

Data Visualization and Community Reports

MHOA Quarterly Program December 18th, 2025

MAKAYLA PETTY, MPH



**Greater Boroughs
Partnership for Health**

Where to get started

Often times in public health it can be tough to figure out where to start, what area to focus on, or how to communicate the health needs of your communities.



Where an Epi can assist:



1

Gathering Data

Data is everywhere now, however sorting through it, understanding the strengths and weaknesses takes time and expertise.

2

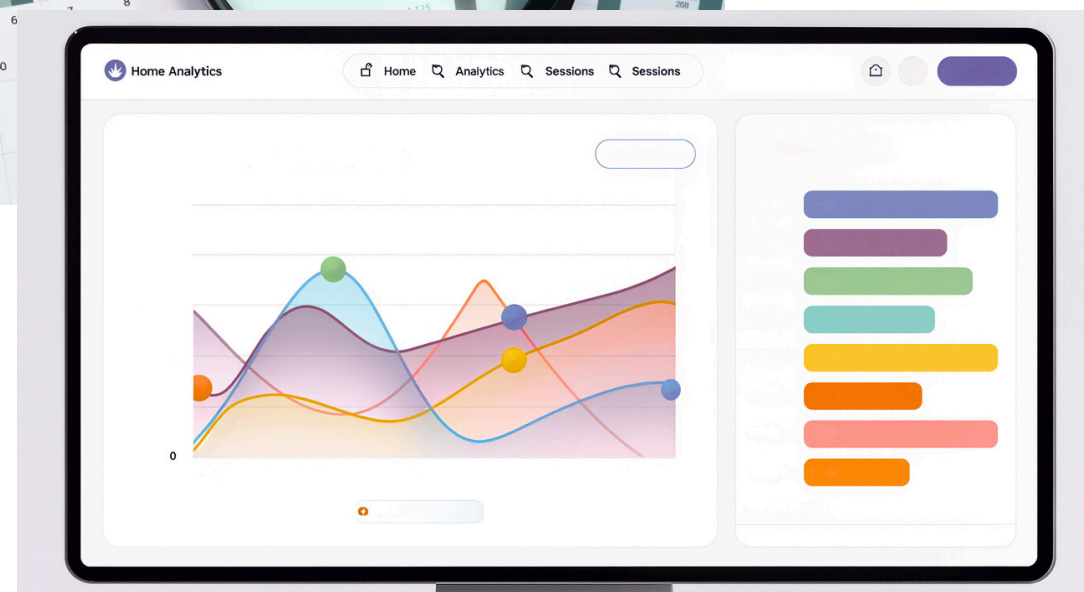
Analyzing Results

Analyzing data not only takes time, it takes an understanding of what it means to draw meaningful conclusions.

3

Communicating Out

Data for data sake is not useful. Epidemiologist can visualize data in ways that communicate to a broad audience.



