Prescription Drug Abuse: Developing Evidence-Based State Level Interventions

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Presenter Disclosure

The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months: No relationships to disclose.





Learning Objectives

- Discuss PMP in MS and US
- Describe Data Match
- Evaluate "Lessons Learned"



Center for Mississippi Health Policy

- Independent, non-profit organization
- Mission is to inform health policy decisions by providing sound research and analysis
- Do not advocate or lobby for particular solutions





Project Partners





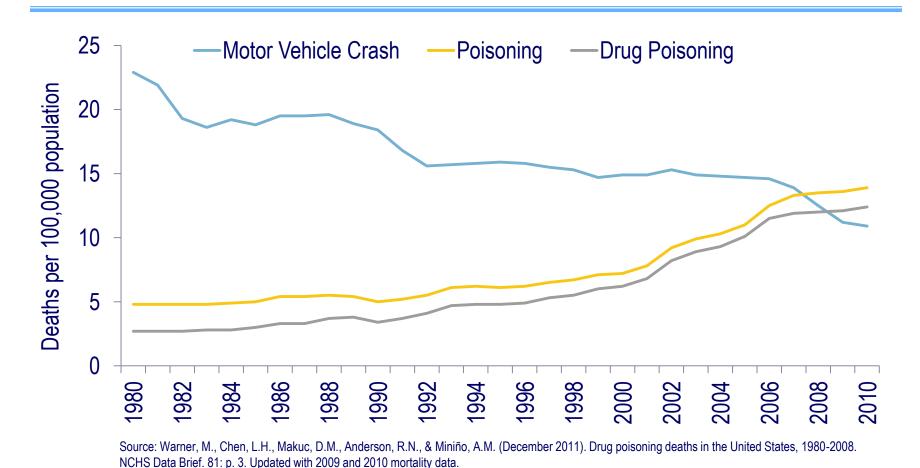


- ☐ Office of Vital Records
- Pharmacy
- MS Board of Pharmacy
- MS Prescription Monitoring Program



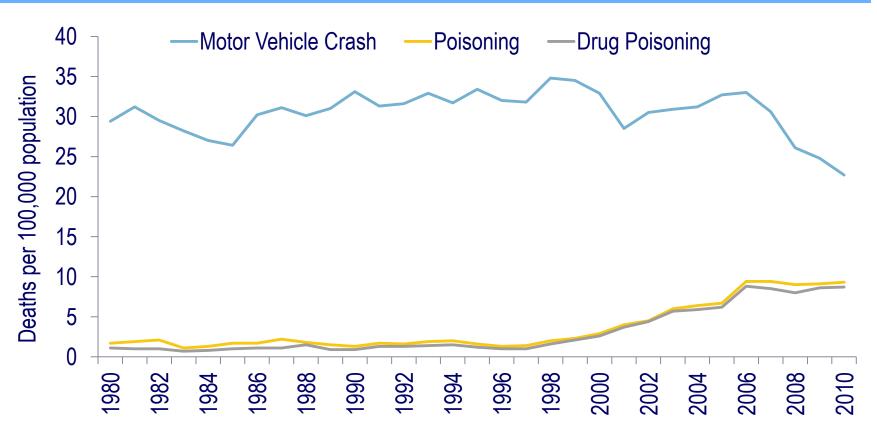










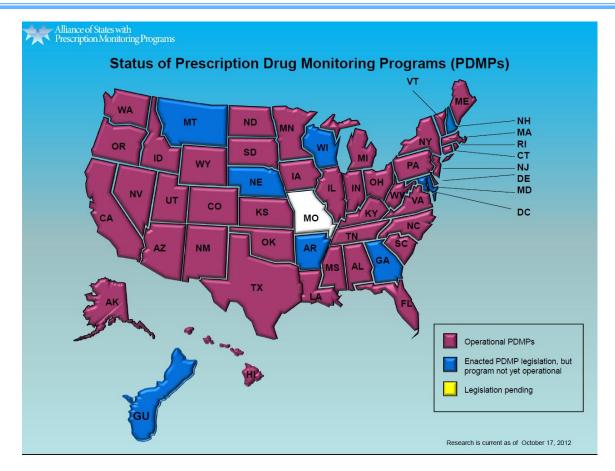


Source: Mississippi State Department of Health, Public Health Statistics. Underlying cause of death from the MSTAHRS online query system compiled from information on death certificates received from doctors, coroners, and funeral home directors by Mississippi Vital Records. Accessed at http://mstahrs.msdh.ms.gov.





Prescription Monitoring Programs (PMP) – U.S.







