

# Concurrent Session 7: Overdose Fatality Review Data System: Findings and Resources for Implementation

Moderators: Melissa Heinen, Institute for Intergovernmental Research; and Rose Hefferon, Centers for Disease Control and Prevention



# OFR Data System: Findings and Resources for Implementation

Melissa Heinen, RN, MPH

OFR and Suicide Fatality Review Senior  
Research Associate/Manager

Institute for Intergovernmental Research

[mheinen@iir.com](mailto:mheinen@iir.com)

[www.OFRTools.org](http://www.OFRTools.org)

Rose Hefferon, MPH

Oak Ridge Institute for Science  
and Education (ORISE) Fellow

National Center for Injury Prevention and  
Control, Division of Overdose Prevention  
Centers for Disease Control and Prevention

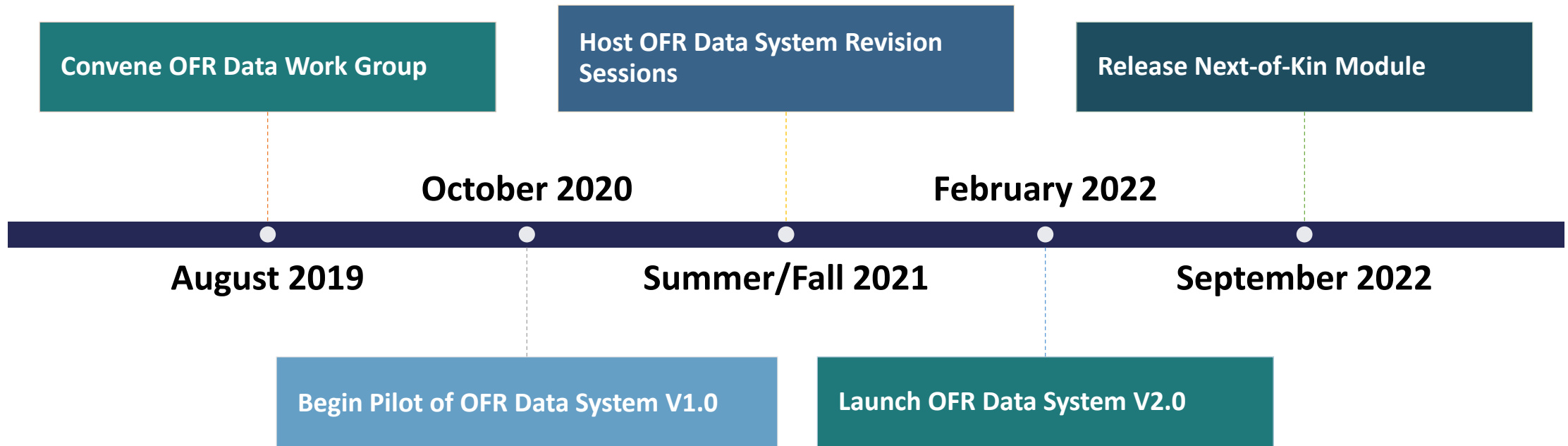
[uqu5@cdc.gov](mailto:uqu5@cdc.gov)



# OFR Data System: Purpose

- Designed by and for OFR sites
- Capture all data related to the OFR
- Standardized data elements
- Align with existing public health data systems
- Incorporate community context (social determinants of health)
- Monitor recommendations
- Inform local, state, and national prevention efforts

# Development Timeline

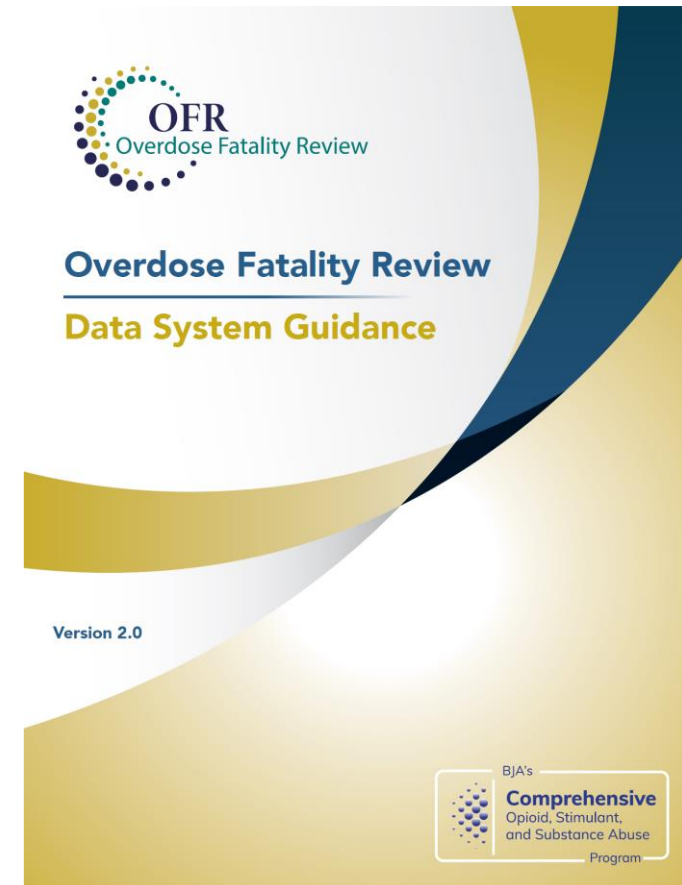


# OFR Data System



## Structure

- Case information
- Next-of-kin interview
- County profile
- Recommendation monitoring



# OFR Data System: Case Information



- OFR Administration
- Decedent Demographic Information
- Cause of Death
- Scene of Overdose and Death
- Drugs at the Scene of Death
- Death Investigation and Toxicology Information
- Interventions Following Overdose
- Life Stressors
- Health History and Health Care Access
- Prescription Drug Monitoring Program Summary Indicators
- Mental Health History
- Substance Use History
- Trauma History
- Criminal Justice History
- Social Services History
- Education History
- Recommendations
- Site-specific Community Context Variables
- Site-specific Variables
- Narrative Section

# Example: Trauma History



## Trauma Experienced

Did the decedent ever have any of the following known trauma or violent events? (Check all that apply.)

- None
- Emotional abuse or neglect
- Incarceration of a household member
- Mental illness in the household
- Pandemic (for example, COVID-19 or coronavirus)
- Parental separation or divorce
- Physical violence, perpetrator
- Physical violence, victim
- Physical neglect
- Sexual violence, perpetrator
- Sexual violence, victim
- Substance abuse in the household
- Violence in the household
- War
- Other

Check all that apply

When was the decedent known to have experienced violence in the household? (Check all that apply.)

- In last 14 days
- In last 12 months
- In adulthood
- In childhood

Check all that apply

Notes (for site use only)

# Example: ODMAP Case Information

Was the death possibly connected or related to a contaminated/tainted batch or a community spike in overdoses?

Response options:

- No
- Yes

Definition: Indicates whether this overdose death was likely related to a contaminated/tainted batch, pressed counterfeit pill, or significant community spike in overdoses

Guidance: If the death was around the time of an identified spike in cases, for example, identified by the Overdose Detection Mapping Application Program (ODMAP) platform, or if there was a known batch of contaminated/tainted substance in the community or from a pressed counterfeit pill, select "Yes"

Reference: ODMAP, [www.odmap.org](http://www.odmap.org)



# Example: ODMAP County Information

## Level of ODMAP reporting at the county level

### Response options:

- No—None of the jurisdictions report into ODMAP
  - Yes, partial—Some of the jurisdictions report some suspected cases into ODMAP
  - Yes, all—All jurisdictions are required to report all suspected cases into ODMAP
  - Yes, unsure how many jurisdictions are reporting cases into ODMAP
- Definition: Indicates the level of ODMAP reporting at the county level
  - Guidance: Visit [www.odmap.org](http://www.odmap.org) and scroll down to the section on participating agencies. Select state and county.
  - Reference: Overdose Detection Mapping Application Program, [www.odmap.org](http://www.odmap.org)

# Example: Community Context



reset

Was the death possibly connected or related to a contaminated/tainted batch or a community spike in overdoses?

- No
- Yes

reset

Is the jurisdiction in which the overdose event occurred covered by a Good Samaritan Law with overdose provisions at the time of the overdose?

