



**2022 NATIONAL  
RESEARCH CONFERENCE**  
FIREARM INJURY PREVENTION

***Washington, D.C.***  
***November 29-December 1***

# AGENDA AT A GLANCE

## Tuesday, November 29

5:00-8:00 P.M.

Check-in  
*Blue Pre-function Room*

6:00-8:00 P.M.

Welcome Reception  
*Hampton Ballroom*

## Wednesday, November 30

7:30-8:30 A.M.

Breakfast  
*Empire Ballroom*

8:30-10:00 A.M.

Welcome and Keynote  
*Blue Ballroom*

10:00-10:15 A.M.

Break

10:15-11:45 A.M.

**Concurrent Presentations**

Panel: Equity  
*Blue Ballroom*

Symposium: Policy  
*Hampton Ballroom*

Oral Presentation: Suicide  
*Congressional Rooms*

Oral Presentation: Healthcare  
*Capitol Room*

11:45 A.M.-1:15 P.M.

Lunch  
*Empire Ballroom*  
Mentoring Session  
*Blue Ballroom and Hampton Ballroom*

1:15-2:45 P.M.

**Concurrent Presentations**

Foundation Funders Panel  
*Blue Ballroom*

Symposium: School Violence  
*Hampton Ballroom*

Oral Presentation: Homicides  
*Congressional Rooms*

Oral Presentation: Intimate Partner Violence  
*Capitol Room*

2:45-3:00 P.M.

Break

3:00-4:30 P.M.

**Concurrent Presentations**

Panel: Criminal Justice  
*Blue Ballroom*

Symposium: Place-based  
*Hampton Ballroom*

Oral Presentation: Sequelae  
*Congressional Rooms*

Oral Presentation: Risk  
*Capitol Room*

Oral Presentation: Methods  
*Empire Ballroom*

4:30-4:45 P.M.

Break

4:45-5:15 P.M.

**Flash Science**

Adolescents & Children  
*Hampton Ballroom*

Policy Analysis  
*Congressional Rooms*

Firearm Access & Ownership  
*Capitol Room*

5:15-6:15 P.M.

Poster Session 1  
*Blue Pre-function Room and Hampton Ballroom*

## Thursday, December 1

7:30-8:30 A.M.

Breakfast  
*Empire Ballroom*

8:30-10:00 A.M.

**Concurrent Presentations**

Federal Funders Panel  
*Blue Ballroom*

Symposium: Community Violence  
*Hampton Ballroom*

Oral Presentation: Disparities  
*Congressional Rooms*

Oral Presentation: Policy  
*Capitol Room*

10:00-10:15 A.M.

Break

10:15-11:45 A.M.

**Concurrent Presentations**

Symposium: Community Violence  
*Blue Ballroom*

Science and Media Panel  
*Hampton Ballroom*

Oral Presentation: Criminal Justice  
*Congressional Rooms*

Oral Presentation: Data & Methods  
*Capitol Room*

11:45 A.M.-1:15 P.M.

Lunch  
*Empire Ballroom*

12:15-1:15 P.M.

Poster Session 2  
*Blue Pre-function Room and Hampton Ballroom*

1:15-2:45 P.M.

**Concurrent Presentations**

Symposium: Suicide  
*Blue Ballroom*

Oral Presentation: Economics  
*Hampton Ballroom*

Oral Presentation: Disparities  
*Congressional Rooms*

Oral Presentation: Media  
*Capitol Room*

2:45-3:00 P.M.

Break

3:00-5:00 P.M.

**Closing Ceremony**  
Keynote and Awards  
*Blue Ballroom*

# CONFERENCE SCHEDULE

## November 29

5:00-8:00 P.M. Check-in (Blue Pre-function Room)

6:00-8:00 P.M. Welcome Reception (Hampton Ballroom)

Light refreshments will be served, cash bar available

## November 30

7:30-8:30 A.M. Breakfast (Empire Ballroom)

Continental breakfast provided

8:30-10:00 A.M. Welcome and Opening Keynote (Blue Ballroom)

Victor Dzau, National Academy of Medicine

**Keynote:** Deborah Prothrow-Stith, Dean and Professor of Medicine for the College of Medicine, Charles R. Drew University of Medicine and Science

Bobbi Cordano, Consortium of Universities of the Washington Metropolitan Area

10:00-10:15 A.M. Break

10:15-11:45 A.M. Symposium and Concurrent Oral Presentations

**Panel: Shifting the gun violence prevention narrative (Blue Ballroom)**

Stephanie Hawkins, RTI International

Joseph B. Richardson, Jr., University of Maryland

Eugenia C. South, University of Pennsylvania

Nakita Lovelady, University of Arkansas for Medical Sciences

**Symposium: Does legally removing firearms from prohibited persons prevent harm? Examining extreme risk protection orders and gun relinquishment policies (Hampton Ballroom)**

April Zeoli, University of Michigan

Eli Ben-Michael, Harvard University

Tom Scott, RTI International

**Concurrent Oral Presentation: Advancing solutions to prevent firearm-related suicide (Congressional Rooms)**

- **Firearm licensure, lead levels and suicides in Massachusetts**, Christian Hoover, Harvard University
- **Effect of mass communication on veteran suicide prevention: Help seeking & firearm safety behaviors**, Bertrand Berger, Medical College of Wisconsin / Zablocki VA Medical Center
- **An experimental test of safe firearm storage messaging in a sample of firearm-owning United States military service members**, Michael Anestis, Rutgers, The State University of New Jersey
- **Firearms and suicidal ideation among young adults experiencing homelessness**, Hsun-Ta Hsu, University of Missouri
- **Predicting beliefs about firearms in the home and suicide risk across ecological levels**, Dan Lee, University of Michigan
- **Risk perception and temporary storage options in Texas: Opportunities for intervention**, Sandra McKay, University of Texas / Children's Memorial Hermann Hospital
- **Development of a brief, motivational interviewing-based lethal means safety counseling intervention manual for primary care settings**, Frances Aunon, VA Connecticut Healthcare System / Yale School of Medicine

**Concurrent Oral Presentation: Advancing prevention in healthcare settings: data quality and interventions (Capitol Room)**

- **Classification of firearm injury intent by trauma registrars: A survey with randomized case scenarios**, Ali Rowhani-Rahbar, University of Washington

# CONFERENCE SCHEDULE

## 10:15-11:45 A.M. Concurrent Oral Presentations Continued

### *Concurrent Oral Presentation: Advancing prevention in healthcare settings: data quality and interventions (Capitol Room)*

