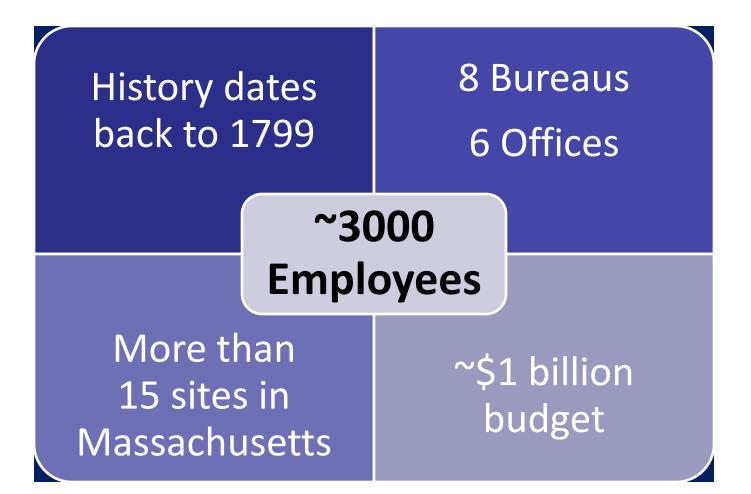
Commonwealth of Massachusetts



Monica Bharel MD, MPH Commissioner of Public Health January 12, 2017







Prevention and Wellness – Health Access – Nutrition – Perinatal and Early Childhood – Adult Treatment – Data Analytics and Support – Housing and Homelessness – Violence and Injury Prevention – Office of Statistics and Evaluation – Childhood Lead Poisoning Prevention – Community Sanitation – Drug Control – Occupational Health Surveillance – PWTF – SANE Program – Interagency Initiatives – Planning and Development – Prevention – Problem Gaming – Quality Assurance and Licensing – Youth and Young Adults – Early Intervention – Children and Youth with Special Needs – Epidemiology Program – Immunization Program – Global Populations and Infectious Disease Prevention – STI Prevention – HIV/AIDS – Integrated Surveillance and Informatics Services – Clinical Microbiology Lab – Chemical Threat, Environment and Chemistry Lab – Childhood Lead Screening – Environmental Microbiology and Molecular Foodborne Lab – STD/HIV Laboratories – Biological Threat Response Lab – Central Services and Informatics – Quality Assurance – Safety and Training – Health Care Certification and Licensure – Health Professional Licensure – Office of Emergency Medical Services – DoN – Medical Use of Marijuana – Shattuck Hospital – Mass Hospital School – Tewksbury Hospital – Western MA Hospital – State Office of Pharmacy Services - Office of Local and Regional Health - Office of Health Equity - Accreditation and Performance Management – ODMOA – OPEM – HR and Diversity – Office of General Counsel – Office of CFO – Commissioner's Office



Massachusetts DPH will be a **national leader** in innovative, outcomes-focused public health based on a data-driven approach, with a focus on quality public health and health care services and an emphasis on the social determinants and eradication of health disparities.





VISION

Optimal health and well-being for all people in Massachusetts, supported by a strong public health infrastructure and healthcare delivery.

MISSION

The mission of the Massachusetts Department of Public Health (DPH) is to prevent illness, injury, and premature death; to ensure access to high quality public health and health care services; and to promote wellness and health equity for *all* people in the Commonwealth.

DATA

We provide relevant, timely access to data for DPH, researchers, press and the general public in an effective manner in order to target disparities and impact outcomes.

DETERMINANTS

We focus on the social determinants of health - the conditions in which people are born, grow, live, work and age, which contribute to health inequities.

EVERYDAY EXCELLENCE

PASSION AND INNOVATION

DISPARITIES

We consistently recognize and strive to eliminate health disparities amongst populations in Massachusetts, wherever they may exist.

INCLUSIVENESS AND COLLABORATION



Social determinants of health refer to conditions of society that reflect root causes of community and individual health and well-being.

- There may be significant differences in the distribution of these social and environmental resources, with a significant association between these resources and health outcomes.
- These determinants drive health inequities

Advancing Community Public Health Systems in the 21st Century. National Association of County and City Health Officials, 2001.



