Leveraging Social, Behavioral, and Health Data Harold Rogers PDMP – National Meeting

June 26, 2019





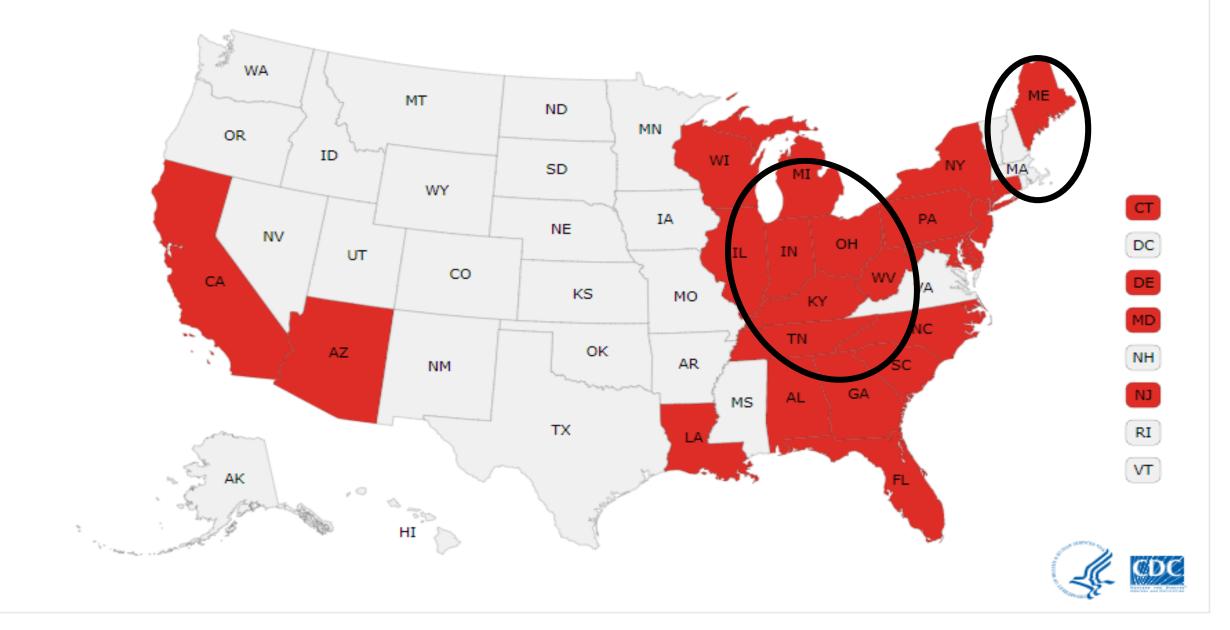
Regional Judicial Opioid Initiatives

Components

- Judicially led effort
- Multi-state
- Champions Chief Justice of Supreme Court (and State Court Administrators)
- Charter (purpose/membership)
- Recognition of effects (complexity/fatality) on: Criminal dockets Family Court dockets
- Courts are an active part of the solutions
- Responses should be driven by data (when available)

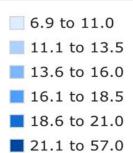


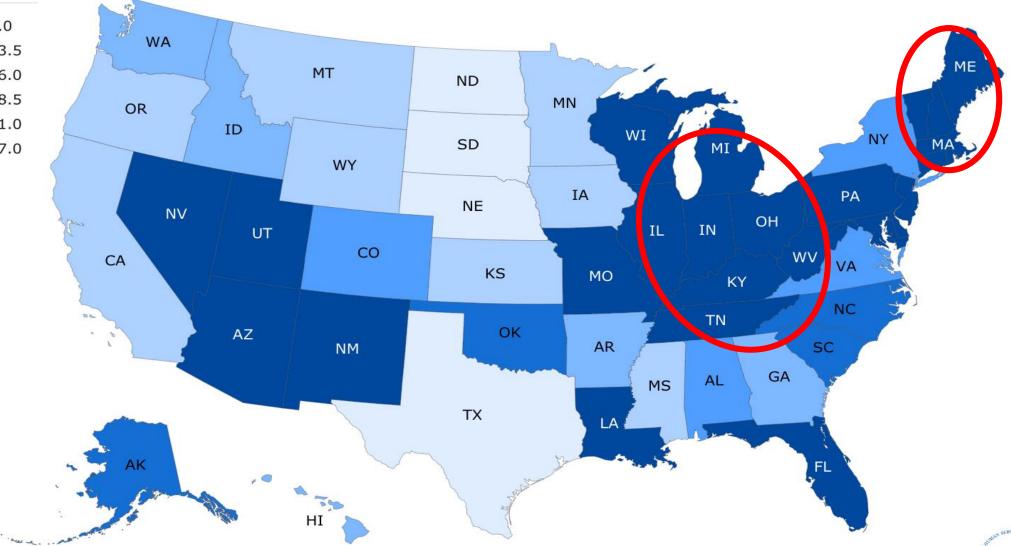
Statistically significant drug overdose death rate increase from 2016 to 2017, US States



