

# Columbia Center for Injury Science and Prevention Symposium

Thursday, May 6, 2021: 10:00 AM -4:00 PM



**Keynote Speaker:**  
Ekow Yankah, JD Professor of Law

**Punishment, Race & Social Bonds:  
A History of Law Enforcement in America**

Register here: [https://columbiacuimc.zoom.us/webinar/register/WN\\_4wWcrOgjRVOaoj8sNXt1QQ](https://columbiacuimc.zoom.us/webinar/register/WN_4wWcrOgjRVOaoj8sNXt1QQ)



Welcome  
to the  
Columbia Center for Injury Science and Prevention  
Ninth Annual Symposium

Dr. Charles Branas  
Center Director

# Agenda: Part 1

**Welcome** 10:00  
Charles Branas:

**Presentations:** 10:10

## Equity in Injury and Violence Prevention 1

**Positive childhood experiences promote resilience and recovery in the face of adversity and creativity**  
*Danielle Laraque-Arena/Robert Sege*

**Re-prioritizing traffic stops to reduce motor vehicle crash outcomes and racial disparities**  
*Mike Dolan Fliss*

**Keynote** 11:15  
**Punishment, Race & Social Bonds: A History of Law Enforcement in America**  
*Ekow Yankah*

**Break (45 minutes)** 12:15

**Updates from our Partners** 1:00

*Columbia Scientific Union for the Reduction of Gun Violence (SURGE) Sonali Rajan*  
*Trauma Free NYC Virginia Rauh*  
*Injury Free Coalition for Kids Estell Johnson*  
*Northeast Caribbean Injury Prevention Network Cindy Rodgers*

# Agenda Part 2: Breakout Roundtables with Best Practices Discussion (Select one)

*Older adult falls prevention: Successful program pivots during COVID* Hillary Faas/Ayden Jones/Kristi Ladowski

*Fostering resilience: Adverse and positive childhood experiences* Danielle Laraque-Arena/Bob Sege

*Advances and challenges in transportation safety* Joyce Pressley/Michael Bauer /Mike Fliss

*Gun violence and advances in firearm safety* Sonali Rajan/Nina Agrawal

*Substance use and abuse* Silvia Martins/Elsen Jacob

*Injury Prevention Day: Plans for year 2* Estell Johnson

# 2021 Zoom Breakout Roundtables with Best Practices Discussion

(Use Zoom Link to Join at 1:30 pm)

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## **1. Older adult falls prevention: Successful program pivots during COVID**

Hillary Faas/Ayden Jones/Kristi Ladowski

<https://us02web.zoom.us/j/81803349430> Meeting ID: 818 0334 9430 Phone: 1 646 558 8656

## **2. Fostering resilience: Adverse and positive childhood experiences**

Danielle Laraque-Arena/Bob Sege

<https://us02web.zoom.us/j/83338455732?pwd=d1NuQThtRmxLWms1dGI1UFlwQ01YUT09>

Meeting ID: 833 3845 5732 Passcode: 1216 Phone: 1 646 558 8656

## **3. Advances and challenges in transportation safety**

Joyce Pressley/Michael Bauer /Mike Fliss

<https://us02web.zoom.us/j/8546935844?pwd=eDY0L3poamZXU3AvWlQvZ0c1RE1sUT09>

Meeting ID: 854 693 5844 Passcode: 313999 Phone: 1-929-205-6099

## **4. Gun violence and advances in firearm safety**

Sonali Rajan/Nina Agrawal

<https://teacherscollege.zoom.us/j/95100213592?pwd=ZURvUmpacTVtUXAyZ1c1VThlQVBxUT09>

Meeting ID: 951 0021 3592 Passcode: 898711 Phone: 1-929-436-2866

## **5. Substance use and abuse**

Silvia Martins/Elsen Jacob

<https://columbiacuimc.zoom.us/j/91674138758?pwd=dlhjb1VsYlhyczVLUXkvd3pwKzUyUT09>