Community Data Snapshot



Framework for data

Health Outcomes

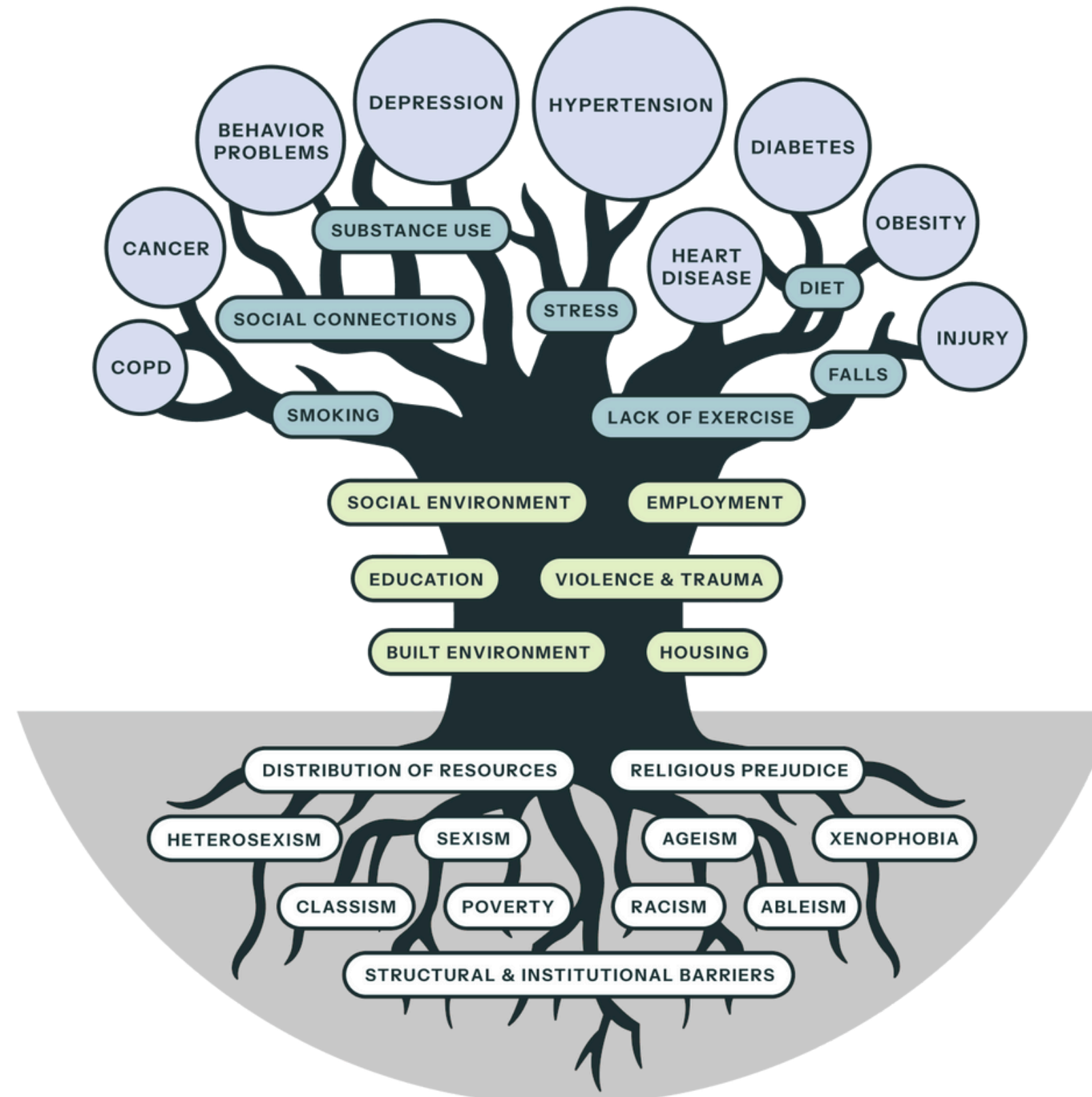
What we can measure to assess broad trends over time

Health Behaviors

How people interact with the environment and community around them

Factors of Health

External influences that can shape outcomes and behaviors



Root causes of Health

The policies that shape communities and how individuals can engage with their environment

Underlying systems

The deep rooted systems that have given rise to policies and practices that impact health.