Number and age-adjusted rates of drug overdose deaths by state, US 2017

Legend





Age-adjusted death rates were calculated as deaths per 100,000 population using the direct method and the 2000 standard population. SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.



СТ

DC

DE

MD

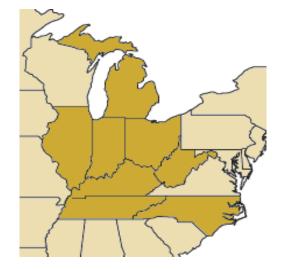
NH

NJ

RI

VT

Appalachia/ Midwest (2017)



New England (2019)

IL, IN, KY, MI, NC, TN, OH, WV

CT, MA, ME, NH, RI, VT

Attention on areas around state boundary lines (access to treatment or services, data sharing, hot spots)



Appalachia/ Midwest (2017)



IL, IN, KY, MI, NC, TN, OH, WV

New England (2019)



CT, MA, ME, NH, RI, VT

REGIONAL JUDICIA

Consider data as a region and when appropriate allow regional data to influence decisions.

Data Approach

- Increase data sharing across state borders and disciplines.
 - Share aggregate data sets, including multiple systems, within and across the multi-state region. (e.g. OH merge and review of PDMP and Child Welfare data)
 - Share identifiable data across state borders (e.g. PDMPs)
 - Compare "like" data across the region to inform practices (e.g. PDMP data dictionary applied to data)
- Use data to make decisions.
 - Identify hot spots areas across the region with a focus on state borders
 - Focus interventions on the identified hot spot areas



Prescription Drug Monitoring Data

- Number of total opioid prescriptions dispensed
- Number of total opioid pills dispensed
- Number of unique patients receiving an opioid
- Number of opioid-benzodiazepine co-prescriptions
- Number of opioid prescriptions with daily dosage (MME) >50

Vital Records

- Number of drug overdose deaths
- Number of overdose deaths with opioids being a contributing factor
- Number of overdose deaths with undetermined substances r

Hospital and Emergency Medicine

- Number of ED visits with opioids as a contributing factor
- Number of hospitalizations with opioids as a contributing factor
- Number of babies born with neonatal abstinence syndrome (NAS) Naloxone Administration (first responders)
- Number of naloxone administrations by emergency medical services

- Number of naloxone administrations by police
- Number of persons with repeat naloxone administrations

Substance Abuse Treatment

- Number of opioid treatment programs (OTPs)
- Number of substance abuse treatment admissions due to opioids
- Number of patients receiving medication assisted treatment (MAT) Child Welfare / Family Services
- Number of child welfare referrals
- Number of cases where a child was removed from the home
- Number of cases... because of parental drug use
- Number of cases... because of parental opioid use

Law Enforcement / Courts

- Number of drug related arrests
- Number of opioid related arrests
- Number of drug related prison incarcerations
- Number of opioid related prison incarcerations





Data Availabilty by State									
	KY	IL	IN	MI	ОН	ΤN	WV	NC	
Prescription Drug Monitoring Program (PDMP)	Х		Х	х	Х	х	Х	х	
Vital Records (Mortality)	Х	Х	Х	х	Х	х	Х		
Hospital and Emergency Medicine	Х		Х	х	Х	х	Х		
Naloxone Administration	Х	Х	Х	х	Х	Х	Х		
Substance Abuse Treatment	Х	Х	Х	х	Х	Х	Х		
Child Welfare/Family Services	Х	Х	Х	х	Х	х	Х	Х	
Criminal Justice	Х		Х	Х	Х	Х	Х	Х	