Meeting ID: 916 7413 8758 Passcode: 724807 Phone: 1646-558-8656

## **6. Injury Prevention Day: Plans for year 2**

Estell Johnson

<https://columbiacuimc.zoom.us/j/97690878131?pwd=bGJ2ZE91MS9QMkJiTDBLbGV0eWlXUT09>

Meeting ID: 976 9087 8131 Passcode: 230054 Phone: 1-646-558-8656

# On Lunch Break: Program Resumes at 1:00 PM

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# Updates to Injury and Violence Prevention From Our Partners



# Columbia Scientific Union for the Reduction of Gun Violence

Columbia Center for Injury  
Science and Prevention

*2021 Annual Meeting*





# SURGE

*Scientific Union for the  
Reduction of Gun Violence*

## **SURGE Vision:**

*More science, less violence – making scientific solutions to gun violence a top priority at Columbia and for the nation.*

## **SURGE Mission:**

- *To generate new science and train new scientists in the area of gun violence prevention;*
- *To promote scientific investment and academic freedom in the search for solutions to gun violence;*
- *To produce and promote the implementation of scientific solutions that have been shown to reduce gun violence.*

# Interdisciplinary Research

- Over 18 academic disciplines (ranging from epidemiology to school psychology to neuroscience to social work) are represented by three dozen faculty across Columbia University.
- SURGE faculty are engaged in rigorous research in multiple areas (including firearm suicide, school shootings, police violence, mass shootings, community gun violence, and firearm policy).

**A New Collaboration Called SURGE Brings Together Experts Across Columbia to Focus on Gun Violence**

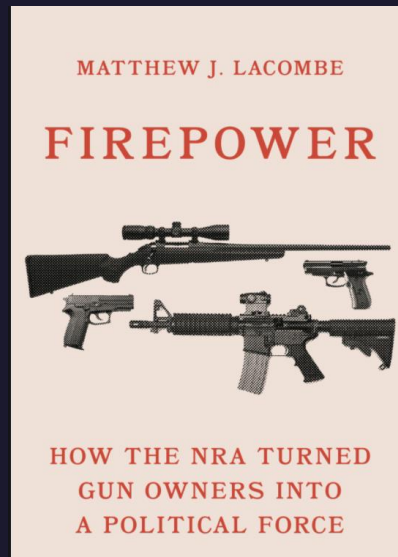


# A thaw in the freeze on federal funding for gun violence and injury prevention research

The CDC and NIH have awarded grants for firearms research for the first time in more than 20 years

## The Next 100 Questions: A Research Agenda For Ending Gun Violence

DECEMBER 2020



## REDUCING VIOLENCE WITHOUT POLICE: A REVIEW OF RESEARCH EVIDENCE

NOVEMBER 9, 2020

## Beyond Gun Laws—Innovative Interventions to Re- duce Gun Violence in the United States


Charles C. Branas, PhD<sup>1</sup>; Paul M. Reeping, MS<sup>1</sup>; Kara E. Rudolph, PhD<sup>1</sup>

## Youth Gun Violence Prevention in a Digital Age

Desmond Upton Patton <sup>1</sup>, Kyle McGregor <sup>2 3</sup>, Gary Slutkin <sup>4</sup>

Article | Published: 07 April 2021

## Age, period, and cohort effects on suicide death in the United States from 1999 to 2018: moderation by sex, race, and firearm involvement

Gonzalo Martínez-Alés , John R. Pamplin II, Caroline Rutherford, Catherine Gimbrone, Sasikiran Kandula, Mark Olsson, Madelyn S. Gould, Jeffrey Shaman & Katherine M. Keyes

