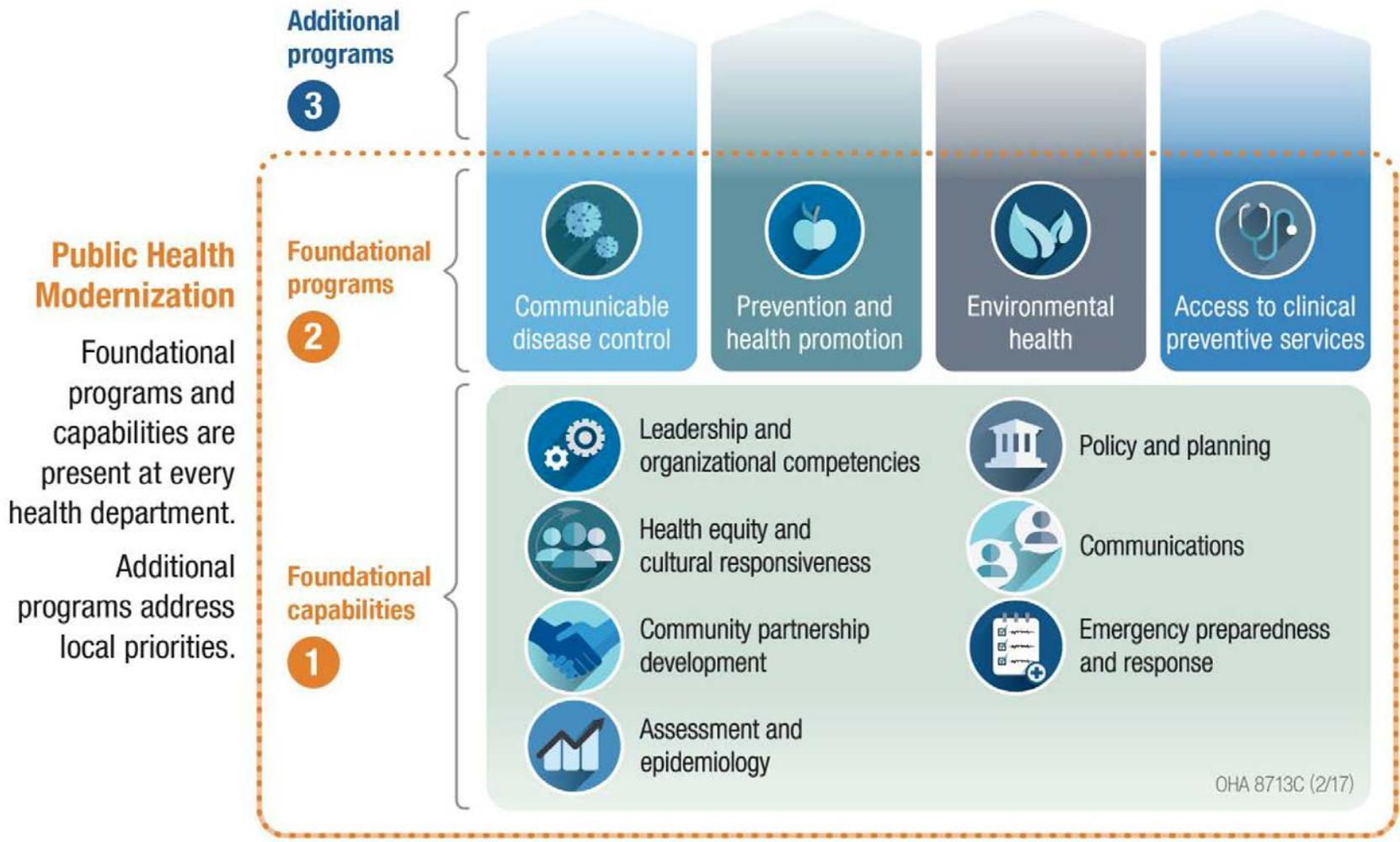

Public Health Data and Science

Ali Hamade, PhD, DABT
Deputy State Epidemiologist
Office of the State Public Health Director



PUBLIC HEALTH DIVISION
New Employee Orientation

Modernized framework for governmental public health services



Key Data Sources

Service receipt
(immunizations,
hospital
discharge, WIC)

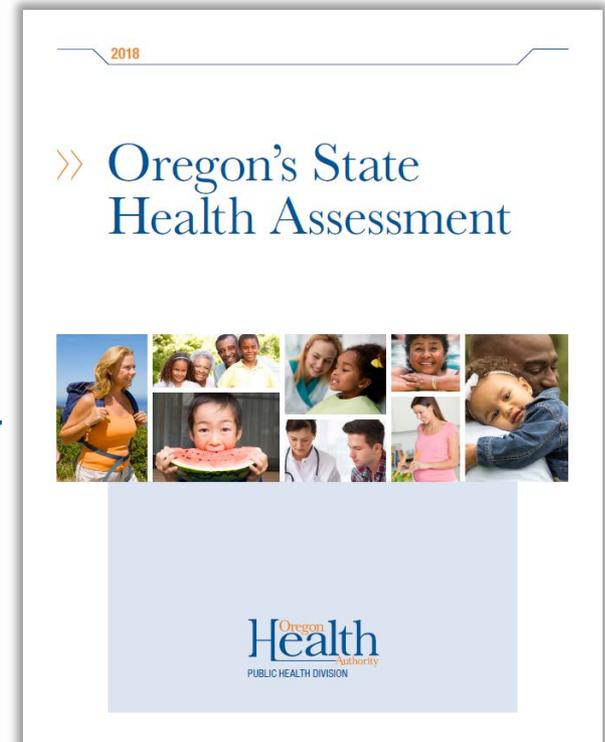
Vital statistics
(birth, death)

**Reportable
conditions**
(infectious
disease, cancer)

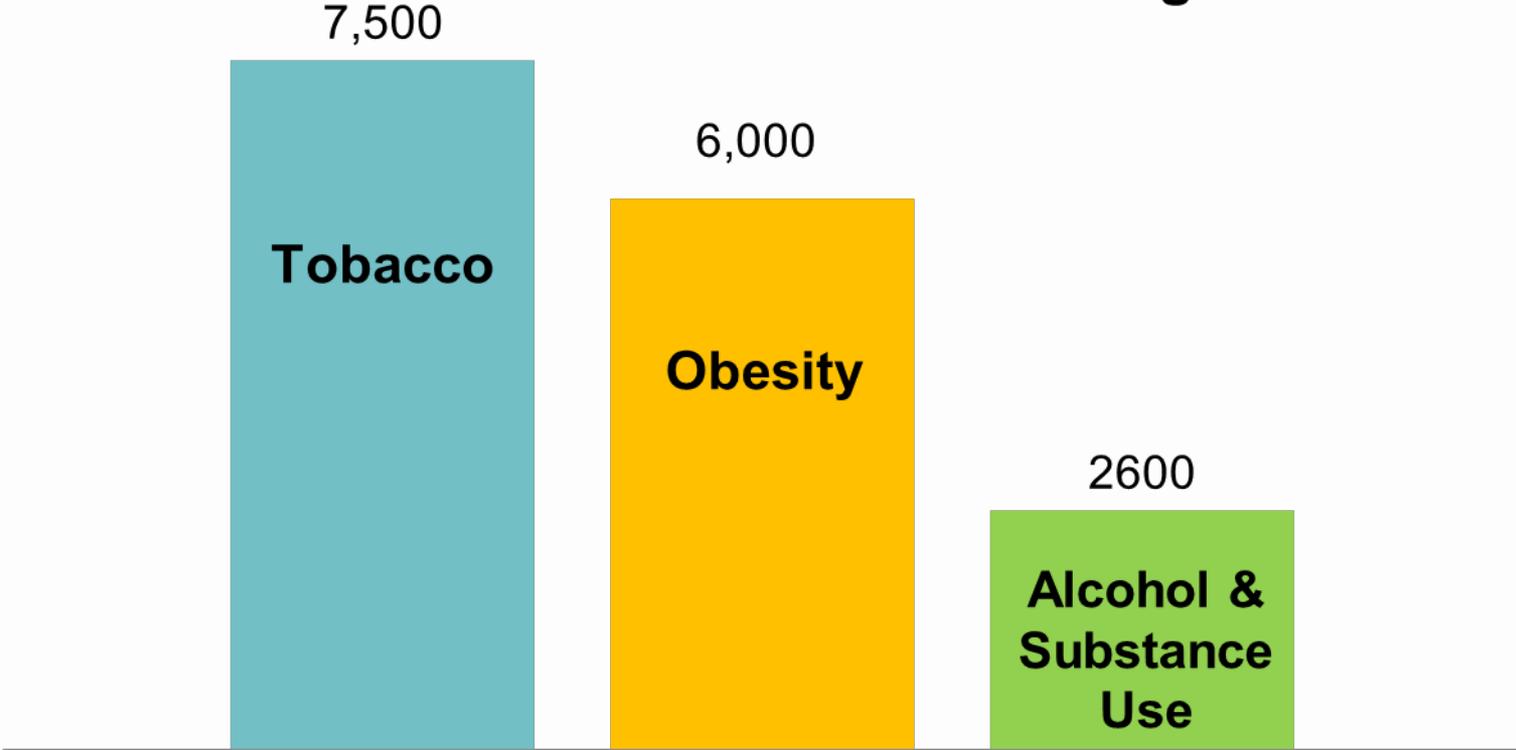
Surveys
(BRFSS, OHT,
PRAMS)

