-Baltimore Collaborative for Violence Reduction, Department of Health Policy and Management, Johns Hopkins Bloomberg School of Public Health

4:15–4:45 PM

Moderated Q&A

4:45 PM

Adjourn

AGENDA

Thursday, October 18

- 8:00–9:00 AM Check-in outside Fred Kavli Auditorium
Complimentary breakfast in the Great Hall
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- 9:00–9:10 AM **Welcome and introduction to Day 2**
George J. Isham, M.D., M.S., Senior Fellow, HealthPartners Institute
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- 9:10–11:45 AM **Session 5: Programs and research**
- 9:10–9:15 AM Introductions
Moderator: Joel Fein, M.D., M.P.H., Professor of Pediatrics and Emergency Medicine, University of Pennsylvania Perelman School of Medicine; Co-Director, CHOP Violence Prevention Initiative; and Research Co-Director, NNHVIP
- 9:15–9:35 AM **Presentation:** Project Ujima
Michael Levas, M.D., Assistant Professor, Medical College of Wisconsin
- 9:35–9:55 AM **Presentation:** Helping individuals with firearm injuries clinical trial
Ali Rowhani-Rahbar, M.D., M.P.H., Ph.D., Bartley Dobb Professor for the Study and Prevention of Violence, Associate Professor of Epidemiology, and Pediatrics, Violence Prevention Section Leader at Harborview Injury Prevention and Research Center, University of Washington
- 9:55–10:15 AM **Presentation:** SafERteens: An evidence-based youth violence prevention program & Firearm-Safety Among Children & Teens consortium
Rebecca Cunningham, M.D., Associate Vice President, Research, University of Michigan; Principal Investigator, Firearm-Safety Among Children & Teens Consortium (FACTS); Director, CDC UM Injury Prevention Center; Professor of Emergency Medicine, University of Michigan School of Medicine; and Professor of Health Behavior and Health Education, University of Michigan School of Public Health
- 10:15–10:35 AM **Presentation:** Participatory approaches to implementing firearm safety promotion in pediatric primary care
Rinad Beidas, Ph.D., Assistant Professor, Department of Psychiatry and Department of Medical Ethics & Health Policy; and Director, Implementation Research, University of Pennsylvania Perelman School of Medicine

10:35–10:55 AM	<p>Presentation: State of the science for hospital-based violence intervention: Research and policy implications</p> <p><i>Kyle Fischer, M.D., M.P.H., Adjunct Assistant Professor, and Health Policy and Leadership Fellowship Director, Department of Emergency Medicine, University of Maryland School of Medicine</i></p>
10:55–11:45 AM	Moderated Q&A
11:45–12:45 PM	Break: Complimentary lunch in the Great Hall
12:45–2:15 PM	Session 6: Developing networks and sharing information
12:45–12:50 PM	<p>Introductions</p> <p>Moderator: George J. Isham</p>
12:50–1:10 PM	<p>Presentation: Building a learning healthcare system for suicide prevention</p> <p><i>Gregory E. Simon, M.D., M.P.H., Senior Investigator, Kaiser Permanente Washington Health Research Institute; Principal Investigator, Mental Health Research Network, Kaiser Permanente</i></p>
1:10– 1:30 PM	<p>Presentation: The importance of networking/sharing information/best practices between systems</p> <p><i>Linnea Ashley, M.P.H., Training and Advocacy Director, Youth ALIVE!; Managing Director, National Network of Hospital-based Violence Intervention Programs</i></p>
1:30–2:15 PM	Moderated Q&A
2:15–4:00 PM	Session 7: Developing a culture of health care providers as intervenors
2:15–3:15 PM	<p>Moderator: Stephen Hargarten, M.D., M.P.H., Director, Comprehensive Injury Center; Professor, Emergency Medicine, Medical College of Wisconsin</p> <p><i>Jay Bhatt, D.O., M.P.H., M.P.A., Senior Vice President + Chief Medical Officer, American Hospital Association</i></p> <p><i>Shannon Cosgrove, M.H.A., Director of Health Policy, Cure Violence</i></p> <p><i>Deborah A. Kuhls, M.D., FACS, FCCM, Professor of Surgery, UNLV School of Medicine; Chair, American College of Surgeons Committee on Trauma Injury Prevention and Control Committee</i></p>
3:15–4:00 PM	Moderated Q&A
4:00 PM	<p>Closing remarks and reflection on key issues</p> <p><i>George J. Isham</i></p>
4:15 PM	Adjourn

Speaker Biographical Sketches

Linnea Ashley, M.P.H., wears many hats at Youth ALIVE!. She was pivotal in the recent passage of a California State bill that recognizes the value of peer counseling for victims of violence: AB 1629, now the law, makes financial reimbursement available for peer counseling services. Linnea works on legislative initiatives, does research, and provides training and staff support. As Managing Director of the National Network of Hospital Based Violence Intervention Programs, she coordinates a partnership among 30 domestic and 3 international organizations.