# Translational Efforts

COMMUNITY HEALTH, HEALTHCARE POLICY **Oct. 26 2020**

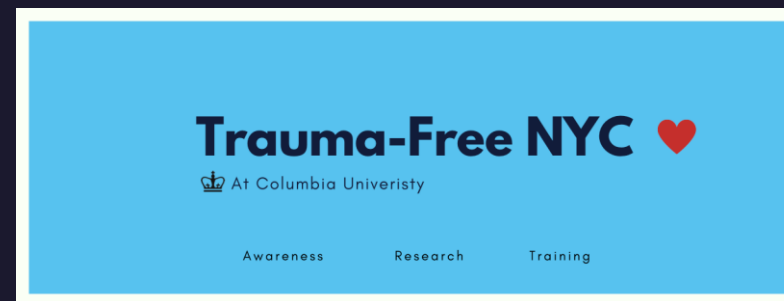
## State Gun Laws May Help Curb Violence Across State Lines: Study

### Podcasting with Experts to Interrupt Dominant Narratives

By Azsanee Truss, Joe Riina-Ferrie, Sonali Rajan, and Lalitha Vasudevan

### New Research on Mass Shootings: Banning Large-Capacity Magazines Substantially Lowers Fatalities

A study led by TC's Louis Klarevas provides powerful numbers



◀ ▶ ▶ (Re)Search for Solutions

**Episode 5: Security Studies and Guns**  
 What if we considered gun violence as an issue of national security? Increasingly, terrorist groups, and specifically white supremacist extremist terrorists, have been turning to guns...  
 ▶ Oct 2020 · 25 min

**Episode 4: This Is Our Lane (Re-release)**  
 Episode 4 of (Re)Search for Solutions reflects on the crucial role emergency medicine physicians, who are on the front lines of responding to firearm injuries, play in developing...  
 ▶ Oct 2020 · 29 min

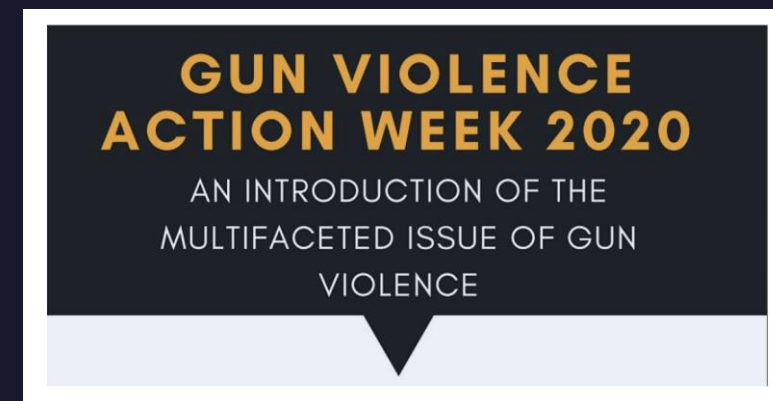
**Episode 3: Firearm Suicide Prevention (Re-release)**  
 In Episode 3 of (Re)Search for Solutions, we discuss firearm suicide prevention. Firearm suicides make up about two-thirds of deaths by firearms, but suicide is sometimes...  
 ▶ Oct 2020 · 25 min

**Episode 2: Adverse Childhood Experiences and School Safety (Re-release)**  
 In Episode 2 of (Re)Search for Solutions, we talk about adverse childhood experiences, or "ACEs," and how they can help us think more broadly about the impacts of gun violence...  
 ▶ Oct 2020 · 22 min

**Episode 1: Cleaning & Greening (Re-release)**

# Training Future Scholars

- Graduate-level courses offered across the university on gun violence and public health, social policy, spatial epidemiology, adverse childhood experiences, the legal regulation of firearms, and other areas.
- Multiple doctoral and master's-level students pursuing dissertations and theses with SURGE faculty in the area of gun violence
- Gun Violence Action Week 2020
  - Student-led initiative



# SURGE Scientists in the News



2020 Was A Record-Breaking Year For Gun-Related Deaths In The U.S



'Interrupters' Peek at Social Media to Stop Street Violence



Fewer Black Civilians Killed by Police in Cities with More Black Officers



The Other Side of "Broken Windows"