- No
- Yes

reset

# Example: Recommendation Monitoring



**Public/edited version of recommendation**

|

280 characters remaining

Expand

**Current priority level**

None

Low

Medium


High

reset

**Working draft/narrative of recommendation**

Expand

**Date recommendation was identified/initiated**

 Today M-D-Y

**Cases that generated or are related to the recommendation**

List REDCap-generated case ids separated by commas

# Example: Next-of-Kin Interview



Expand

**Social**

**Decedent participate in religious activities?**

No  
 Yes  
 Unknown

reset

**Who did the decedent socialize with? (Check all that apply)**

None, alone  
 Children  
 Congregation members  
 Coworkers  
 Family  
 Friends  
 Partner/spouse  
 Other

Check all that apply

**Did the decedent's social circle use drugs?**

No  
 Yes  
 Unknown

reset

**Did the decedent participate in any organized social groups, sports, etc.?**

No  
 Yes  
 Unknown

reset

**NOK's description of decedent's social supports**

# REDCap: Online Storage



REDCap is a secure web application for building and managing online surveys and databases



REDCap can be installed in compliance with such standards as HIPAA, 21 CFR Part 11, FISMA



Software is available at no cost for REDCap Consortium partners



Seamless data downloads to Excel, PDF, and common statistical packages (SPSS, SAS, Stata, R)

# REDCap: Data Analysis and Reports



- Export data to analyze
- Build and run canned reports

**PRACTICE - OFR Case Information** P10 22

**Data Exports, Reports, and Stats** [VIDEO: How to use Data Exports, Reports, and Stats](#)

[+ Create New Report](#)
[My Reports & Exports](#)
[Other Export Options](#)

Number of results returned: **3**  
 Total number of records queried: 12  
 Report execution time: 0.1 seconds

[Stats & Charts](#)
[Export Data](#)
[Print Page](#)
[Edit Report](#)

Live filters:

**Criminal justice involvement**

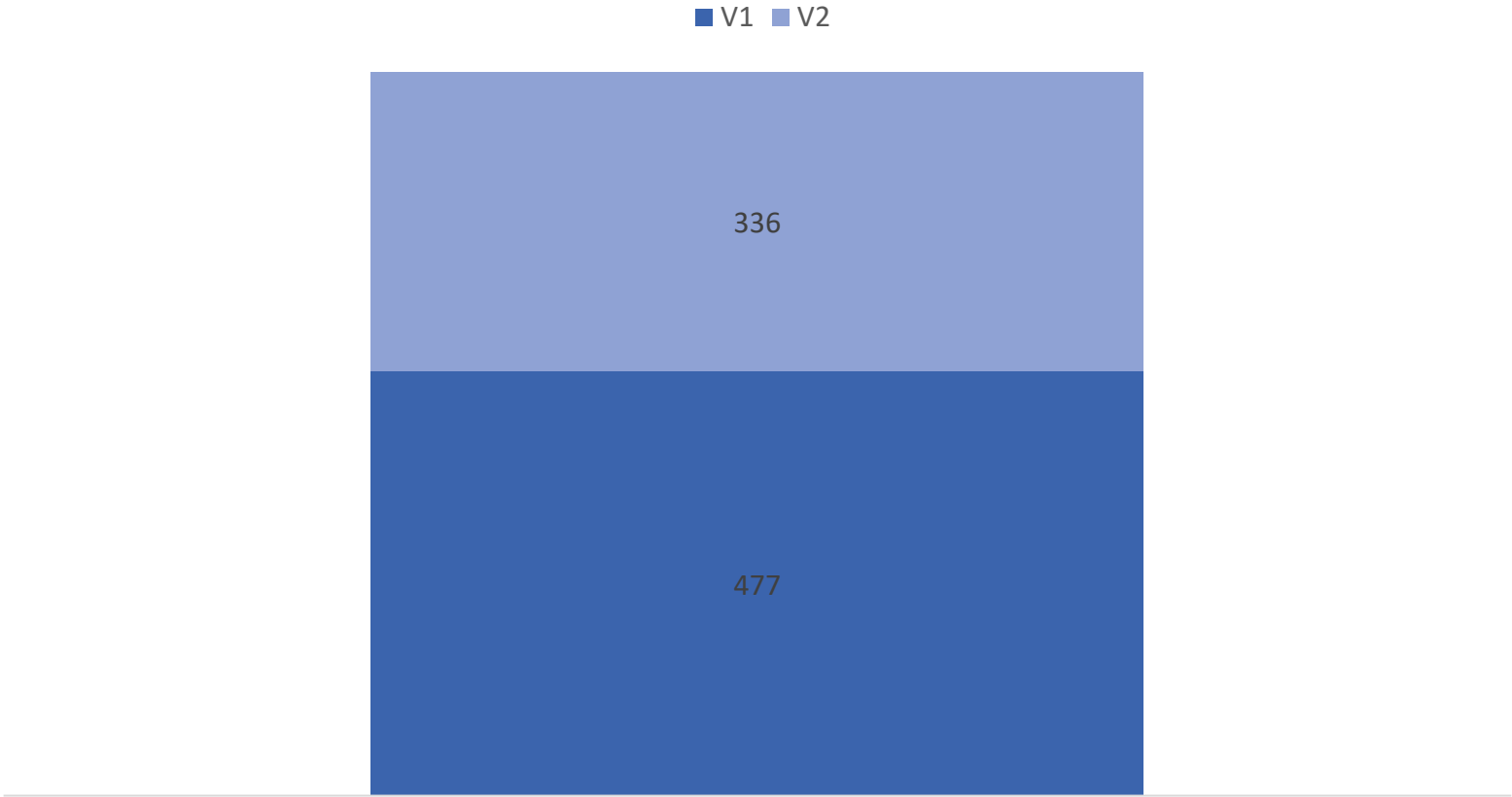
Case-unique identifier (REDCap generated) case_id	Age in years age_years	Date of death death_date	Sex of decedent sex	Location of overdose incident overdose_location	Date of the most recent known nonfatal drug overdose od_recent_date	Date of most recent known arrest arrest_recent_date	At the time of the overdose incident, was the decedent under community supervision? supervision_od	At the time of the overdose incident, was the decedent incarcerated? incarceration_od	Date of entry for most recent known post-adjudication program and/or specialty court spec_court_date	Date of most recent pre-arrest/pre-charge diversion pre_arrest_date
1			Female (1)							
12-1 DOD: 11-19-2020	58	11-19-2020	Male (2)	Decedent's residence (1)		09-26-2020				
12-2 DOD: 04-27-2021	33	04-27-2021	Male (2)	Hotel or motel (5)		07-26-2011		No (0)		