- **Firearm violence among young adults presenting to the emergency department: Initial validation and improvement of the SaFETy score**, Jason Goldstick, University of Michigan
- **A review of hospital-based violence intervention programs and evidence of their effects on risk of future violence**, Daniel Webster, Johns Hopkins University
- **HBVIPs (Hospital Based Violence Intervention Programs): Views from the worker perspective**, Christopher St. Vil, University at Buffalo
- **Mental health service use after pediatric nonfatal firearm injuries**, Jennifer Hoffman, Northwestern University / Ann & Robert H. Lurie Children's Hospital of Chicago
- **Predictors of recent mental health service utilization among firearm owning service members with high levels of psychological distress**, Taylor Rodriguez, Rutgers, The State University of New Jersey
- **Longitudinal healthcare utilization and expenditures of children before and after firearm injury**, Christian Pulcini, University of Vermont Medical Center and Children's Hospital

## 11:45 A.M.-1:15 P.M. Mentoring Sessions and Lunch

### *Mentoring Sessions (Hampton Ballroom and Blue Ballroom)*

### *Lunch (Empire Ballroom)*

Lunch will be provided in the Empire, Hampton and Blue Ballrooms

## 1:15-2:45 P.M. Foundation Funders Panel, Symposium and Concurrent Oral Presentations

### *Panel: Foundation Funders (Blue Ballroom)*

Ellen Alberding, President and CEO, The Joyce Foundation  
Judy Belk, President and CEO, The California Wellness Foundation  
Kelli Rhee, President and CEO, Arnold Ventures

### *Symposium: Evidence-informed solutions to the prevention of school gun violence: Bridging research, practice, and policy (Hampton Ballroom)*

Sonali Rajan, Teachers College, Columbia University  
Janet Robinson, Stratford Public Schools, Newtown Public Schools  
Seth Prins, Columbia University

### *Concurrent Oral Presentation: Firearm homicides & cities: Exploring community perspectives, neighborhood characteristics, and violence prevention programs (Congressional Rooms)*

- **Empowerment and redemption: A qualitative study about Cure Violence outreach and mentoring**, Peter Simonsson, Temple University
- **Augmented synthetic control methods demonstrate overall effectiveness of a Cure Violence intervention in Baltimore City, Maryland**, Carla Tilchin, Johns Hopkins University
- **Community-based violence prevention: Unpacking the Newark Community Street Team's high risk intervention program**, Solomon Middleton-Williams, Newark Community Street Team
- **Community perspectives on firearm violence in four major U.S. cities**, Dionne Barnes-Proby, RAND Corporation
- **Individual, family, and community factors of gun violence affecting California communities**, George Tita, University of California, Irvine

# CONFERENCE SCHEDULE

## 1:15-2:45 P.M. Concurrent Oral Presentations Continued

**Concurrent Oral Presentation: Firearm homicides & cities: Exploring community perspectives, neighborhood characteristics, and violence prevention programs (Congressional Rooms)**

- The contribution of neighborhood characteristics to psychological symptom severity in a cohort of injured Black men, Therese Richmond, University of Pennsylvania
- Participatory action research to understand gun-related attitudes, behaviors, and practices, Krista Mehari, University of South Alabama

**Concurrent Oral Presentation: Intimate partner violence: Assessing risk and implementing evidence-based solutions (Capitol Room)**

- Implementation and effectiveness of firearm restriction enforcement in Domestic Violence Protection Orders on violent crime, Alice Ellyson, University of Washington
- Double jeopardy: Intimate partner and firearm violence among youth and young adults experiencing homelessness, Annah Bender, University of Missouri - St. Louis
- Firearm-related threats and violence against minors among granted Domestic Violence Protection Orders in King County, WA, Avanti Adhia, University of Washington
- Assessing the risk for intimate partner homicides – The PAIR Studies, Jesenia Pizarro, Arizona State University
- The contribution of intimate partner violence to fatal firearm deaths: A comprehensive approach using the National Violent Death Reporting System, Julie Kafka, University of North Carolina at Chapel Hill
- An analysis of pediatric fatalities in the context of parental separation, divorce, and intimate partner violence, Kathryn Spearman, Johns Hopkins University
- Firearm access and suicide-related behavior among Domestic Violence Protection Order respondents, Kimberly Dalve, University of Washington

## 2:45-3:00 P.M. Break

## 3:00-4:30 P.M. Symposium and Concurrent Oral Presentations

**Panel: Bridging the criminology and public health divide in the field of firearm injury prevention (Blue Ballroom)**

April Zeoli, University of Michigan  
Andrew Papachristos, Northwestern University  
Daniel Webster, Johns Hopkins University  
Jesenia Pizarro, Arizona State University

**Symposium: The roles of racial segregation, tree canopy, and heat in urban health and firearm violence (Hampton Ballroom)**

Jonathan Jay, Boston University  
Emma Gause, University of Washington  
Ijeoma Unachukwu, Rutgers, The State University of New Jersey

**Concurrent Oral Presentation: Consequences of firearm violence: Mental health and risks for future violence (Congressional Rooms)**

- Mental health consequences following firearm and motor vehicle related injuries: Impacting our treatment strategies, Peter Ehrlich, University of Michigan
- Mental health outcomes from direct and indirect exposure to firearm violence: A cohort study of nonfatal shooting survivors and family members, Lauren Magee, Indiana University - Purdue University at Indianapolis

# CONFERENCE SCHEDULE

## 3:00-4:30 P.M. Concurrent Oral Presentations Continued

### *Concurrent Oral Presentation: Consequences of firearm violence: Mental health and risks for future violence (Congressional Rooms)*

- **Mental health disparities and pain following firearm violence: A prospective comparison of survivors of firearm injury and motor vehicle collisions**, Sydney Timmer-Murillo, Medical College of Wisconsin
- **Opportunities to reduce barriers to mental health care following pediatric firearm injury**, Rachel Myers, Children's Hospital of Philadelphia
- **Heterogeneous effects of spatially proximate firearm homicide exposure on anxiety and depression symptoms among U.S. youth**, Shani Buggs, University of California, Davis
- **Social, environmental, and economic approaches to firearm violence prevention in Cleveland, Ohio**, Rose Kagawa and Colette Smirniotis, University of California, Davis
- **Examining the impact of laws changing civilian rights to use deadly force in self-defense: A systematic review**, David Humphreys, University of Oxford

### *Concurrent Oral Presentation: Understanding risk & protective factors (Capitol Room)*

- **Life-course risk factors for homicide: 30-year prospective birth cohort study in Brazil**, Joseph Murray, Federal University of Pelotas
- **Inequalities in gun victimization and exposure from childhood to early adulthood**, Rebecca Bucci, Harvard University
- **Reducing victimization, perpetration, and consequences of firearm violence: New findings from the Northwestern Juvenile Project**, Linda Teplin, Northwestern University
- **Mass shooting events in major U.S. cities predominately affect communities of color**, Michael Ghio, Tulane University
- **Increased tree canopy coverage is associated with lower shooting incidence in Philadelphia**, Christina Jacovides, University of Pennsylvania
- **Measuring firearm access and storage: Improving understanding and new directions**, Lauren Hudak, Emory University
- **More is not always better: Examining the cumulative effects of school safety policies on perceptions of school safety for youth of color**, Justin Heinze, University of Michigan