Gun Research is Suddenly Hot



Banning Large-Capacity Gun Magazines Could Reduce Mass Shooting Deaths



# Looking Forward

- New research studies, collaborations, translational efforts
- University-wide event in Spring 2022
- Increased engagement with our students
- Funding sources: Tow Foundation; Teachers College Provost's Research Grant
- To learn more about SURGE, please visit our website: [www.columbiasurge.org](http://www.columbiasurge.org)



*Special thanks to Zahra Ladhani,  
EdD candidate in the Department of Health and Behavior Studies*

# Promoting awareness, research and training about the effects of trauma and sources of resilience

## Contacts:

- Virginia Rauh, ScD, [var1@cumc.columbia.edu](mailto:var1@cumc.columbia.edu)
- Danielle Z. Kassow, PhD, Senior Program Officer for TFNYC, [dzk2103@cumc.columbia.edu](mailto:dzk2103@cumc.columbia.edu)



## Our History

- Founded in 2017, we are a CU-based initiative focused on identifying and promoting trauma-informed practices and policies in New York City
- An interdisciplinary group of faculty led by MSPH with representatives from Teachers College, Psychology, Epidemiology, Developmental Psychobiology, and the DART Center for Journalism & Trauma
- Launch Event with Dr. Nadine Burke Harris in 2018
- ACEs Service-Learning Course launched in 2019
- Annual Speaker Series



## Why study trauma?

- Recent scientific advances have led to a better understanding of how exposure to early life adversity, chronic stress, and trauma can negatively impact the brain across the lifespan.
- Adverse Childhood Experiences (ACEs) impact health and well-being: increased risk of heart disease, diabetes, substance abuse, depression, involvement with the juvenile and criminal justice system, and suicidality.
- The consequences of ACEs are costly to society, yet the prevention of ACEs in the early years is daunting.

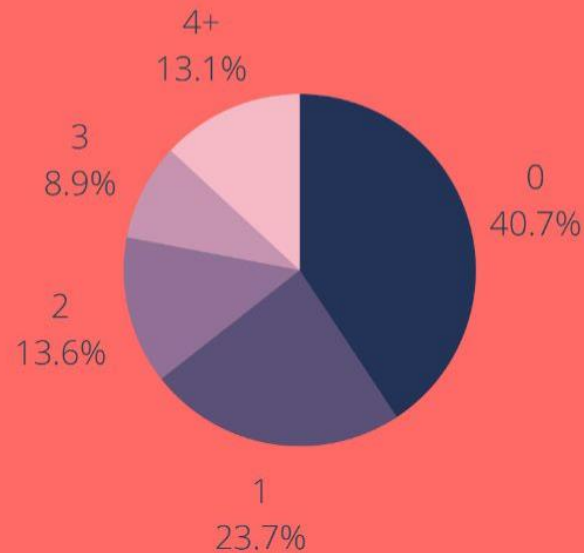




## COST BURDEN OF ACES IN NEW YORK STATE

Nyla Lindo, Jocelyn Valdez, Tehya Boswell

### AVERAGE ACE SCORE AMONG NYS ADULTS (2016)



(8)



## ECONOMIC IMPACT

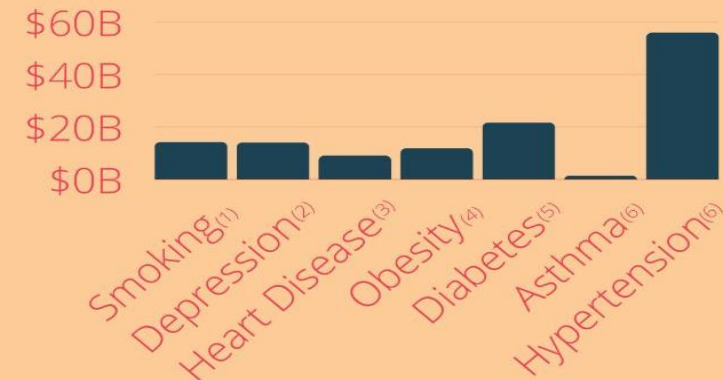
### \$748B

The estimated cost of ACE-related health outcomes in the United States annually. (7)