Updated State Health Assessment – 2018

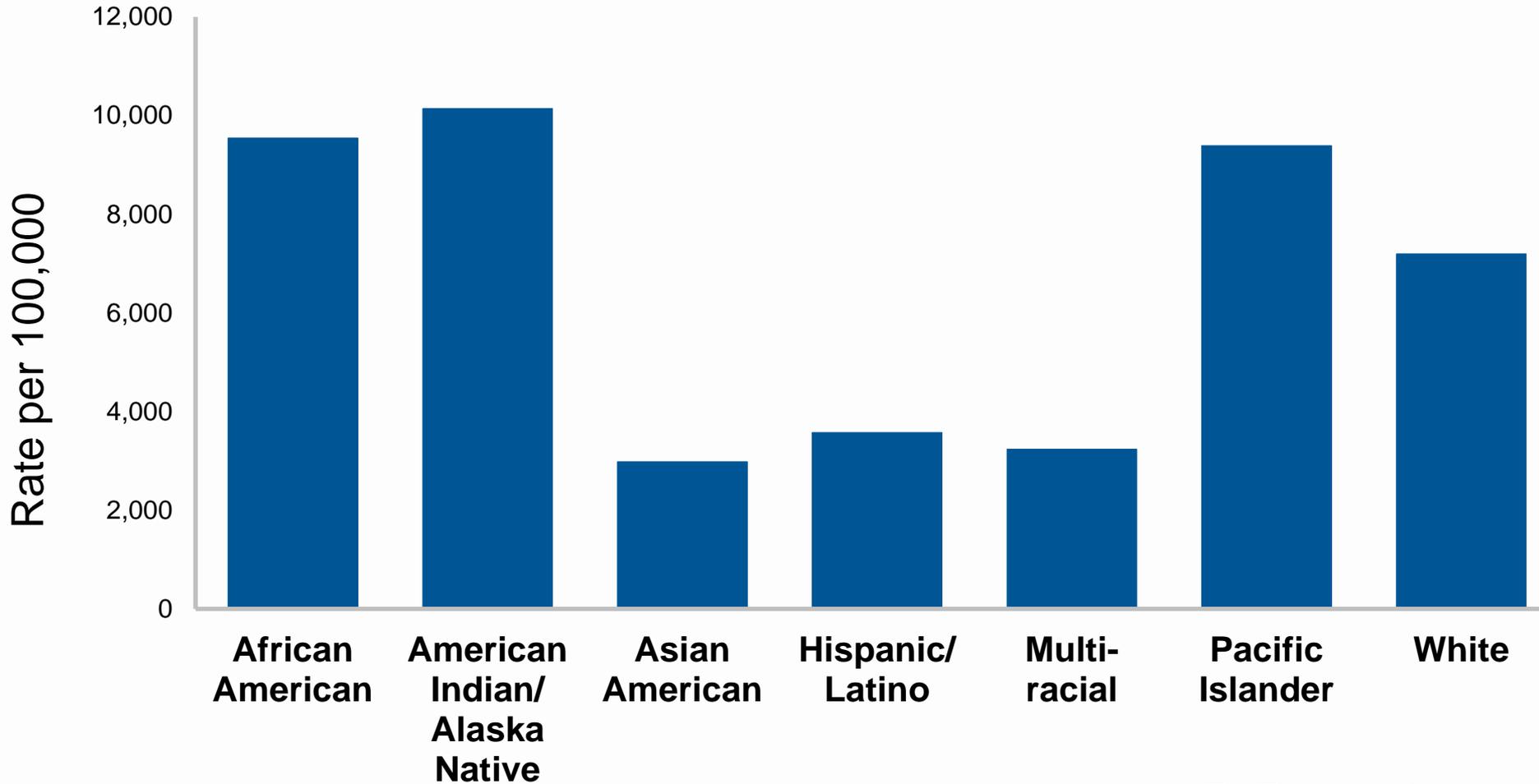
- Indicators
 - Social determinants of health
 - Race/ethnicity; SES; LGBTQ; urban/rural
 - ACEs, poverty, homelessness
 - Environmental Health
 - Air quality, active transportation, BLL
 - Prevention & Health Promotion
 - Disease and condition prevalence; health risk behaviors
 - Access to clinical services
 - Health insurance, screening
 - Communicable disease control
 - Infectious disease reports