### *Concurrent Oral Presentation: Enhancing the firearm data infrastructure through innovative data and methods (Part I) (Empire Ballroom)*

- **The value of geospatial analysis for determining regional risk and protective factors for firearm violence**, Abiodun Oluyomi, Baylor University
- **The SAFIR model (Surveillance to Assess Firearm Injury and Risks): An integrated system for comprehensive local firearm injury surveillance at the county level**, Bindi Naik-Mathuria, Baylor University
- **Firearm injuries treated in emergency departments – CDC Firearm Injury Surveillance Through Emergency Rooms (FASTER) Program, 9 States and the District of Columbia, 2018 – 2021**, Marissa Zwald, Centers for Disease Control and Prevention
- **Defensive gun use in the gun violence archives: A typology of incidents**, David Hemenway, Harvard University
- **Estimates of substate firearm ownership rates over time**, Andrew Morral, RAND Corporation
- **Childhood exposure to firearm violence and adolescent/adult firearm use: Insights from integrative data analysis**, Paul Boxer, Rutgers, The State University of New Jersey

# CONFERENCE SCHEDULE

## 3:00–4:30 P.M. Concurrent Oral Presentations Continued

*Concurrent Oral Presentation: Enhancing the firearm data infrastructure through innovative data and methods (Part I) (Empire Ballroom)*

- Quantitative and qualitative perspectives on firearm injuries among veterans nationally, Yachna Bhakta, VA Portland Healthcare System

## 4:30–4:45 P.M. Break

## 4:45–5:15 P.M. Flash Science

*Flash Science 1: Firearm injury prevention among adolescent and pediatric populations (Hampton Ballroom)*

- Implementing community-based youth firearm prevention: The True Reasons I Grabbed a Gun Evolved from Risks project (TRIGGER), Ebunoluwa Odueso, University of Michigan
- Comparison of pediatric firearm related fatalities in intimate partner violence related homicides, familial homicides, and other child homicides, Kathryn Spearman, Johns Hopkins University
- Provider perspectives on trauma recovery & violence prevention resources for assault-injured youth in an urban Level 1 Trauma Center, Symphony Fletcher, University of Chicago
- Asking Saves Kids: A firearm injury prevention campaign in a suburban Cook County pediatric emergency department, Veena Hamill, Loyola University Chicago
- Care management needs among assault-injured youth enrolled in a hospital-based violence intervention, Lynn Massey, University of Michigan
- Trajectories of handgun carrying in rural communities from early adolescence to young adulthood and their association with bullying and physical violence, Alice Ellyson, University of Washington
- Examining sleep problems as a mediator between adolescent firearm violence and depression in adulthood, Esther Lee, University of Michigan
- Mental health comorbidities, household firearm ownership, and reported firearm access among children, Keith Hullenaar, University of Washington
- It doesn't add up: Performance of the Adverse Childhood Experiences (ACEs) Questionnaire with Black male firearm violence survivors in a hospital-based violence intervention program, Nazsa Baker, New Jersey Gun Violence Research Center

*Flash Science 2: Examination of firearm policies and their effects on firearm injuries (Congressional Rooms)*

- State regulation of public carry, 1980–2020: From bans to permitless carry and NYSRPA v. Bruen, Alexander McCourt, Johns Hopkins University
- State by state legislative action to the Sandy Hook mass shooting and analysis of subsequent legislative reaction, Deirdre Bowen, Seattle University
- Improving causal inference in firearm policy research: A review of confounder selection, Julia Schleimer, University of Washington
- The effects of firearm concealed carry licensing policies: Who do they affect and how?, Susan Parker, University of Michigan
- The association of Permit-to-Purchase laws with intimate partner homicide, Stephen Oliphant, Michigan State University

# CONFERENCE SCHEDULE

## 4:45-5:15 P.M. Flash Science Continued

### *Flash Science 2: Examination of firearm policies and their effects on firearm injuries (Congressional Rooms)*

- **An evaluation of community-based gun buyback programs: Informing communities and political leadership about people's reasons for turning in firearms**, Pina Violano, Quinnipiac University
- **Gun violence in the U.S. territories**, Alex Nguyen, Giffords Law Center to Prevent Gun Violence
- **Effect of Second Amendment Sanctuary Ordinances on firearm homicide and suicide rates**, Burcu Kolcak, University of Illinois-Chicago

### *Flash Science 3: Firearm access, carriage, and ownership (Capitol Room)*

- **Reducing firearm access for youth at risk for suicide in a pediatric emergency department**, Sofia Chaudhary, Emory University / Children's Healthcare of Atlanta
- **Rates and factors associated with firearm carrying among young adults presenting to four urban emergency departments**, Philip Stallworth, University of Michigan
- **Exploring personal crises observed in mass shooters for third-party detection and intervention using Psychometric Network Analysis**, Samuel West, Virginia Commonwealth University
- **The Firearm Implicit Association Test: A validation study**, Claire Houtsma, VA Southeast Louisiana Healthcare System / Tulane University
- **What to do when the person at risk is you: A qualitative study of firearm owning individuals**, Christopher Knoepke, University of Colorado - Denver
- **Understanding illicit firearm ownership among Black individuals**, Esprene Liddell-Quintyn, Rutgers, The State University of New Jersey
- **Gender differences in weapon types used in fatal interpersonal violence-related homicides in Chicago, IL from 2015 to 2020**, Regina Royan, Northwestern University
- **The association between community violence exposure and parental firearm ownership**, Karissa Pelletier, University of Michigan
- **Development of a veteran led out-of-home firearm storage network: The Armory Project**, Joseph Constans, Tulane University
- **Violent injury prevention across the lifespan: A single institution analysis of firearm related injuries in the elderly**, Courtney Meyer, Emory University / Grady Health System

## 5:15-6:15 P.M. Poster Session 1

### *Poster Session 1 (Blue Pre-function Room and Hampton Ballroom)*

View all scientific programming  
abstracts on the conference website



# CONFERENCE SCHEDULE

## December 1

### 7:30-8:30 A.M. Breakfast (Empire Ballroom)

Continental breakfast provided

### 8:30-10:00 A.M. Federal Funders Panel, Symposium, and Concurrent Oral Presentations

#### Panel: *Federal Funders* (Blue Ballroom)

Debra Houry, Centers for Disease Control and Prevention  
Crystal Barksdale, National Institute on Minority Health and Health Disparities  
Valerie Maholmes, Eunice Kennedy Shriver National Institute of Child Health and Human Development  
Stephen O'Connor, National Institute of Mental Health  
Dara Blachman-Demner, National Institutes of Health, Office of Behavioral and Social Science Research  
Nancy LaVigne, National Institute of Justice

