



Massachusetts Department of Public Health

PRECISION PUBLIC HEALTH: UPDATE ON THE PUBLIC HEALTH DATA WAREHOUSE/CHAPTER 55

Public Health Council Meeting
March 12, 2019

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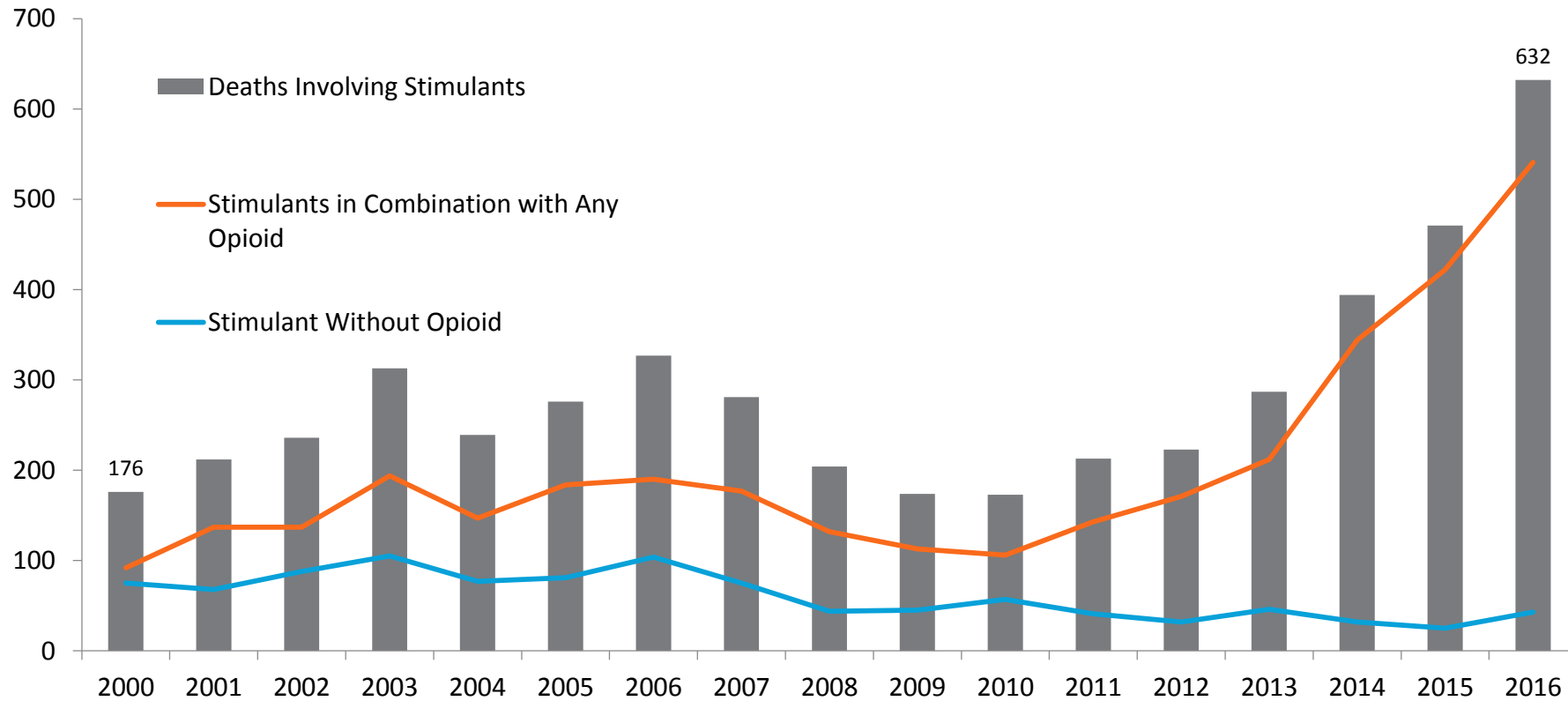
Commissioner, Massachusetts Department of
Public Health

Background

- In 2015, legislation responding to the opioid epidemic was passed and signed into law by Governor Charlie Baker and reauthorized in 2016.
- This law, referred to as Chapter 55, enabled the linkage and analysis of various data sets from agencies across state government.
- In 2017, a new statute was promulgated to establish the Public Health Data (PHD) Warehouse which authorizing the DPH Commissioner to continue to examine data and trends in opioid overdoses and address new public health topics.
- This presentation contains highlights from the first set of analyses conducted under the Commissioner's 2017 authority.