Behaviors that Kill Oregonians 2016



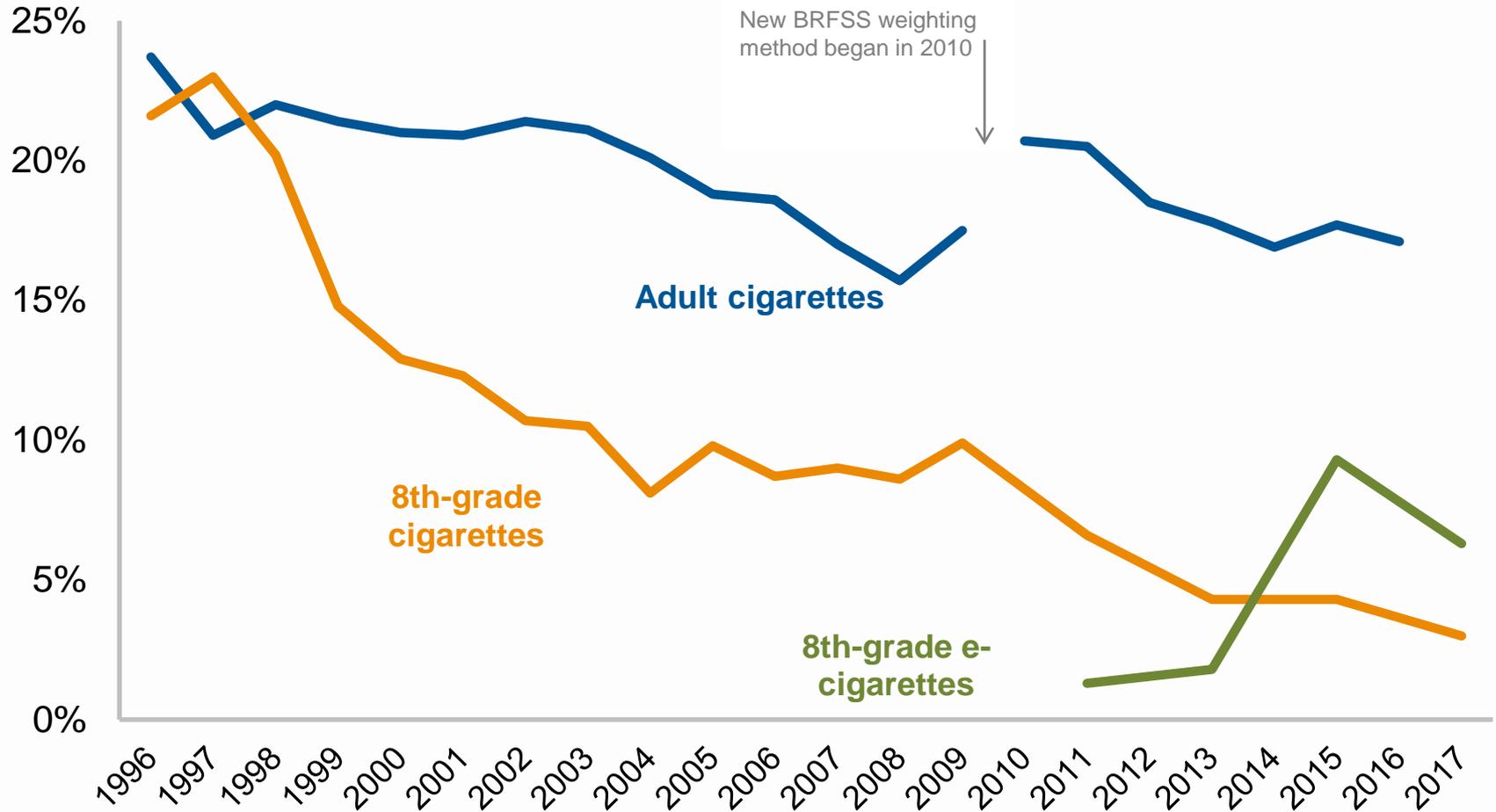
Years of potential life lost (YPLL) before age 75 Oregon, 2015–2017



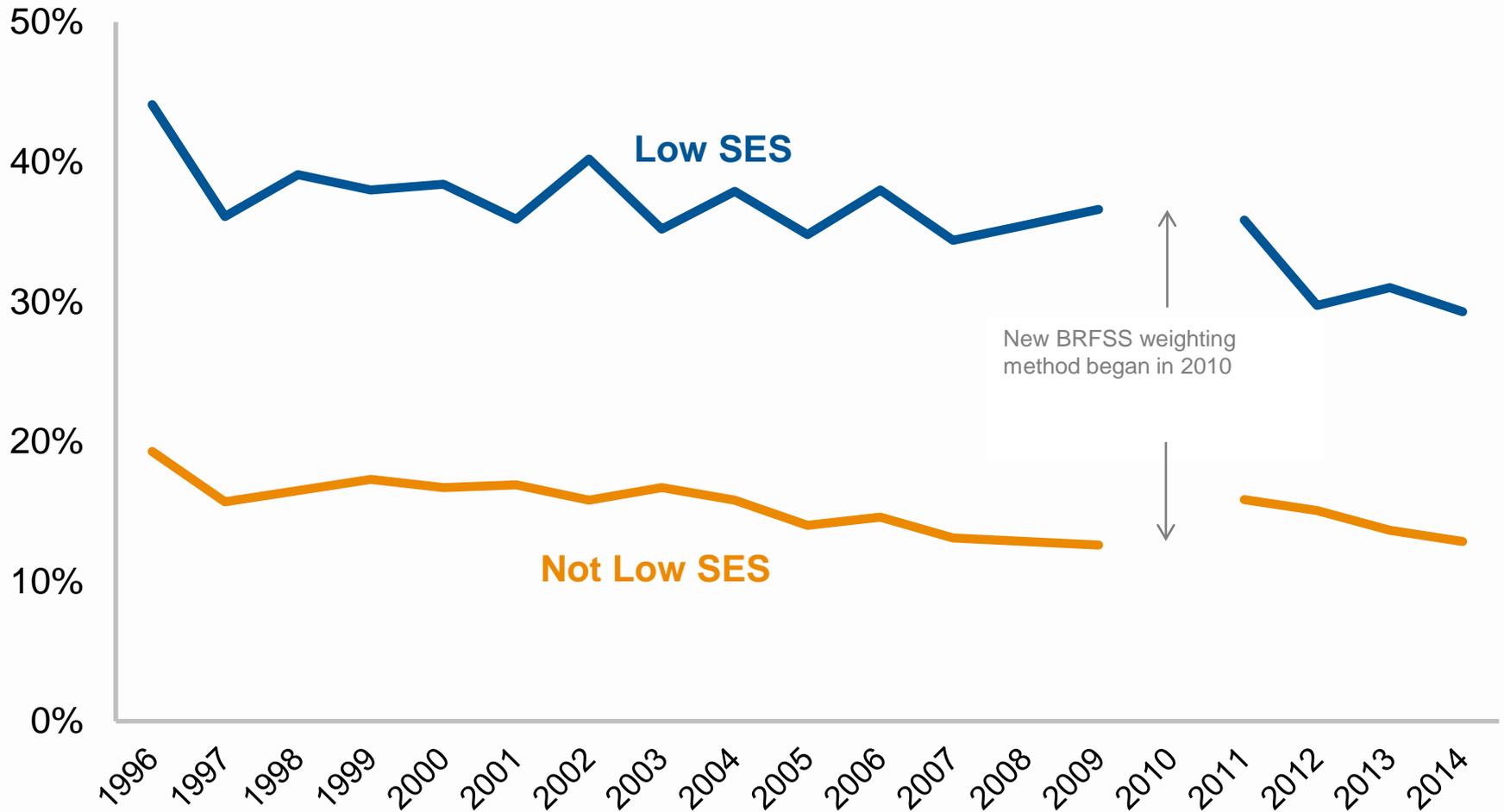
Disparities in viral hepatitis, liver cancer, and mortality - Oregon

Condition	Incidence rate: Whites per 100,000	Incidence rate: Blacks per 100,000
Chronic HBV infection, 2009–2013	2.2	39.9
Chronic HCV infection, 2009–2013	57.5	124.4
HBV-associated liver cancer, 2008–2012	0.2	1.5
HCV-associated liver cancer, 2008–2012	3.1	5.1
Mortality from HCV, 2009–2013	8.9	16.1