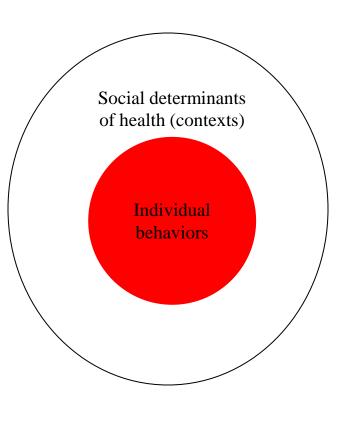
Determinants of Health

Individual resources

Education, occupation, income, wealth

Neighborhood resources

Housing, food choices, public safety, transportation, parks and recreation, political clout



Hazards and toxic exposures

Pesticides, lead, reservoirs of infection

Opportunity structures

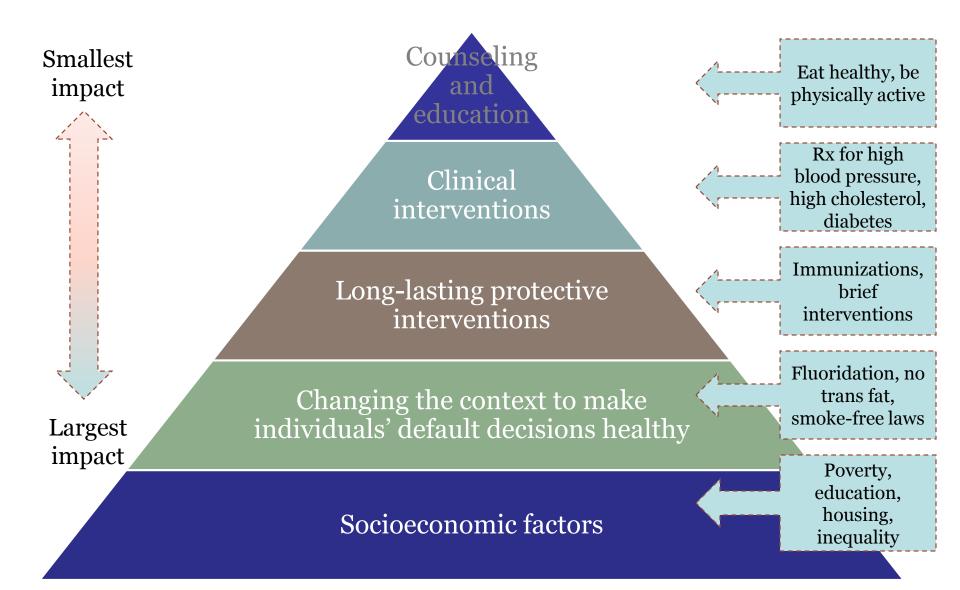
Schools, jobs, justice

CDC: Social Determinants of Health and Social Determinants of Equity, the Impacts of Racism on the Health of our Nation



CDC's Health Impact Pyramid

AJPH April 2010





The Spending Mismatch: Health Determinants vs. Health Expenditures



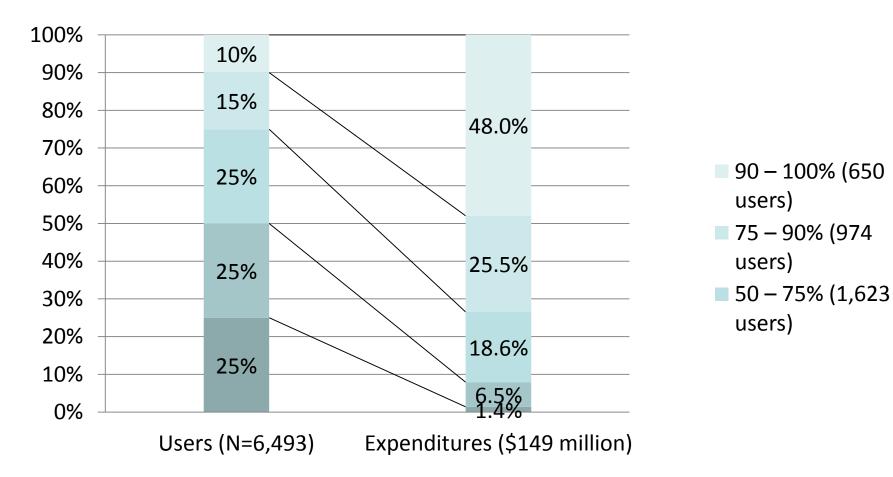


Total Annual Expenditures by Expenditure Group for BHCHP Users with Medicaid in 2010 A JPH 2012

users)