Linnea is a food and travel buff and former Peace Corps member with a background in international health development. She holds a B.A. in Journalism from Florida A&M and a M.P.H. from Tulane University, where she was a Rotary Ambassadorial Scholar.

Megan H. Bair-Merritt, M.D., MSCE, is an Associate Professor of Pediatrics and Associate Division Chief of Academic General Pediatrics at Boston Medical Center (BMC). Dr. Bair-Merritt is a general pediatrician and child health services researcher. She completed her pediatrics residency and academic fellowship at the Children's Hospital of Philadelphia. Her research has focused on screening for and responding to intimate partner violence in the health setting, the impact of family violence on child health and interventions to partner with families to promote resilience and child well-being. She has conducted social epidemiology and intervention research for over 10 years. To date, Dr. Bair-Merritt has published 69 scientific and/or invited articles, 11 letters/editorials, and 10 book chapters that predominantly focus on family violence and child health. She has continuously funded her work through federal and foundation grants.

Christopher Barsotti, M.D., FACEP, is a community practice emergency physician in western Massachusetts and southern Vermont who recognizes the potential for physicians to leverage science and their professional accountability in the interest of public health and safety. In response to the profound and long-standing deficiency in federal funding for public health research of gun violence, he co-founded and is current

CEO of the American Foundation for Firearm Injury Reduction in Medicine (AFFIRM), a novel physician-led 501(c)(3) public charity that funds firearm injury prevention research through private sector financial partnerships.

Dr. Barsotti currently serves as chair of the Trauma and Injury Prevention Section of the American College of Emergency Physicians (ACEP) and participates in the Committees on Preparedness and Violence Intervention and Prevention of the Massachusetts Medical Society. He participated in the ACEP Technical Advisory Group for Firearm Research, and co-authored the group's consensus driven agenda for firearm injury prevention research published in the *Annals of Emergency Medicine* in February 2017.

Rinad Beidas, Ph.D., is Assistant Professor of Psychology in Psychiatry at the Perelman School of Medicine, University of Pennsylvania; Director of Implementation Research at the Center for Mental Health Policy and Services Research; and Director of Implementation Science Working Group at the University of Pennsylvania. Dr. Beidas's research group has two primary foci: improving behavioral health and the quality of behavioral health services for traditionally underserved patients; and advancing the study of methods to promote the systematic uptake of research findings and other evidence-based practices (EBPs) into routine practice to improve the quality and effectiveness of health services (i.e., implementation science). Dr. Beidas is an established expert in implementation science; a recent social network analysis conducted by Norton and colleagues identified her as among the top 10 implementation science experts nationally. Dr. Beidas has published approximately 100 articles and is the co-editor of the only book published on EBPs in youth, *Dissemination and Implementation of Evidence-Based Practices in Child and Adolescent Mental Health*. Dr. Beidas's work has been funded by the National Institutes of Health continuously since 2012. Dr. Beidas is deeply committed to partnering with community stakeholders to understand the best way to implement evidence-based practices and improve behavioral health and health services across a variety of settings including community mental health, pediatric primary care, and schools. Further, Dr. Beidas and her group are invested in building capacity in

implementation science and growing the next generation of implementation science investigators.

Dr. Beidas holds a B.A. in psychology from Colgate University and a doctorate of philosophy in psychology from Temple University. She is a licensed clinical psychologist in the state of Pennsylvania. Dr. Beidas is a senior fellow in the Leonard Davis Institute and directs the Leonard Davis Institute's Implementation Science Working Group. She is also an alumnus fellow of the National Institutes of Health–(NIH–) funded Training Institute in Dissemination and Implementation Research in Health, Implementation Research Institute, and the Child Intervention and Prevention Services Fellowship. She is the recipient of a number of awards, including the ABCT President's New Researcher Award in 2015; the American Psychological Foundation Diane J. Willis Early Career Award; and the Perelman School of Medicine Marjorie Bowman New Investigator Research Award in 2017.