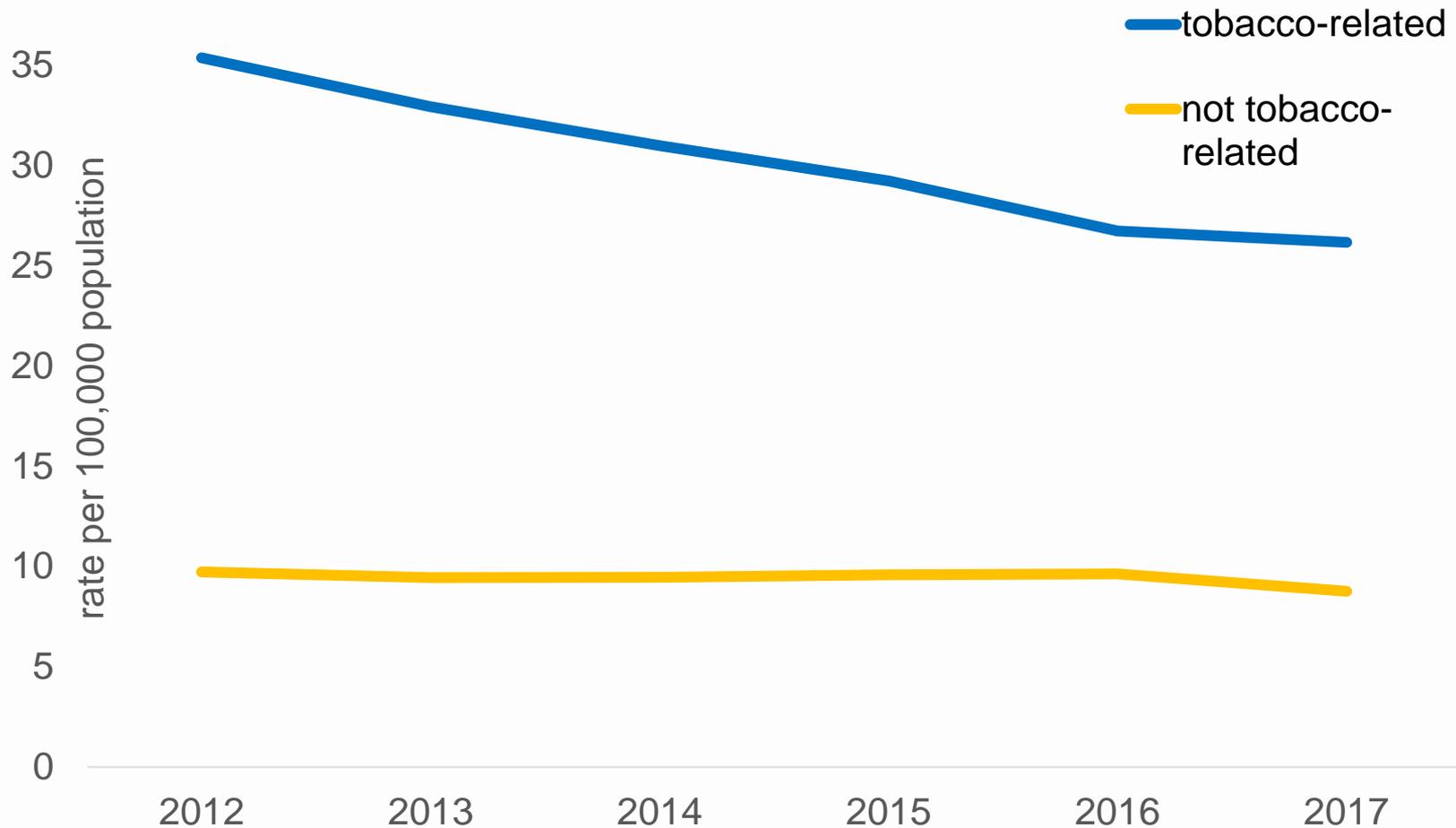
Cigarette and e-cigarette use, Oregon, 1996–2017



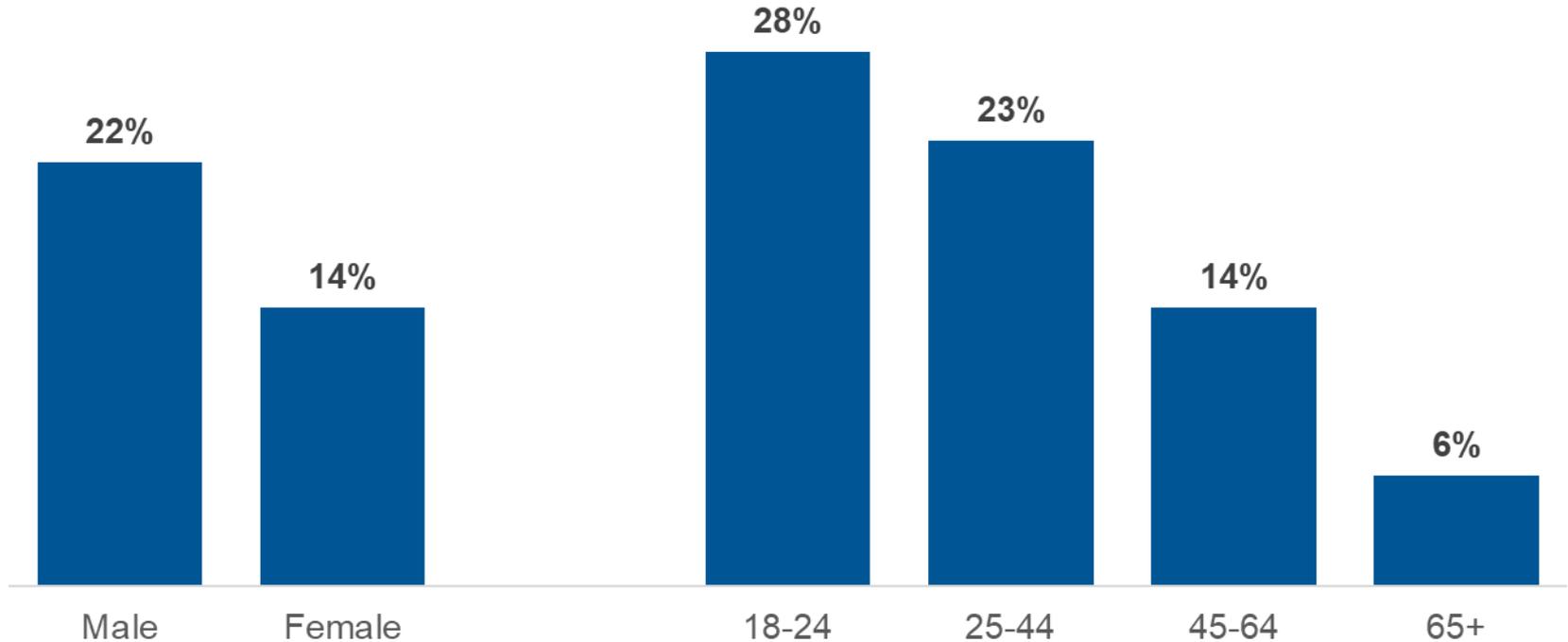
Cigarette smoking by SES, Oregon, 1996–2014