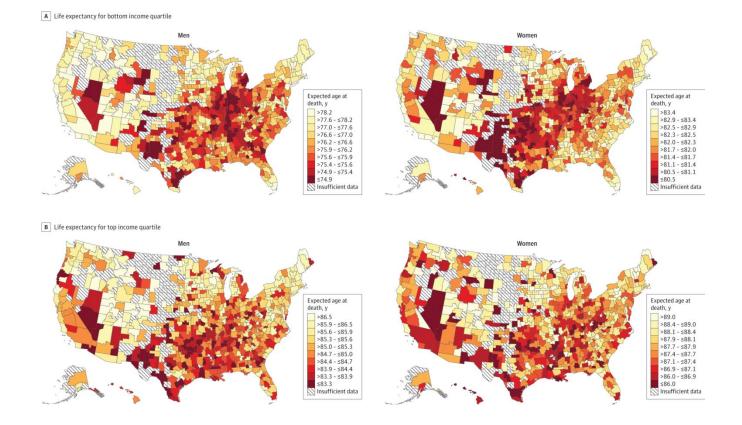
users)

users)





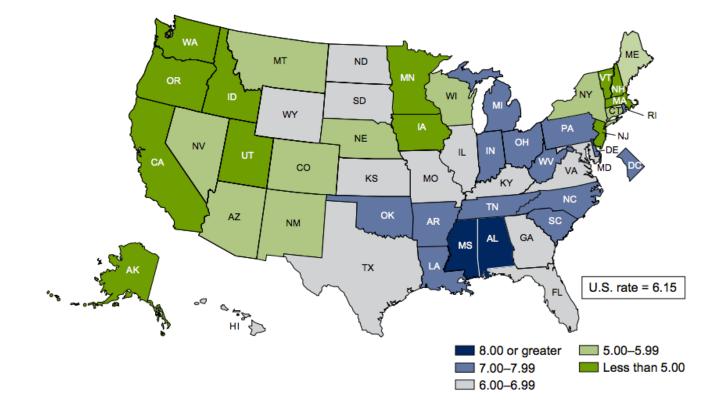
The gap in life expectancy between the richest 1% & poorest 1% of individuals: 14.6 years