# Findings

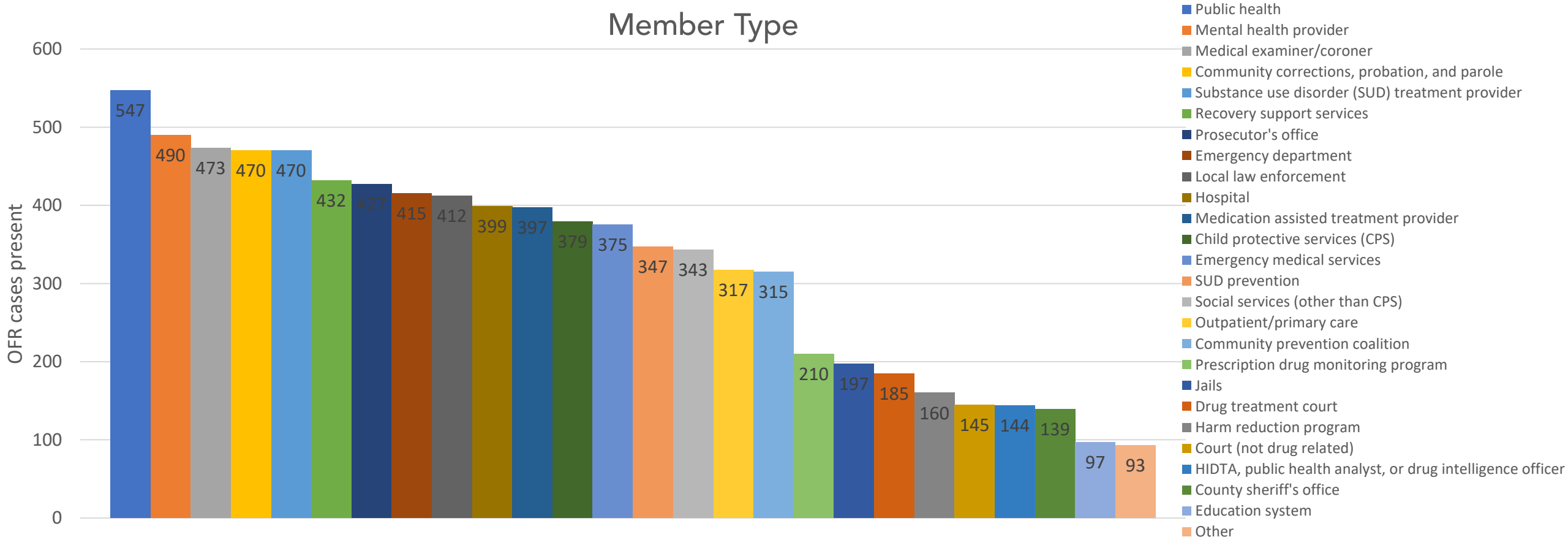


# Number of OFR Cases Reviewed (n=813)

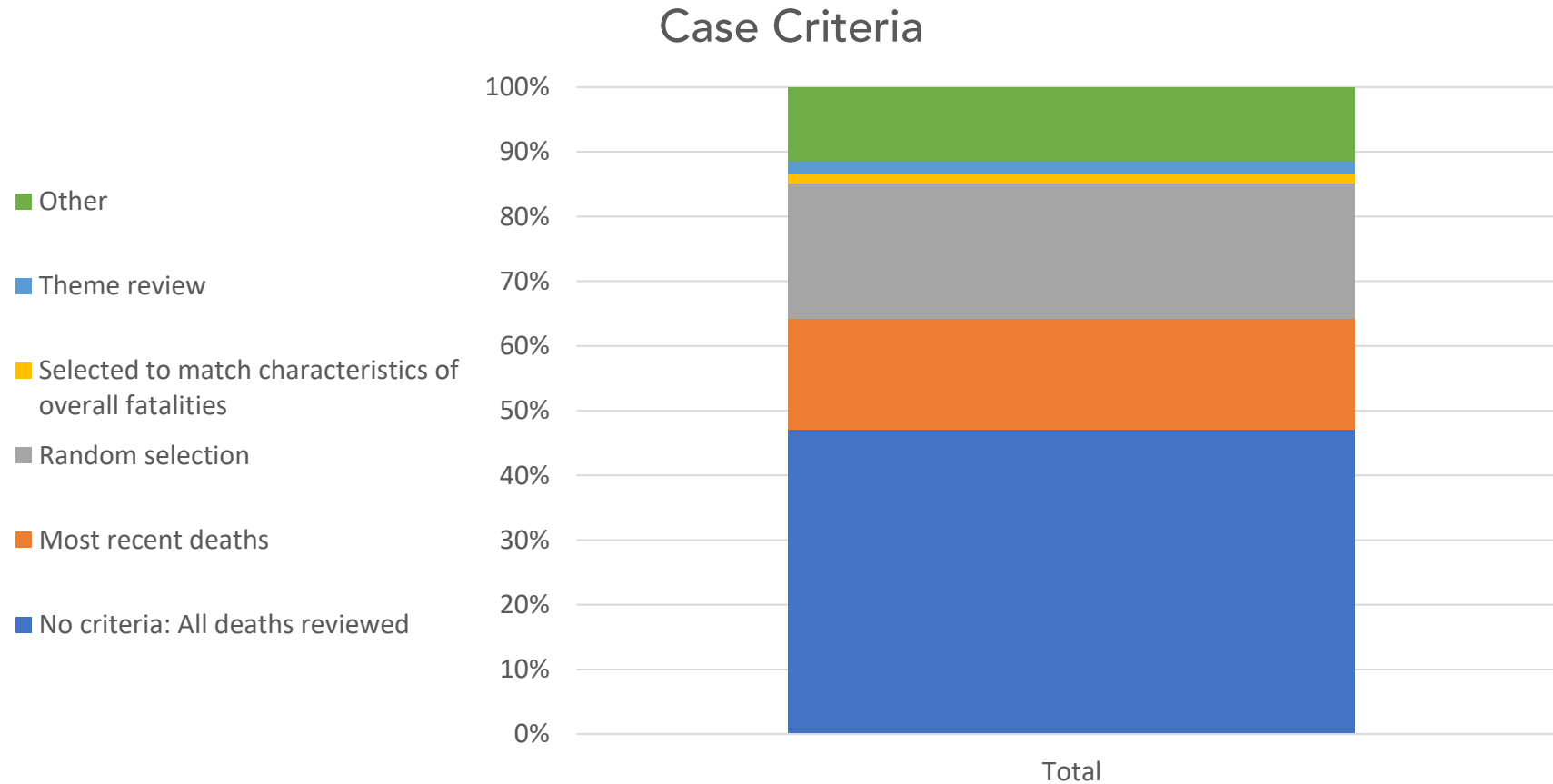




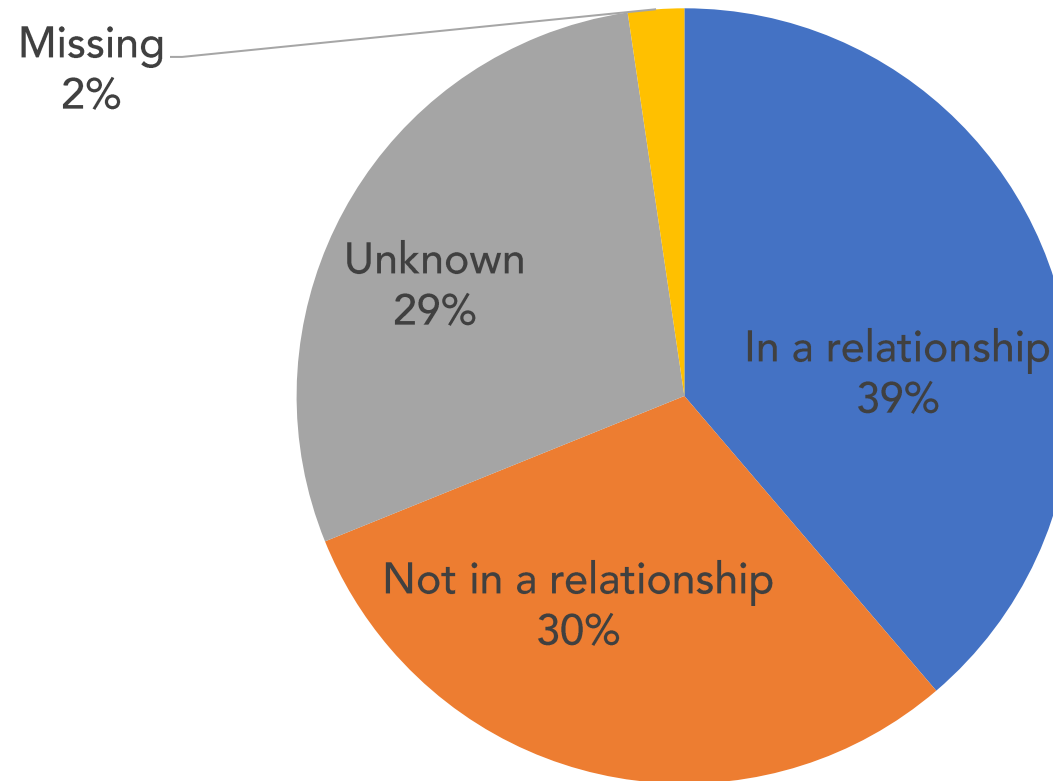
# Sample Analysis: Member Type Present at OFR



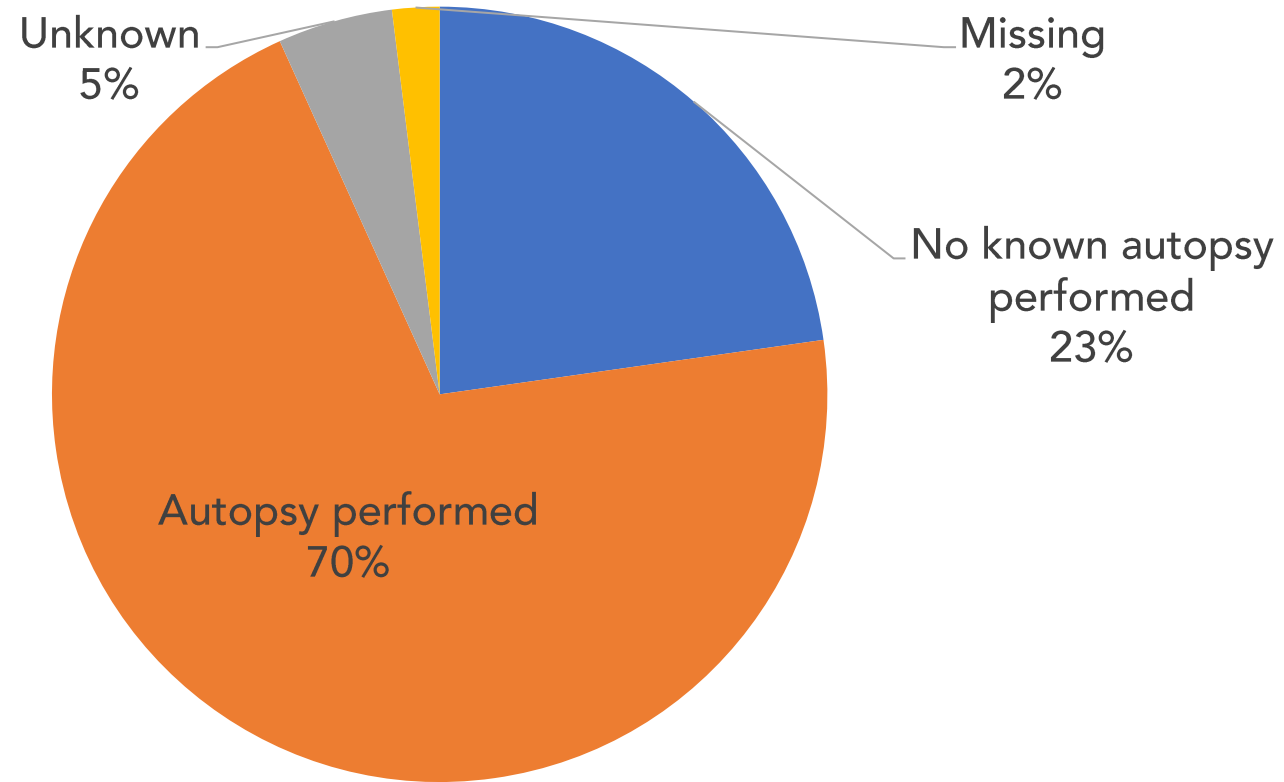
# Sample Analysis: Criteria Used to Determine Case Selection



