SUMR @ PENN 2021

Combining Statewide Data-Linkages on Opioid Overdose

Presentation by: Sona Fokum

Mentoring by: Dr. Jake Morgan and Dr. Zachary Meisel



Project Overview

CHERISH Research

Center for Health Economics of Treatment Interventions for Substance Use Disorder, HCV, and HIV)

 a multi-institutional Center of Excellence funded by the National Institute on Drug Abuse (NIDA) **Goal**: build an online resource to organize and unify state-level information for opioid overdose data and policies

Aim: to detail tips for success and potential challenges to establishing linked-records databases at the state level to address the opioid crisis.

How: assemble a group of experts and stakeholders and to understand how data linkages have been handled across the country.





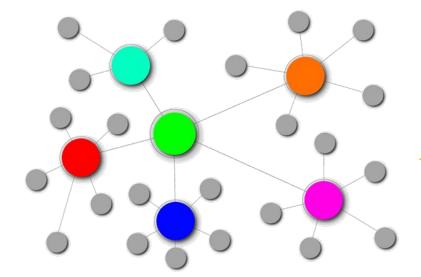








 a method of bringing information from different sources together about the same person or entity to create a new, richer dataset



- highlights key gaps or challenges for existing data-collection and analysis efforts
- outlines potential steps that could be taken to overcome these challenges

Significance

- Combining the many public health interventions reduces opioid overdose
- Many stakeholders and departments have limited resources/information
- There is a need for a database or model states can follow

THE OPIOID EPIDEMIC BY THE NUMBERS



70,630 people died from drug overdose in 2019²



10.1 million
people misused prescription
opioids in the past year¹



1.6 million
people had an opioid use
disorder in the past year



2 million
people used methamphetamine
in the past year¹



745,000 people used heroin in the past year¹



50,000
people used heroin for the first time¹



1.6 million
people misused prescription
pain relievers for the first time



deaths attributed to overdosing on synthetic opioids other than methadone (in 12-month period ending June 2020)³



14,480 deaths attributed to overdosing on heroin (in 12-month period ending June 2020)³

SOURCES

- 1. 2019 National Survey on Drug Use and Health, 2020.
- 2. NCHS Data Brief No. 394, December 2020.
- NCHS, National Vital Statistics System. Provisional drug overdose death counts.





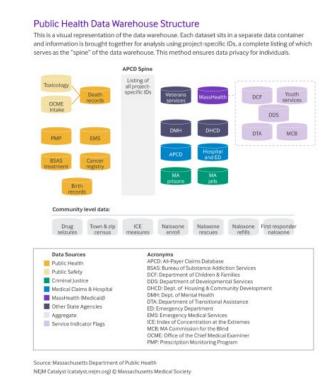
Literature Review

An Assessment of Fatal and Nonfatal Opioid Overdoses in Massachusetts (2011 – 2015)

The Commonwealth of Massachusetts Executive Office of Health and Human Services

Using Data to Guide Action in Response to the Public Health Crisis of Opioid Overdoses

Monica Bharel, MD, MPH, Dana Bernson, MPH, Abigail Averbach, MSc





- Propose the idea during meetings with CHERISH Team
- Through search of Google Scholar, PubMed, and public health and health department websites
- Developed a list of first contacts
- Hosted information interviews with stakeholders