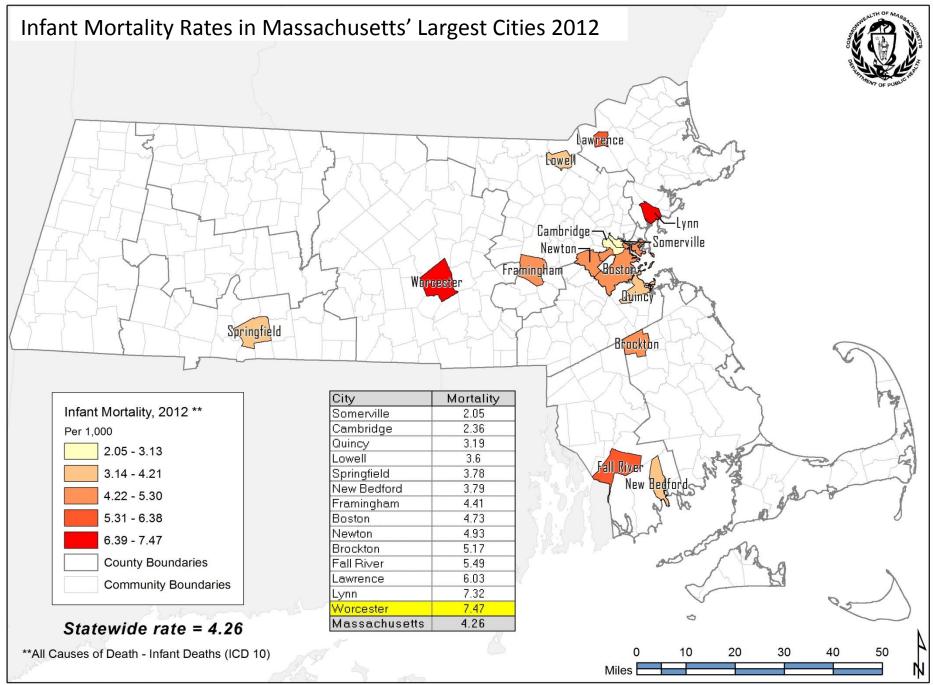
JAMA online April 10, 2016



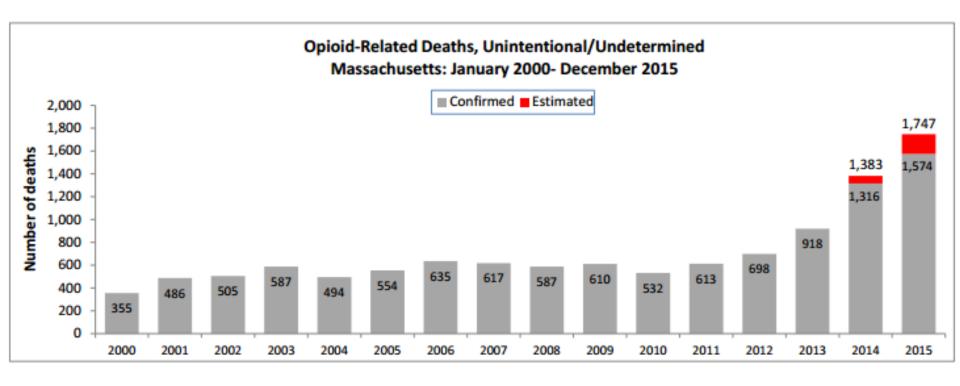
U.S. Infant Mortality Rate 2011



CDC Vital Statistics



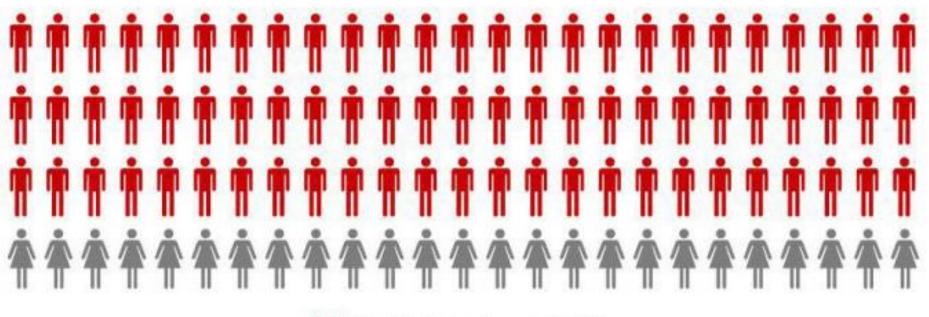




74% OF OPIOID DEATHS IN 2016 HAD THE PRESENCE OF FENTANYL



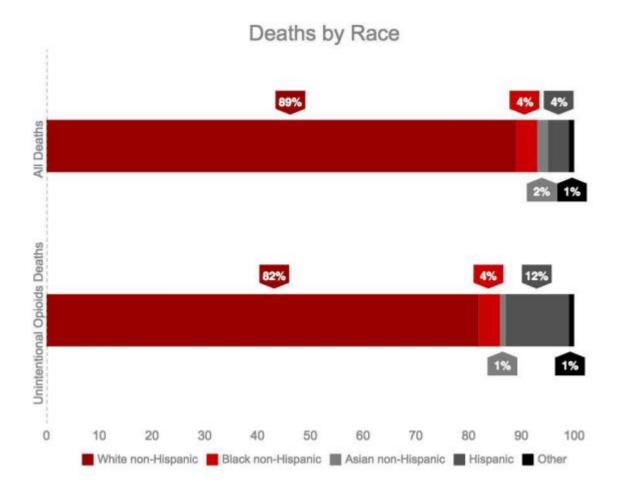
Unintentional Opioids Deaths by Gender



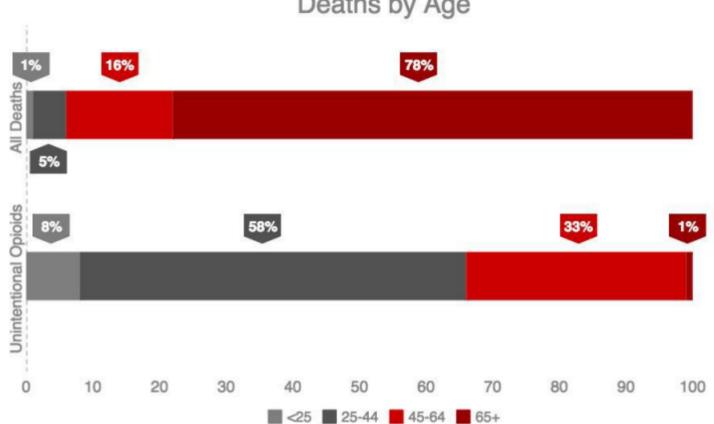