Marian (Emmy) Betz, M.D., M.P.H., is an emergency physician who works clinically at the University of Colorado Hospital Emergency Department (ED) and conducts research in injury epidemiology and prevention. She is currently an Associate Professor of Emergency Medicine at the University of Colorado School of Medicine, and she received her M.D. and M.P.H. from Johns Hopkins. Dr. Betz's areas of research expertise are "lethal means safety" (i.e., limiting access to guns and other lethal methods for those who are suicidal) and care of suicidal patients in EDs. She has worked with numerous organizations on issues of suicide prevention, including the Colorado Suicide Prevention Commission, the Suicide Prevention Resource Center, and the American Foundation for Suicide Prevention. She co-founded and leads the Colorado Firearm Safety Coalition, a collaborative effort between public health and medical professionals and firearm retailers to reduce firearm suicides. Her research has received funding from the NIH and numerous foundations. Her prior work has included publications and presentations related to ED provider attitudes towards lethal means restriction for suicide prevention, suicidality among older adults, public opinion about firearm safety discussions, and strategies for enhancing provider-patient communication about sensitive topics, and in 2015 she gave a TEDxMileHigh talk on firearm suicide. Dr. Betz also conducts research

related to geriatric injury prevention and is a current recipient supplemental funding from the National Institute on Aging for work related to firearm access among individuals with Alzheimer's disease and other forms of dementia.

Jay Bhatt, D.O., M.P.H., M.A., FACP, serves as chief medical officer of the American Hospital Association and president of HRET. Most recently, he was the first chief health officer at the Illinois Health & Hospital Association. In this role, he led large improvement projects including the Hospital Engagement Network (HEN), which is aimed at reducing readmissions and hospital-acquired conditions. He has launched several improvement collaboratives, managed the Medical Executive Forum, led the Midwest Alliance for Patient Safety, launched a physician leadership academy, and designed and advanced a statewide high-reliability initiative.

Previously, he was managing deputy commissioner and chief innovation officer for the Chicago Department of Public Health (CDPH). There he led the implementation of Healthy Chicago — the city's public health agenda, innovations in cross-sector partnerships, predictive analytics, epidemiology and informatics. He led the department to be internationally and nationally recognized in their approach to using predictive analytics to improve food inspections, chronic disease, West Nile and lead inspections. He also led a groundbreaking initiative with Advocate South Asian Cardiovascular Center in developing the South Asian Healthy Eating Benefits program along with a partnership to reimagine community benefit spending with Presence Health. Under his leadership, the CDPH was awarded Local Health Department of the Year, and received an award from the National Forum for Heart Disease and Stroke Prevention.

He also is a practicing internal medicine physician for Erie Family Health Center in Chicago serving vulnerable populations and is a member of the Feinberg School of Medicine at Northwestern faculty and the University of Michigan Medical School faculty. He graduated from the University of Chicago in 1999 with a degree in economics. In 2008, Dr. Bhatt received both his M.D. from the Philadelphia College of Osteopathic Medicine, and his M.P.H. from the University of Illinois at Chicago School

of Public Health. In 2012, he received his M.P.A. from the Harvard Kennedy School of Government as a Zuckerman Leadership Fellow and Mongan Commonwealth Fund/Harvard Minority Health Policy Fellow. He was a White House Fellows National Finalist in 2013. He is an American College of Physicians Walter McDonald Young Physician Awardee, 40 under 40 health innovator award recognition, and selected to the prestigious Presidential Leadership Scholars Program in 2016. He enjoys exploring Chicago with family and friends including trying different restaurants. He also enjoys teaching dance in the community.

Patrick M. Carter, M.D., is an Assistant Professor of Emergency Medicine at the University of Michigan (UM) School of Medicine and the Assistant Director of the Centers for Disease Control and Prevention–(CDC–) funded UM Injury Prevention Center. He completed his clinical training and chief residency in emergency medicine at the University of Michigan, followed by a two-year research fellowship sponsored by a NIH T32 grant through the UM Addiction Research Center and the Injury Prevention Center. His current research focuses on firearm injury prevention, specifically the development and implementation of ED– based interventions to decrease firearm violence and associated risk behaviors such as substance use among high-risk urban youth populations. He has led several projects examining the public health problem of firearm violence, including studies characterizing illegal firearm possession among youth, firearm violence outcomes among ED populations, and the unique characteristics of firearm conflicts that differentiate them from other types of peer violence. He has also directed or is actively directing projects examining behavioral interventions for decreasing or preventing violence among urban youth populations. Dr. Carter has served as a member of the Technical Advisory Group focused on developing a firearm research agenda for the American College of Emergency Physicians. His work has also focused on examining policy-level interventions across several injury-related public health issues, including firearm violence and alcohol-impaired driving. Dr. Carter currently has funding as a principal investigator (PI) or co-investigator on grants from the CDC, the National Institute on Drug Abuse (NIDA), the National Institute on Alcohol Abuse and Alcoholism (NIAAA), and the

National Institute of Child Health and Human Development, all of which are focused within the field of violence and injury prevention.

