NIJ-funded Research on Mass Shootings to Advance Evidence-based Policy and Practice

November 30, 2021 | 1:00 PM ET

The webinar will begin shortly



Important Notification

The research projects presented here are supported by Awards 2019-R2-CX-0003, 2018-75-CX-0025, IAA 20RO0004 from the National Institute of Justice of the U.S. Department of Justice.

The opinions, findings, and conclusions or recommendations expressed here are those of the authors and do not necessarily reflect the positions or policies of the Department of Justice.



Overview of NIJ research investment on mass shootings



Estimating the Global Prevalence of Mass Public Shootings

Grant Duwe, Ph.D. November 2021

NIJ Webinar

Presentation Overview

- Provides preliminary results from our study (in progress)
 - "Estimating the Global Prevalence of Mass Public Shootings" by Grant Duwe, Nathan Sanders, Michael Rocque and James Alan Fox
- Study addresses the following key questions
 - What is the worldwide prevalence of mass public shootings?
 - What percentage of mass public shootings occur in the United States?
- Prior Research
- Data and Proposed Methodology
- Preliminary Findings

Prior Research

- Widely divergent findings about U.S. proportion of cases
- Lankford (2016)
 - U.S. accounts for 31% of mass public shootings from 1966-2012
 - U.S. makes up 4% of world's population
- Lott and Moody (2019)
 - U.S. accounts for only 3% of mass public shootings from 1998-2012
 - Included terrorism and genocide
- Lankford (2019)
 - Most of L&M's dataset involved incidents with multiple offenders
 - Usually not considered mass public shootings
 - U.S. = 30% of single-offender attacks

Limitations with Prior Research

- Sole reliance on news coverage as data source
 - Lankford (2016) → news archive and internet searches
 - Published lists have also relied strictly on news coverage
 - Lankford → NYPD Active Shooter
 - Lott and Moody → Global Terrorism Database
- News coverage-only data collection strategy = missing cases
 - Research using news reports <u>and</u> FBI's Supplementary Homicide Reports (SHR) have achieved more complete datasets
 - USA Today (Overberg et al., 2013)
 - Congressional Research Service (Krause et al., 2015)
 - Fox, Duwe and Rocque (FDR)
- Relatively large # of U.S. cases missing from Lankford and Lott/Moody datasets
 - Comparison with FDR data from 1976-2012 period
 - Implications for measuring prevalence of non-U.S. cases

Defining Mass Public Shootings

- Mass Murder
 - Incidents in which 4 or more victims are killed within 24-hour period
- Mass Shooting
 - Any gun-related mass murder
- Mass public shooting
 - Incidents in which 4 or more victims are killed with a gun in a public location
 - Exclude cases in connection w/ other criminal activity, military conflicts or collective violence
 - Many of the cases included by Lott and Moody (2019) would be classified as mass murders/shootings but not as mass public shootings
 - Similar to definition used by Lankford (2016, 2019)

The Lankford and Lott/Moody Datasets

- Lankford (2016)
 - 292 mass public shootings from 1966-2012
 - 89 in the U.S.
 - 84 from 1976-2012
 - 82 actually meet mass public shooting criteria
 - 203 non-U.S. cases
 - Dataset includes "...all known mass shooters who attacked anywhere on the globe from 1966 to 2012 and killed a minimum of four victims." (p. 2)
- Lott and Moody (2019)
 - 1,491 incidents from 1998-2012
 - 43 in the U.S.
 - 42 actually meet mass public shooting criteria
 - "We are confident that we have all the public mass shootings for the U.S. and perhaps for Europe." (p. 52)

A Comparison of Three Datasets

- Fox, Duwe and Rocque (FDR) Dataset
 - 165 mass public shootings in U.S. from 1976-2020
- 1976-2012 period for U.S. mass public shootings
 - FDR = 124 mass public shootings
 - Lankford = 82
 - Missing 34% (N = 42)
- 1998-2012 period for U.S. mass public shootings
 - FDR = 67 mass public shootings
 - Lott and Moody = 42
 - Missing 37% (N = 25)