Initial State Research

	Α	В	C	D	E	
1	State	Department/Center	Contact	Notes	Source of information (published paper, project, etc.)	Addi
2	Alabama	Alabama Department of Public Health	Phone: (334) 206-5226	The Alabama Department of Pu	https://www.alabamapublichealth.gov/pharmacy/ddpi.html https://www.alabamapublichealth.gov/pharmacy/ddpi.html	tp: not c
3	Alaska	Alaska Mental Health Trust	complete this DataTel: 907-269	The national opioid epidemic	https://alaskamentalhealthtrust.org/wp-content/uploads/2019	<u>/0</u> not c
4	Arizona	Arizona Department of Health Service	Cara M. Christ, MD, Director Ar	We also continue to monitor da	https://directorsblog.health.azdhs.gov/update-on-the-opioid-fi	or not c
5	Arkansas	Arkansas Opioid Response Dashboar	Arkansas Drug Director Kirk Lar	The Arkansas Opioid Response	https://afmc-analytics.maps.arcgis.com/apps/MapSeries/index	.ht not c
6	California	UCLA	Vandana Joshi: VJoshi@medne	t collaboration may not feasible f	or this grant due to budget core data is from Los Angeles county	r have
7	Colorado	Colarado Department of Public Health	odprevention@state.co.us	The Drug Overdose Dashboard	https://cohealthviz.dphe.state.co.us/t/PSDVIP-MHPPUBLIC/vie	ws not c
8	Conneticut	Yale School of Medicine	William C. Becker, Robert Heim	Abstract: Objective: Describe m	Merging statewide data in a public/university collaboration to ad	dr not c
9	Delaware	Delaware Health and Social Serivices	Karyl Thomas Rattay, MD, MS, I	As drug overdose deaths cor	https://www.dhss.delaware.gov/dhss/dph/files/dedrugoverdo	er not c
10	Florida	Florida's State Opioid Response Proje	Juliet Gerstenfeld Juliet.Gerster	Florida's State Opioid Response	https://www.myflfamilies.com/service-programs/samh/opioids	TF not c
11	Georgia	Georgia Department of Public Health	Opioid Misuse response unit ga	The Opioid and Substance Misu	https://dph.georgia.gov/stopopioidaddiction/georgias-opioid-r	es not c
12	Hawaii	Department of Health State of Hawaii	Hawaii Department of Health A	The annual report covering Fisc	https://health.hawaii.gov/opppd/files/2020/12/2021-ADAD-Le	g-f not c
13	Idaho					not c
14	Illinois	Illinois Department of Public Health	Jennifer Epstein, Director of Str	Opioid data dashboard	https://idph.illinois.gov/OpioidDataDashboard/	not c
15	Indiana					not c
16	lowa	Iowa Department of Public Health	Randy Mayer, Chief Bureau of H	This report summarizes the dev	https://idph.iowa.gov/Portals/1/userfiles/40/Vulnerability%20	nc not c

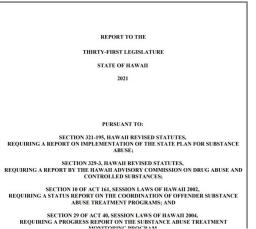
The Heterogeneous Mix

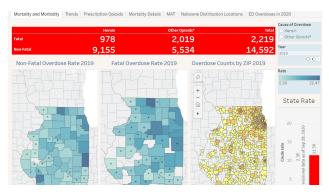
Academic Articles

Reports

Dashboards







Stakeholder Interviews

First Group of Contacts:

Kentucky Maryland

Tennessee Illinois

Utah Delaware

Maine Pennsylvania

New York Connecticut

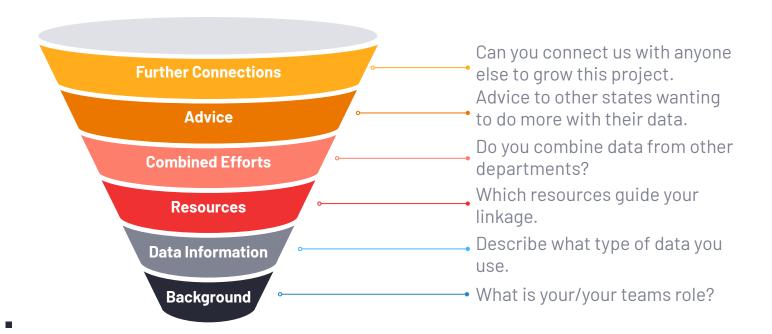
Ohio

Methodology of First Contacts:

- Personal contacts
- Wide range
- Intimate for organizational purposes



Interview Questions





Main Points from Interviews

- Experts in data-linkage range from interns to Chief of Directors
- There are varying opinions on whether legislature should be involved in the dissemination of these linked-record databases
- Some interested in public presentation of data and further combination from different departments
- Many would find a model and a collaborative group helpful

Lessons Learned

- There is great value in personal relationships and networking
- Patience and diligence are key for a thorough search
- How to conduct and Information interview with experts and stakeholders in this field

What's Next?

- Continue interviews with stakeholders
- Build more secondary and tertiary connections with new states
- Find more information about legislative mandates within different states and whether data experts find it helpful or harmful
- Organize collaborative meeting/conference with the stakeholders from multiple states across the nation

Acknowledgements:



Dr. Jake Morgan



Dr. Zachary Meisel

Thank you!

Questions or Comments?