#### Symposium: *Community violence intervention strategies: The state of street outreach* (Hampton Ballroom)

Andrew Papachristos and Marisa Ross, Northwestern University  
David Hureau, The University at Albany, State University of New York  
Nathan Aguilar, Columbia University  
Artimteo Williamson, Institute for Nonviolence Chicago  
Jordan Costa & Paul Carrillo, Giffords Center for Violence Intervention

#### Concurrent Oral Presentation: *Understanding and addressing disparities: Epidemiology and intervention* (Part I) (Congressional Rooms)

- **Store Safely: A culturally tailored universal prevention strategy for rural families**, Cynthia Ewell Foster, University of Michigan
- **Firearm violence exposure among young adults experiencing homelessness: Rates and correlates**, Hsun-Ta Hsu, University of Missouri
- **Perspectives on firearm and medication-related suicide prevention interventions among veterans seeking emergency care**, Joseph Simonetti, University of Colorado Anschutz / Veterans Health Administration Colorado
- **Uncovering a paradox: American perceptions of gun-related safety by race and gun ownership**, Julie Ward, Johns Hopkins University
- **Galvanizing iron: Racial justice protests and gun desirability during a global pandemic**, Justin Lucas Sola, University of California, Irvine
- **The implications of the Bruen Decision on racial disparities in gun violence**, Michael Ulrich, Boston University
- **Assessing the intersection of historic and contemporary structural racism on firearm violence in Baltimore City**, Mudia Uzzi, Johns Hopkins University

#### Concurrent Oral Presentation: *Examination of firearm policies and their effects on firearm injuries* (Capitol Room)

- **Consumer handgun purchase depends on geographic proximity to storefront gun retailers**, Adam Rosenberg, Stanford University
- **Ghost gun policy: State and federal variation, limitations, and new developments**, Alexander McCourt, Johns Hopkins University
- **Community-level impact of social policies surrounding firearm injury**, Arielle Thomas, Medical College of Wisconsin / American College of Surgeons, Chicago

# CONFERENCE SCHEDULE

## 8:30-10:00 A.M. Concurrent Oral Presentations Continued

### *Concurrent Oral Presentation: Examination of firearm policies and their effects on firearm injuries (Capitol Room)*

- **Permit-to-Purchase laws and firearm deaths among adolescents and emerging adults**, Cassandra Crifasi, Johns Hopkins University
- **Lessons from the outliers: Firearm law and firearm dealer exposure in counties with unexpected changes in firearm homicides, 1989-2019**, Jamie Song, University of Pennsylvania
- **U.S. firearms trafficking to Central America: Sources and impacts**, Mark Ungar, City University of New York
- **Quantifying the effectiveness of firearm policies in reducing firearm harms using information theory**, Roni Barak Ventura, New York University

## 10-10:15 A.M. Break

## 10:15-11:45 A.M. Symposium, Science & Media Panel and Concurrent Oral Presentations

### *Symposium: Promising approaches to ending community violence: Evidence from Chicago (Blue Ballroom)*

Monica Bhatt, University of Chicago  
Kimberley Smith, University of Chicago  
Max Kapustin, Cornell University / University of Chicago

### *Panel: Science and Media (Hampton Ballroom)*

Megan Ranney, Brown University  
Marian Betz, University of Colorado  
Joseph B. Richardson, Jr., University of Maryland

### *Concurrent Oral Presentation: Criminal justice and firearm crime (Congressional Rooms)*

- **The relationship between firearm theft and criminal use**, Hannah Laqueur, University of California, Davis
- **Rising gun thefts from cars and associated factors**, Megan O'Toole, Everytown for Gun Safety Support Fund
- **Assessing the impact of plea bargaining on subsequent violence for firearms offenders**, Brian Johnson, University of Maryland
- **Gun crimes in the connected states of America: Flow through the Iron Pipeline**, Christopher Morrison, Columbia University
- **Research on a 15-year statewide program to generate enhanced investigative leads for crime gun violence**, Glenn Pierce, Northeastern University
- **Correlates of firearms recovered in crimes: A descriptive analysis of 8,528,166 firearms**, Sonia Robinson, University of California, Davis

### *Concurrent Oral Presentation: Enhancing the firearm data infrastructure through innovative data and methods (Part II) (Capitol Room)*

- **CDC's vital signs on changes in firearm homicide and suicide rates — United States, 2019–2020**, Thomas Simon, Centers for Disease Control and Prevention
- **The Functional Synthetic Control Method: A generalization of the Synthetic Control Method for functional data**, Aaron Shev, University of California, Davis

# CONFERENCE SCHEDULE

## 10:15-11:45 A.M. Concurrent Oral Presentations Continued

*Concurrent Oral Presentation: Enhancing the firearm data infrastructure through innovative data and methods (Part II) (Capitol Room)*

- **Comprehensive local surveillance of pediatric firearm injuries to identify vulnerable populations and risk factors for injury prevention planning: The SAFIR Houston model**, Bindi Naik-Mathuria, Baylor University
- **Understanding risk factors for non-injurious, injurious non-fatal, and fatal gun violence victimization using a comparative approach**, Brendan Lantz, Florida State University
- **Learning about firearm behavior and firearm-related outcomes using social media data**, Lisa O. Singh, Georgetown University
- **County-level variation in changes in firearm mortality rates across the United States, 1989-1993 to 2015-2019**, Michelle Degli Esposti, University of Michigan

## 11:45 A.M.-1:15 P.M. Lunch and Poster Session 2

*Lunch (Empire Ballroom)*

Lunch will be provided

*Poster Session 2 (Blue Pre-function Room and Hampton Ballroom)*

View all scientific programming  
abstracts on the conference website



## 1:15-2:45 P.M. Symposium and Concurrent Oral Presentations

*Symposium: Innovations in firearm suicide research in varied populations (Blue Ballroom)*

Laura Prater, University of Washington  
Joseph Simonetti, University of Colorado Anschutz  
Marian Betz, University of Colorado  
Jennifer Boggs, Kaiser Permanente Colorado

*Concurrent Oral Presentation: Examining economic and policy solutions and their effects on firearm injuries (Hampton Ballroom)*

- **The U.S. consumer firearms industry: Equilibrium and implications for gun policy**, Luis Armona, Stanford University
- **Finding the common ground in gun violence prevention policy**, Michael Siegel, Tufts University
- **Permit-to-Purchase Laws and shootings by police**, Cassandra Crifasi, Johns Hopkins University
- **Deregulation of public civilian gun carrying and violent crime: A longitudinal analysis 1993-2019**, Mitchell Doucette, Johns Hopkins University
- **The Gun Rights 2.0 Movement: Public policy consequences**, Robert Spitzer, State University of New York at Cortland
- **The effects of state laws regulating firearms on subsequent changes in firearm mortality**, Terry Schell, RAND Corporation
- **The cost of firearm injuries and fatalities in the United States, 2019**, Lois Lee, Boston Children's Hospital / Harvard University