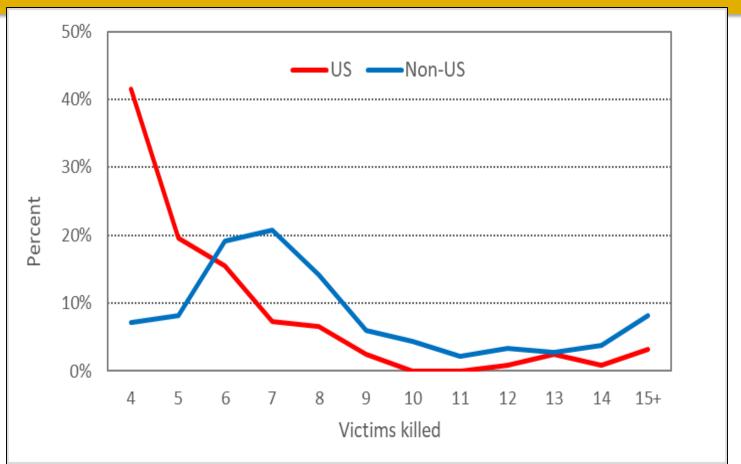
Missingness Is Not Random Victims Lankford Lott and

Victims	Lankford				Lott and Moody			
	Hit	Miss	Total	Miss %	Hit	Miss	Total	Miss %
4	21	30	51	58.8	8	19	27	70.4
5	16	8	24	33.3	8	5	13	38.5
6	18	2	20	10.0	8	1	9	11.1
7	8	1	9	11.1	6	0	6	0.0
8	7	1	8	12.5	4	0	4	0.0
9	3	0	3	0.0	2	0	2	0.0
12	1	0	1	0.0	1	0	1	0.0
13	3	0	3	0.0	3	0	3	0.0
14	1	0	1	0.0				
21	1	0	1	0.0				
23	1	0	1	0.0				
27	1	0	1	0.0	1	0	1	0.0

Implications for Non-U.S. Mass Public Shootings

- Lower-severity mass public shootings in the U.S.
 - More numerous (a heavy-tail distribution)
 - 77% involve between 4 and 6 fatal victims
 - Extreme cases (10+ victims) are more rare...and more newsworthy
 - Underrepresented in both Lankford and Lott/Moody datasets
 - Both datasets undercounted U.S. mass public shootings overall
 - Less newsworthy
 - Results reflect well-established disadvantages of relying only on news coverage
- What are the Implications for Non-U.S. Cases?
 - Combined, Lankford (2016) and Lott/Moody (2019) identified 218 non-U.S. mass public shootings from 1976-2012
 - Do most involve less than 7 fatal victims?

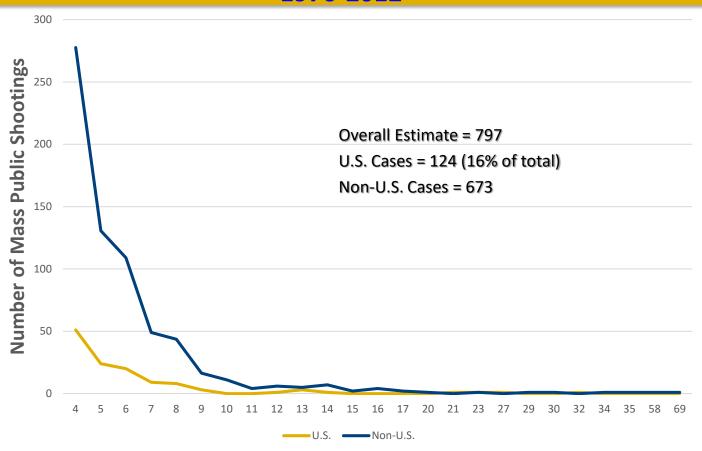
Comparison of U.S. and Non-U.S. Cases by Victim Count