Trachea, lung, and bronchus cancer mortality in Oregon 2012-2017



Adult binge drinking, Oregon, 2017

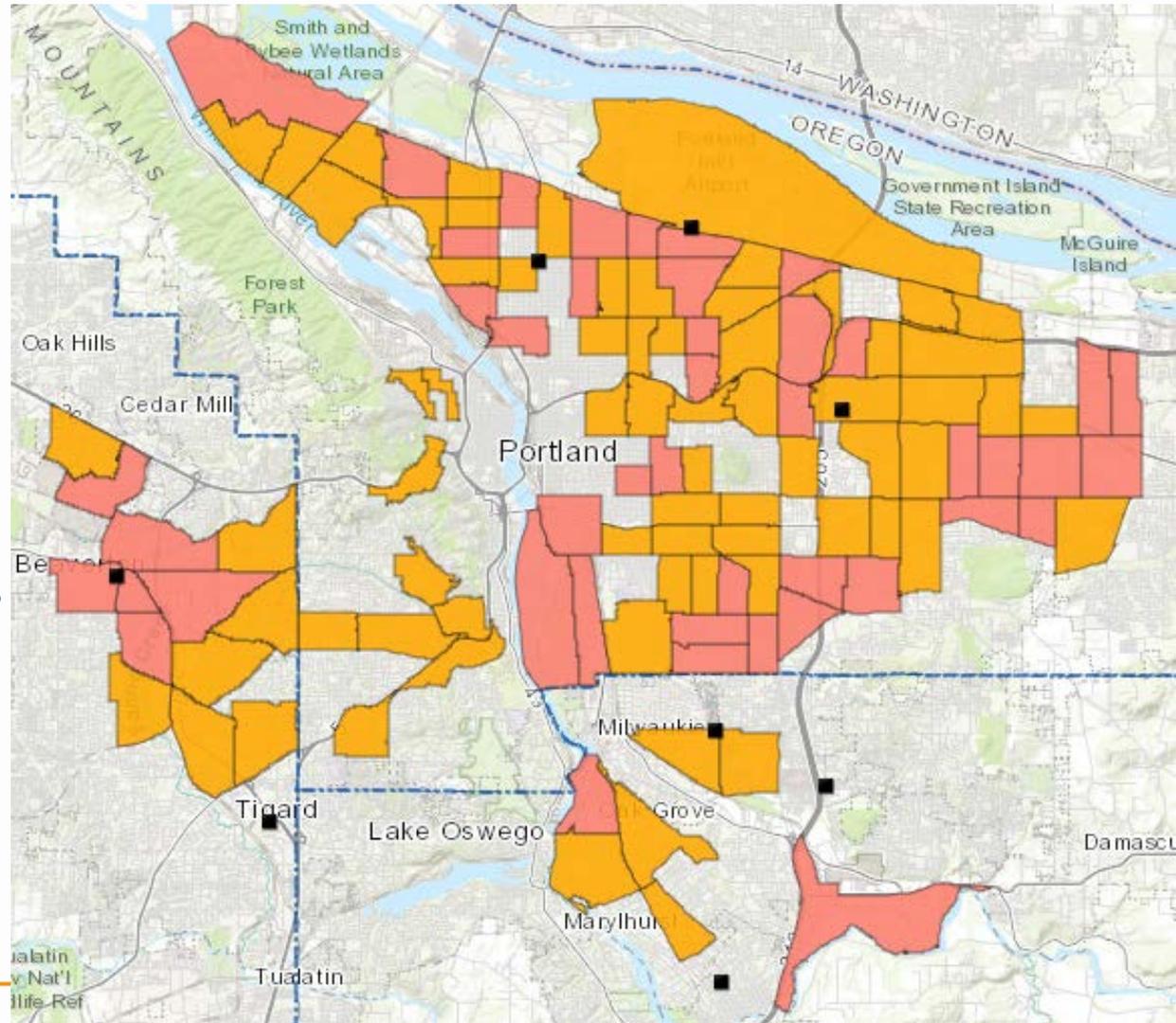


Estimates by sex are age-adjusted

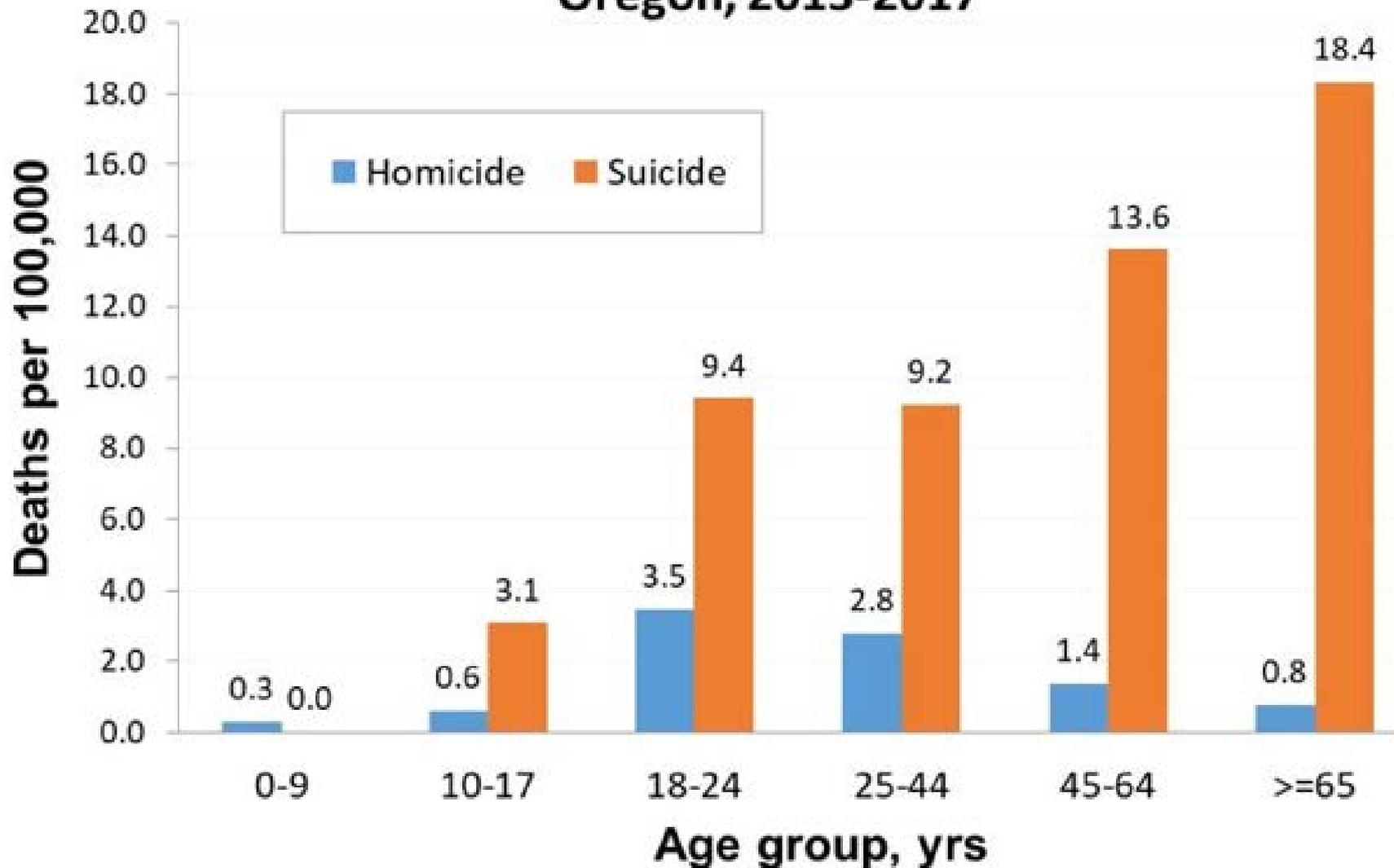
Source: Oregon Behavioral Risk Factor Surveillance System

Lead hazard vulnerability mapping

- Developed to
 - focus outreach
 - education
 - enforcement efforts.
- Developed using data on
 - children under 6
 - pre 1980 housing
 - % experiencing poverty
 - foreign born populations