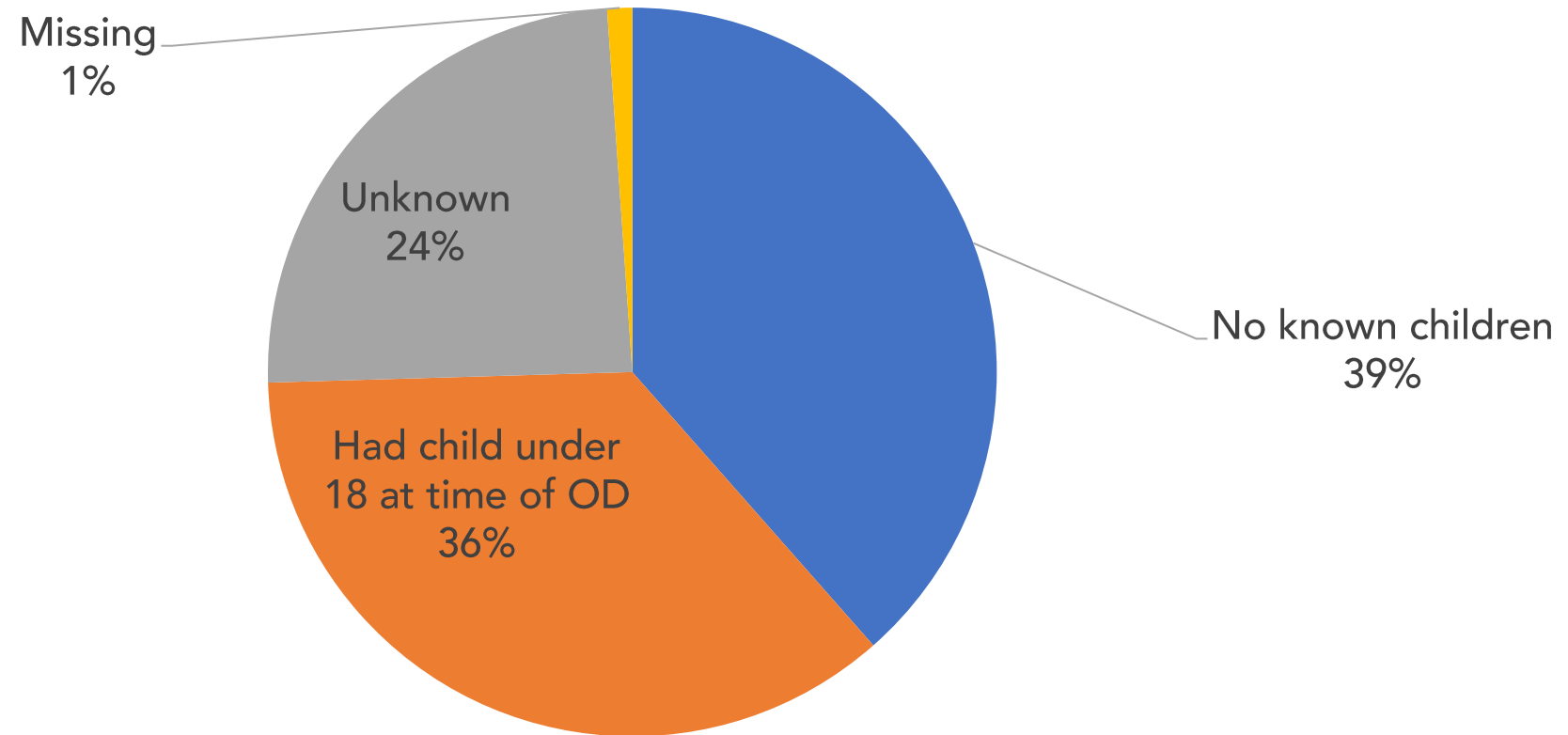
# Sample Analysis: Known Relationship Status at Time of Overdose



# Sample Analysis: Known Autopsy Completed



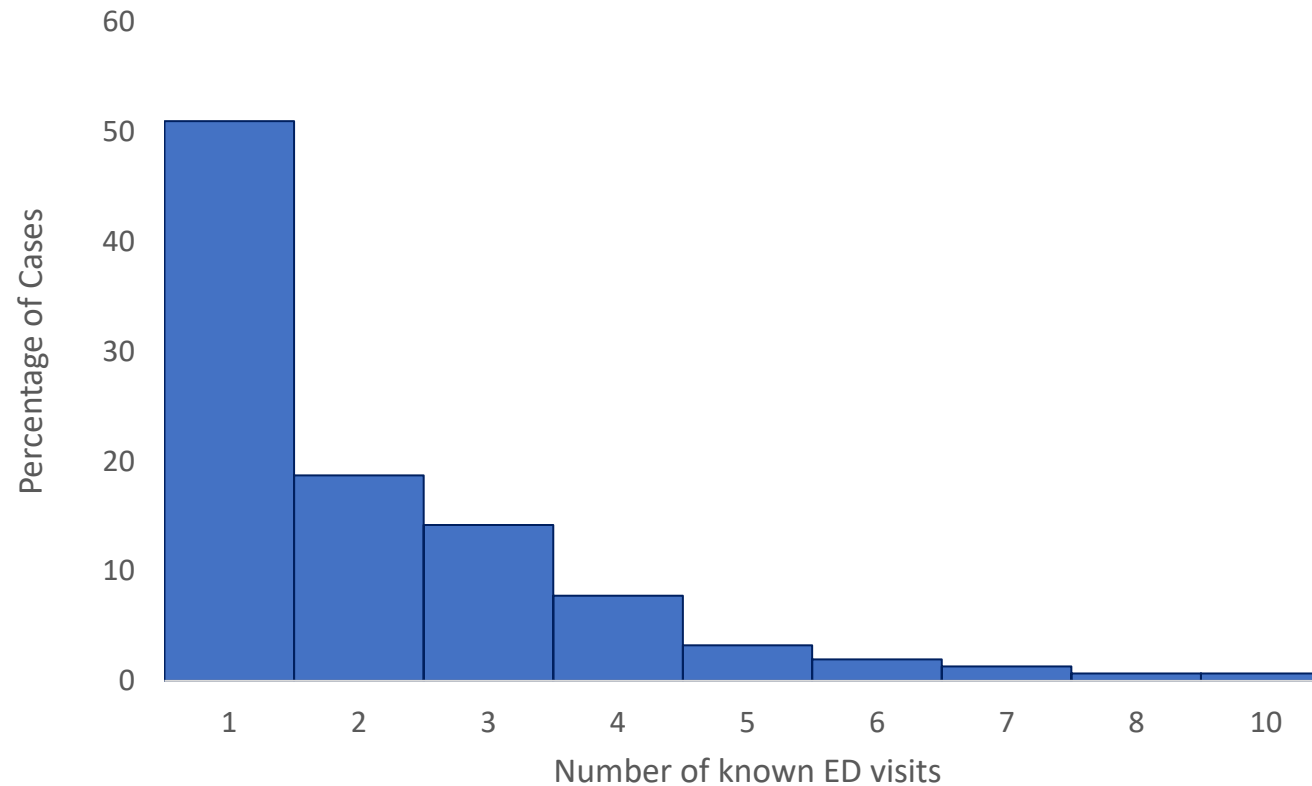
# Sample Analysis: Decedent Known to Have Children Under 18 at Time of Overdose



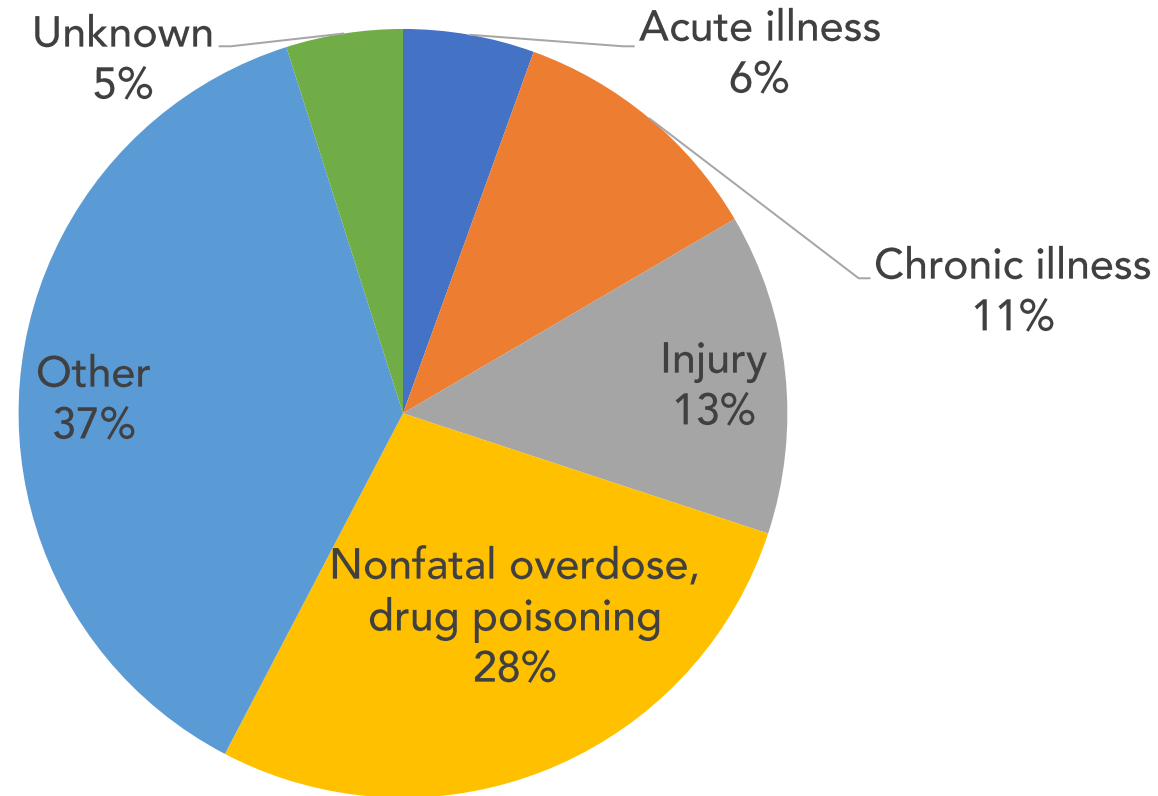
# Sample Analysis: Number of Known Emergency Department (ED) Visits