Estimating the Global Prevalence of MPS

- Evidence strongly suggests LLM combined Non-U.S. dataset missed lower-severity cases
 - 40% of MPS had < 7 fatal victims
- Assume LLM captured all of the extreme cases (10+ victims)
 - LLM = 49 Non-U.S. cases with 10+ fatal victims
 - FDR = 9 U.S. cases with 10+ fatal victims
 - U.S. = 15.5% of all mass public shootings with 10+ victims
- Develop initial estimate of missingness for cases < 10 victims
 - Assume that victim count distribution for non-U.S. is similar to that observed for U.S.
 - 4 victims = 41% of all cases
 - 5 victims = 19% of all cases
 - 6 victims = 16% of all cases
 - 7 victims = 7% of all cases
 - 8 victims = 6% of all cases
 - 9 victims = 2% of all cases

Estimated Global Prevalence of Mass Public Shootings, 1976-2012



Next Steps

- Develop additional, more refined estimates using hierarchical Bayesian models
 - Uses series of heavy-tailed distributions (power law, lognormal, etc.) to help estimate missingness in non-U.S. cases
 - Similar to prior work that forecasted the severity of mass public shootings in the U.S. (Duwe, Sanders, Rocque and Fox, 2021)
- If additional estimates are similar, what's the take-away?
 - U.S. is not like rest of the world when it comes to MPS
 - MPS are also not a uniquely American phenomenon
 - MPS incidence is still 4X higher relative to population size
 - MPS is most visible manifestation of violence in a nation that has long been more violent than comparable countries.

IMPROVING THE UNDERSTANDING OF MASS SHOOTING AND OTHER MASS ATTACK PLOTS

NIJ-funded Research on Mass Shootings to Advance Evidence-based Policy and Practice November 30, 2021

John S. Hollywood

Senior Operations Researcher, RAND Corporation



Center for Quality Policing
Justice Policy Program

Three Top Takeaways

Power to Prevent

- Everyone can prevent
- 2/3 of our foiled plots found from public reporting
- Most cases handled outside of justice system

Relentless Follow-Up

- Multi-organizational teams needed
- Key steps: assess, determine next steps, follow up, and reassess regularly

Prepare and Train

- "Heroes are made because they prepare"
- Need advance planning, resourcing, and training for all partners
- Need to prepare for actions after the attack is over



Justice Policy Program

Outline

- Objectives
- Methodology
- Organizing the findings the mass attack defense chain
- Findings to prevent, mitigate, and follow up afterwards
- For policymakers and executives
- Conclusions

Objectives

Improve prevention

 Characterize how plots have been discovered and what we can learn when plots reached execution

Improve immediate response

 Characterize what factors and types of events have led to lower casualties

Improve actions after attacks end

 Characterize actions to support victims, bystanders, and responders, and improve community resilience and learning

Improve understanding

 Capture findings in an educational toolkit

Improve understanding of needs

 Inform and support development priorities

Methodology

Case Review

 600+ foiled and executed plots, with 100+ cases considered; over 60 fields tracked and