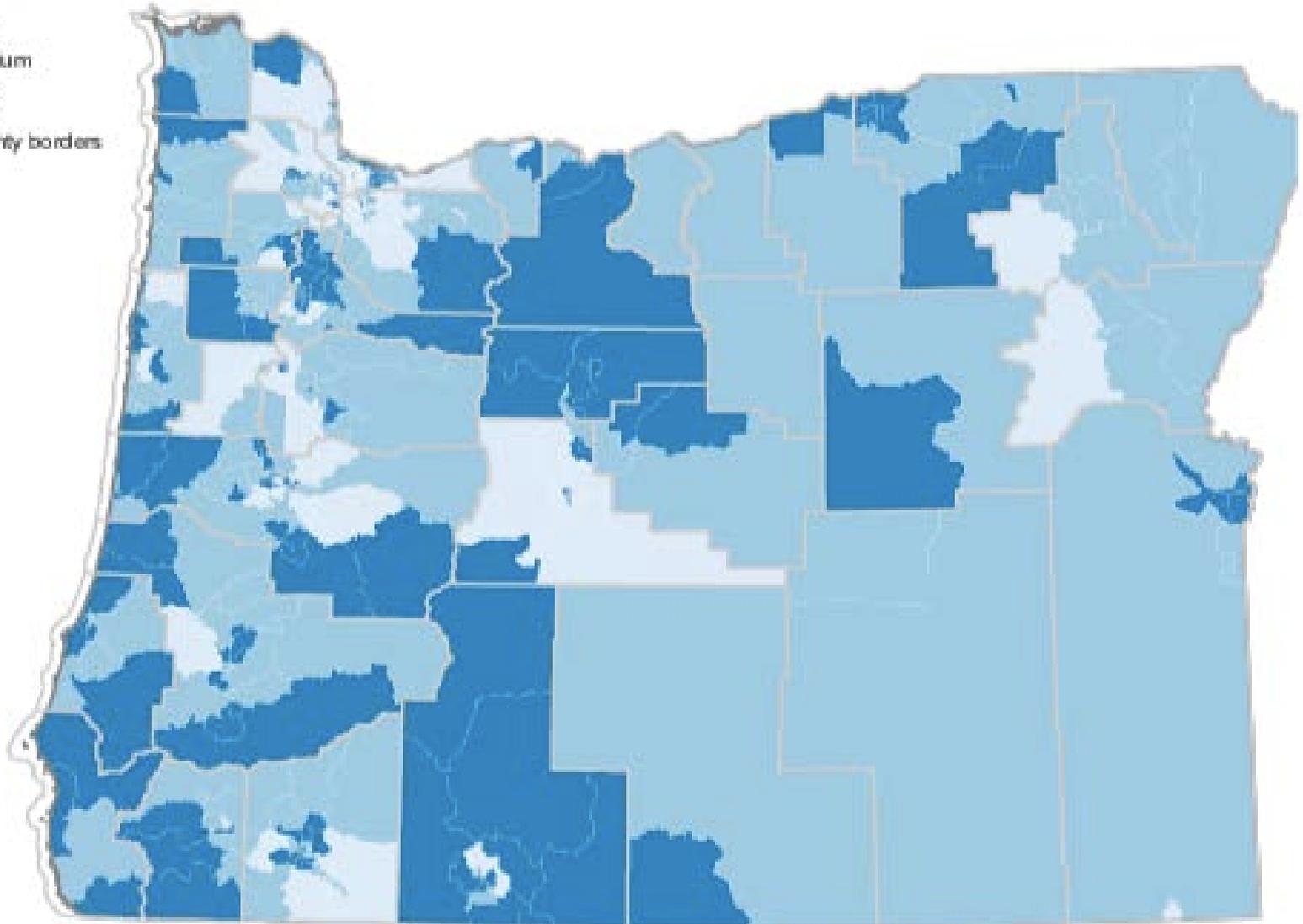
Firearm fatality rates by age group and intent, Oregon, 2013-2017



Using data to map vulnerabilities

Composite vulnerability index

Census Tracts



Data to Inform State Health Improvement Plan

- 2015-2019 SHIP priorities
 - Tobacco, obesity, alcohol & substance use
 - Suicide;
 - Oral health
 - Communicable diseases; immunization
- 2020-2024 SHIP priorities
 - Institutional bias
 - Adversity, trauma and toxic stress
 - Economic drivers of health (e.g., housing, living wage, food security, transportation)
 - Access to equitable preventive health care
 - Behavioral health (e.g., mental health, substance use)

Oregon Public Health

>> State Health Improvement Plan



2015–2019

Oregon
Health
Authority

Oregon
Health
Authority

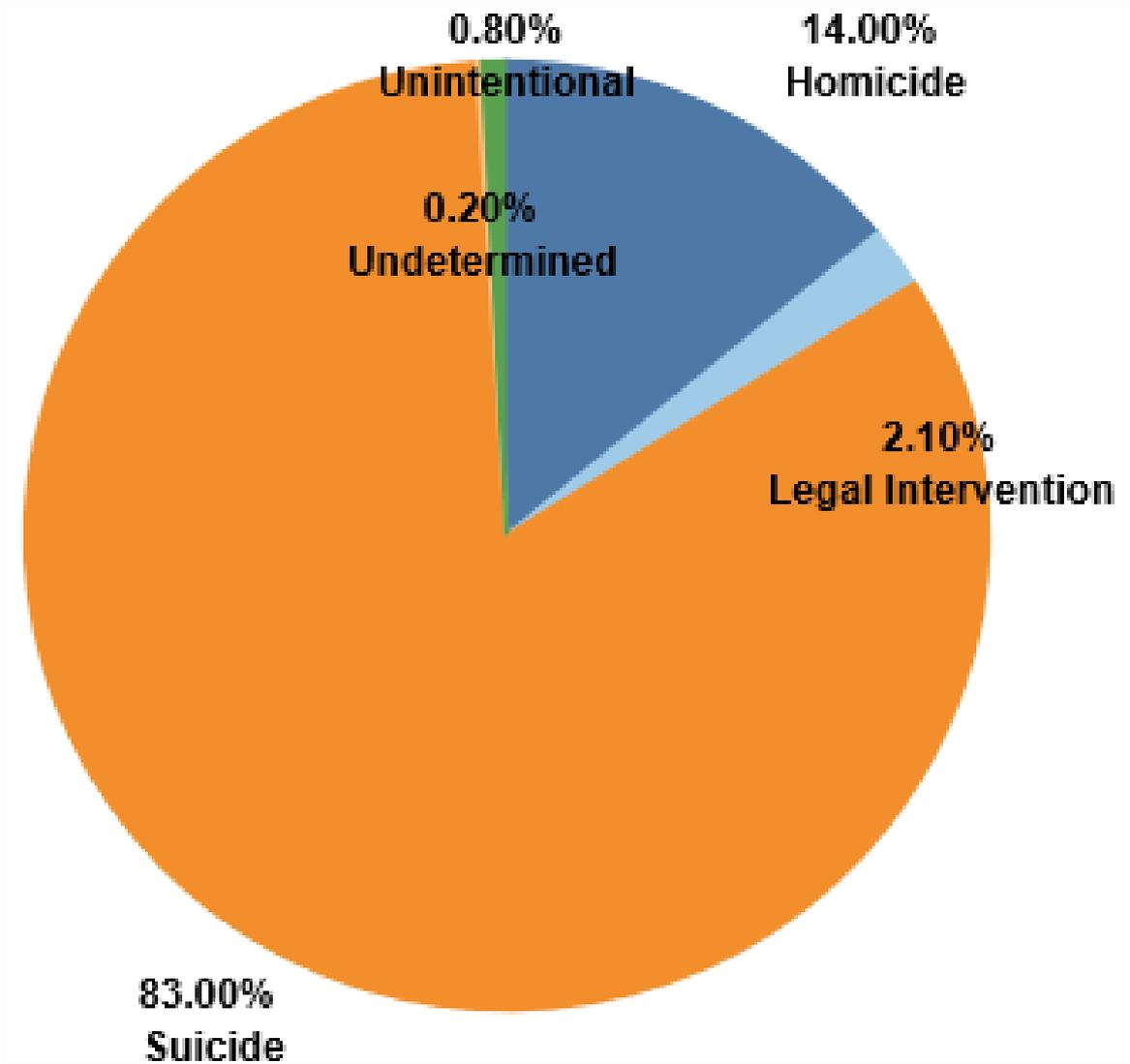


Questions?