Bechara Choucair, M.D., is the senior vice president and chief community health officer at Kaiser Permanente. He oversees the organization's national community health efforts and philanthropic giving activities aimed at improving the health of its 12.2 million members and the 68 million people who live in the communities it serves. Prior to joining Kaiser Permanente, Dr. Choucair was the commissioner of the Chicago Department of Public Health for five years before serving as senior vice president, Safety Net Transformation and Community Health at Trinity Health. In 2018, Dr. Choucair was named #10 on Modern Healthcare's list of the 50 Most Influential Health Executives in the U.S.

Shannon Cosgrove, M.H.A., serves as the Director of Health Policy at Cure Violence where she is responsible for staffing the Movement towards Violence as a Health Issue that is chaired by Dr. Satcher, former US Surgeon General; Dr. Sommer, former Dean of the Johns Hopkins Bloomberg School of Public Health and Dr. Slutkin, Founder/CEO of Cure Violence. In this role, she oversees public education; developing and implementing a health approach framework and identifies policies to promote and sustain the work with an equity lens.

Previously, Shannon served as the Deputy Director for the Mayor's Office on Criminal Justice in Baltimore City. Her past roles include: Health Equity Manager on the Healthier Communities Team at YMCA of the USA, Project Officer at the Centers for Disease Control and Prevention's Racial and Ethnic Approaches to Community Health team and Health Disparities Coordinator at the Baltimore City Health Department through the Centers for Disease Control and Prevention's Public Health Prevention Fellowship Program where she also served as the Chair of the Health Equity and Social Justice Committee.

While receiving her M.H.A. and B.Sc. in Health Policy and Administration from the Pennsylvania State University, Shannon served as a peer behavioral interventionist and as the grant coordinator at the Centre for Volunteers in Medicine.

Rebecca Cunningham, M.D., is Director of the CDC-funded University of Michigan Injury Prevention Center, Associate Vice President for Health Sciences Research for the University of Michigan's Office of Research, Professor for the University of Michigan's Department of Emergency Medicine, and Professor in Health Behavior & Health Education, UM School of Public Health.

Dr. Cunningham has a distinguished career in researching injury prevention, particularly of youth and young adult populations. Her focus on brief interventions in the emergency room has included using technology to overcome barriers to reaching youth to prevent substance use and violent injury (SafERTeens intervention/NIAAA), and longitudinal studies of youth seeking ED care with assault injury (including firearm injury)/NIDA. She is the PI of the 2017 NICHD funded Firearm-Safety Among Children & Teens Consortium. This grant brings together firearm researchers across the country to build capacity in this field by their collective work to generate of a research agenda for firearm injury among children; conduct innovative firearm prevention science; create a data repository to enhance analysis and access to firearm data; and to train postdoctoral fellows in the science of firearm injury prevention.

Joel A. Fein, M.D., M.P.H., is a Professor of Pediatrics and Emergency Medicine at the Perelman School of Medicine at University of Pennsylvania and an attending physician in the Emergency Department at The Children's Hospital of Philadelphia (CHOP). He is a co-director of the CHOP Violence Prevention Initiative at the Center for Injury Research and Prevention. Dr. Fein is the Research Co-Director of the National Network of Hospital-based Violence Intervention Programs (NNHVIP) and a member of the leadership team for The Center for Pediatric Traumatic Stress, an intervention development center within the National Child Traumatic Stress Network. Dr. Fein is a co-chair of the Philadelphia ACES Task Force, a coalition of regional stakeholders who introduce ACES knowledge into programs, curricula and research. At CHOP, he is the medical advisor to the Community Relations Department and the Director of Advocacy and Health Policy for the Emergency Department.

Dr. Fein completed his B.A in biology and psychology at Wesleyan University in Middletown, Connecticut, his M.D. at The New York

University School of Medicine, and his M.P.H. at the University of Pennsylvania. He completed his residency in pediatrics fellowship in pediatric emergency medicine at CHOP and is board Certified in Pediatrics and Pediatric Emergency Medicine. Dr. Fein has received funding from the NIH, CDC and Department of Health and Human Services to support his research, and has published more than 70 peer reviewed research papers on topics including violence prevention, pain management, and mental health in the emergency setting.

Kyle Fischer, M.D., M.P.H., is an adjunct assistant professor and the director of the Health Policy and Leadership Fellowship program at the University of Maryland School of Medicine, Department of Emergency Medicine. Broadly, his interests focus on novel approaches to emergency department based public health interventions and their intersection with public policy. Dr. Fischer has done extensive work in the field of violence prevention through the NNHVIP, where he serves as the Policy Director and a member of the Steering Committee.