Male (75%) 📕 Female (25%)



The opioid epidemic burden in Massachusetts



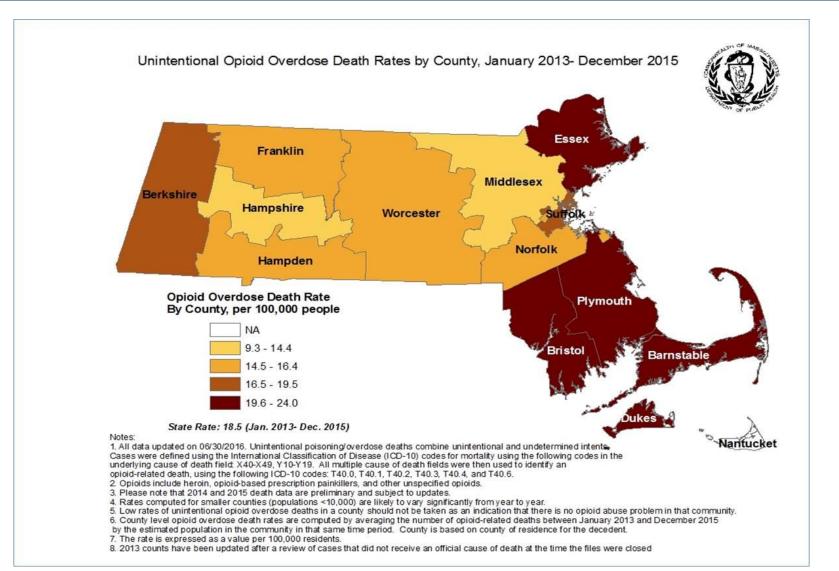




Deaths by Age



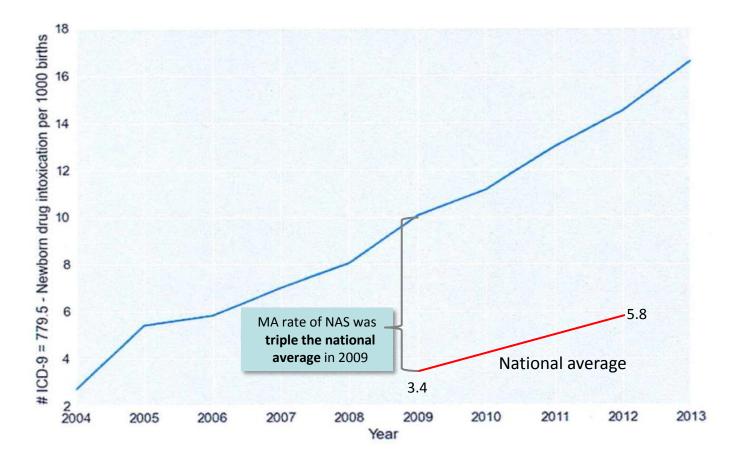
The opioid epidemic burden in Massachusetts





The rate of NAS is increasing significantly in Massachusetts

From 2004 to 2013 the Incidence of NAS increased from <3/1000 hospital births to >16/1000 hospital births per year



Sources:

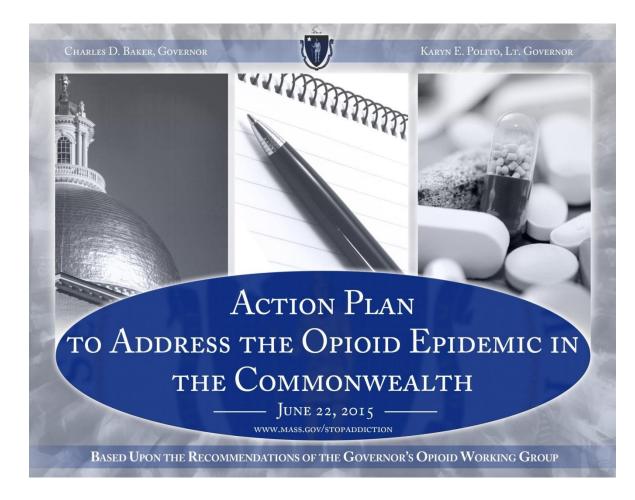
1. Gupta M and Picarillo A. Neonatal abstinence syndrome (NAS): improvement efforts in Massachusetts. neoQIC. January 2015. PowerPoint presentation.

2. Patrick S, Davis M, Lehman C, Cooper W. Increasing incidence and geographic distribution of neonatal abstinence syndrome: Unites States 2009 to 2012. Journal of Perinatology 2015; doi: 10.1038/jp.2015.36. [Epub ahead of print]



Governor Baker's Opioid Working Group

Prevention Intervention Treatment Recovery





#StateWithoutStigMA



FOR HELP: 1-800-327-5050 (tty: 1-800-439-2370)

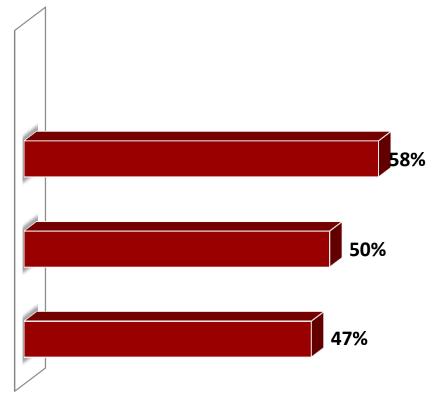


Survey: reason for prescription painkiller misuse

Too easy to buy prescription painkillers illegally

Painkillers are prescribed too often or in doses that are bigger than necessary

Too easy to get painkillers from those who save pills



Source: Boston Globe and Harvard T.H. Chan School of Public Health, Prescription Painkiller Abuse: Attitudes among Adults in Massachusetts and the United States



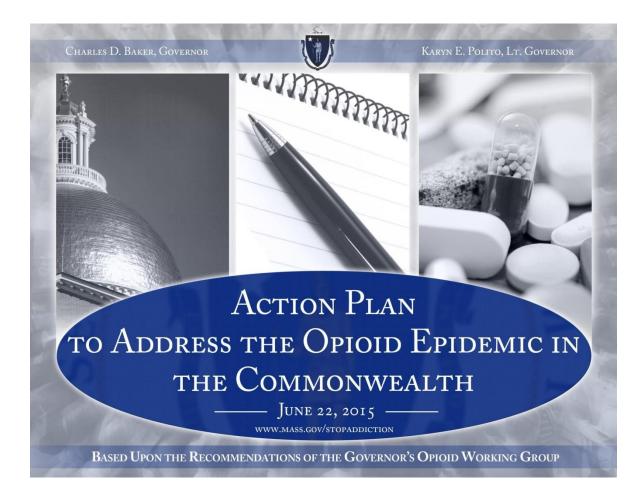
Preventing Prescription Drug Misuse: Screening, Evaluation, and Prevention

- 1. Evaluate a patient's pain using age, gender, and culturally appropriate evidence-based methodologies.
- 2. Evaluate a patient's risk for substance use disorders by utilizing age, gender, and culturally appropriate evidence-based communication skills and assessment methodologies, supplemented with relevant available patient information, including but not limited to health records, family history, prescription dispensing records (e.g. the Prescription Drug Monitoring Program or "PMP"), drug urine screenings, and screenings for commonly co-occurring psychiatric disorders (especially depression, anxiety disorders, and PTSD).
- 3. Identify and describe potential pharmacological and non-pharmacological treatment options including opioid and non-opioid pharmacological treatments for acute and chronic pain management, along with patient communication and education regarding the risks and benefits associated with each of these available treatment options.