coded

Expert Interviews

 Dozens of federal, state, and local

Literature Review

 200+ journal articles, guidance, policies

Drafting and programming

Reflects
 expertise
 on
 educational
 approaches

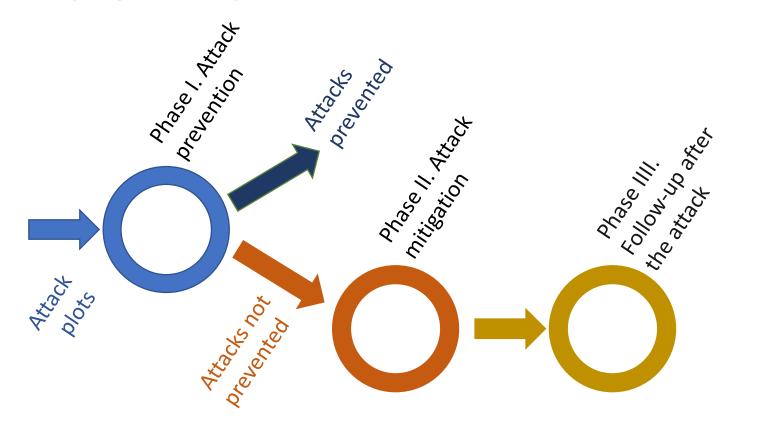
Advisory Panel

 Feedback from a dozen SMEs, followed by academic QA

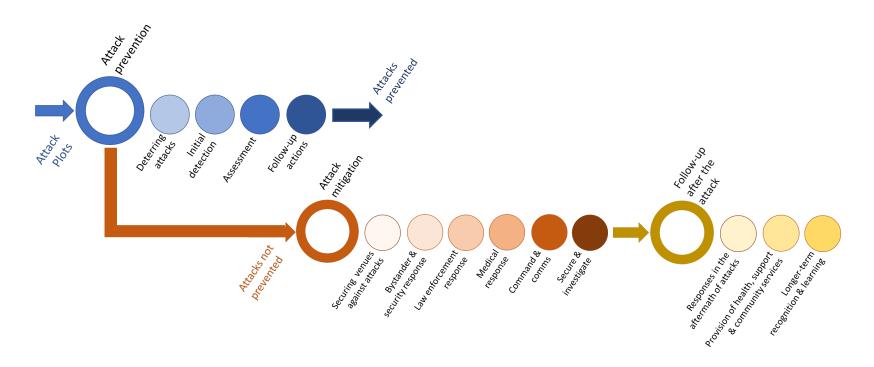
Formal publication

Professiona l editing and programmi ng

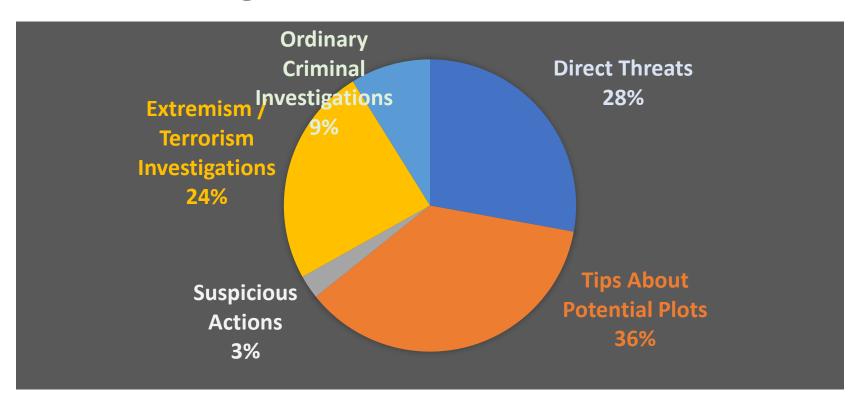
Organizing Findings: The Mass Attack Defense Chain (Top Level)



The Mass Attack Defense Chain (Full)



Power to Prevent: From 600+ Cases, What Led to Plots Being Foiled?



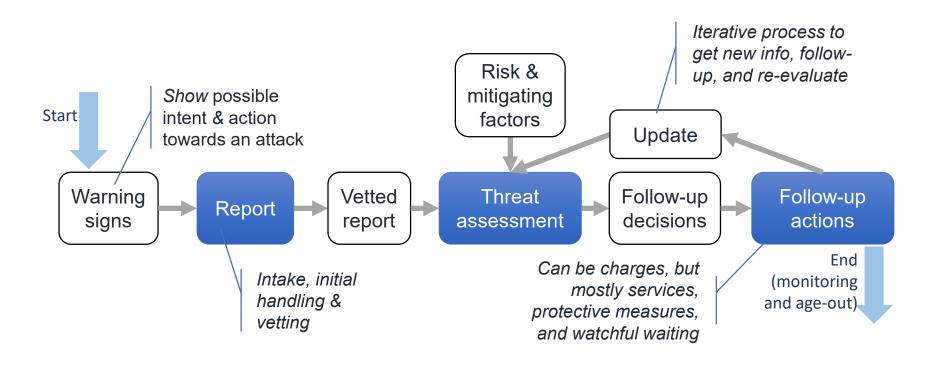
Top Warning Signs: The Something in "See Something, Say Something"