### \$128B

The estimated annual cost ACE-related health outcomes in New York State alone is \$128 billion in direct health care costs and loss of production costs. (1,2,3,4,5,6)

### ESTIMATED ANNUAL COST BURDEN OF ACE-RELATED HEALTH OUTCOMES IN NYS



1. NY Smoke Free; 2. Crains New York; 3. American Heart Association; 4. Office of the State Comptroller NY; 5. American Diabetes Association; 6. NYC Health EpiQuery; 7. The Lancet; 8. NY State Dept. of Health

# 3 Realms of ACEs

Adverse childhood and community experiences (ACEs) can occur in the household, the community, or in the environment and cause toxic stress. Left unaddressed, toxic stress from ACEs harms children and families, organizations, systems and communities, and reduces the ability of individuals and entities to respond to stressful events with resiliency. Research has shown that there are many ways to reduce and heal from toxic stress and build healthy, caring communities.



Thanks to [Building Community Resilience Collaborative and Networks](#) and the [International Transformational Resilience Coalition](#) for inspiration and guidance. Please visit [ACEsConnection.com](https://www.acesconnection.com) to learn more about the science of ACEs and join the movement to prevent ACEs, heal trauma and build resilience.

## What We Do

1. Serve as a **scientific advisor and resource** to policymakers, practitioners and the public in New York City
2. Promote **research and demonstration activities** on the meaningful solutions to mitigate the harmful effects of childhood adversity
3. Design **educational, training and service-learning programs** in trauma-informed practices at Columbia University

## Our Accomplishments

### 1. Education and Service Learning

Annual Spring Course: ACEs and TIC: An Interprofessional Service-Learning Experience

- Students trained in 3 years = **60**
- Agencies served in NYC across 3 years = **43**
- Spring 2019, in partnership with NYC Administration for Children's Services, our students trained almost **800** frontline workers across NYC in just **6 weeks** (early childhood teachers and assistant teachers)

### 2. Trauma-Free NYC Student Advocate Group

A self-formed self-run group that began during the 2019-2020 academic year that organizes guest speakers, film nights, and volunteer opportunities for students across the CU community (MSPH, VP&S, Morningside campus + more)

### 3. Annual Speaker Series with average audience size = 150

*Most recent event:*

The First 1000 Days of Life: Setting the Stage for Equity

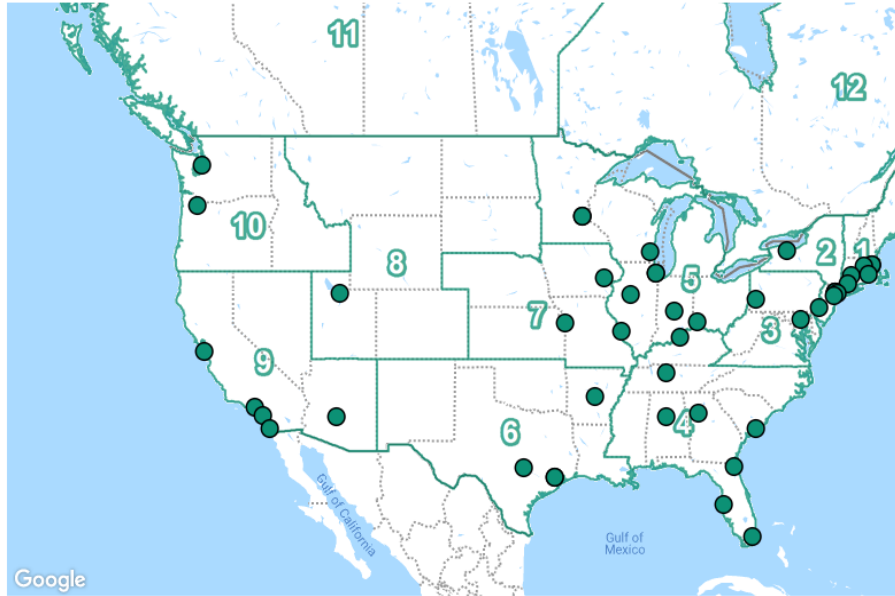
**Brenda Blasingame**, Program Officer at J.B. and M.K. Pritzker Family Foundation, Pritzker Children's Initiative