Governor Baker's Opioid Working Group

Prevention Intervention Treatment Recovery

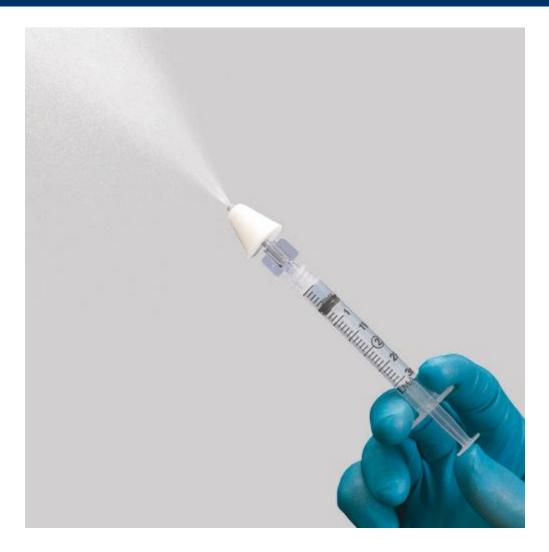




| Stever | W | ojakowski | | | | | | | | | | |
|-------------|-------|------------|-------------------------------------|-------------|------|--------------|-----------|-----------------|---------|----------------------|----------------|-----|
| Summary Pro | | Pre | escriptions:14 F | Prescribers | | Pharmacies:3 | | Private Pay:4 | | Active Daily MME:0.0 | | |
| v Presci | ripti | ons | | | | | | | | | | |
| Filled 👻 | ID | Written | Drug | QTY | Days | Prescriber | Rx # | Pharmacy * | Refills | MME/D | Pymt Type | PMP |
| 04/14/2016 | 1 | 04/09/2016 | ALPRAZOLAM 0.5 MG TABLET | 90.0 | 90 | JO BOG | 00427148 | WALGR (1885) | 1 | | Private Pay | МА |
| 03/23/2016 | 4 | 03/22/2016 | LORAZEPAM 0.5 MG TABLET | 40.0 | 30 | JO BOG | 01046793 | FITCH (2622) | 1 | | Private Pay | МА |
| 02/16/2016 | 3 | 02/15/2016 | ZOLPIDEM TARTRATE 5 MG TABLET | 60.0 | 30 | JO BOG | 003554731 | KMART (8665) | 0 | | Private Pay | MA |
| 01/19/2016 | 4 | 01/17/2016 | ALPRAZOLAM 0.5 MG TABLET | 40.0 | 30 | JO BOG | 6876638 | FITCH (2622) | 0 | | Other | ма |
| 01/10/2016 | 1 | 01/02/2016 | LORAZEPAM 0.5 MG TABLET | 30.0 | 15 | JO BOG | 00991012 | WALGR (1885) | 1 | | Other | ма |
| 11/21/2015 | 2 | 07/18/2015 | ALPRAZOLAM 0.5 MG TABLET | 30.0 | 30 | JO BOG | 394066 | FITCH (2622) | 5 | | Comm Ins | МА |



Reversing an Overdose: Use of Naloxone



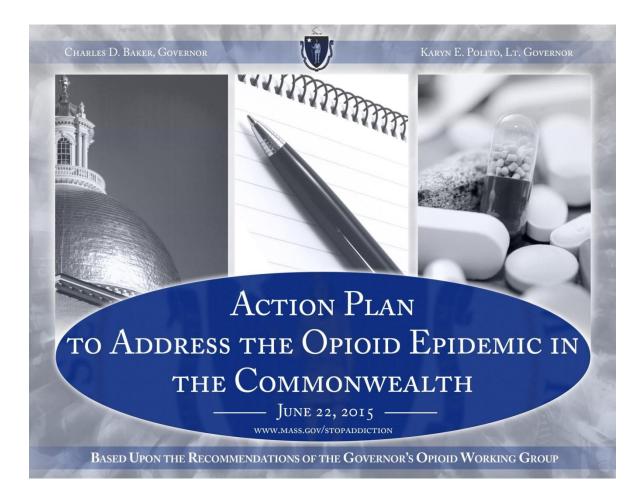






Governor Baker's Opioid Working Group

Prevention Intervention Treatment Recovery





- □ Adding hundreds of new treatment beds across the state;
- Beginning the transfer of women civilly committed under Section 35 at MCI Framingham to Taunton State Hospital;
- Reinforcing the requirement that all DPH licensed addiction treatment programs must accept patients who are on methadone or buprenorphine medication;
- Strengthening the state's commitment to residential recovery programs through rate increases.
- Issuance of <u>Division of Insurance guidelines</u> to commercial insurers on the implementation of the substance use disorder recovery law (Chapter 258) which requires insurers to cover the cost of medically necessary clinical stabilization services for up to 14 days without prior authorization;