Source: HRiA Equitree

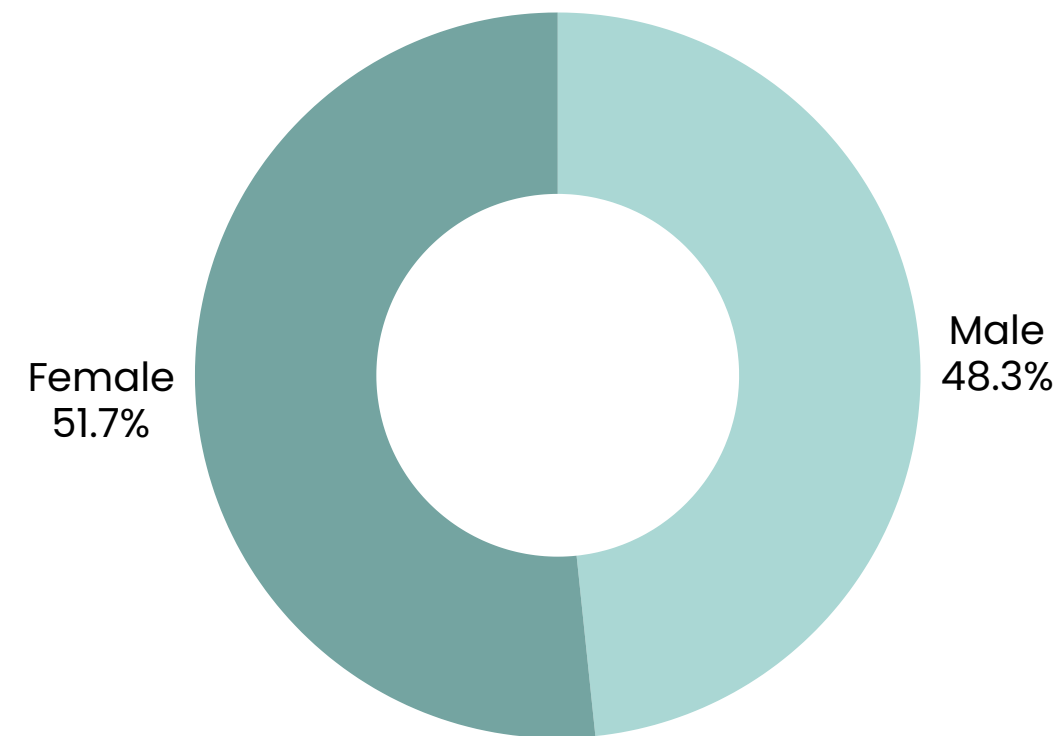
Population Profile

Who is in your community

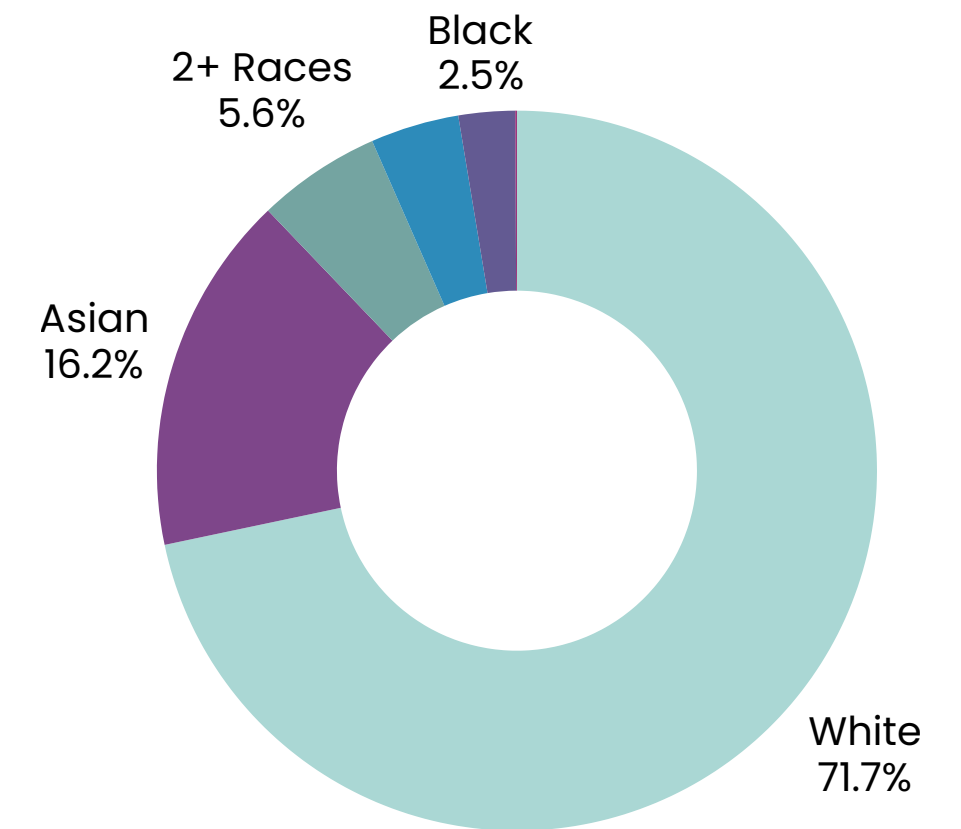
Highlights:

- Relatively even split between male and female population
- Majority white population with the second
- Second largest group by race is Asian
- Larger proportion of the population that is between 5-17 years old and 45-54 years old

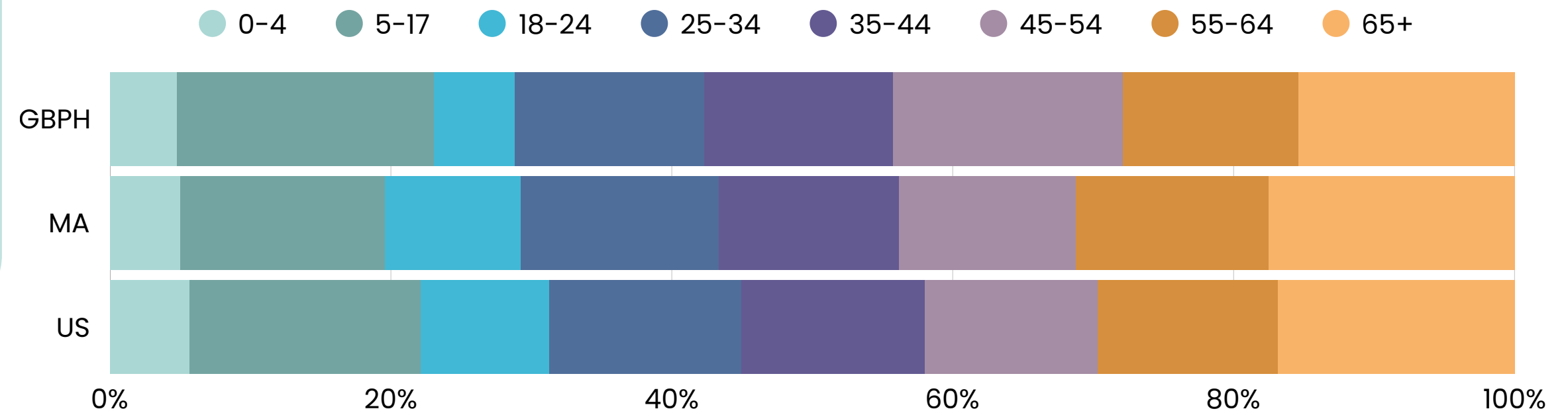
Total Population by Gender in GBPH Region



Total Population by Race in GBPH region

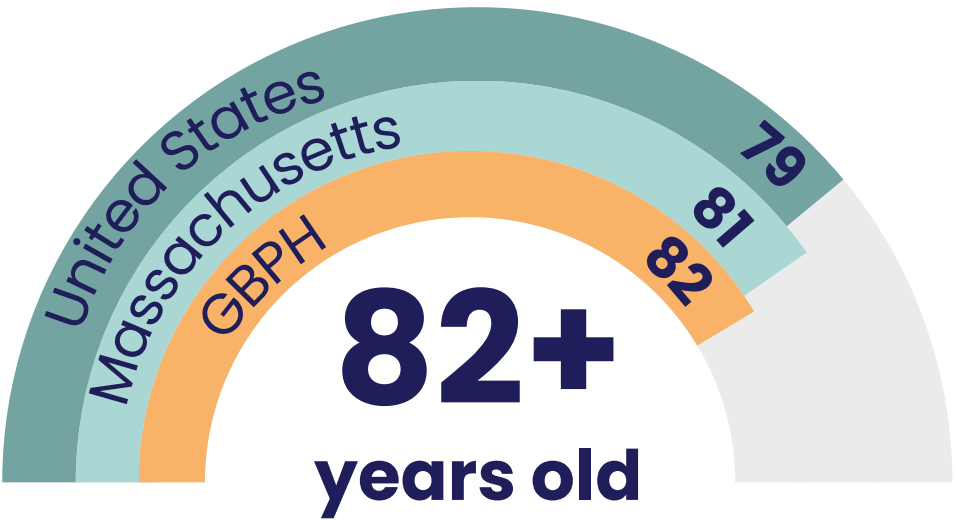


Total Population by Age Group (percent)