To watch the event, scan the QR code at the bottom right corner of this page with your phone's camera

or visit <https://www.youtube.com/watch?v=Zd4RekzXOCl>



## Injury Free Member Sites



## Shine a green light on Injury Prevention Day November 18, 2020



- Injuries are a leading cause of death and hospitalization to US children
- Injuries are preventable
- Help light the way toward childhood injury prevention



For more information go to: [www.injuryfree.org](http://www.injuryfree.org)



# Raising Awareness Together...

## Injury Prevention Day Activities

- Injury Prevention outreach programs in 25 cities
- 100 Green Lights Shining
- 18 Government Proclamations
- Twitter Chat: #BeInjuryFree
  - 3,741 Posts
  - 911 Users
  - 6296 Interactions with the posts
  - 4,107,877 Projected people who saw
- The Injury Free Handle had
  - 124 Posts
  - 1,842 Engagements
  - 228,271 Potential Views

## Outcomes

- Media coverage was obtained in 38 venues across the country
- The visibility and value of Injury Prevention was raised where Injury Free Sites are housed. Relationships were built within institutions, between injury prevention organizations, with educational institutions and with elected officials and government agencies.
- Needs of individuals and families in economically challenged communities were served.
- The foundation was laid for future observations.



*Shine a green light on*

# National Injury Prevention Day

**November 18, 2021**

## 2021 Committed Partners

- America Trauma Society
- American Academy of Pediatrics
- Everytown for Gun Safety
- Safe Kids Worldwide
- Safe States Alliance
- Trauma Centers for America Association
- SAVIR: Society for Advancement of Violence and Injury Research



## **PREVENTION MATTERS**

- ☂ Injuries are the leading cause of hospitalization and death of kids & their family members
- ☂ Injuries are preventable
- ☂ You can help light the way toward injury prevention

For more information go to: [www.injuryfree.org](http://www.injuryfree.org)