# CONFERENCE SCHEDULE

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## 1:15-2:45 P.M. Concurrent Oral Presentations Continued

### *Concurrent Oral Presentation: Understanding and addressing disparities: Epidemiology and intervention (Part II) (Congressional Rooms)*

- **Long-term trends of firearm suicide among American Indian and Alaska Native young adult men, 1999-2020**, Amelia Mueller-Williams, University of California, Los Angeles
- **Rural Alaska Native perspectives about firearms, home storage practices and youth access**, Kelsey Porter & Avery Moje, University of Michigan
- **Racism experience and firearm injury risk among Asian Americans**, Hsing-Fang Hsieh, University of Michigan
- **Gun violence among female offenders and the risks of future prison violence**, Courtlyn Fields, Virginia Commonwealth University
- **A spatial analysis of intersectional forms of structural racism and firearm violence in Baltimore City**, Mudia Uzzi, Johns Hopkins University
- **The toll it takes: Concentrated disadvantage, local gun violence, and neighborhood health in 100 U.S. cities**, Daniel Semenza, Rutgers, The State University of New Jersey
- **Abandoned housing interventions and gun violence in low-income Black neighborhoods: A citywide cluster randomized trial**, Eugenia South, University of Pennsylvania

### *Concurrent Oral Presentation: Evaluating education and media campaigns in the field of firearm injury prevention (Capitol Room)*

- **Mass shootings and mass media: Test of the contagion hypothesis**, James Fox, Northeastern University
- **Becoming a gun violence survivor: Unpacking the relationship between experiences of gun violence and engagement in gun politics**, Jennifer Carlson, University of Arizona
- **Publication trends in gun violence research, 2021**, Kelly Drane, Giffords Law Center to Prevent Gun Violence
- **How Americans encounter guns: Mixed methods content analysis of YouTube and internet search data**, Megan Ranney, Brown University
- **Preventing firearm violence as a public good: A contingent valuation study in California**, Nicole Kravitz-Wirtz, University of California, Davis
- **Prepped and ready: Evaluating the impact on home firearm storage of a remotely-delivered and live parent education program**, Shayla Sullivant, University of Missouri Kansas City

## 2:45-3:00 P.M. Break

## 3:00-5:00 P.M. Closing Ceremony, Keynote and Awards (Blue Ballroom)

**Keynote:** Chico Tillmon, Executive Director of READI / Senior Research Fellow, University of Chicago Crime and Education Labs

# POSTER SESSION 1

November 30 / 5:15-6:15 P.M. / Hampton Ballroom

Poster #	Abstract Title	Name	Affiliation
1	State regulation of public carry, 1980–2020: From bans to permitless carry and NYSRPA v. Bruen	Alexander McCourt	Johns Hopkins University
2	State by state legislative action to the Sandy Hook mass shooting and analysis of subsequent legislative reaction	Deirdre Bowen	Seattle University
3	Improving causal inference in firearm policy research: A review of confounder selection	Julia Schleimer	University of Washington
4	The effects of firearm concealed carry licensing policies: Who do they affect and how?	Susan Parker	University of Michigan
5	The association of Permit-to-Purchase laws with intimate partner homicide	Stephen Oliphant	Michigan State University
6	Effect of Second Amendment Sanctuary Ordinances on firearm homicide and suicide rates	Burcu Kolcak	University of Illinois Chicago
7	Examining sleep problems as a mediator between adolescent firearm violence and depression in adulthood	Esther Lee	University of Michigan
8	Mental health comorbidities, household firearm ownership, and reported firearm access among children	Keith Hullenaar	University of Washington
9	Exploring personal crises observed in mass shooters for third-party detection and intervention using psychometric network analysis	Samuel West	Virginia Commonwealth University
10	Trajectories of handgun carrying in rural communities from early adolescence to young adulthood and their association with bullying and physical violence	Alice Ellyson	University of Washington
11	Rates and factors associated with firearm carrying among young adults presenting to four urban emergency departments	Philip Stallworth	University of Michigan
12	Implementing community-based youth firearm prevention: The True Reasons I Grabbed a Gun Evolved from Risks Project (TRIGGER)	Ebunoluwa Odueso	University of Michigan
13	Comparison of pediatric firearm related fatalities in intimate partner violence related homicides, familial homicides, and other child homicides	Kathryn Spearman	Johns Hopkins University
14	Reducing firearm access for youth at-risk for suicide in a pediatric emergency department	Sofia Chaudhary	Emory University / Children's Healthcare of Atlanta
15	Provider perspectives on trauma recovery & violence prevention resources for assault injured youth in an urban Level I Trauma Center	Symphony Fletcher	University of Chicago
16	Asking saves kids: a firearm injury prevention campaign in a suburban Cook County pediatric emergency department	Veena Hamill	Loyola University Chicago
17	Care management needs among assault-injured youth enrolled in a hospital-based violence intervention	Lynn Massey	University of Michigan
18	Development of a veteran led out-of-home firearm storage network: The Armory Project	Joseph Constans	Tulane University
19	The Firearm Implicit Association Test: A validation study	Claire Houtsma	VA Southeast Louisiana Healthcare System / Tulane University
20	Violent injury prevention across the lifespan: A single institution analysis of firearm related injuries in the elderly	Courtney Meyer	Emory University / Grady Health System
21	It doesn't add up: Performance of the Adverse Childhood Experiences (ACEs) questionnaire with Black male firearm violence survivors in a hospital-based violence intervention program	Nazsa Baker	New Jersey Gun Violence Research Center
22	An evaluation of community-based gun buyback programs: Informing communities and political leadership about people's reasons for turning in firearms	Pina Violano	Quinnipiac University