- ☐ Inspired by past attacks to be infamous, too
- ☐ Inspired to fulfill an extremist cause (esp. if kicked out of a group for being too violent)
- Belief that someone(s) is so harmful or threatening that they have no choice but to attack

- ☐ Written plans for an attack
- ☐ Trying to recruit others
- ☐ Trying to learn how to kill many people (in person, online)
- ☐ Coordinating with known violent extremists
- ☐ Seeking arsenals of weapons & ammunition (without a benign reason, like hunting)
- ☐ **Travel** for training or to target
- ☐ Site probing / breaching

Relentless Follow-Up: A Model for Using Warning Signs, Threat Assessment, and Follow-Up Actions



Prepare and Train: Mitigating Casualties from Mass Shootings and Other Mass Attacks

Overall: Need a Coordinated Response for Mitigation, which requires advance planning, coordination, and training, among all response partners

Securing venues

- Distance, movement, & physical barriers
- Don't let shooters surprise a crowd at close range without ways to escape

Bystander & security response

- Basic strategy of Run, Hide, and Fight
- Value and risks of intervening in different types of situations

Law enforcement & medical response

 Need multiorganizational planning and training of all participants

Command & communications

 Learn, train & implement the Incident Command System & NIMS

For Leaders: Need to Support Planning, Coordination, and Training which requires direction, ongoing follow-up and resourcing (and if necessary, seeking resources)

Post-Attack Priorities: Planning and Training is a Necessity

- In the immediate aftermath of the attack:
 - ✓ Search and apprehension of attackers
 - ✓ Investigate attackers and potential co-conspirators
 - ✓ Immediate mental health and emotional support
 - √ Family assistance centers/ post-event victim welfare
 - ✓ Public communications and public relations
 - ✓ Near term debriefs
- Provision of health, support, and community services:
 - ✓ Mental health and emotional support for victims/survivors
 - ✓ Victim services, family assistance, and long-term services
 - ✓ Mental health and emotional support for first responders
 - ✓ Long-term responder and family support and services
- · Longer-term recognition and learning
 - ✓ Recognition: awards for acts of valor; ceremonies for victims and heroes
 - ✓ Memorials and anniversary events/VIP visits
 - ✓ After Action Reports

For Policymakers and Executives

- Can use internal authorities
- Can use external tools at local, state, and federal level

Improvements for Procedures & Training

- Public education on reporting
- Finding pre-attack site surveillance & gun diversion
- Wellness checks
- Threat assessment
- Coordinated response
- Coordinated post-attack actions

Resources are Available

- Commonly known federal grants
- Others that are less known – state and loca sources, relevant philanthropies

Online Toolkit





What You Need to

The key takeaways to improve your own prevention efforts



Tools & Programs

Learn about solutions from agencies



Case Examples

Cases to illustrate possible solutions, successes, and challenges



Research Findings

New and already-established findings to inform prevention priorities



Policy & Program Needs

From leadership and elected officials to address challenges



For Further Reading

Additional resources and references

AUDIENCES – "TOOLKIT FOR EVERYONE"



Law Enforcement & Service Providers



Policy Makers



Public

- ✓ Power to prevent
- ✓ Relentless follow-up
- ✓ Prepare and train



OBJECTIVE ANALYSIS. EFFECTIVE SOLUTIONS.

Mass Attacks Defense Toolkit

Prevent

ر Mitigate

@ Post-attack

Search Q

RAND Campaign

Recommendations

MASS ATTACKS DEFENSE TOOLKIT

Preventing mass attacks. saving lives

The Mass Attacks Defense Toolkit can help make you a better defender against mass attacks

Start now →

FUNDED BY THE NATIONAL INSTITUTE OF JUSTICE

The RAND Corporation has created this toolkit to help reduce the likelihood of mass shootings and other public attacks, and reduce the casualties of completed attacks. Whatever your role or level of experience, this toolkit will make you a better defender against mass attacks.

