Updated and Expanded CDC Guidance for the Identification and Response of Suicide Clusters

Mick Ballesteros, PhD

Deputy Associate Director for Science

Division of Injury Prevention

Agenda



- Background
- Process for development
- Content of papers
- Next steps
- Discussion

Background

Suicide Cluster Definition

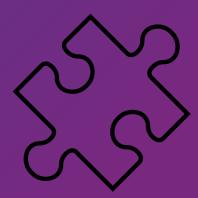
A group of suicides or suicide attempts that occur closer together in time and/or space than would normally be expected in a given community

- Rare
- Small proportion of overall deaths by suicide
- Potential negative effects on community

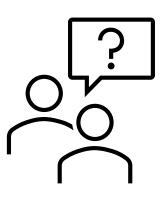
Methodological Challenges

- Selection Bias
- Limited opportunities for comparison groups
- Small numbers
- Absence of standard definitions and analytic testing

These challenges make comparing and combining reports and papers difficult.



Causes of Suicide Clusters Not Well Understood

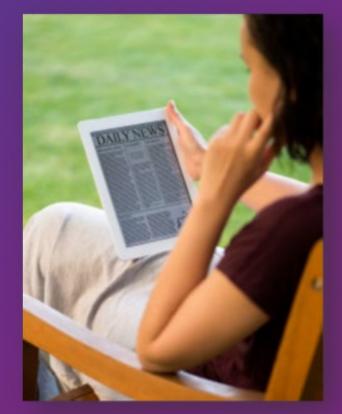


- Risk factors
- Reports from various populations and settings
- Concern about "contagion"

Influence of Media

- + Copycat behavior
- + Papageno Effect
- + Recommendations for reporting on suicide

Media can have negative or positive affect.



Existing CDC Recommendations

CDC recommendations for a community plan for the prevention and containment of suicide clusters.

O'Carroll, P. W., Mercy, J. A., & Steward, J. A. (1988). *Morbidity and Mortality Weekly Report: Supplement*, 37(S6), 1-12.

There was a need to update this document to account for the current state of science and public health practice.

Process

Information Gathering



- Literature Review
- Environmental Scan
- Media Review
- Input from Subject Matter Experts

Literature Review on Suicide Clusters



+ Focus on:

- Identification of clusters (N=33)
- Risk and protective factors (N=67)
- Social Media (N=33)
- Response (N=71)

+ Sources of articles

- PubMed, GoogleScholar, ProQuest, JSTOR
- NCIPC's Clusters website
- Subject matter experts

Environmental Scan



+ Internal Epidemiologic Assistance (Epi-Aid) reports

- 8 reports from 2004-2018

+ U.S. media reports from 2017-2022

- Google News
- 14 relevant articles about clusters in cities, counties, and universities

Input from Subject Matter Experts Participants



- + Emergency Department Surveillance of Nonfatal Suicide-Related Outcomes (ED-SNSRO)
- + Comprehensive Suicide Prevention (CSP)
- + Injury Control Research Centers (ICRCs)
- + CDC's Center of Surveillance, Epidemiology, and Laboratory Services
 - National Syndromic Surveillance System
- + Health Departments that requested NCIPC suicide Epi-Aids
- + Social media analysis experts

Input from Subject Matter Experts Discussion Topics



+ Initial alert of potential suicide cluster

- Use of syndromic surveillance data

+ Experience investigating or researching

- Challenges

+ Community response

- Partnerships
- Lessons learned

+ Use of social media

- Identification of clusters
- Tool for the response

MIMWR Supplement

Considerations



+ Key references:

- Centers for Disease Control. (1990). Guidelines for investigating clusters of health events. MMWR Recomm Rep, 39, 1-23.
- Abrams B, et al. (2013). Investigating suspected cancer clusters and responding to community concerns: guidelines from CDC and the Council of State and Territorial Epidemiologists. MMWR: Recomm Rep, 62(8), 1-24.
- + Addition of <u>assessing</u> and <u>investigating</u> suicide clusters
- + Updated guidance on <u>responding</u> by community