Dr. Fischer's health policy work is grounded in considerable experience in legislative health policy. He has previously held positions in the Wisconsin and Maryland state legislatures as well as the United States House of Representatives Energy and Commerce Committee—Subcommittee on Health.

Dr. Fischer received a B.S. from the University of Wisconsin. He continued at the University of Wisconsin School of Medicine and Public Health to receive a combined M.D./M.P.H. He completed his emergency medicine residency at Drexel University in Philadelphia, where he was also chief resident. Subsequently, he completed a fellowship in health policy and leadership at the University of Maryland School of Medicine.

Stephen Hargarten, M.D., M.P.H., received his M.D. from the Medical College of Wisconsin in 1975 and his M.P.H. from Johns Hopkins in 1984. He is Professor and Chair of the Department of Emergency Medicine, Associate Dean for Global Health and Director of the Comprehensive Injury Center at the Medical College of Wisconsin. Dr. Hargarten's research interests reflect an intersection of injury and violence prevention and health policy to address the burden of this biopsychosocial disease.

His work in linking data systems for understanding violent deaths informed the development of CDC's National Violent Death Reporting System. Dr. Hargarten serves on the national boards of Advocates for Highway and Auto Safety and the Association for Safe International Road Travel. He was inducted into the Johns Hopkins Society of Scholars and elected to the Institute of Medicine in 2011 (now the National Academy of Medicine). In 2014, Dr. Hargarten began serving as President of the Milwaukee Global Health Consortium, (formerly the Center for International Health), a consortium of nine member academic, health care and governmental organizations and agencies, dedicated to addressing local and global health issues including patient care, education/training, research, and community engagement. He was the founding President of the Society for the Advancement of Violence and Injury Research and has served on the Violence and Injury Prevention Mentoring Committee for the World Health Organization. Most recently, Dr. Hargarten was appointed to the executive committee of the National Academies of Sciences, Engineering, and Medicine Transportation Research Board, and to the CDC Community Preventive Services Task force, each for a three-year term.

George J. Isham, M.D., is currently Senior Fellow at the HealthPartners Institute in Minneapolis, Minnesota. His areas of interest include understanding how health is created in populations and how to improve health and health care quality and financing.

From 2012 to 2018, Dr. Isham served as an advisor to the board of directors and the senior management team of HealthPartners on health and quality, and from 1993 until 2012, Dr. Isham served as HealthPartners' Medical Director and Chief Health Officer, reporting to the CEO and responsible for quality of care and health and health care improvement. HealthPartners is the largest consumer governed nonprofit health care organization in the nation—serving more than 1.8 million medical and dental health plan members and more than a million patients annually in its hospitals and clinics.

Dr. Isham is also currently a Senior Advisor to the Alliance of Community Health Plans (ACHP), a national leadership organization

bringing together innovative health plans and provider groups that are among America's best at delivering affordable, high-quality coverage and care. ACHP's member plans provide coverage and care for more than 19 million Americans across the country and include some of the most prominent of America's Health Plans.

Dr. Isham is an elected member of the National Academy of Medicine and was designated as a National Associate of the Institute of Medicine in 2003 recognition of his contribution to its work. He has chaired the National Academies of Sciences, Engineering, and Medicine Roundtable on Population Health Improvement and the Roundtable on Health Literacy, chaired, served and been a reviewer for consensus committee reports, and participated in a number of workshops.

Dr. Isham has been active in health policy, serving as a former member of the Center for Disease Control's (CDC) Task Force on Community Preventive Services, the Agency for Healthcare Research and Quality's United States Preventive Services Task Force, as a founding co-chair of National Committee for Quality Assurance's committee on performance measurement as well as founding co-chair of the National Quality Forum's Measurement Application Partnership. He is a founding member of the advisory board for the National Guideline Clearinghouse and has served on the Advisory Committee to the Director of the CDC.

Dr. Isham earned his B.A. in Zoology and M.S. in Preventive Medicine/Administrative Medicine from the University of Wisconsin, Madison and his M.D. from the University of Illinois in Chicago. He completed his internship and residency in internal medicine at the University of Wisconsin Hospital and Clinics in Madison, Wisconsin. Dr. Isham has clinical experience as a general medical officer in the United States Navy, in the general practice of internal medicine at the Freeport Clinic in Freeport, Illinois, and as a clinical assistant professor of medicine at the University of Wisconsin Hospitals and Clinics in Madison Wisconsin.