- 7 day limit on a first time opioid prescription; allows for a pharmacist partial fill
- Patient voluntary non-opioid directive (12/16)
- SBIRT must be implemented in schools by June 2018
- Amends the Civil Liberties law so that any person who administers naloxone is not liable for injuries resulting from the injection
- Requires substance abuse evaluation in ED when present for an OD (7/16)

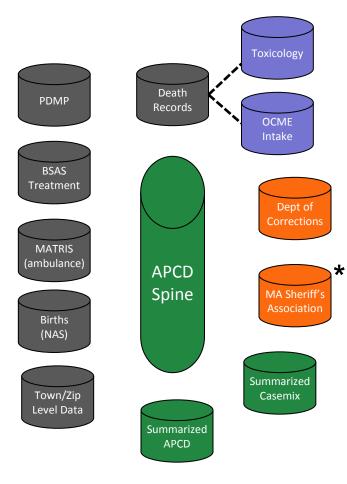


Chapter 55 – Data mapping

Data Sources DPH CHIA (MassHealth) EOPSS Jails & Prisons

System Attributes

- Data <u>encrypted</u> in transit & at rest
- Limited data sets <u>unlinked</u> at rest
- Simplified structure using <u>summarized</u> data
- Linking and analytics "on the fly"
- No residual files after query completed
- Analysts can't see data
- Automatic cell suppression
- Possible resolution to issues related to 42 CFR part 2



Chapter 55 Data Structure

All Doors Opening

- Significant coordination within DPH
- Financial and technical support from MassIT's Data Office
- CHIA takes on role as linking agent
- Coordination across agencies (legal & evaluation)
- Volunteer analytic support from academia and industry

* Note: Houses of Correction data was unavailable at the time this report was written. As such, assessment does not reflect HOC inmate outcomes.

DRAFT - FOR POLICY DEVELOPMENT ONLY



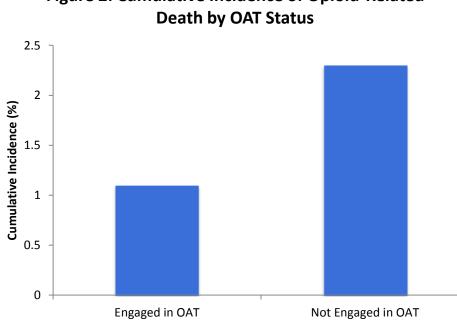
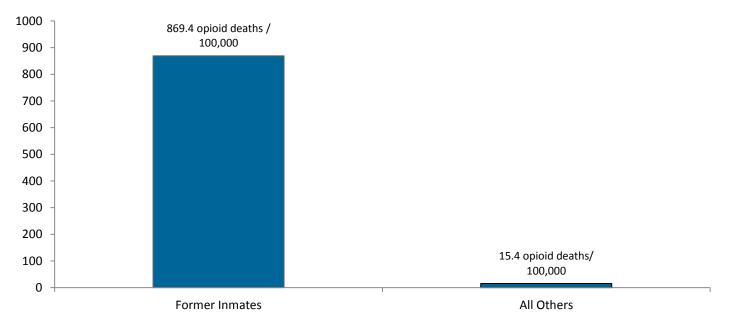


Figure 2: Cumulative Incidence of Opioid-Related

Patients treated with methadone and/or buprenorphine (Opioid Agonist Treatment or "OAT" that block the effect of opioids) following a non-fatal overdose were significantly less likely to die; however, very few patients (~5%) engage in OAT following a non-fatal overdose.



Comparison of Opioid Death Rates Among Former Inmates to the Rest of State (2013 - 2014)



The risk of opioid overdose death following incarceration is 56 times higher than for the general public.



Helping People Lead Healthy Lives In Healthy Communities

Monica Bharel, MD, MPH Commissioner of Public Health