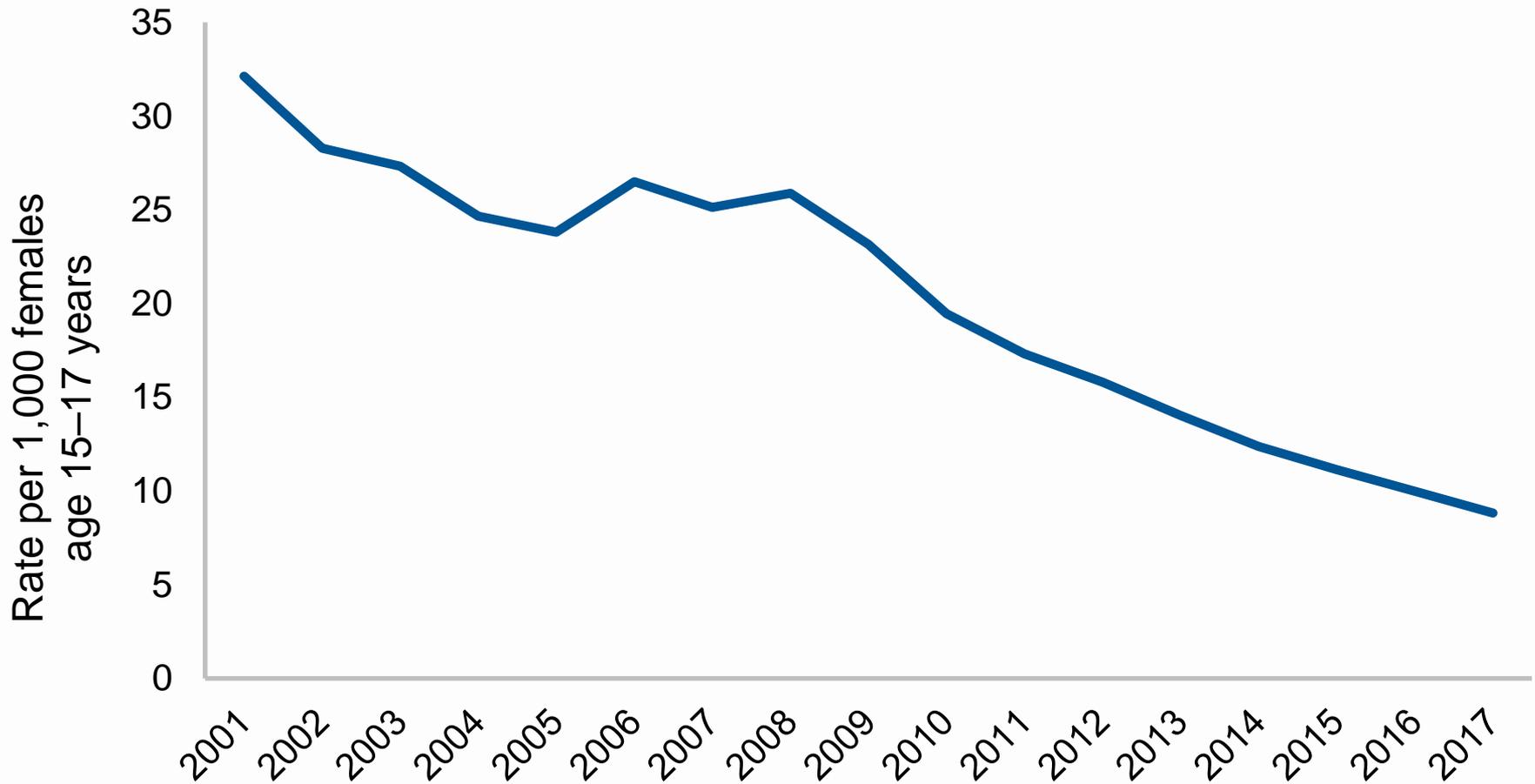
ali.k.hamade@state.or.us

(Enter) DEPARTMENT (ALL CAPS)
(Enter) Division or Office (Mixed Case)