Thea L. James, M.D., is an Associate Professor of Emergency Medicine at Boston Medical Center/Boston University School of Medicine. She also serves as the Associate Chief Medical Officer, Vice President of Mission, and Director of the Violence Intervention Advocacy Program (VIAP) at Boston Medical Center.

Dr. James has chaired and served on national committees within the Society for Academic Emergency Medicine (SAEM), served as a moderator, and has given public lectures and talks. She was appointed to the SAEM Women in Academic Emergency Medicine Task Force, is a member of the Boston University School of Medicine Admissions Committee, and in 2009, Dr. James was appointed to the Massachusetts Board of Registration in Medicine, where she presently serves as Chair of the Licensing Committee. Dr. James is the 2008 awardee of the David H. Mulligan Award for public service.

Dr. James' passion is in Public Health both domestically and globally. She is a Supervising Medical Officer on the Boston Disaster Medical Assistance Team, under the Department of Health and Human Services, which has responded to several disasters in the United States and across the globe. She has deployed to post 9/11 in NYC, Hurricane Katrina in New Orleans in 2005, Bam, Iran after the earthquake in 2003, and Port-Au-Prince Haiti after the earthquake of 2010.

For twelve years Dr. James has traveled to Haiti, with colleagues and emergency medicine residents. A graduate of Georgetown University School of Medicine, James completed an emergency medicine residency at Boston City Hospital, where she was a chief resident.

Deborah A. Kuhls, M.D., FACS, FCCM, is Professor of Surgery, Trauma and Critical Care. Dr. Kuhls is a trauma surgeon and is board certified in general surgery and critical care. She also is Program Director of University of Nevada, Las Vegas School of Medicine's Surgical Critical Care Fellowship Program and Medical Director of UMC's Trauma ICU. She has a passion for teaching medical students, residents and fellows. Dr. Kuhls graduated from the Medical College of Pennsylvania (now Drexel University School of Medicine), completed general surgery residency at Albert Einstein University and a fellowship in critical care and trauma at the R. Adams Cowley Shock Trauma Center at the University of Maryland. She subsequently completed Drexel University's Executive Leadership in Academic Medicine fellowship. Dr. Kuhls' research interests include injury prevention of all types, including vehicular crash, firearm and other violence-related injuries, as well as disaster management, medical

education and the clinical care and outcomes of injured patients. Dr. Kuhls is active in many professional organizations and is the President of the Nevada Chapter of the American College of Surgeons, Chair of the American College of Surgeons Committee on Trauma Injury Prevention and Control Committee, and Treasurer of the Clark County Medical Society. She also serves on the Advocacy and Governmental Affairs Committees of multiple organizations.

Michael N. Levas, M.D., M.S., is Associate Professor of Pediatrics in the Section of Emergency Medicine at the Medical College of Wisconsin. Dr. Levas has been with the Medical College of Wisconsin's Section of Pediatric Emergency Medicine since 2011. He is a local product from the south side of Milwaukee and completed his undergraduate work at Saint Norbert College in De Pere, Wisconsin. Following graduation from the Medical College of Wisconsin, he completed his residency and fellowship training in Kansas City, MO. Since joining the faculty at the Medical College, Dr. Levas has been intimately involved with youth violence and injury prevention policy and research. He is the assistant medical director of Project Ujima, the premier hospital based youth violence prevention/intervention program in the United States.

Elizabeth A. McGlynn, Ph.D., is Vice President for Kaiser Permanente Research and Executive Director of the Kaiser Permanente Center for Effectiveness & Safety Research (CESR). She is the senior national executive leader for Research in Kaiser Permanente and is responsible for coordinating the development and implementation of the national research strategy, working with national and regional leadership to enhance the contribution of research to improved care for Kaiser Permanente members and the communities in which they live. She is also responsible for oversight of research administration, the ongoing development and use of the Kaiser Permanente Research Bank, and two internal research and analytic groups.

Dr. McGlynn is an internationally known expert on methods for evaluating the appropriateness and quality of health care delivery. Prior to joining Kaiser Permanente, Dr. McGlynn was the Associate Director of RAND Health and held the RAND Distinguished Chair in Health Care

Quality. She received AcademyHealth's Distinguished Investigator Award in 2012. Dr. McGlynn is a member of the National Academy of Medicine. She is the immediate past chair of the American Board of Internal Medicine Foundation Board of Trustees. She is the former chair of the National Advisory Council for the Agency for Healthcare Research and Quality and serves on the Institute for Healthcare Improvement's Scientific Advisory Group and the National Evaluation System for Health Technology's Governing Committee. She is on the editorial boards of *JAMA*, *Health Services Research*, and *The Milbank Quarterly*.

