

Injury Prevention IS Public Health

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Opioids / Addiction

CHIP Focus 2: Substance Use

Create a regional community that prevents and reduces substance use disorder and its surrounding stigma for all populations.

- 2.3. Decrease fatal opioid overdoses in the region by 80%.
- 2.4. Reduce use of other and emerging drugs among youth and adults.

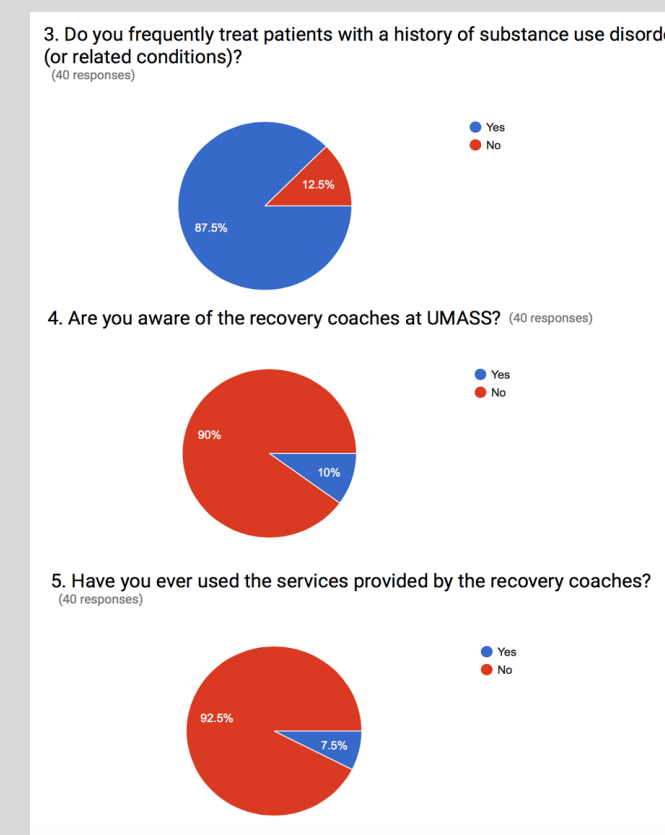
Target Demographic: Residents of Central Massachusetts with Substance Use Disorder and their support networks

Opioid Epidemic / Narcan Training

- Travelled to AIDS project Worcester and spoke with people with substance abuse disorder in recovery.
- Learned how to administer Narcan.

Peer Recovery Environmental Scan

- Polled RNs and NPs regarding their use and knowledge of the recovery coach program implemented at UMass Medical Center University Campus in Spring of 2016.



Environmental Scan of UMass RNs and NPs



Dudley Drug Court

Met with Judge Bibaud and observed him in court proceedings. He has developed an individualized patient-specific program to facilitate active recovery without resorting to incarceration (pictured left with Judge Bibaud).

Child Safety

CHIP Focus 9: Safety (See Guns, Gangs, and Community box)

Target Demographic: Youth in the Central Massachusetts Regional Public Health Alliance

Mobile Safety Street

- Instructed elementary school children (3-5 years old) on home and street safety utilizing a custom-built model of a Worcester home, school bus and common city street.

Car Seat Safety Checkpoint

- Assisted UMass car seat safety experts in conjunction with state and local police to educate parents on proper positioning and installation of car seats.

Juvenile Court

- Observed pre-trial proceedings of Judge Erskine and Judge Marotta at Worcester District Court. Conferred with the Judges about current trends in juvenile crime and efforts to provide supportive rehabilitation services to youth offenders.

Commercial Sexual Exploitation of Children (CSEC)

- Facilitated a conference with community leaders in coordination with the Department of Public Health regarding the sexual exploitation of children in the Greater Worcester Area. Panelists included representatives of: My Life My Choice, Worcester PD/FBI Cyber Crime and Technology Unit, Community Health Link, UMMC Child Protection Clinic, and The Children's Advocacy Center.

Non-accidental Trauma in the Pediatric Patient

- Dr. Jeremy Aidlen lectured on recognizing the signs of non-accidental trauma in the pediatric patient population.



Matt and Stephanie teaching child safety to students at Greendale Elementary School for Mobile Safety Street

Community Health Improvement Plan

"The Community Health Improvement Plan (CHIP) serves as the basis of action for health improvement efforts carried out by the Central MA Regional Public Health Alliance, UMass Memorial Healthcare, Fallon Health, and the Coalition for a Healthy Greater Worcester. Built on the priorities set in the 2015 Community Health Assessment, this CHIP plan identifies the goals, objectives, and strategies to improve health in the deepest, most sustainable ways possible."¹

Trauma

Trauma Prevention: "If it's predictable, it's preventable!"²

- "Research shows that community prevention can save 4.5 million lives and nearly \$600 billion over 25 years."³
- Crash vs. Accident Terminology: "A majority of fatal crashes are caused by intoxicated, speeding, distracted, or careless drivers and, therefore, are not accidents."⁴
 - Accident: an unpredictable event occurring entirely due to chance.
 - Crash: event due to speeding, substance use, distracted driving, or other contributing factors is not an accident because it was preceded by preventable factors.