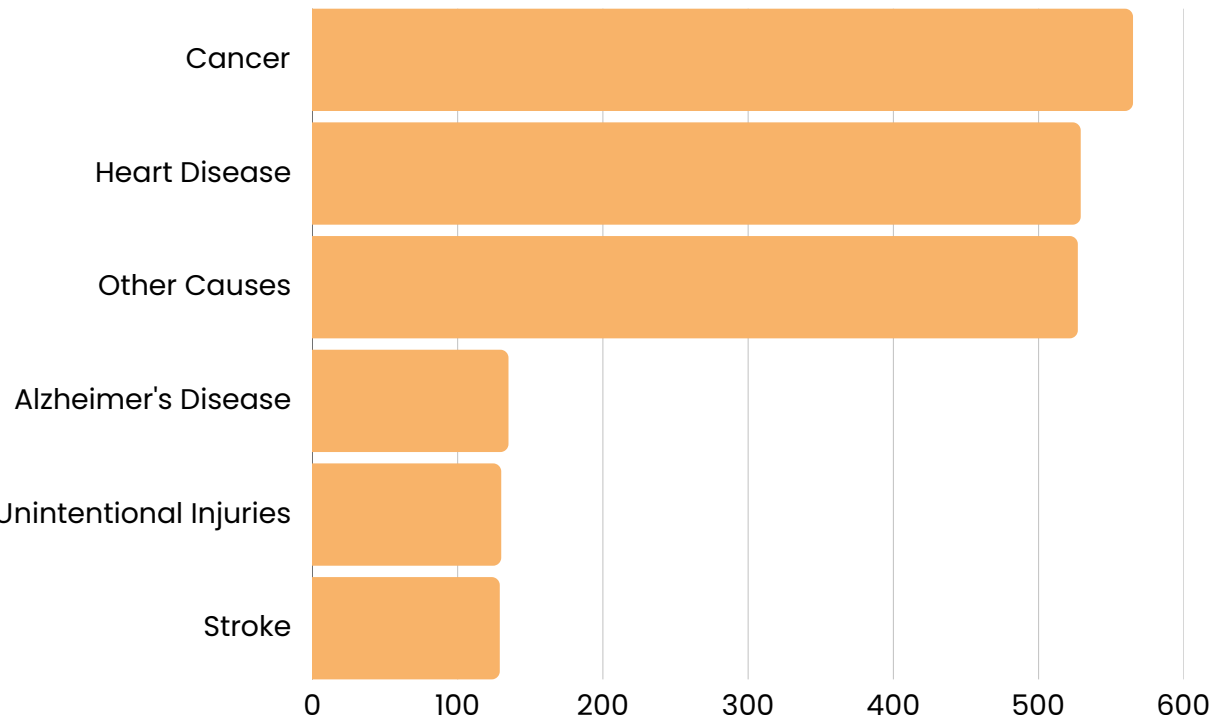


Key Health Outcomes

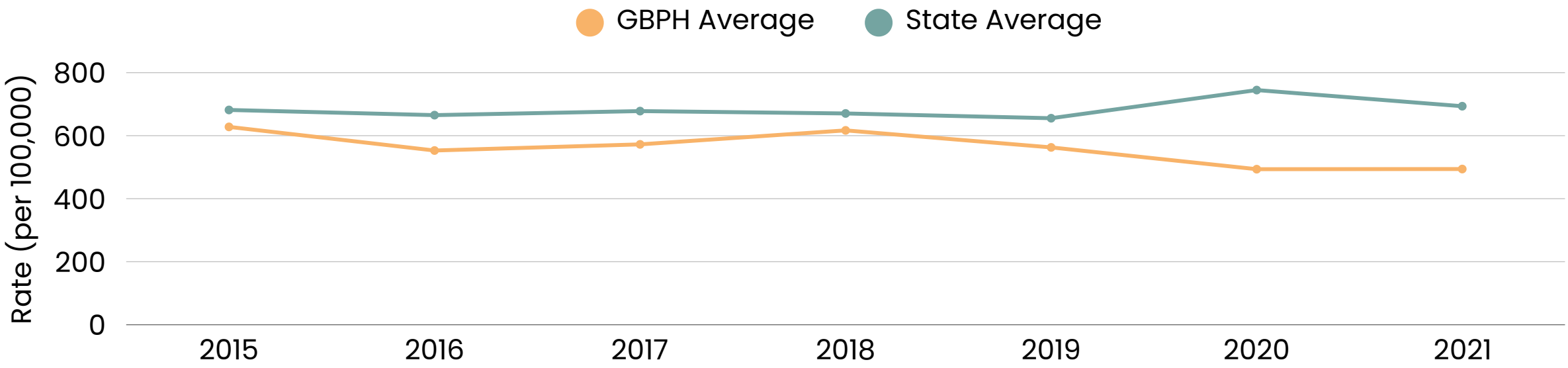
Life Expectancy



Number of Deaths caused by