From studying 600 mass attack events and plots, interviewing dozens of expert interviews, and reviewing hundreds of references, we have identified the Mass Attack Defense Chain, a series of defenses that work together to reduce the probability of mass attacks and their impacts.

A toolkit for everyone

- Communities and the public in general
- Law enforcement
- Fire and EMS medical responders
- School officials
- Agency and community service providers
- Building and venue security personnel
- Policymakers

See the recommendations for policymakers and executives \rightarrow

Heroes are made because they prepare for an incident. People never rise to the occasion; they fall back on their training.

Questions?

John Hollywood

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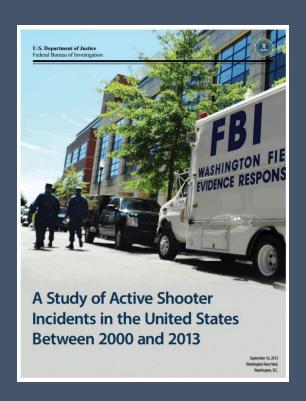


Center for Quality Policing
Justice Policy Program

Active Shooter IV Project November 30, 2021

FBI – BAU1
Behavioral Threat Assessment Center
SSA Karie Gibson, Psy.D., LP

Active Shooter: Phase I



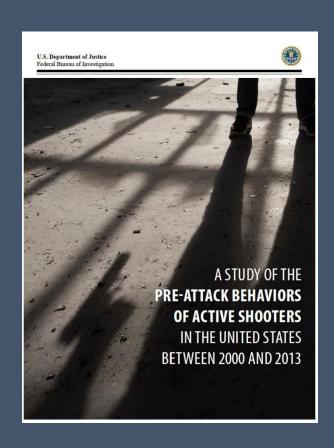
PHASE I (2014): 160 events

- Incidents during 2000-2013
- Actively killing or attempting to kill
- Using a firearm
- In a populated area

"What happened during and after the shooting?"

Relied on incident reports and open sources

Active Shooter: Phase II



PHASE II (2018): 63 active shooters

- Demographics
- Weapons
- Stressors and concerning behaviors
- Grievances, targeting, pre-attack communications
- Substance abuse and mental health

"How do active shooters behave before they attack?"

Subtle behaviors verified in full investigative files

Active Shooter: Phase III



Kristen Solik is now at the Automobile Club of Southern

dressed to Sarah W. Craun, Federal Bureau of Investigation

CIRG/IOSS/BAU, 1 Range Road, Quantico, VA 22135.

While understanding their concern about be-

ing a victim of a mass shooting, it is important to inform the public that they also have the

ability to be an asset in the prevention of mass

targeted violence (Lankford, Adkins, & Mad-

PHASE III (2020): 63 active shooters & 63 persons of concern

"How do active shooters differ from individuals who display concerning behavior but do not commit mass violence?"

- Differences in concerning behaviors and stressors
- Variation in bystander responses
- Law enforcement investigative files

Active Shooter: Phase IV



Initial Case File Findings & Interview Preparational Resource

PHASE IV: 72 active shooters (adjudicated)

- 13 subjects from AS II
- 67 potential interviews to complete
- 60 prison locations
- Interview protocol expanded from AS II to include findings from AS III

"Offender interviews will allow a better understanding of the thought processes, motivations, planning/preparation, and tactics used."

Active Shooter: Phase IV

Update: 16 cases coded/reconciled

Sample Findings:

- 1) Majority showed desire to obtain weapons 6 months or more before incident
- Majority felt rejected and disenfranchised within the year leading up to the attack
- 3) The shortest amount of time between grievance and attack was 3-5 months with most being 25 or more months
- 4) Most common concerning behavior reported was offender's mental health issues
- 5) Most common concerning behavior that was observable but did not raise concern was the offender's behavioral leakage

Active Shooter: Phase IV



Initial Case File Findings & Interview Preparational Resource

Plan:

- Ongoing coordination with prisons
- Interviews to begin in 2022
- Coding to continue with revised protocol
- Full-time researcher assigned



Thank You

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