MMWR Supplement: 3 Papers

Audience: Those responsible for assessing, investigating, and responding to suicide clusters (e.g., state and local health departments)

- Background and Rationale: Suicide Clusters and CDC Guidance on Investigating and Responding
- Assessment and Investigation of Suspected Suicide Clusters
- 3. Community Response to a Suicide Cluster

Background and Rationale: Suicide Clusters and CDC Guidance on Investigating and Responding

- + Introduction to supplement
- + Overview of suicide clusters
- + About the papers in the supplement
- + Process

First paper in MMWR Supplement

Assessment and Investigation of Suspected Suicide Clusters

- + Notification of suspected cluster
- + Assessment
 - Preliminary
 - Formal
- + Investigation of cluster

Second paper in MMWR Supplement

Notification of Suspected Cluster

 Initial signal that there may be a problem



+ External channels

- E.g., Local community partners, schools, hospitals

+ Internal channels

- E.g., Tracking and monitoring systems

+ Lead Agency

- Often state or local health department

+ Suicide Cluster Liaison

- Main point of contact

+ Suicide Cluster Coordinating Committee

- May include representatives from state and local agencies, subject matter experts, community partners, local coalition members, mental health organizations

Assessment (Preliminary)

 Do we need to look into this more?



+ Begin understanding if this is a true cluster

+ Collect initial information about the suspected cluster

- Source of information for this notification
- Suspected number of cases
- Perceived time period and geographic scope
- Other initial information that may be concerning such as known relationship among cases, common precipitating circumstances or events

+ Convene Coordinating Committee

- To decide if a more extensive formal assessment is needed

Assessment (Formal)

Is this a true increase in cases and a true cluster?



- + Determine case definition and time frame
- + Identify data sources
 - Death certificates
 - State Violent Death Reporting System
 - Coroner/medical examiner reports
 - Emergency department/Syndromic/Hospitalization data
 - State and local crises lifeline data (e.g., 988)
- + Use analytic methods to test if increase is real
- + Decide whether to conduct an investigation

Investigation

What are the potential commonalities or precipitating circumstance of cases that can inform a community response?

+ Develop and implement investigation plan

- Objectives and hypotheses
- Study design
- Data sources and data collection
- Comparison group
- Critical variables: demographics, risk factors (individual-, relationship-, community-levels)
- Analysis plan
- + Report findings to inform public health action and community response

Community Response to a Suicide Cluster

- + Preparation
- + Direct Response
- + Action for Prevention

Third paper in MMWR Supplement

Preparation

 To lay groundwork for direct response



+ For consideration:

- Review guidance, develop standing community-specific response plan
- Engage partners on coordinating committee
- Identify relevant community resources
- Determine when a response plan should be implemented

Direct Response

 To support those still at risk and those affected by current cluster

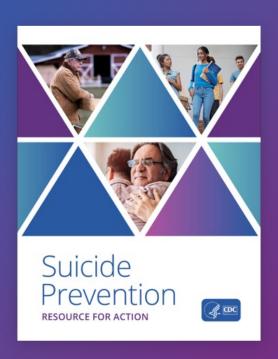


+ For consideration:

- Notify and prepare the identified groups
- Identify, screen, and refer those at high risk
- Avoid glorifying and minimize sensationalism
- Provide timely, accurate, appropriate information to the media
- Consider relevance and impact of social media

Action for Prevention

 To help prevent the next cluster



https://www.cdc.gov/suicide/resources/prevention.html

+ For consideration:

- Change elements in the environment
- Address long-term issues
- Conduct an evaluation of the response

Next Steps

Acknowledgements

- Asha Ivey-Stephenson
- Eva Trinh
- Deb Stone
- Nimi Idaikkadar
- Jing Wang
- Alex Crosby
- Judy Qualters
- External subject matter experts
- Ross Strategic

Discussion Questions

Discussion Questions for BSC

- + How should we best engage with partners and disseminate this supplement?
- + What materials related to this supplement would be useful to develop for communities?
- + What other resources beyond this supplement might be needed by communities? Specific populations to target?
- + Is there feedback or experiences on the use of social media as a tool for suicide or other topic areas?



Thank you!





The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