Naloxone Administration (first responders)								
	Availability							
Data Points	by YEAR	RANGE	by MONTH	by COUNTY	by ZIP CODE			
Number of naloxone administrations by emergency medical services (EMS)	KY, IN, MI, OH, WV	KY-2017 IN-2014 MI-2015 OH-2010 WV-2015	IN, MI, OH, WV	KY, IN, MI, OH, WV	IN, OH, WV			
Number of naloxone administrations by law enforcement	KY, IL, TN, WV	KY-2017 IL-2013 IN-2016 TN-2017 WV-2015	IL, TN, WV	KY, IL, TN, WV	IN, TN, WV			
Number of persons with repeat naloxone administrations (different days, not same event)	IL, IN, WV	IL-2013 IN-2015	IL, IN, WV	IL, IN, WV	WV			





- Establish RJOI and RJOI stakeholders as a credible source to request information
- Relationship building
- Data Agreements
- Use the state's Judges to request the data





Prescription Drug Monitoring Program (PDMP)									
Total opioid prescriptions dispensed									
Total opioid pills dispensed									
Unique patients receiving an opioid									
Opioid-benzodiazepine co-prescriptions									
Opioid prescriptions with daily dosage of MME >50									
received opioid prescriptions from 4 or more different prescribers in the past month									
Vital Records (Mortality)				•		•			
Drug overdose deaths									
Overdose deaths with opioids being a contributing factor									
Overdose deaths with undetermined substances as being a contributing factor									
Hospital and Emergency Medicine					•				
Emergency department (ED) visits with opioids as a contributing factor									
Hospitalizations with opioids as a contributing factor									
Number of babies born with neonatal abstinence syndrom e									
Naloxone Administration (first responders)									
Naloxone administrations by emergency medical services (EMS)									
Naloxone administrations by law enforcement									
Persons with repeat naloxone administrations (different days, not same event)									
Substance Abuse Treatment									
Inpatient opioid treatment programs (OTPs)									
Outpatient opioid treatment programs (OTPs)									
Substance abuse inpatient treatment admissions due to opioids									
Substance abuse outpatient treatment admissions due to opioids									
Patients receiving inpatient medication assisted treatment (MAT)									
Patients receiving outpatient medication assisted treatment (MAT)									
Office-based opioid treatment (OBOT) programs									
Child Welfare / Family Services									
Child welfare referrals									
Cases where a child was removed from the home									
Cases where a child was removed from the home because of parental drug use									
Cases where a child was removed from the home because of parental opioid use									
Criminal Justice (arrests, court cases, incarcerations)									
Adult drug related court cases									
Juvenile drug related court cases									
Adult opioid related court cases									
Juvenile opioid related court cases									
Adult drug treatment courts									
Juvenile drug treatment courts									
Drug related prison incarcerations									
Opioid related prison incarcerations									
Locations of jails with medication-assisted-treatment (MAT) programs									
Locations of prisons with medication-assisted-treatment (MAT) programs									
Data Received									
	State does n								
	Have NOT re	ceived from s	state						