Lucas P. Neff, M.D., is an Assistant Professor of Pediatric Surgery at Wake Forest University. He is a veteran of the U.S. Air Force and served in Afghanistan as a combat surgeon in support of Operation Enduring Freedom. He has an extensive background in developing translational science models to study the physiology of shock resuscitation. In addition, he has focused his efforts in elucidating the causes health disparities as they relate to common pediatric surgical conditions.

For Luke, the issue of pediatric firearm injury has become very personal. While he was deeply affected by the many injured Afghan children that he cared for, he was not prepared for the magnitude of pediatric firearm injury that he encountered upon returning to the U.S. and starting his pediatric surgical fellowship. This has launched a new area of academic and clinical interest for him and he is excited to connect with like-minded individuals and increase the population health dialogue amongst all stakeholders—especially gun rights advocates.

Megan Ranney, M.D., M.P.H., FACEP, is an Associate Professor in the Department of Emergency Medicine at Alpert Medical School of Brown University; Director and Founder of the Brown Emergency Digital Health Innovation program; and Chief Research Officer for AFFIRM Research, a philanthropy focused on filling the funding gap for firearm injury prevention research. She also serves as Chair of her Governor's Task Force on Gun Safety. Dr. Ranney's career focus is on developing, testing, and disseminating technology-based interventions to prevent violence and mental illness. She is currently PI or co-investigator on 7 federally funded grants and has over 95 peer-reviewed publications. She currently serves as

an elected Member-at-Large on the Board of Directors for the Society for Academic Emergency Medicine (SAEM); editor for *Annals of Emergency Medicine*; and chairs regional and national committees on firearm injury within and outside of emergency medicine. She has received numerous awards for technology innovation, public health, and research. Dr. Ranney graduated from Harvard University with a B.A. (summa) in History of Science. She served as a Peace Corps Volunteer in Cote d'Ivoire prior to attending medical school at Columbia University College of Physicians & Surgeons in NYC. She graduated with AOA status and received the Leonard Tow Humanism in Medicine award on graduation. She completed internship, residency, and chief residency in Emergency Medicine, as well as a fellowship in Injury Prevention Research and an M.P.H., at Brown University. She is active on Twitter @meganranney.

Therese S. Richmond, Ph.D., CRNP, FAAN, is passionate about using nursing science to prevent injury and violence and improve outcomes, particularly in patients from vulnerable urban populations worldwide—those who live on the margins of society, have limited resources, or live in pervasively violent communities. An early clinical position in a Washington, DC, trauma ICU and resuscitation unit sparked Dr. Richmond's interest in preventing injuries, and her curiosity about survivors' quality of life. This experience led to specialization in nursing care for victims of injury and violence, including co-founding the Firearm & Injury Center at Penn two decades ago and which now is a vibrant interdisciplinary research center: the Penn Injury Science Center.

In her role as Associate Dean for Research & Innovation, Dr. Richmond helps shape the research and innovation-focused environment that is Penn Nursing. She facilitates systems to enhance research, scholarship, and innovation productivity. She led efforts to create a strategic vision for innovation at Penn Nursing—infusing new courses in the curriculum, developing a Penn Nursing Faculty Fellow in Innovation, and facilitating efforts to create new solutions to solve important problems.

Dr. Richmond also helps shape the research-focused environment that is Penn Nursing, facilitating systems to help faculty increase their scholarship and productivity. Along with geographers, criminologists,

attorneys, nurses, psychologists and other experts, Dr. Richmond's research involves all levels of students, including undergraduate research assistants who work with her research staff and doctoral and post-doctoral members of her research teams. She has received many awards for teaching and mentoring at Penn, including the Lindback Award for Distinguished Teaching. Dr. Richmond teaches and mentors undergraduates and doctoral students.

Ali Rowhani-Rahbar, Ph.D., M.D., M.P.H., is the Bartley Dobb Professor for the Study and Prevention of Violence at the University of Washington. He is the Violence Prevention Section Leader at the Harborview Injury Prevention & Research Center. His epidemiologic studies have spanned across multiple forms of violence including firearm violence, youth violence, bullying, child maltreatment, intimate partner violence, and suicide. Dr. Rowhani-Rahbar investigates violent victimization and perpetration with an integrated public health and public safety approach. His research on inter-personal violence is specifically focused on the nexus of trauma and crime to inform interventions that prevent violence from occurring in the first place, promote healing following violence, and reduce recidivism. His research on self-directed violence is specifically focused on means safety. Dr. Rowhani-Rahbar has served on the American College of Emergency Physicians Technical Advisory Group on Firearm Violence Research, Firearms Subcommittee of Washington State Safer Homes Task Force for Suicide Prevention, and editorial board of the journal Injury Prevention. He has also served as an elected member of the Board of Directors of the Society for Advancement of Violence and Injury Research.