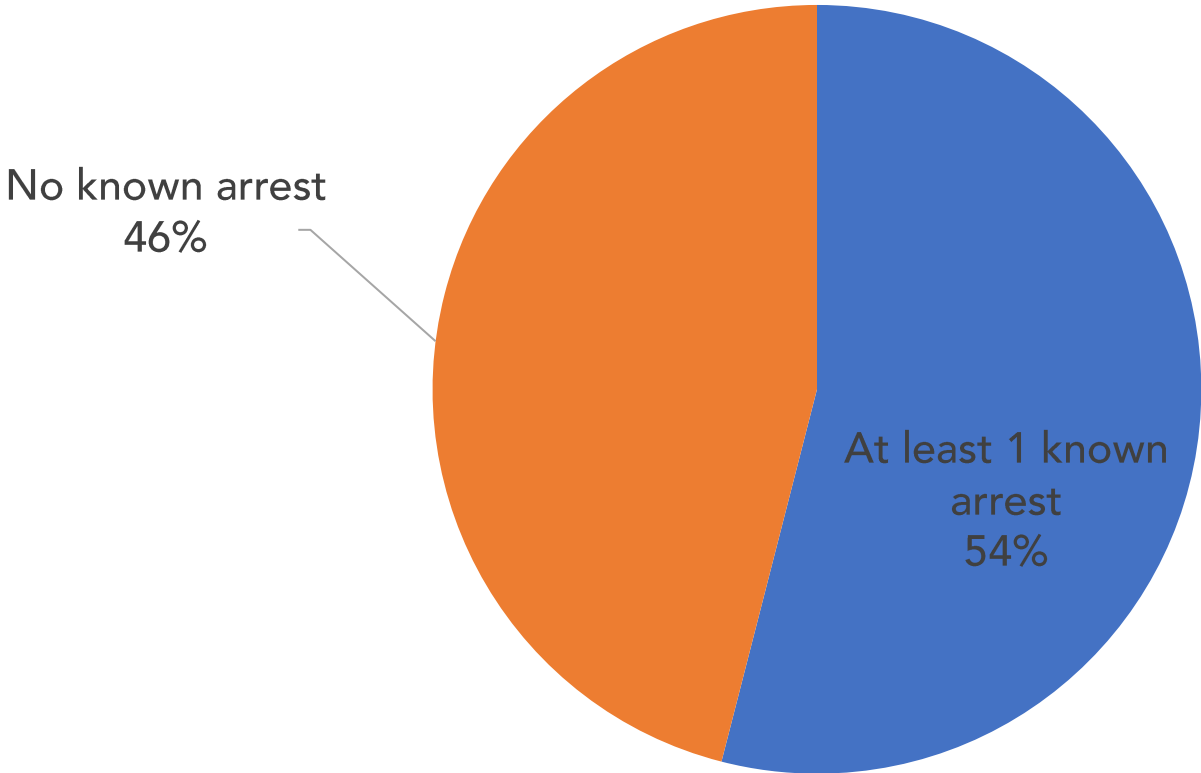
Total cases with at least 1 known ED visit = 155