# POSTER SESSION 1

November 30 / 5:15-6:15 P.M. / Blue Pre-function Room

Poster #	Abstract Title	Name	Affiliation
23	Gun violence in the U.S. territories	Alex Nguyen	Giffords Law Center to Prevent Gun Violence
24	What to do when the person at risk is you: A qualitative study of firearm owning individuals	Christopher Knoepke	University of Colorado Denver
25	Gun shows and universal background check laws across state lines	Ariana Gobaud	Columbia University
26	Firearm injury surveillance discrepancies: A call for a national firearm injury registry	Fatima Elgammal	Rutgers, The State University of New Jersey
27	Risk factors among rising trends in firearm violence against children and adolescents	Fatima Elgammal	Rutgers, The State University of New Jersey
28	The impact of redlining on modern-day firearm injuries: A nationwide study of federal policy	Sarabeth Spitzer	Brigham and Women's Hospital / Harvard University
29	The impact of firearm ownership and conceal carry laws over time	Cassandra Crifasi	Johns Hopkins University
30	Predicting firearm type in firearm suicide deaths: Implications for policy evaluation	Emma Gause	University of Washington
31	Firearm and non-firearm self-defense homicides: National Violent Death Reporting System, 2003-2020	Katherine Fowler	Centers for Disease Control and Prevention
32	Violent vs. non-violent traumatic injury patients' engagement in technology-assisted stepped care mental health service at a Level 1 Trauma Center	Kelly O'Connor	Virginia Commonwealth University
33	Infections complications of pediatric firearm injury	Spandana Induru	Children's National Hospital
34	Medical visits related to firearm injuries increased during COVID-19	Rachel Chernet	SUNY Upstate Medical University
35	Suicide risk after surviving a self-inflicted gunshot wound: Qualitative interviews with next of kin	Andrew Schramm	Medical College of Wisconsin
36	Hospitalizations in the year prior to female firearm suicide: Linking Washington state Violent Death Reporting System to the comprehensive hospitalization Abstract Reporting System	Julian Takagi-Stewart	Drexel University / University of Washington
37	How firearm access impacts suicide among Wisconsin farmers	Sara Kohlbeck	Medical College of Wisconsin
38	Legal issues and firearm access as risk factors for firearm suicide in Wisconsin	Jacey Kant	Medical College of Wisconsin
39	Gun technology intervention in mitigating mass shootings	John Irungu	University of the District of Columbia
40	Fatal police shootings and community health in the United States, 2014-2018	Beidi Dong	George Mason University
41	Exploring the precursors and sequelae of firearm violence in adolescence and young adulthood	Annalyn DeMello	The University of Texas Medical Branch
42	Rural and urban adolescents' conceptualization of common firearm-related terms	Elizabeth Weybright	Washington State University
43	Project Resilience: Youth change agents for firearm violence prevention	Erica Payton	University of North Carolina at Greensboro
44	Impact of an AAP counseling platform on pediatric trainees compared to practicing clinicians	Kelsey Gastineau	Vanderbilt University Medical Center
45	Changing attitudes toward youth violence: The role of hospital-based violence interventions	Michel Aboutanos	Virginia Commonwealth University Medical Center
46	Correlates of student expulsion for firearm possession in Michigan public high schools	Rebecca Sokol	University of Michigan
47	Screening adolescent/young adult patients for gun violence risk at North Carolina primary care practices	Sanjay Batish	Batish Family Medicine
48	The age-graded interaction between individual propensity and situational factors associated with urban gun violence among a high-risk youth sample	Sultan Altikriti	Emmanuel College
49	Firearm related experiences in an ethnically diverse sample of young adults in the Southern United States	Jeff Temple	University of Texas

# POSTER SESSION 1

November 30 / 5:15-6:15 P.M. / Blue Pre-function Room

Poster #	Abstract Title	Name	Affiliation
50	Understanding illicit firearm ownership among Black individuals	Esprene Liddell-Quintyn	Rutgers, The State University of New Jersey
51	Gender differences in weapon types used in fatal interpersonal violence-related homicides in Chicago, IL from 2015 to 2020	Regina Royan	Northwestern University
52	The association between community violence exposure and parental firearm ownership	Karissa Pelletier	University of Michigan
53	Gun ownership, storage practices and suicide risk in U.S. Army active-duty servicemembers	Catherine Dempsey	Uniformed Services University of the Health Sciences; Henry Jackson Foundation for the Advancement of Military Medicine
54	Women veterans' perspectives, experiences, and preferences discussing firearms in the context of lethal means safety	Evan Polzer	University of Colorado Anschutz
55	Veterans' perspectives of firearm safety discussions in the VA Healthcare System	Megan Lafferty	VA Portland Healthcare System
56	Determining who military service members deem credible to discuss firearm safety for suicide prevention	Allison Bond	Rutgers, The State University of New Jersey
57	Predicting violent crime among handgun purchasers in California using handgun purchase trends and criminal histories	Aaron Shev	University of California, Davis
58	What lessons can we learn on how to improve evaluations from the evaluations of Australia's National Firearms Agreement?	David Hemenway	Harvard University
59	Evaluating firearm data collection improvement strategies of the South Carolina Violent Death Reporting System	Marlene Al-Barwani	South Carolina Department of Health and Environmental Control
60	Research-practitioner partnerships to develop data-informed approaches to CVIs	Angelica D'Souza	Northwestern University
61	Nothing about us without us: A community-focused study of gun violence prevention work in New Haven, CT	Jania Stewart-James and Camila Gripp	Yale University
62	Target practice: Firearm injury prevention skill development using standardized patient encounters	Jennifer West	University of Rochester
63	Firearm Injury Risk Screening and Treatment (FIRST) Pilot Study: Results of a counseling based intervention for emergency department patients	Lauren Hudak	Emory University
64	Successes, challenges, and solutions to creating firearm storage maps for voluntary, temporary out-of-home firearm storage: Results from a qualitative study	Leslie Barnard	University of Colorado Anschutz Medical Campus
65	Innovative initiative as a model for universities to increase interest in and activity around preventing firearm injuries research	Justin Heinze	University of Michigan
66	Responsible firearm storage: Firearm Lethal Access Matters Evaluation (FLAME) Program feasibility & validation study	Bertrand Berger	VA Medical Center, Milwaukee
67	Stakeholders' perspectives on improving the acceptability of lethal means counseling	Gabriela Khazanov	University of Pennsylvania
68	Acceptability of a newly implemented suicide prevention module among concealed firearm permit instructors	Mary Vrinotis	Harvard University
69	A systematic review of recurrent firearm injury rates in the United States	Kristen Mueller	Washington University in St. Louis
70	The importance of psychopathy in understanding risk of gun violence.	Nicholas Thomson	Virginia Commonwealth University
71	The economic value of research on gun policy: A model-assisted estimate	Stephen Newbold	University of Wyoming
72	Survey results from firearm business owners involved in the Colorado Gun Shop Project: Factors associated with denying firearm sales to individuals in crisis	Sabrina Arredondo Mattson	University of Colorado Boulder
73	Analysis of "Stand Your Ground" self-defense laws and state-wide rates of homicides and firearm homicides	Michelle Degli Esposti	University of Michigan
74	Viewing firearm danger through the lens of police officers	William Terrill	Arizona State University
75	Developing a community-academic partnership to address gun violence	R. Thurman Barnes	Rutgers, The State University of New Jersey, The State University of New Jersey