Stimulant-Related Overdose Deaths

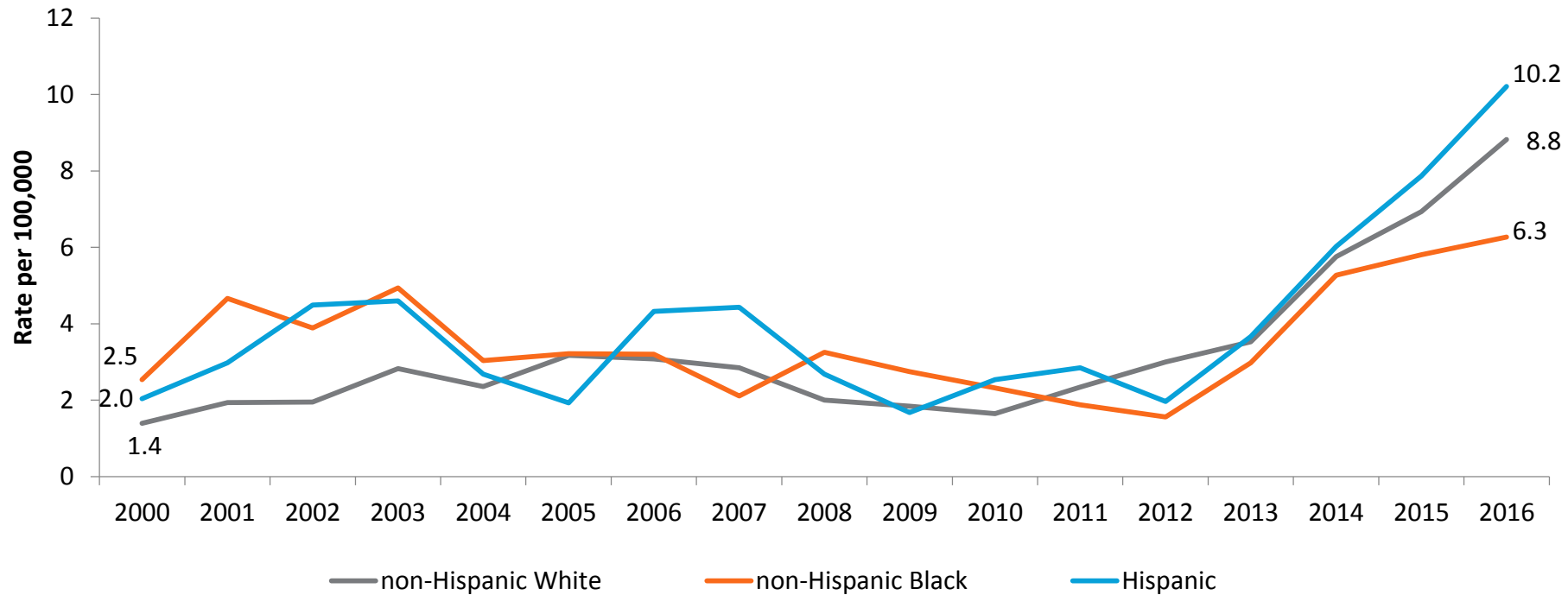
Count of Stimulant-Related Deaths
MA Residents: 2000-2016



Notes: These deaths may include substances in addition to stimulants or opioids
Source: MDPH Registry of Vital Records and Statistics