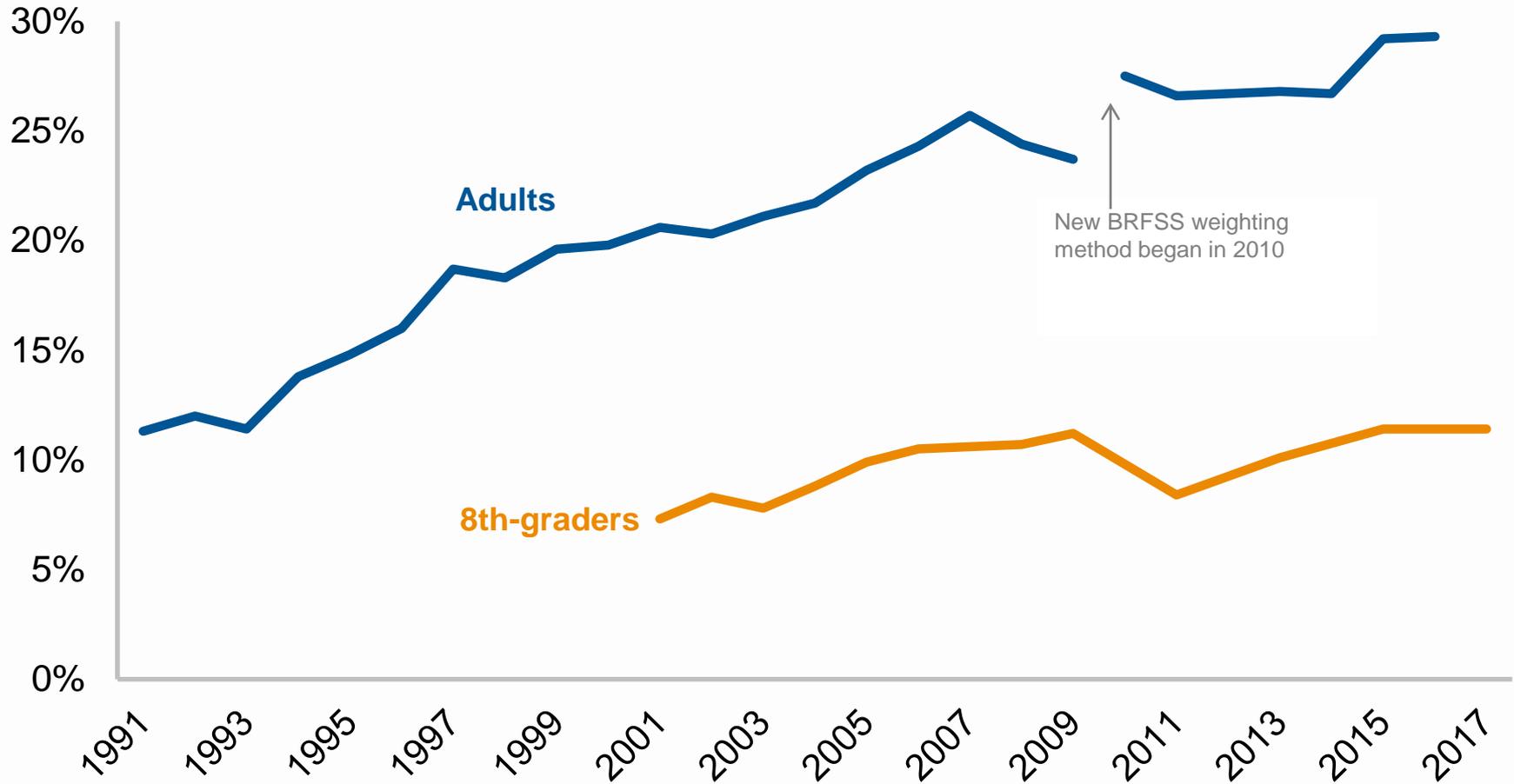
Firearm deaths by intent, 2007– 2017



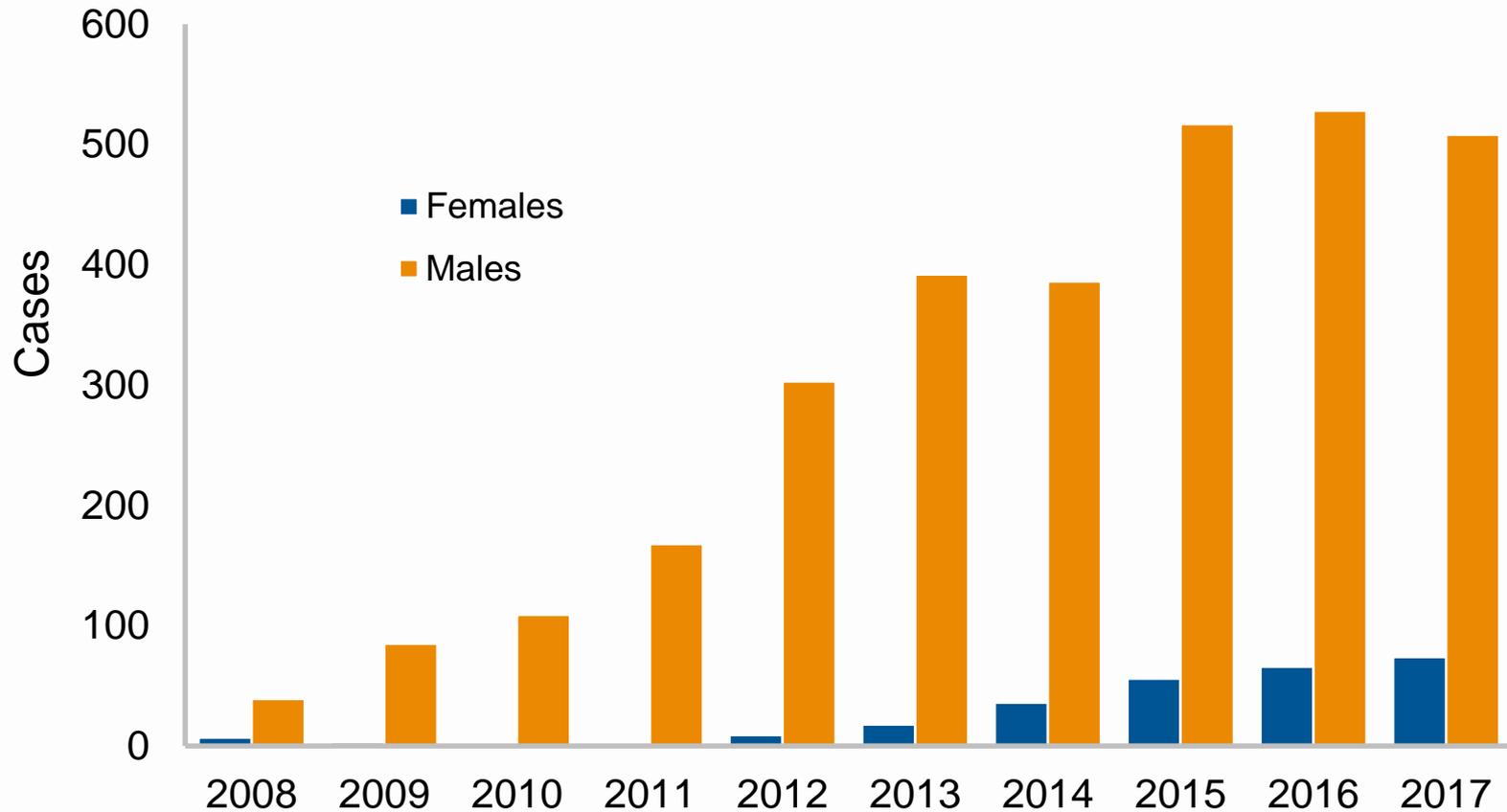
Teen pregnancy (15–17 years), Oregon, 2001–2017



Obesity in adults and 8th graders Oregon, 1991–2017



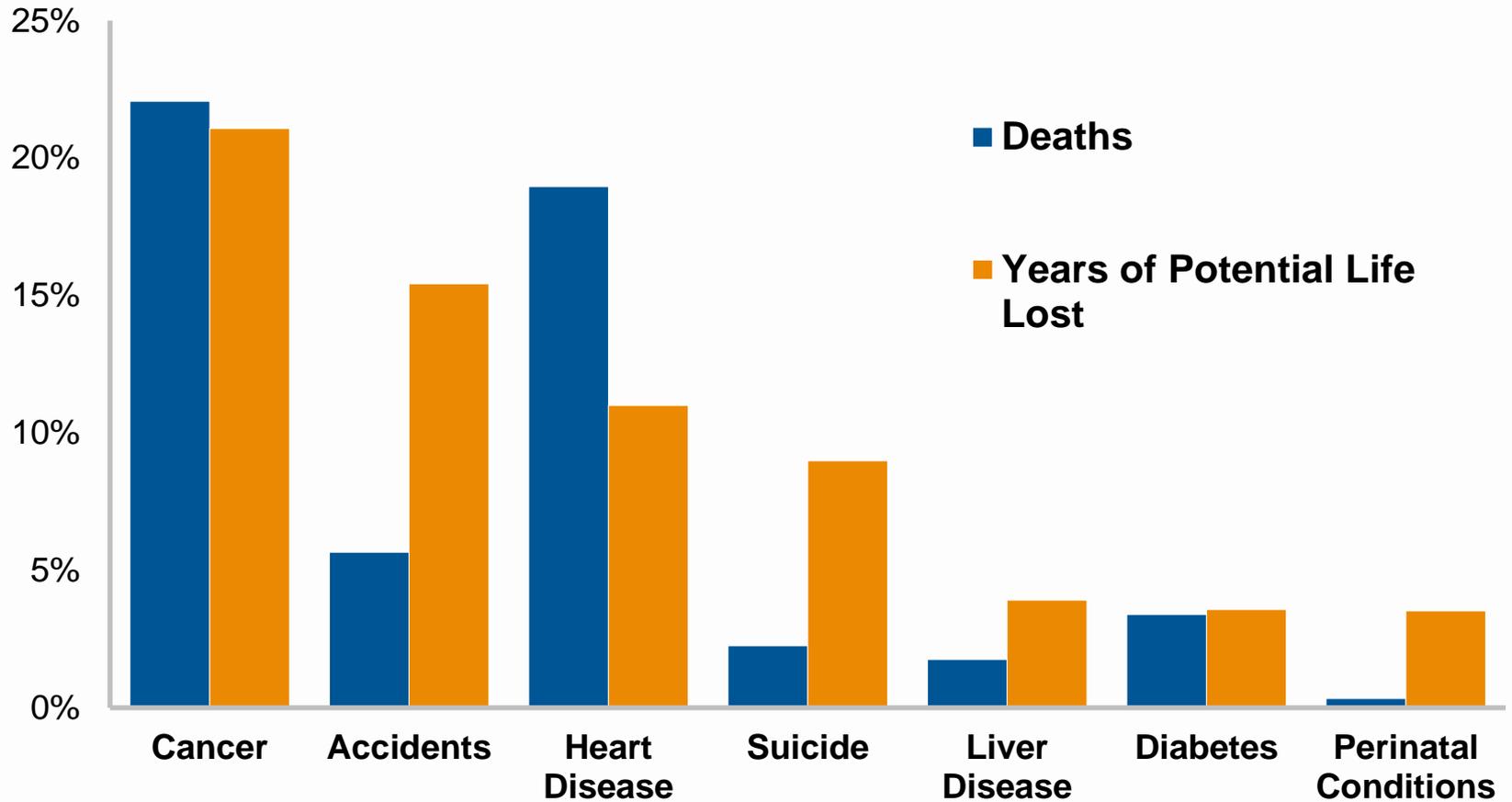
Oregon syphilis cases by sex and year, 2008–2017



Socioeconomic Status of Oregonians

- High school graduation (2017)
 - 77% (US 84%, 2016)
- Poverty (2017)
 - Adults: 13% (US 12%)
 - Children: 16% (US 18%)
- Food Insecurity (2016)
 - Overall: 15% (US 12%)
 - Children: 20% (US 18%)

Causes of Death and Premature Death, Oregon, 2017



Lead in water in Oregon schools