# Sample Analysis: Known Reason for Most Recent Emergency Department Visit

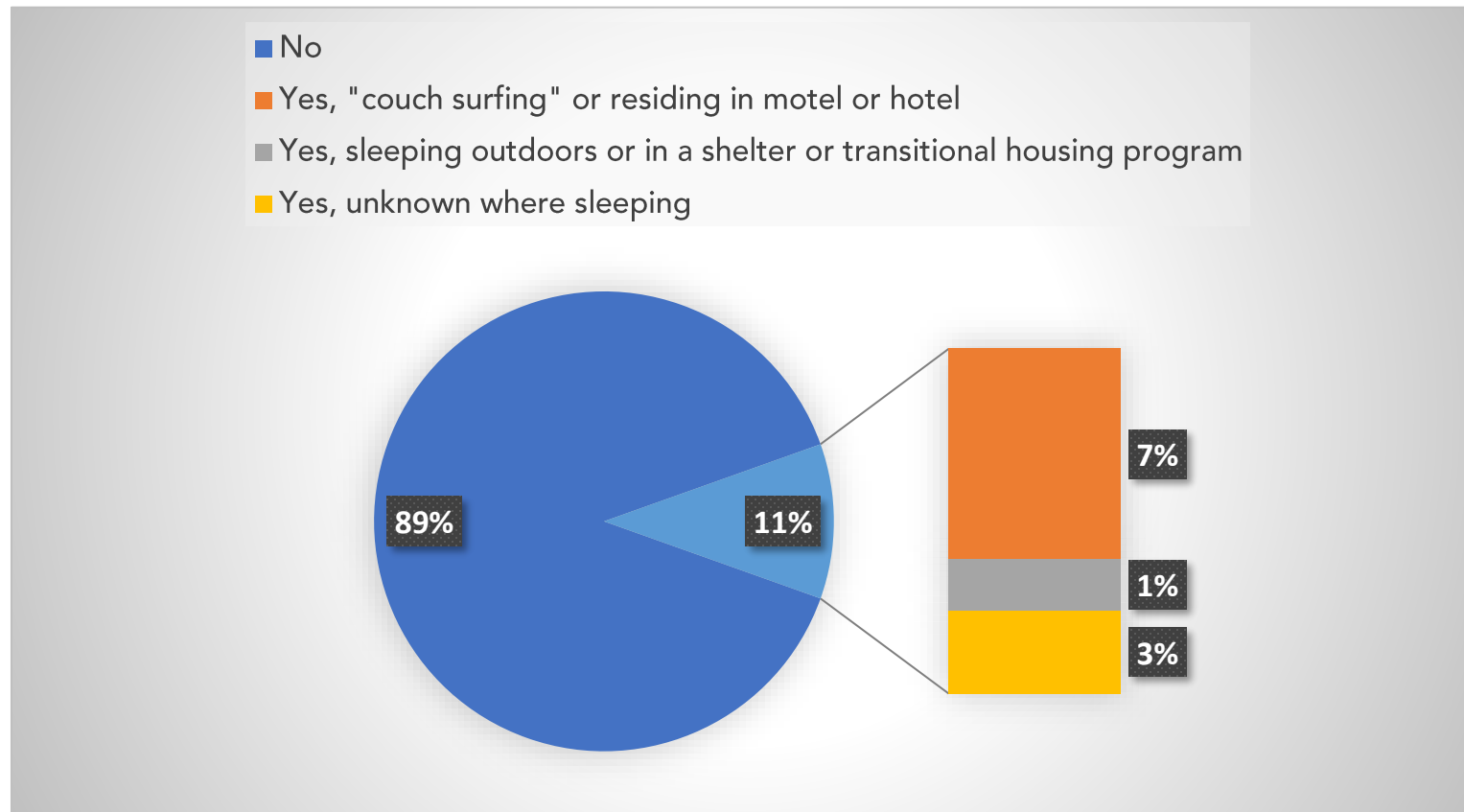


# Sample Analysis: Percent With at Least One Known Arrest

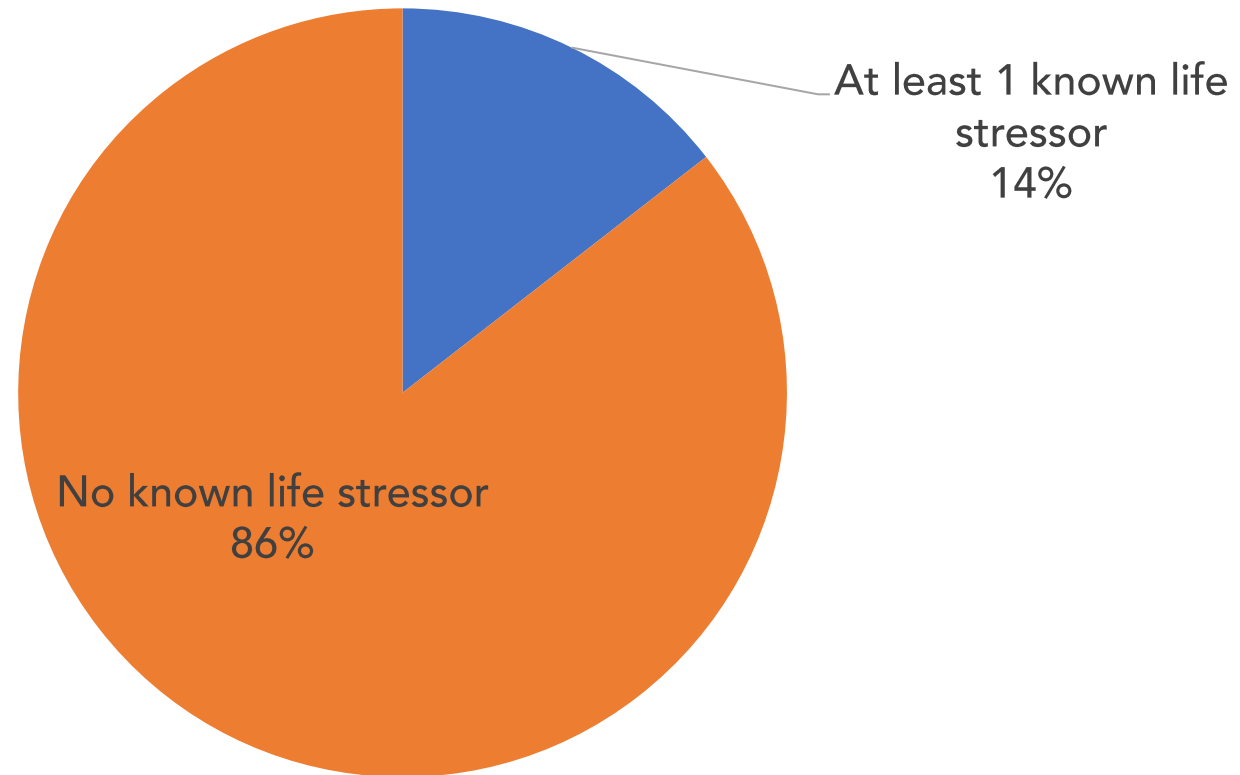




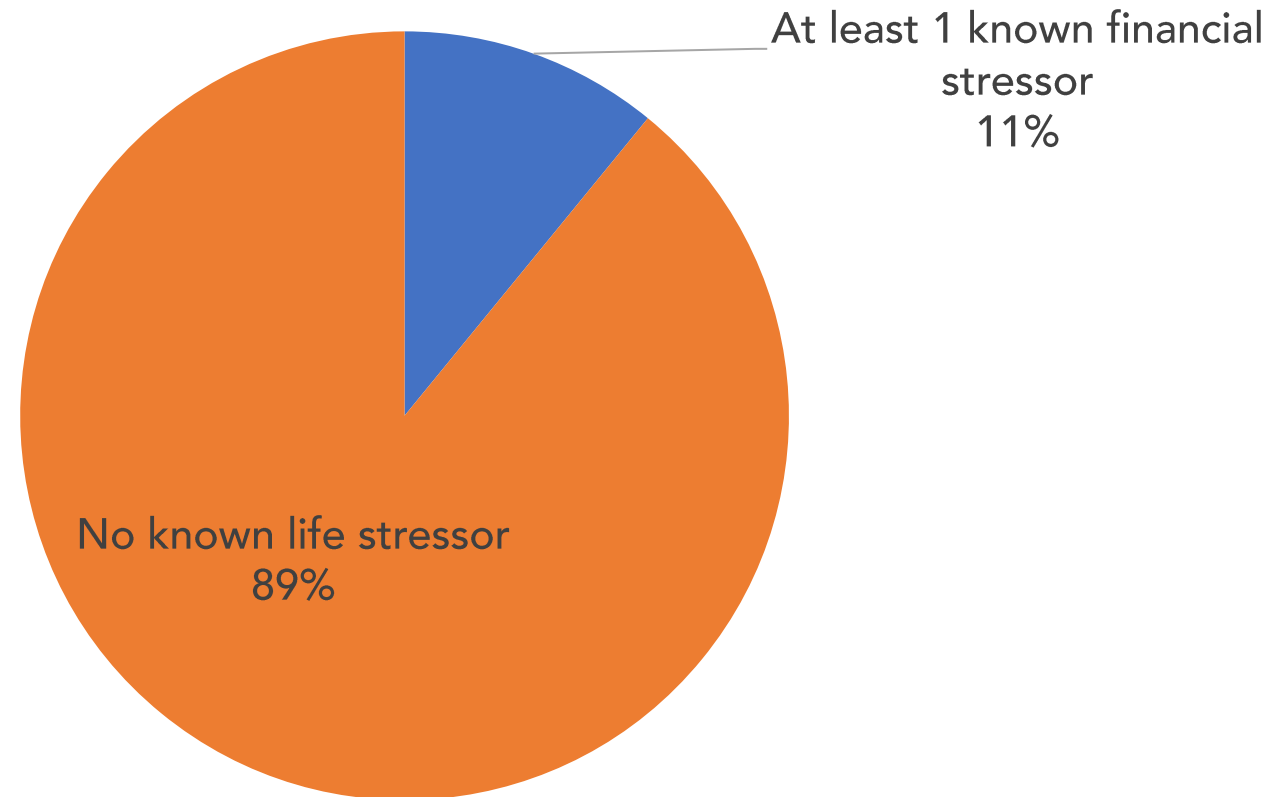
# Sample Analysis: Percent Unhoused or Experiencing Homelessness at Time of Death



# Sample Analysis: Known Life Stressor(s)



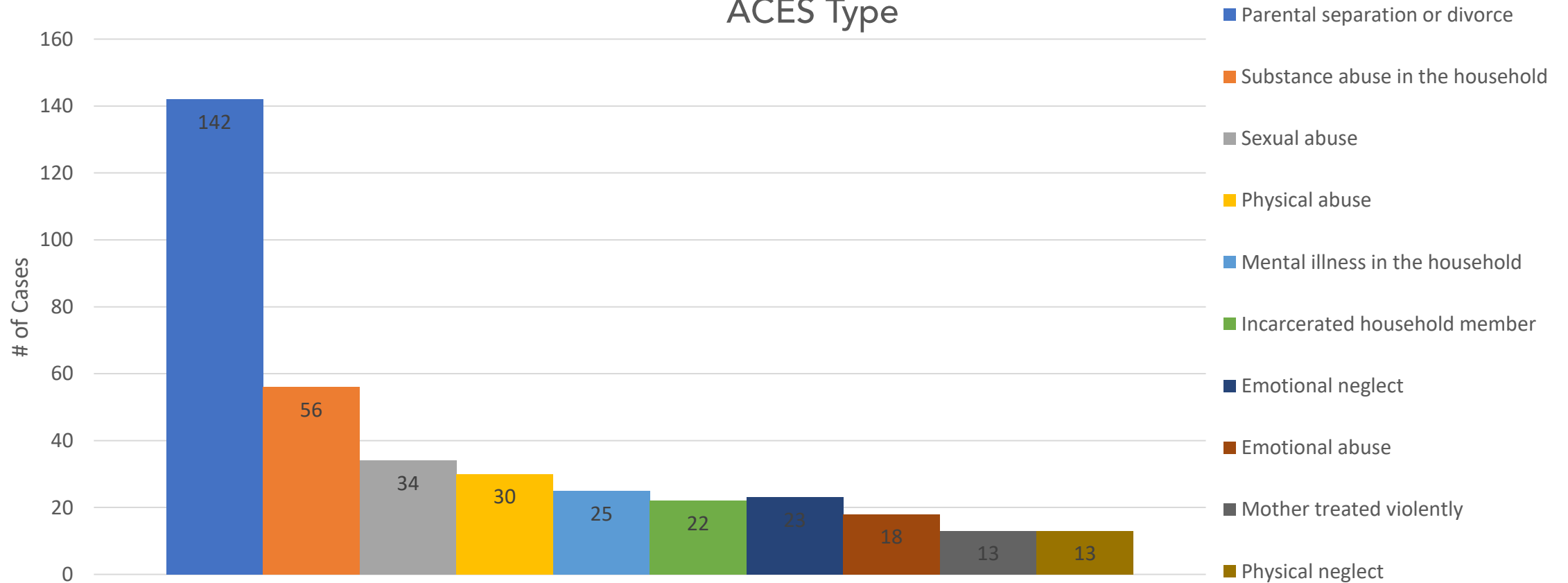
# Sample Analysis: Known Financial Stressor(s)



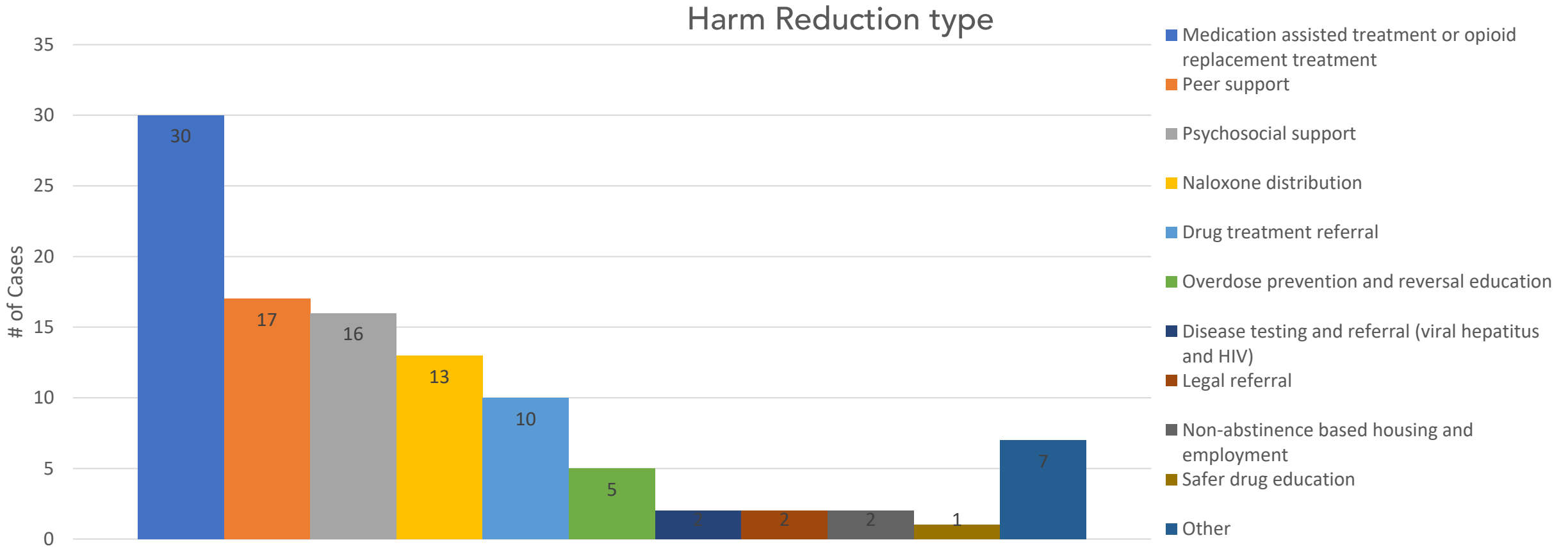
# Sample Analysis: Known History of Trauma (n=477)