# POSTER SESSION 2

December 1 / 12:15-1:15 P.M. / Hampton Ballroom

Poster #	Abstract Title	Name	Affiliation
1	Impact of state-level preemption of local firearm ordinances on firearm mortality rates in five Pennsylvania counties	Giselle Babiarz	Philadelphia Department of Public Health
2	Effects of the Pelotas Pact for Peace on violence and crime in southern Brazil: A synthetic control analysis	Michelle Degli Esposti	University of Michigan
3	Where are the guns? Evaluating gun prevalence measures and their connection with homicides using gun sales data	David Johnson	University of Central Missouri
4	Gun violence and alcohol abuse in patients with serious mental illness	Ade Mason	Virginia Commonwealth University
5	Variance in state mental health firearm prohibition laws: A 50-state analysis	Deirdre Bowen	Seattle University
6	Risk for future suicide after surviving a medically serious self-inflicted gunshot wound	Andrew Schramm	Medical College of Wisconsin
7	Talking with patients about firearms: means safety and suicide prevention may offer important inroads	Anne Massey	University of Washington
8	Building a natural language processing pipeline to characterize female firearm suicides using National Violent Death Reporting System Data: Troubleshooting and lessons learned	Evan Goldstein	University of Utah
9	Does allowing firearms on college campuses increase the risk of student suicide?	Marjorie Sanfilippo	Eckerd College
10	Circumstances of firearm suicide among U.S. Black youth	Erin Kelly	University of Colorado Anschutz Medical Campus
11	A systematic review of lethal means counseling in clinical settings	Gabriela Khazanov	VA Boston Healthcare System, Harvard Medical School
12	The Mass Attacks Defense Toolkit: Advancing efforts to prevent and mitigate mass shootings and other mass violence	John Hollywood	RAND Corporation
13	Law enforcement officer use-of-force, prevalence, trends, and correlates: National survey results	Bruce Taylor	University of Chicago
14	Fatal and nonfatal shootings by police in the United States, 2015-2020	Julie Ward	Johns Hopkins University
15	The effects of exposure to firearm violence on post-traumatic stress symptoms among adolescents: A scoping review	Esther Lee	University of Michigan
16	Provider documentation of trauma-informed care in hospitalized youth assault trauma patients in an Urban Academic Quaternary Care Center	Insia Zufer	Johns Hopkins University
17	Trends in youth risk behaviors and firearm injury in the U.S. over 20 years	Justin Hatchimonji	University of Pennsylvania
18	Examining the associations between proactive and reactive aggression with gun violence among youth with Conduct Disorder	Laura Hazlett	Virginia Commonwealth University
19	Baseline characteristics of adolescent youth seeking emergency department treatment for an assault injury	Laura Seewald	University of Michigan
20	Using a difference-in-differences approach to examine the impact of child access prevention laws on youth firearm suicides	Mark Gius	Quinnipiac University
21	Effects of gun safety videos and gun violence in movies on whether children handle real guns	Sophie Kjaervik	The Ohio State University
22	Extreme Risk Protection Orders issued against minors: Findings from six states	Veronica Pear	University of California, Davis

# POSTER SESSION 2

December 1 / 12:15-1:15 P.M. / Blue Pre-function Room

Poster #	Abstract Title	Name	Affiliation
23	Community-engagement and coalition-building to promote lethal means safety and prevent veteran firearm suicide	Gala True	VA Southeast Louisiana Healthcare System / Louisiana State University Health Science Center
24	Validation of the Gun Belief and Behavior Scale with a U.S. veteran sample	Joseph Constans	Tulane University
25	Differences in firearm storage practices among United States military service members who have and have not disclosed suicidal thoughts or attended behavioral health sessions	Michael Anestis	Rutgers, The State University of New Jersey
26	Application of a new conceptual model of help seeking for survivors of community gun violence	Caterina Roman	Temple University
27	Improving the capacity of hospital ED data systems to track firearm injuries	Catherine Barber	Harvard University
28	The effects of school shootings on firearm acquisition and carrying	Susan Parker	University of Michigan
29	Challenges and opportunities in police data measurement of nonfatal firearm injury	Susan Parker	University of Michigan
30	Methodological challenges and promising tools for research evaluating the impacts of social policies on firearm injury	Ellicott Matthay	New York University
31	The Harms and Benefits Inventory (HBI): Development of a validated survey-based measure to understand the impact of policy on gun users	Mitchell Doucette	Johns Hopkins University
32	Measuring firearm-related violent crime using Criminal Legal System records: Challenges and opportunities	Julia Schleimer	University of Washington
33	Rural-urban variation in youth violence and handgun carrying in the United States, 2002-2019	Julia Schleimer	University of Washington
34	Acute and recurrent firearm injury rates in an urban population (2010-2021): Using machine learning to improve classification	Kristen Mueller	Washington University in St. Louis
35	Identifying needs among victims of violence: Findings from 1-year hospital-based violence intervention program pilot	Ashley Raposo-Hadley	University of Nebraska Medical Center
36	The importance of accurate local surveillance for firearm injury prevention.	Cary Cain	Baylor University
37	Older adults and firearm safety: Factors associated with making plans to adopt new safety behaviors across transtheoretical model stages of change	Christopher Knoepke	University of Colorado Denver
38	Adaptation and evaluation of a lethal means safety suicide prevention module for concealed carry courses	Claire Houtsma	VA Southeast Louisiana Healthcare System / Tulane University
39	Assessing feasibility and acceptability for implementing a hospital-based violence intervention program for Black men in Arkansas: Medical provider perspectives	Heather Horton	University of Arkansas for Medical Sciences
40	Equitable implementation of S.A.F.E. firearm	Katie Hoskins	University of Pennsylvania
41	Assessing the feasibility and impact of a firearm safety intervention in the retail and range environment: A qualitative study of employee perceptions	Mike Henson-Garcia	The University of Texas
42	Participatory action research with the firearms community: An evaluation of the Colorado Gun Shop Project	Stesha Peacock	University of Colorado Boulder
43	Measures of school connectedness and social support serve as protective factors against weapon violence and firearm carrying	Teja Pulavarthi	University of Pittsburgh
44	Emerging strategies to incorporate firearm injury prevention into healthcare: Results of qualitative interviews with providers and patients	Lauren Maxim	VA Portland Healthcare System
45	"A Good Way to Start a Dialogue" patient and provider perceptions of a standardized question about firearm access to support suicide prevention	Julie Richards	University of Washington
46	Positive education and positive youth development frameworks for gun violence prevention	Sarina Alavi	Columbia University
47	Analysis of rural and urban patients treated for firearm injuries in 131 U.S. Trauma Centers	Ashley Hink	Medical University of South Carolina