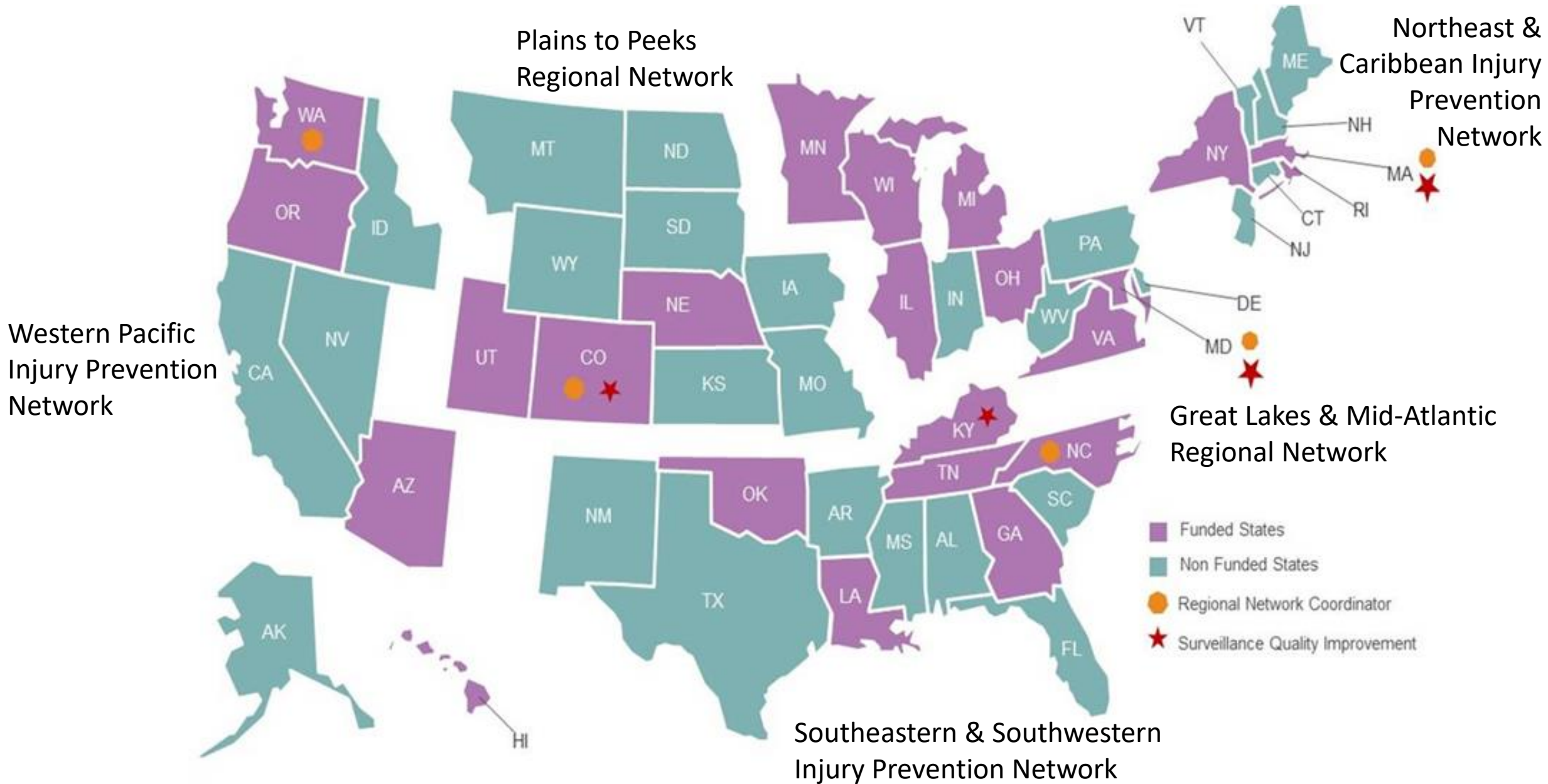


**Northeast and Caribbean**  
— **Injury Prevention Network** —

Columbia Center for Injury Science and Prevention

Annual Symposium – May 6, 2021

Cindy Rodgers [crodgers@edc.org](mailto:crodgers@edc.org)



# What Does the Network Provide?

- Opportunity for networking with other injury prevention professionals who face similar challenges & are working to address similar issues.
- Place to
  - share current information
  - discuss challenges
  - learn from one another
  - identify emerging issues
  - identify best practices
- Opportunity for development of cross-state projects and solutions.



# **AGENDA PART 2: ROUNDTABLE DISCUSSIONS**

Breakout  
Roundtables  
with  
Best Practices  
(Select one)

*Older adult falls prevention: Successful program pivots during COVID*

Hillary Faas/Ayden Jones/Kristi Ladowski

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*Fostering resilience: Adverse and positive childhood experiences*  
Danielle Laraque-Arena/Bob Sege

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*Advances and challenges in transportation safety* Joyce Pressley/Michael Bauer /Mike Fliss

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*Gun violence and advances in firearm safety*  
Sonali Rajan/Nina Agrawal

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*Substance use and abuse*  
Silvia Martins/Elsen Jacob

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*Injury Prevention Day: Plans for year 2*  
Estell Johnson

# 2021 Zoom Breakout Roundtables with Best Practices Discussion

## (Use Zoom Link to Join)

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