ACES Type



# Sample Analysis: Known Use of Harm Reduction



# Sample Analysis: Recommendation Number

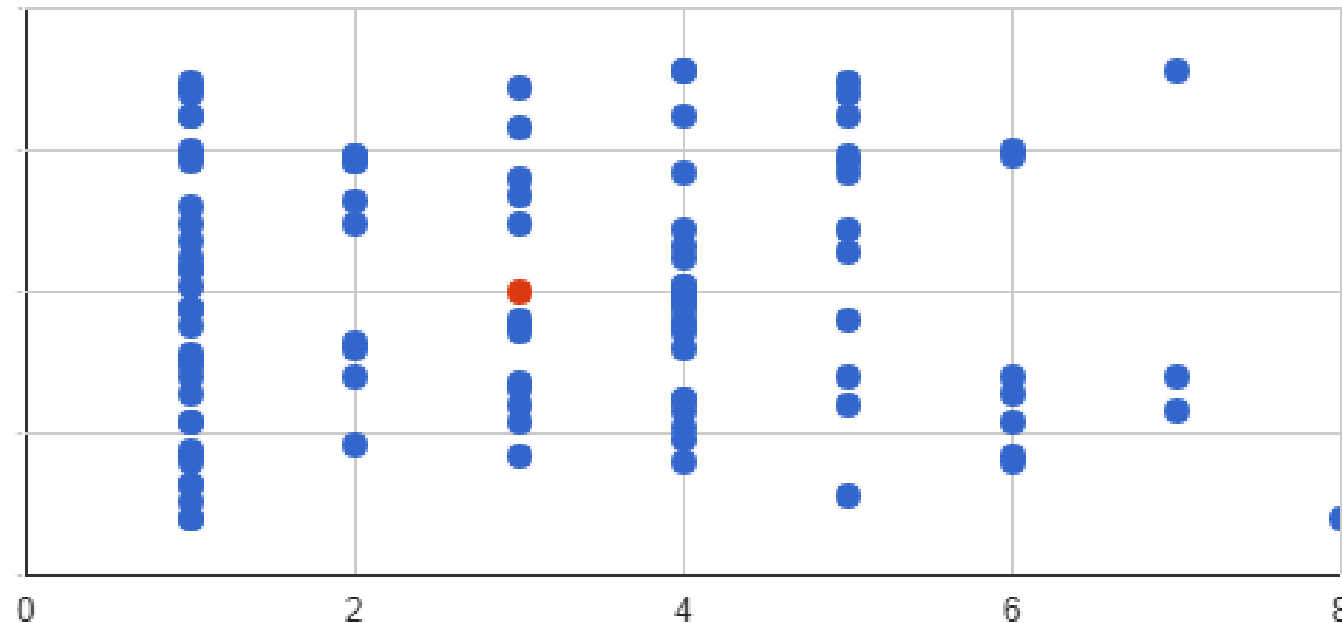


How many different recommendations were identified? (*recommend\_no*)

Total Count (N)	Missing*	Unique	Min	Max	Mean	StDev	Sum	Percentile						
								0.05	0.10	0.25	0.50 Median	0.75	0.90	0.95
103	<a href="#">12 (10.4%)</a>	8	1	8	3.07	1.86	316	1	1	1	3	4	5.80	6

Lowest values: 1, 1, 1, 1, 1

Highest values: 6, 7, 7, 7, 8

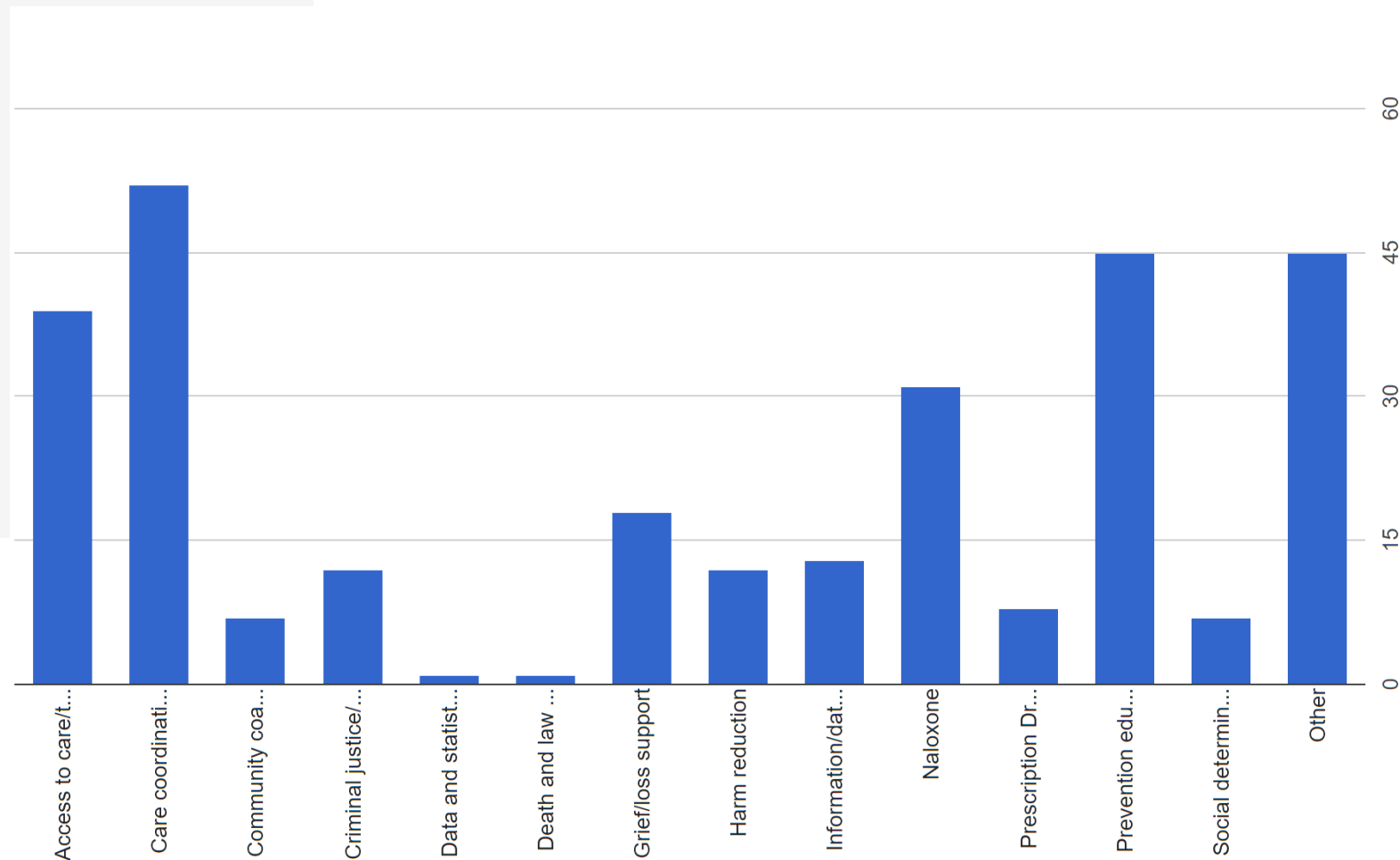


# Sample Analysis: Recommendation Type



What types of recommendation strategies were identified? (Check all that apply.)

- Access to care/treatment
- Care coordination, referral, and follow-up
- Community coalition/collaboration
- Criminal justice/law enforcement intervention
- Data and statistics
- Death and law enforcement investigation
- Grief/loss support
- Harm reduction
- Information/data sharing
- Naloxone
- Prescription Drug Monitoring Program (PDMP)
- Prevention education/awareness
- Social determinants of health (e.g., housing stability)
- Other





# Tools & Resources



# OFR Data System Guidance Documents



## 1. OFR Administration

### 1.1) Case-unique identifier (REDCap generated)

Variable: case\_id

Question type: Automatically generate by REDCap

Definition: REDCap will generate a unique case ID.

Guidance: None

Reference: None

### 1.2) Name of person completing this form

Variable: contact\_name

Question type: Text entry

Definition: First and last name of the person completing this case record information.

Guidance: These are the first and last names of the person entering the data for this case.