Stimulant-Related Overdose Deaths

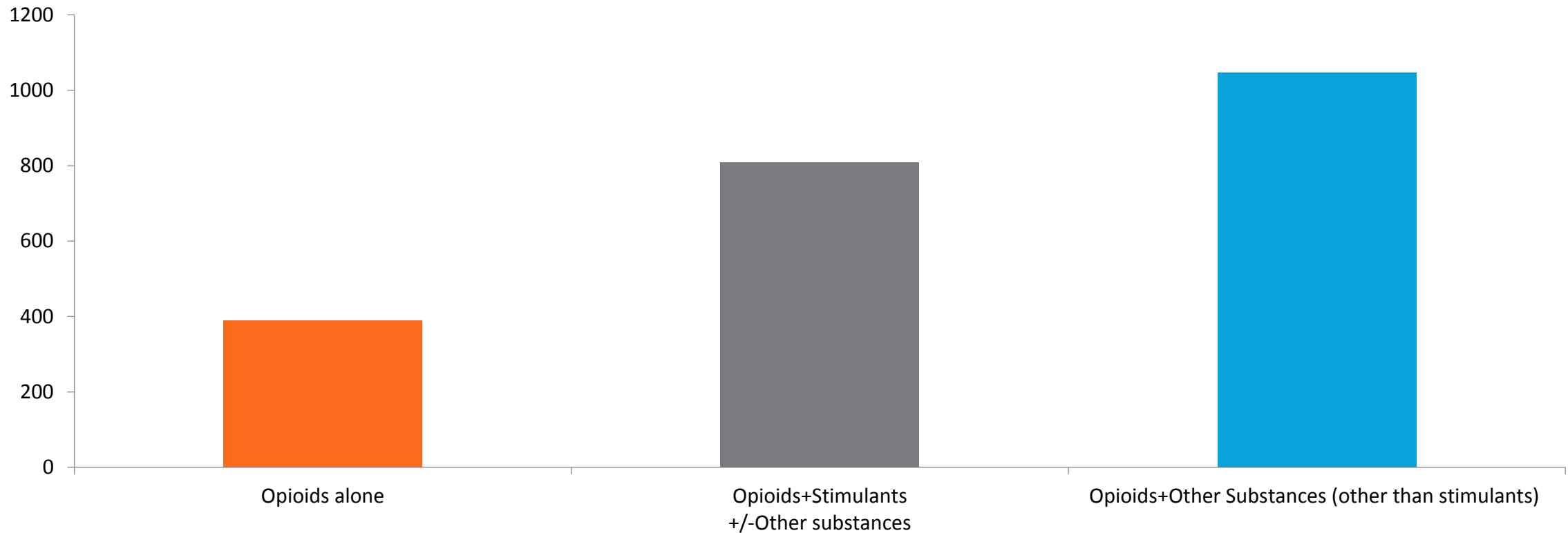
Rate of Stimulants in Combination with Any Opioid by Race/Ethnicity, MA Residents: 2000-2016



Notes: These deaths may include substances in addition to stimulants and opioids
Non-Hispanic Asian/Pacific Island and non-Hispanic Other are not displayed due to small counts
Source: MDPH Registry of Vital Records and Statistics