Gregory Simon, M.D., M.P.H., is an investigator at Kaiser Permanente Washington Health Research Institute and a psychiatrist in Kaiser Permanente's Behavioral Health Service. He is also a Research Professor in the Department of Psychiatry and Behavioral Sciences at the University of Washington and Co-chair of the national scientific advisory board of the Depression and Bipolar Support Alliance. Dr. Simon completed residency training in internal medicine at the University of Washington, residency training in psychiatry at the Massachusetts General Hospital, and

fellowship training in the Robert Wood Johnson Clinical Scholars program at the University of Washington. Dr. Simon's research focuses on improving access to and quality of mental health care, especially for mood disorders. Specific areas of research include improving adherence to medication, increasing the availability of effective psychotherapy, evaluating peer support by and for people with mood disorders, identifying and reducing risk of suicidal behavior, cost-effectiveness of treatment, and comorbidity of mood disorders with chronic medical conditions. Dr. Simon currently leads the Mental Health Research Network, a National Institute of Mental Health-funded cooperative agreement supporting population-based mental health research across 13 large health systems.

Joseph Simonetti, M.D., M.P.H., earned his M.D. from the Ohio State University in 2008 and completed his training in Internal Medicine at the University of Pittsburgh prior to serving as Chief Medical Resident from 2011–2012. He then moved to Seattle where he completed an NIH National Research Service Award fellowship, worked as a senior research fellow in the Harborview Injury Prevention & Research Center at the University of Washington and the US Department of Veterans Affairs' (VA's) Patient Aligned Care Team National Demonstration Lab, and earned his M.P.H. from the University of Washington.

Currently, he is an internal medicine physician practicing within the VA Eastern Colorado Healthcare System. He has research appointments within the VA Rocky Mountain Mental Illness Research, Education and Clinical Center for Suicide Prevention and the Denver-Seattle Center for Veteran-Centered and Value-Driven Care.

Dr. Simonetti's research focuses on reducing the burden of intentional and unintentional firearm injuries nationally. He joined the VA to adapt his expertise in firearm injury prevention to system-level strategies that can be used to mitigate the high burden of suicide, particularly firearm-related suicide, among U.S. Veterans. His current focus is on developing Veteran-centered approaches to facilitating lethal means safety as a suicide prevention strategy.

Daniel Webster, Sc.D., M.P.H., is the inaugural Bloomberg Professor of American Health at the Johns Hopkins Bloomberg School of Public Health where he directs the Center for Gun Policy and Research and serves as co-lead of the Violence Prevention Workgroup of the Bloomberg American Health Initiative. Dr. Webster is one of the nation's leading experts on the prevention of gun violence and has published over 120 articles in scientific journals on topics including gun policy, violence prevention, youth violence, intimate partner violence, suicide, and substance abuse. He is the lead editor and a contributor to *Reducing Gun Violence in America: Informing Policy with Evidence and Analysis* (Johns Hopkins University Press, 2013).

Dr. Webster's research has informed policies to reduce gun violence at the local, state, and federal level. He led Baltimore's Homicide Review Commission and now leads the Johns Hopkins-Baltimore Collaborative for Violence Reduction. His awards include the American Public Health Association's David Rall Award for science-based advocacy (2015), Baltimore City's Health Equity Leadership Award (2016), Pioneer Award from the Injury Free Coalition for Kids (2017), and Johns Hopkins University Distinguished Alumni Award (2017).

Suggested Reading

The list below encompasses several texts and articles that may be of interest to workshop participants, specifically recommended by the workshop speakers.

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Notes and Questions

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The National Academies of Sciences, Engineering, and Medicine (NASEM) are committed to the principles of diversity, integrity, civility, and respect in all of our activities. We look to you to be a partner in this commitment by helping us to maintain a professional and cordial environment. All forms of discrimination, harassment, and bullying are prohibited in any NASEM activity. This commitment applies to all participants in all settings and locations in which NASEM work and activities are conducted, including committee meetings, workshops, conferences, and other work and social functions where employees, volunteers, sponsors, vendors, or guests are present.

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Bullying is unwelcome, aggressive behavior involving the use of influence, threat, intimidation, or coercion to dominate others in the professional environment.

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Any violation of this policy should be reported. If you experience or witness discrimination, harassment, or bullying, you are encouraged to make your unease or disapproval known to the individual, if you are comfortable doing so. You are also urged to report any incident by:

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