Prescription Monitoring Program (PMP) - Mississippi

- Began in 2004
- All prescriptions for controlled substances dispensed in or into MS must be entered in the PMP system
- Administered by MS Board of Pharmacy







Project Overview-Timeline

June 2012

August-December 2012

January-May 2013

- Approached MS PMP/MSDH
- Introductory meetings
- Background research

- Facilitatedagreement betweenstakeholders
- Set up data match
- Identified and obtained PMP reports

- PDF Excel transfer (manual data entry)
- Descriptive statistics on total population



Project Overview-Timeline

June 2013

July-September 2013

Ongoing

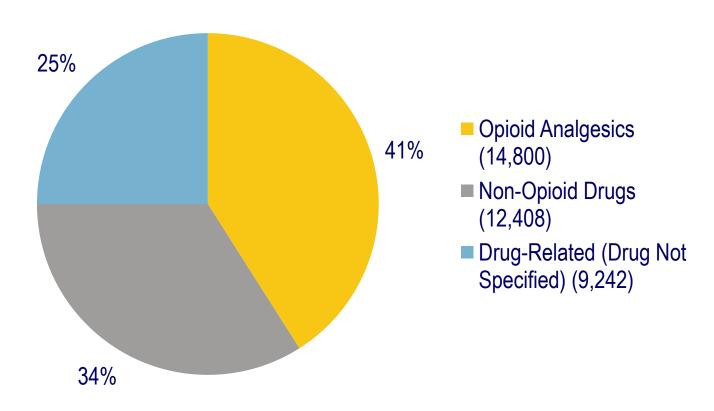
- Data analysis(SAS)
- Updated lit review for Issue Brief

- Finalized and published Issue Brief
- Began dissemination

 Encourage the use of data to drive policy-makers and stakeholder groups

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Drug Poisoning Deaths Drug Type, United States (2008)

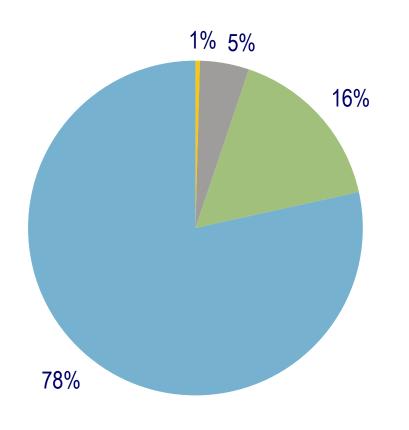


Source: Warner, M., Chen, L.H., Makuc, D.M., Anderson, R.N., & Miniño, A.M. (2011). Drug poisoning deaths in the United States, 1980-2008. NCHS Data Brief. 81: p. 2.



Center for Mississippi

Unintentional Drug Poisoning Deaths Drug Type, Mississippi (2011)



- X40: Non-Opioid Analgesics, Antipyretics, & Antiheumatics
- X41: Anti-Epileptic, Sedative-Hypnotic, Antiparkinsonism, & Psychotropic Drugs
- X42: Narcotics and Psychodysleptics (Hallucinogens)
- x44: Unspecified Drugs, Medicaments, & Biological Substances





Unintentional Drug Poisoning Deaths Drug Type, Mississippi (2011)

Top "T-Codes" Mentioned on Death Certificates (2011)

- 1. Other and unspecified (T509): 194
- 2. Other opioids (Codeine and Morphine) (T402): 42
- 3. Benzodiazepines (T424): 36
- 4. Cocaine (T405): 14
- 5. Tricyclic and tetracyclic antidepressants (T430): 13
- 6. Other synthetic narcotics (Pethidine/Demerol) (T404): 12
- 7. Methadone (T403): 11 (tied)
- 8. Other unspecified antidepressants (T432): 11 (tied)







Overview-Mississippi (2011) Unintentional Poisoning by Drug Deaths

- 232 deaths
- Demographic breakdown:
 - 16-86 years of age
 - 50 percent Male/50 percent Female
 - 90 percent White

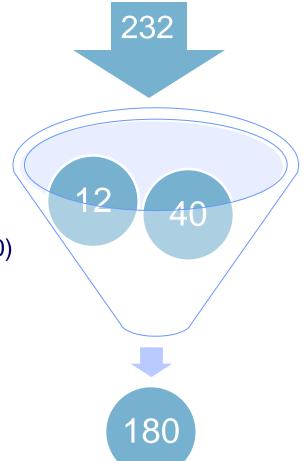




Project Overview-Background

232 Unintentional
 Drug Overdose Deaths (2011)

- 52 records not admissible for study:
 - No PMP record (12)
 - In PMP, no Rx for study period (40)