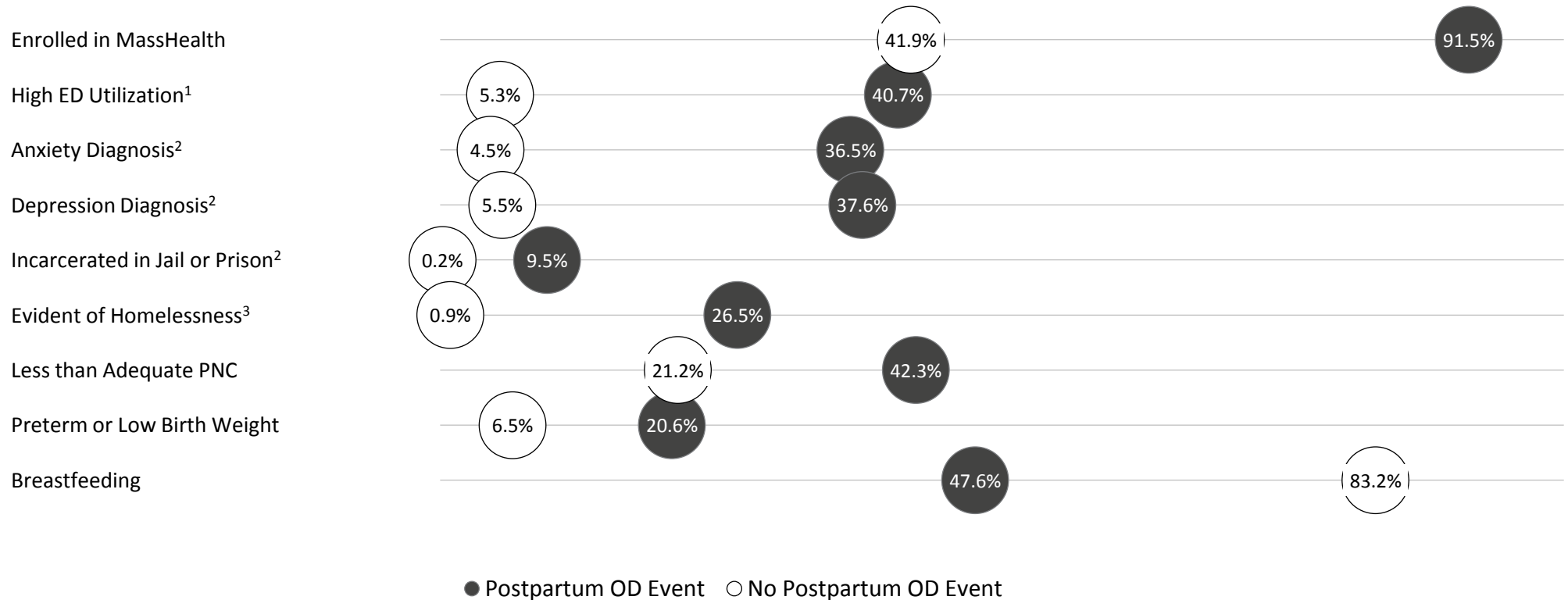
Polysubstance Opioid Overdoses

Opioid-related Deaths with Accompanying Toxicology: 2014-2015



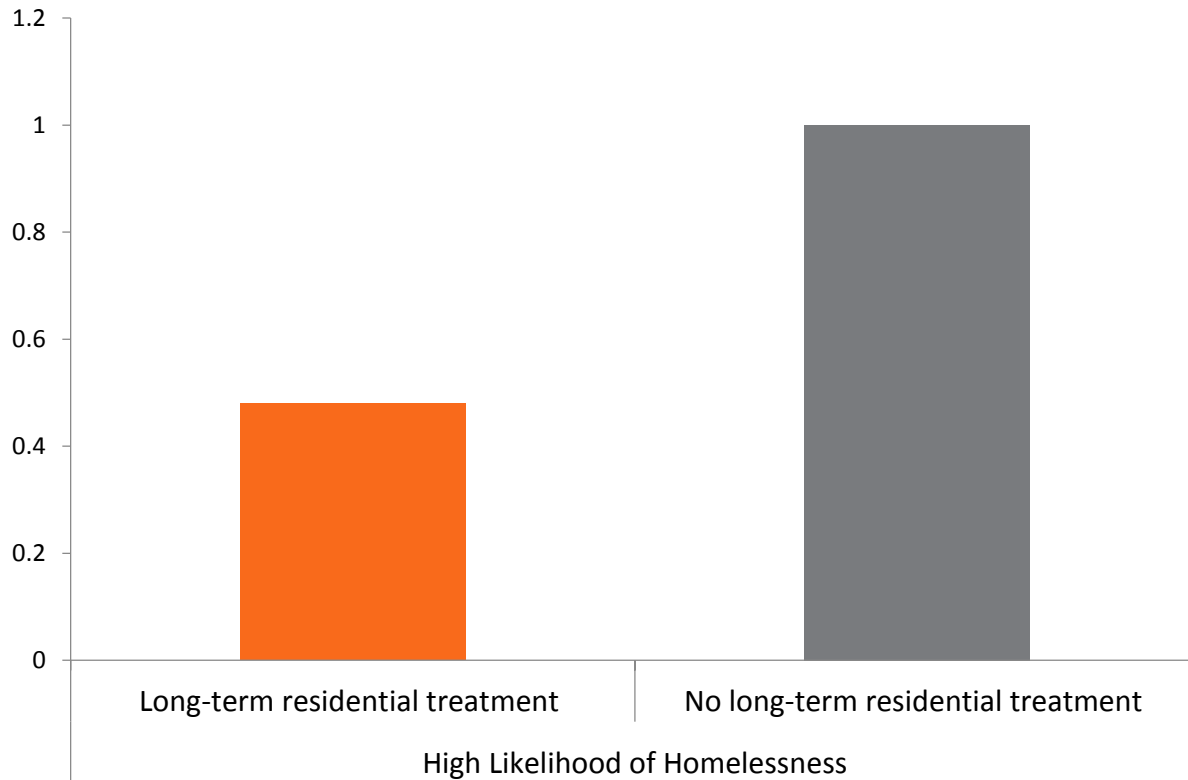
Postpartum Opioid Overdoses

Maternal and Pregnancy Outcomes by Postpartum