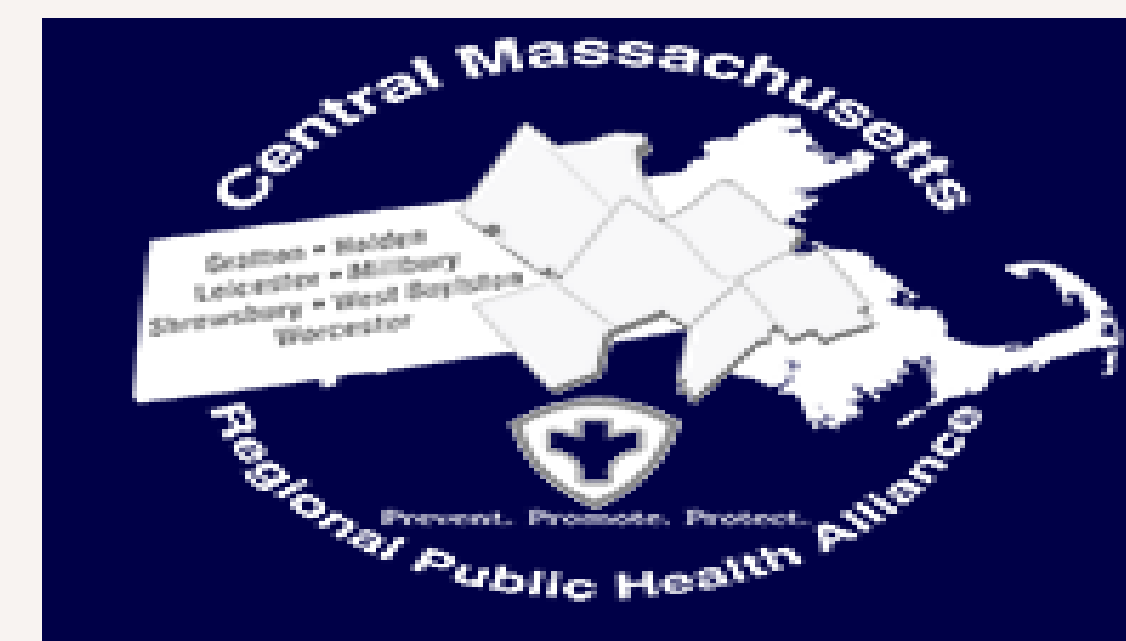
Emergency Preparedness:

- Mass Casualty Incident: an event in which emergency medical resources (i.e. personnel, equipment) are overwhelmed by the number and severity of casualties.⁵
- Recently, the city of Worcester conducted a large-scale disaster drill to assess the city's preparedness to respond to a mass casualty incident.
- We received training in on-site triage techniques and performed a simulation exercise to test the triage algorithm.



Clerkship students and faculty outside Café Reyes in Worcester

Special thanks to:



The communities served by the Community Health Improvement Plan (CHIP)

References:

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Home and Vehicle Safety

Liberty Mutual Research Institute for Safety (LMRIS)

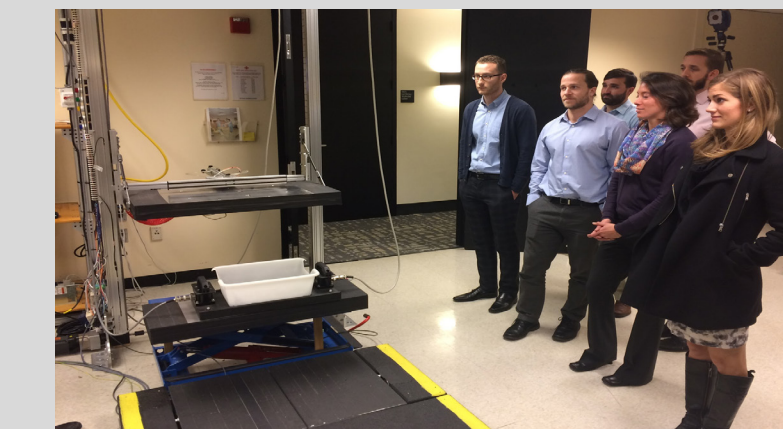
- The LMRIS consists of a 4,800 ft² facility dedicated to injury prevention research related to driving, workplace, built environment & disability. In 2014, distracted drivers killed 3,179 people and injured 431,000 people.⁶ Researchers study driving distractions, driver impairment and risk perceptions using an instrumented vehicle and state-of-the-art driving simulator.

Teen R.I.D.E. (Reality Intensive Driver Education)

- Educational program developed by UMass Memorial Medical Center Injury Prevention Program and the Worcester District Juvenile Court. Teens attend the program as a condition after being arrested for serious driving infractions, such as driving without a license and excessive speeding. Recidivism rate for Teen R.I.D.E. participants is 7%, which is well below that of teens with similar offenses who have not participated in this program.⁷

Seatbelt Program (AAA)

- Spoke with representatives of AAA regarding ongoing efforts to implement a primary seat belt law in MA, which would allow officers to cite drivers who fail to use seatbelts without requiring an additional offence.



Touring the LMRIS Hopkinton facilities and testing the simulation technology

Guns, Gangs and Community

CHIP Focus 9: Safety

Improve population health by providing all residents with opportunities to engage in meaningful work with living wages and health, safe, and family-friendly working conditions. 9.2 Decrease the violent incidents among individuals under the age of 25, particularly among Black and Latino youth.

Target Demographic: Residents in communities with active gang violence, particularly youth. Gun owners throughout the greater Worcester area.

Gang Task Force with Sgt. Roche

- Discussed primary gangs, including names, location and symbols, in order to better identify gang involved patients within the medical system.

Gun Buyback Program at UMMS

- Learned about the development of Dr. Hirsh's "Goods for Guns" program based in Central Massachusetts.
- A firearm in the home is 22 times more likely to harm a family member or friend than an intruder, despite being owned for protection purposes.⁸
- "Goods for Guns" anonymously exchanges firearms for gift certificates of local merchants.

Gun Education with Mike "the Gun Guy"

- Covered how to effectively discuss gun safety and ownership with patients
- Learned about legislation regarding firearms, and specifically the differences in legislation between states. For example, New Hampshire has no gun laws, while Massachusetts has significantly stricter gun legislation.



Leaders of the Goods for Guns Program meet in the UMass Trauma Bay⁹