Reference: None

Overdose Fatality Review Data Instrument Guidance

### Section Tables

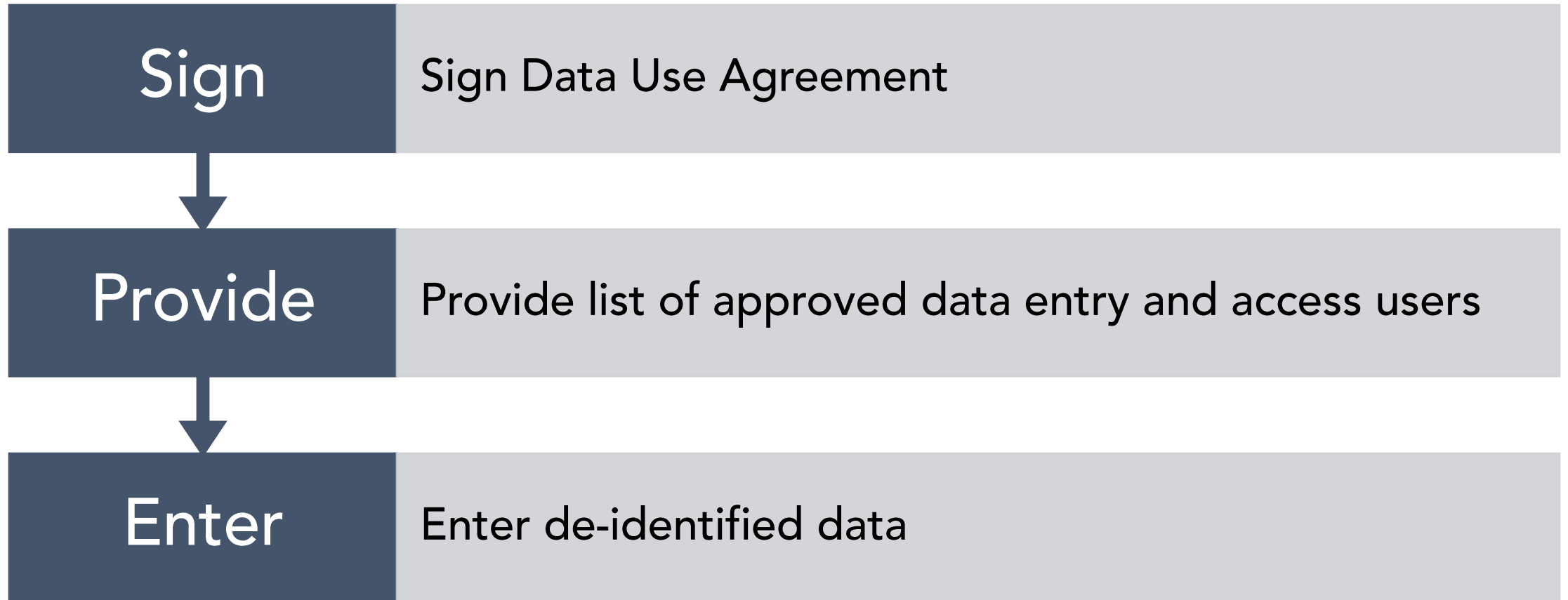
Section 1 – OFR Administration						
Variable name	Type	Description	Response options	Skip logic	Identifier?	Version
<u>case_id</u>	text	REDCap generated unique case identifier	--	None	No	1.0
<u>contact_name</u>	text	Name of person completing this form	--	None	No	1.0
<u>contact_email</u>	text (email)	Email address of the person completing this form	--	None	No	1.0
<u>form_date</u>	date	Date completing this form	--	None	No	1.0
<u>review_date</u>	date	Date case was reviewed in the OFR	09-09-9999 if exact date is not known	None	No	1.0
<u>case_criteria</u>	categorical	Criterion used to select case the case to review	0, No criteria 1, Most recent deaths 2, Random selection 3, Selected to match characteristics of overall fatalities 4, Theme review 88, Other	None	No	1.0
<u>case_criteria_theme</u>	text	Specifies the type of theme review	--	case_criteria = 4 (theme review)	No	1.0
<u>case_criteria_othr</u>	text	Specifies the other type of case criteria used to select the case to review	--	case_criteria = 88 (other)	No	1.0
<u>data_type__1</u>	binary	Data source, behavioral health record information	0, Unchecked 1, Checked	None	No	1.0
<u>data_type__2</u>	binary	Data source, criminal justice record information	0, Unchecked 1, Checked	None	No	1.0

# Access to the OFR Data System V2.0



- Local on-site REDCap Server
- State REDCap OFR Data Access Group (DAG)
- IIR REDCap OFR DAG
  
- Data access groups are a feature of REDCap that allows for multiple centers to enter data into the same database (or tool) but only have access to their own data and cannot see other centers' data

# How to Access IIR REDCap DAG



# OFR Data User Group



- Audience: Data entry staff
- What: Trainings and Q&A
  - REDCap capabilities
  - Coding questions
  - Guidance interpretation
  - General troubleshoot
- Third Tuesday of even months at 2:00 p.m., ET



# www.OFRTools.org



Have a question regarding the OFR Data System?  
Check out these demo videos!

SEE DEMO VIDEOS



Demonstration for  
OFR Data System:  
How to Find My OFR  
Data System Projects

Demonstration for OFR Data  
System: How to Find My OFR Data  
System Project?



WHAT TO INCLUDE IN THE NARRATIVE SECTIONS?

What to include in the narrative  
sections?



WHAT IS THE DIFFERENCE BETWEEN REFERRED  
AND PROVIDED?

What is the difference between  
referred and provided?

# Future of OFR Data System



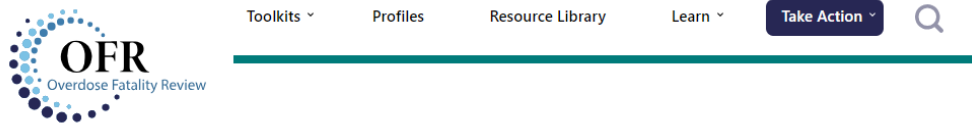
- Develop statistical programming language
- Request and analyze data
- Release reports
- Enhance data system
  - Expand to include suicide-related information
  - Streamline data flow – National Violent Death Reporting System (NVDRS) and State Unintentional Drug Overdose Reporting System (SUDORS)
- Develop Version 3.0
- Release minimum dataset

# Additional Support Available!



## OFR Email Exchange

- Great way to network with your peers!



## OFR Message Exchange Sign-Up

The OFR message exchange is a platform for those involved in Overdose Fatality Reviews to engage with one another. Enrollment in this message exchange is by permission only, and the [terms of use](#) apply.

The fields marked with the \* are required.

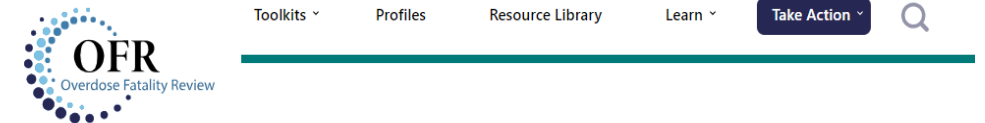
First Name\*

Last Name\*



## Training and Technical Assistance (TTA) Request

- Expertise is available to support your OFR efforts
- We are here to help you troubleshoot day-to-day challenges as they arise



## Training and Technical Assistance Request

Regardless of funding source, anyone can request OFR training and technical assistance. Expertise is available to support the expansion and development of overdose fatality review (teams) through a variety of formats, including but not limited to:

- Host one-on-one calls to troubleshoot day-to-day challenges
- Identify available resources and materials
- Connect TTA requestor to peers in the field
- Present to team or meeting attendees
- Convene professionals to address a need
- Facilitate virtual meetings and workshops



# OFR Mentor Site Opportunities



- The purpose of the Overdose Fatality Review (OFR) Mentor Program is to elevate, communicate, and leverage OFR promising practices while building bridges between nascent teams and those with demonstrated success. The OFR Mentor Program provides a unique opportunity to learn the application and practice of OFR from experienced peers
- Interested sites can apply here



**Overdose Fatality Review**

## Peer Mentor Site Opportunities

The purpose of the Overdose Fatality Review (OFR) Peer Mentor Program is to elevate, communicate, and leverage OFR best promising practices, while building bridges between nascent teams and those with demonstrated success. The OFR Peer Mentor Program provides a unique opportunity to learn the application and practice of OFR from experienced peers.

**OFR Peer Mentee Application**

OFR peer mentor participants are matched to an experienced mentor site program that provides consultation and support through direct communication and a virtual\* OFR site visit, to see first-hand how OFRs work in practice.

A typical OFR mentee experience will include:

- One-hour introductory call at least one week before the OFR virtual site visit
- Two-hour OFR observation
- One-hour post review discussion call at least one week after the OFR virtual site visit
- Facilitated discussions with one or two OFR members as requested by peer mentee
- Feedback to IIR by both mentor and mentee about their experience

(\*Note: In-person virtual site visits are on hold during the COVID-19 response.)

Request a virtual site visit by completing this online form. ([http://s.ilr.com/OFRSite\\_Visit](http://s.ilr.com/OFRSite_Visit))

**OFR**  
Overdose Fatality Review

BJA's  
**Comprehensive**  
Opioid, Stimulant,  
and Substance Abuse  
Program

The flyer features a central image of a diverse group of people standing in a circle with their hands raised, symbolizing community and support. The text is presented in a clean, professional layout with clear headings and bullet points.



# Questions?