Opioid Overdose Status: January 1st, 2012- September 30th, 2014

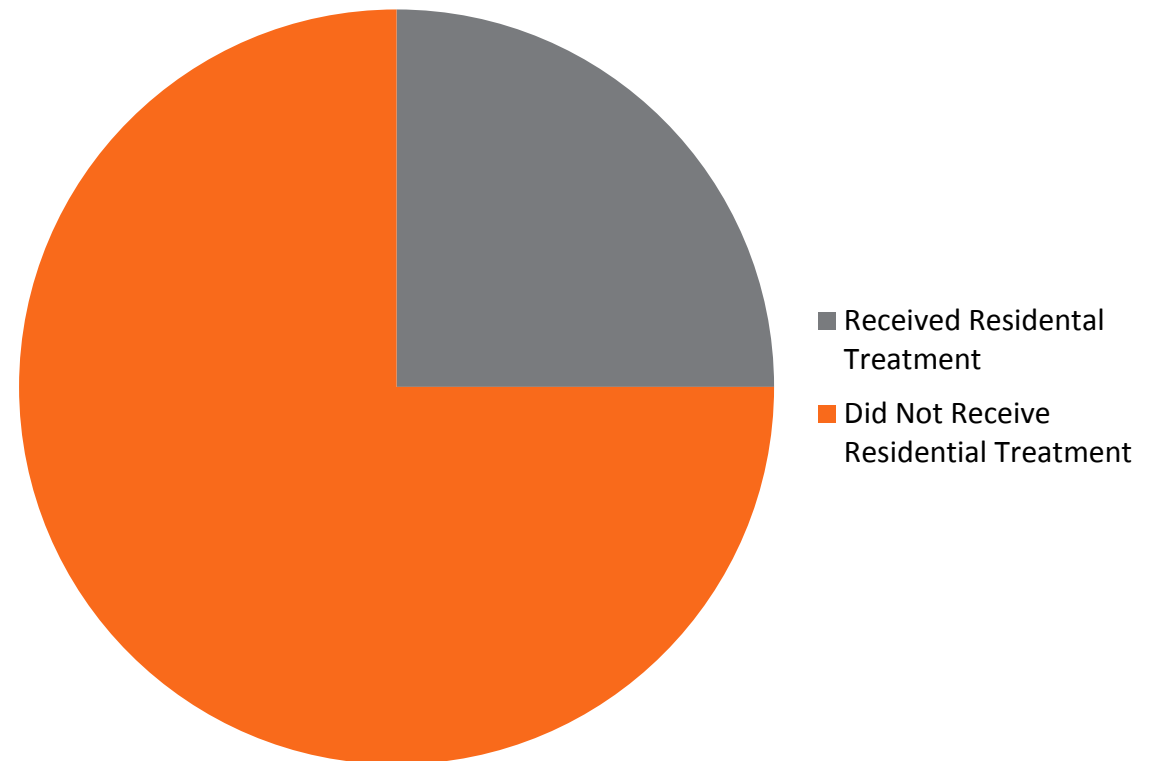


Populations at Risk: Homeless Individuals

Adjusted Risk of Death for those Highly Likely to be Homeless by Residential Treatment Status: 2011-2015