180 decedents included in study





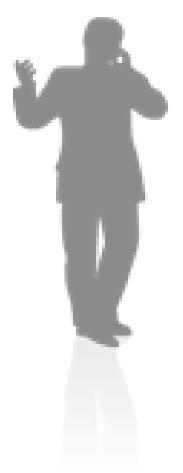
Project Findings: Total Prescriptions and Quantity

	Total Number of Prescriptions per Person	Total Number of Doses per Person
Minimum	1	15
Maximum	196	16,072
Median	33.5	1,957.5
Mean	43.1	2,780.5



Project Findings: Descriptive Statistics-Males

- Total: 82 deaths
- Mean Age: 40 years
- Mean # Prescriptions: 38
- Mean # Prescribers: 6.5
- Mean # Dispensers: 4





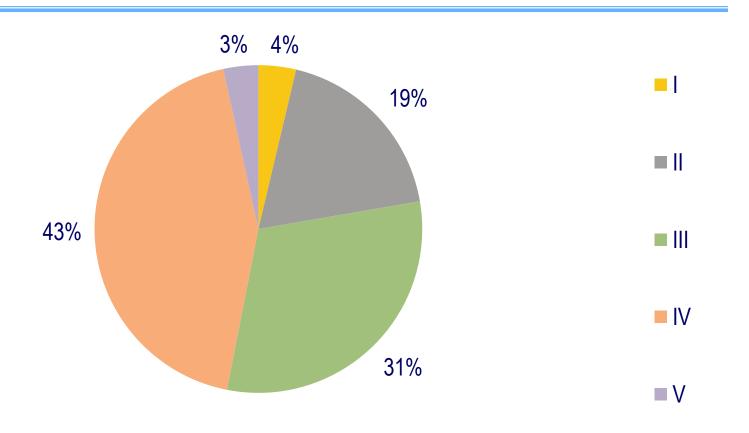
Project Findings: Descriptive Statistics-Females



- Total: 98 deaths
- Mean Age: 45 years
- Mean # Prescriptions: 47
- Mean # Prescribers: 7
- Mean # Dispensers: 4.5