Select Display Value \rightarrow • Rate (per 100K ppl) Count

Population Characteristics

Socio Demographic ▼

▼ Age Range

▼ Disabled Status

▼ Educational Attainment

▼ Race/Ethnicity

▼ Race/Ethnicity & Sex

O White (not Hispanic) Male

O White (not Hispanic) Female

O African American Male

O African American Female

O Hispanic Male

O Hispanic Female

O Other Male

O Other Female

Economic **V**

Illinois

Indiana

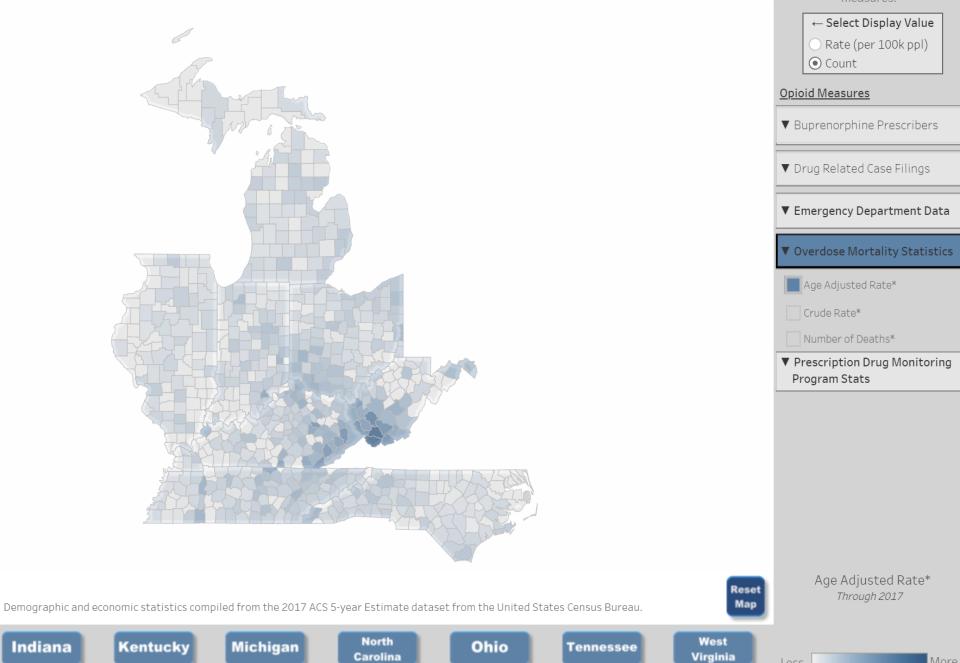
Regional Judicial Opioid Initiative

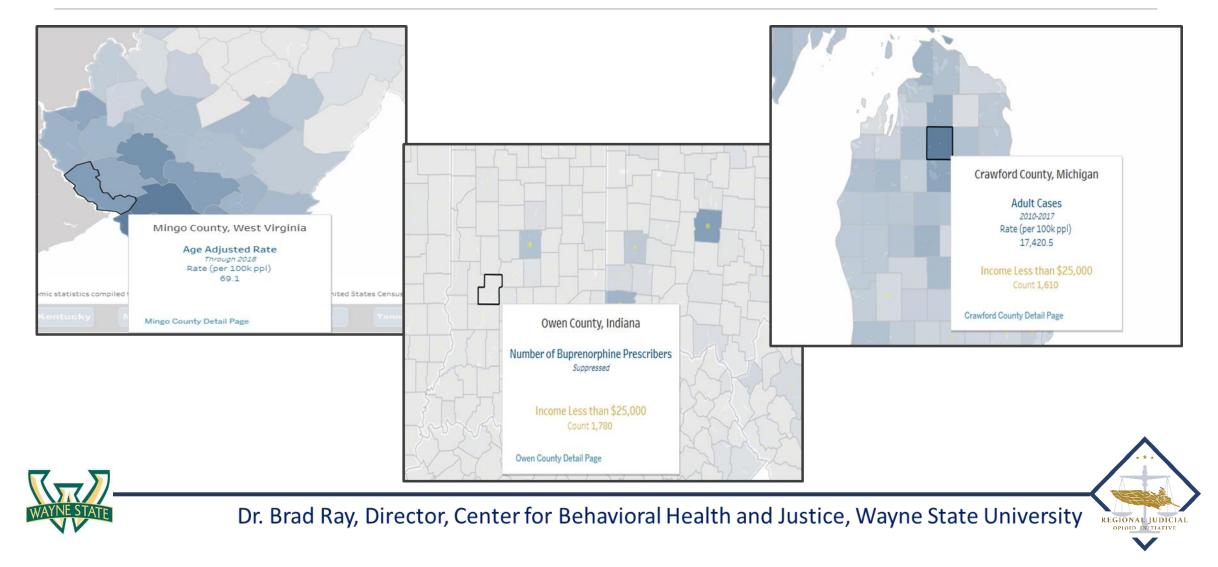
Carolina

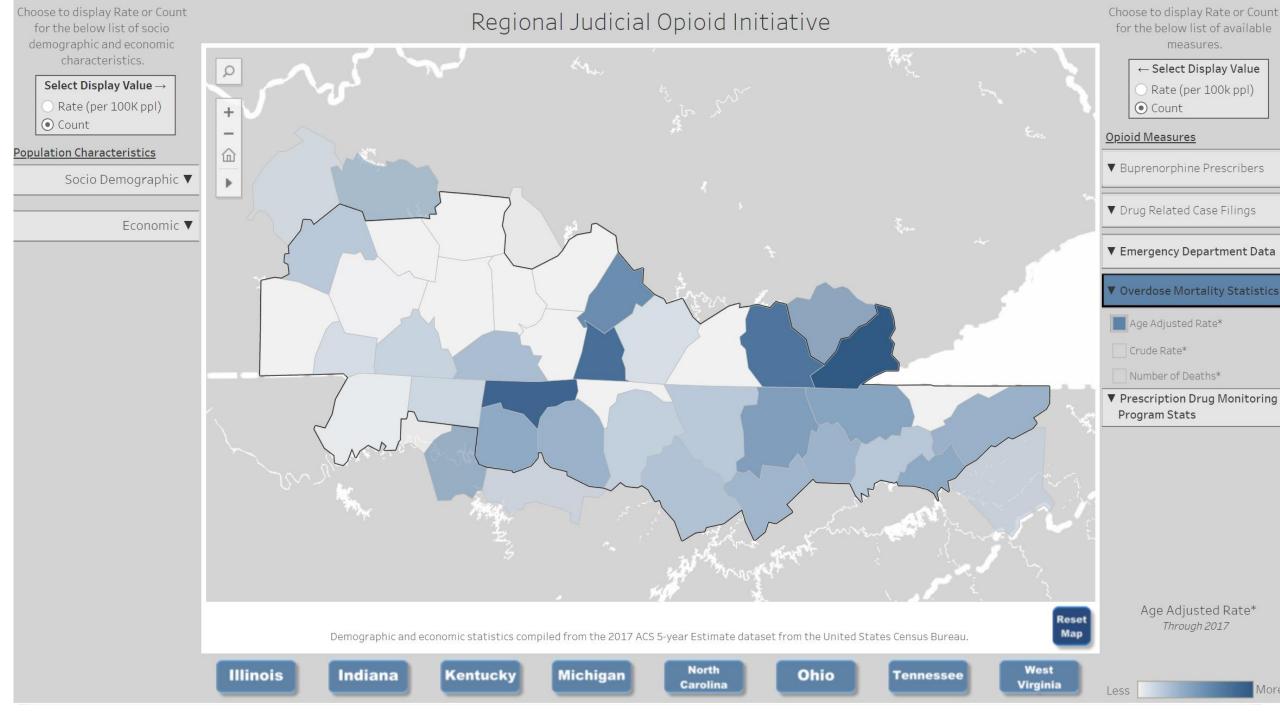
Choose to display Rate or Count for the below list of available measures.

More

Less







What we learned about the data:

- Very difficult to leverage data across system/states to better understand trends in overdose epidemic.
- Major gaps in data infrastructure





Data – Social Network Analysis

Measure - what is the nature and quality of collaboration to address the opioid epidemic among RJOI stakeholders?

SNA is a method to understand a community by mapping the relationships that connect the network.

A network map is a visualization of SNA, where each node represents an individual and each tie represents a social connection between them.

Statistical analyses performed in SNA describe:

- (1) the size of the network,
- (2) how "busy" the network is,
- (3) the presence of any sub-groups in the network,
- (4) the extent to which individuals are connected/disconnected, and
- (5) key players in the network.

REGIONAL JUDICIAL OPIOID INITIATIVE

Morgan D. Farnworth, MPA, School of Public Affairs and Administration, University of Kansas

RJOI Network Map - Federal 26 35 Office of the Assistant Secretary for Planning and Evaluation Center for Disease Control and Prevention 32 Administration for Children and Families PDMP Training and Technical Assistance Cente Trafficking Are Intensity Drug use and Mental Health Services Administration Casey Family Programs Jason Foundation Ind 6 52 lational Center for State Courts National Commission on Correctional Health Care Morgan D. Farnworth, MPA, School of Public Affairs and Administration, University of Kansas