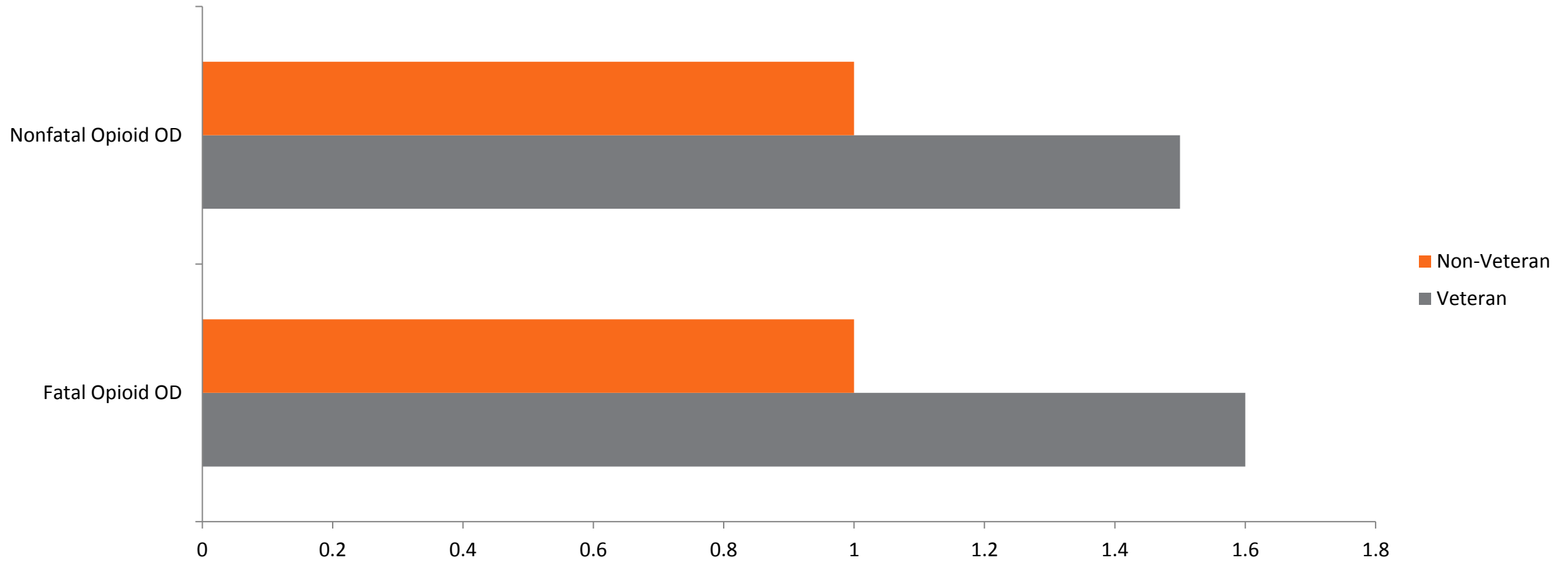


Likelihood of Receiving Residential Treatment Among those Highly Likely to be Homeless: 2011-2015



Populations at Risk: Veterans with a History of Homelessness or Incarceration

Adjusted Risk of Non-fatal and Fatal Opioid Overdose Among Those with History of Incarceration or Homelessness as Modified by Veteran Status: 2011-2015



Thank You!

- Boston Medical Center
- Boston University
- Edith Nourse Rogers Memorial Veterans Hospital
- Massachusetts General Hospital
- University of Sydney
- Boston Public Health Commission
- Brown University
- Louisiana State University Health Sciences Center
- Northeastern University
- Virginia Commonwealth University

<https://www.mass.gov/lists/public-health-data-warehouse-phd-technical-documents-and-reports>