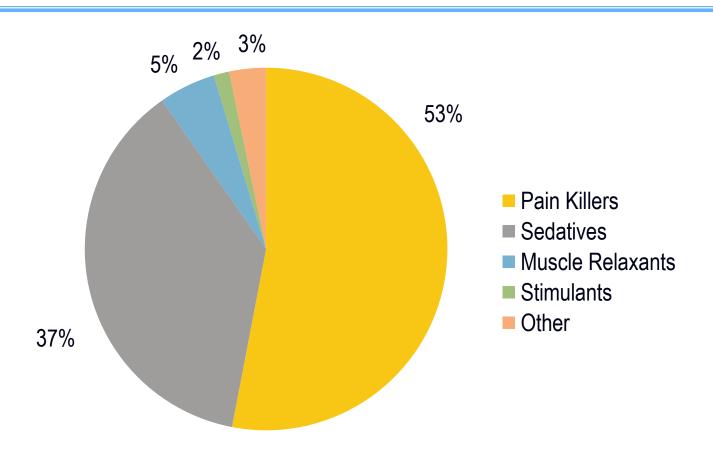


Project Findings: Distribution by Drug Schedule



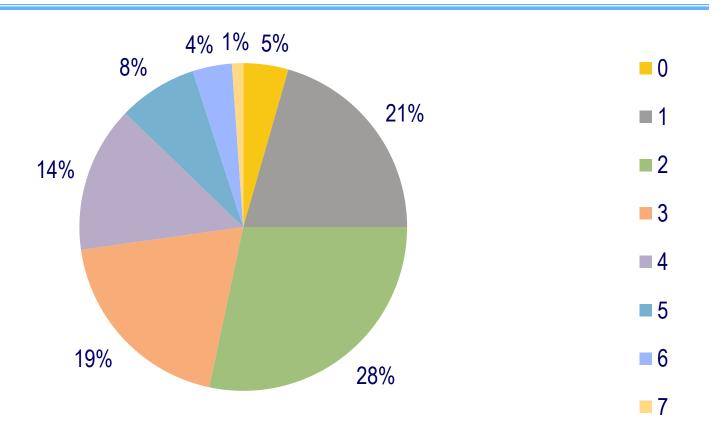


Project Findings: Prescriptions by Drug Category



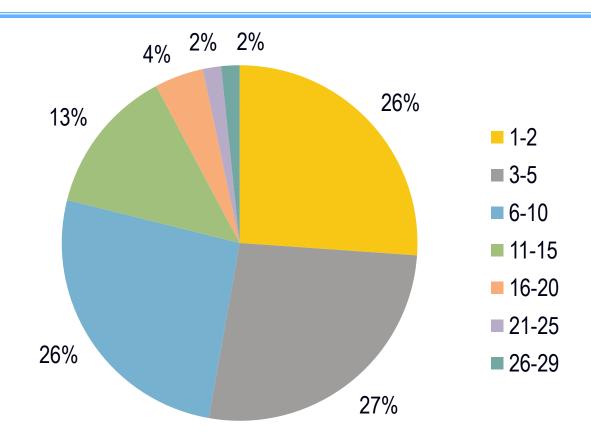


Project Findings: Number of Unique Opioid Rxs



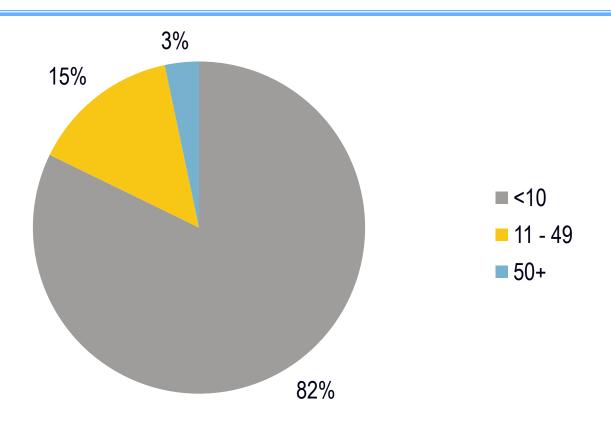


Project Findings: Number of Prescribers per Decedent





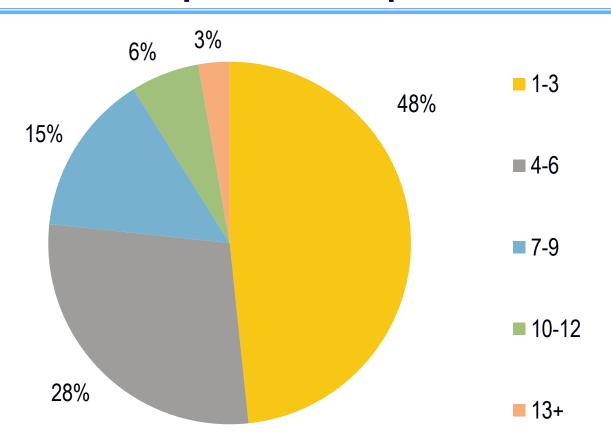
Project Findings: Prescriptions Written per Prescriber





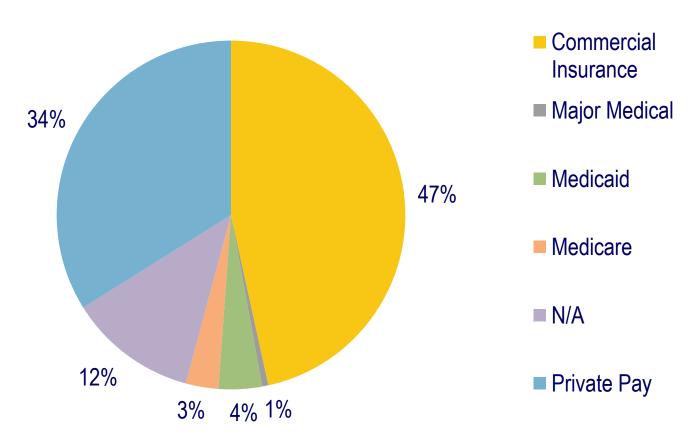
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Project Findings: Number of Dispensers per Decedent





Project Findings: Source of Payment





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Next Steps

- Larger data match
- Regular reporting to PMP Advisory Board
- Use of other data sets





Resources for States



State-by-state analysis of current and potential policies to impact Rx abuse and overdose (Oct 2013): http://healthyamericans.org/healthissues/rx-drug-abuse-report-app

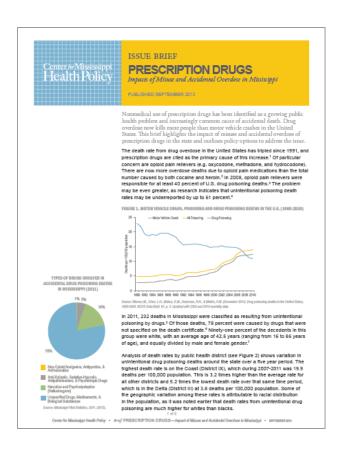


National Governors Association recommendations for reducing Rx abuse (Sept 2013):

http://www.nga.org/files/live/sites/NGA/files/pdf/1209ReducingRxDrugsBrief.pdf







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