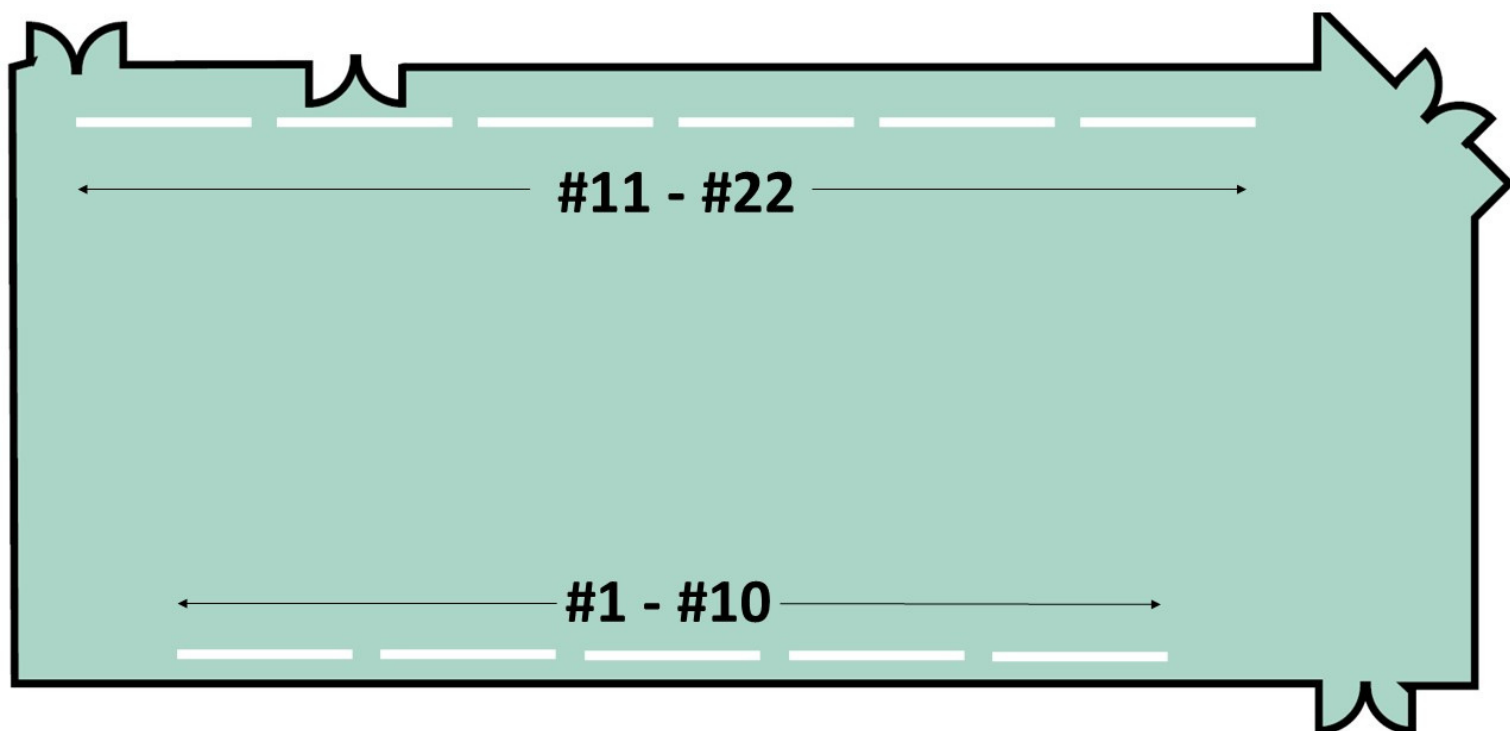
# POSTER SESSION 2

December 1 / 12:15-1:15 P.M. / Blue Pre-function Room

Poster #	Abstract Title	Name	Affiliation
48	Fatalities and nonfatal emergency department visits for firearm-related injury in North Carolina from 2010-2017	Catherine Wolff	University of North Carolina at Chapel Hill; Duke University
49	The impact of structural racism on violent crime: A multi-city analysis	Christina Mehranbod	Columbia University
50	Drug/gang related pediatric firearm mortality in Milwaukee, Wisconsin 2010-2020	Erica Marion	Medical College of Wisconsin
51	The toll of nonfatal gunshot injuries	Erica Mullen	Everytown for Gun Safety Support Fund
52	Violent death rates: A comparison of the U.S. to the other high-income countries, 2018	Erin Grinshteyn	University of San Francisco
53	Violence still unrelenting: An analysis of two decades and 12,088 gunshot wounds at a Level I Trauma Center	Fatima Elgammal	Rutgers, The State University of New Jersey
54	The language of violence: Do words matter more than we think?	Leah Tatebe	Northwestern University
55	Accounting for socio-economic context in quantifying the attractive and repellent influence of built environment on firearms violence in multiple cities	Luke Muggy	RAND Corporation
56	Persistent, elevated, and increasing: gun violence in American "Micropolitan" cities, from 2015-2021	Magic Wade	University of Illinois Springfield
57	Social vulnerability and firearm violence in Chicago	Michael Poulson	Boston Medical Center / Boston University
58	Firearm death and injury in Canada and the USA: Implications for policy and practices	Wendy Cukier	Toronto Metropolitan University (formerly Ryerson University)
59	Social networks and experiences of firearm violence among Black youth	Alexander Riley	University of Pittsburgh; UPMC Children's Hospital of Pittsburgh
60	The impact of COVID-19 on gun violence	Ariel Wood	Virginia Commonwealth University Medical Center
61	Trends in firearm-related emergency department visits before and during the COVID-19 pandemic: Findings from NC-FASTER, 2019-2021	Lucas Neuroth	University of North Carolina at Chapel Hill
62	State gun policy and spikes in gun deaths in the COVID-19 pandemic	Wilson Hammett	University of California, Los Angeles
63	Examining characteristics and experiences of Black firearm owners	Allison Bond	Rutgers, The State University of New Jersey, The State University of New Jersey
64	What preferences for firearm locking devices exist among firearm owners? Findings from a systematic review and discussion of implications for research and practice	Jessica Buck-Atkinson	University of Colorado Anschutz Medical Campus
65	Personal preferences and experiences with out of home firearm storage in Colorado and Washington State	Megan McCarthy	University of Colorado Anschutz Medical Campus
66	Interactions at the point of firearm purchase and subsequent use of locking devices	Shelby Bandel	Rutgers, The State University of New Jersey, The State University of New Jersey
67	Gun ownership and suicide among Black Americans	David Hemenway	Harvard University
68	Perceived risk of household firearm ownership: Evidence for optimism bias and implications for intervention	Amanda Aubel	University of California, Davis
69	Effect of gun ownership on violence: A division-level longitudinal analysis in the USA	Jacob James Rich	Case Western Reserve University
70	Racial and ethnic disparities in firearm injury during COVID-19 in a Midwestern Metropolitan area	Constance Kostelac	Medical College of Wisconsin
71	Perception and application of spirituality among Black male survivors of firearm violence	Augustine Cassis O. Boateng	University of Pennsylvania
72	Not reporting gun victimization to the police: An analysis of crimes perpetrated against women by their intimate partners 1993-2021	Eugenio Weigend Vargas	University of Michigan
73	A critical appraisal of the evidence on the gender-based impacts and experiences of stand your ground laws	David Humphreys	University of Oxford

# POSTER SESSION MAPS

## HAMPTON BALLROOM



# POSTER SESSION MAPS

## BLUE PRE-FUNCTION ROOM