top 6 leading causes of death from 2015-2021 in the GBPH Region

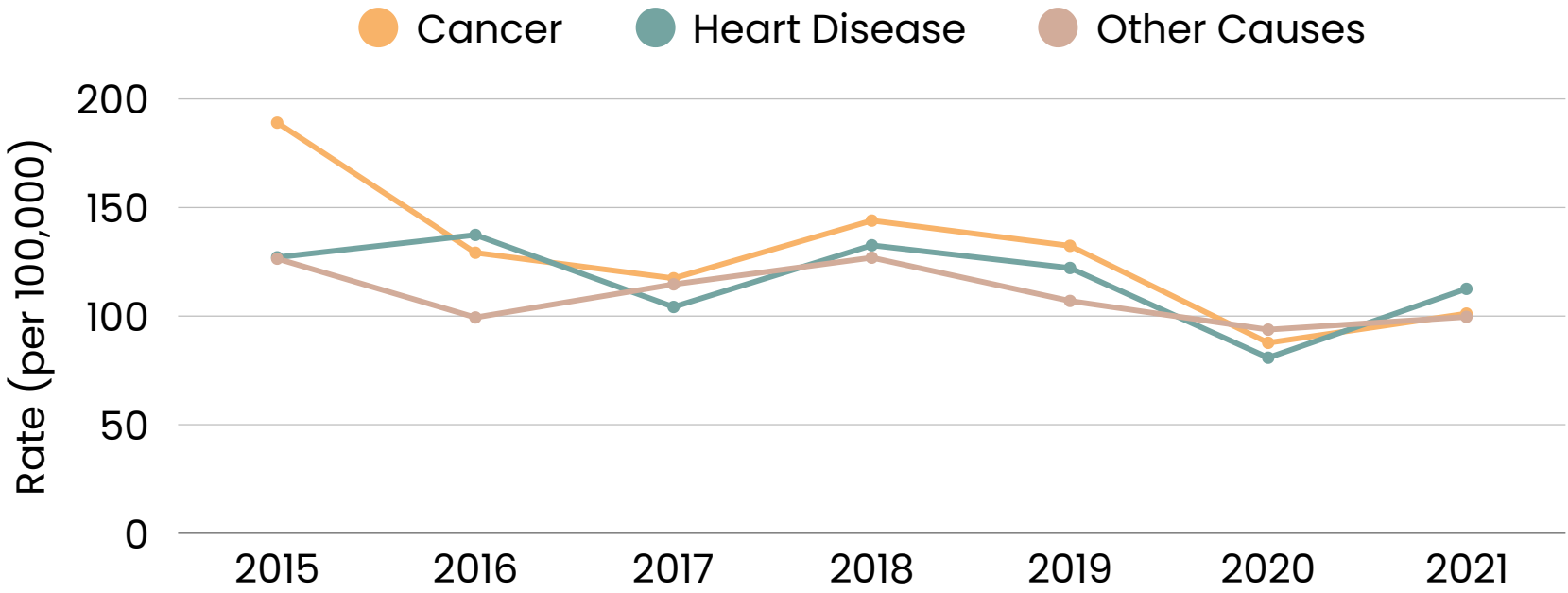


Mortality Rate (per 100,000 Population)

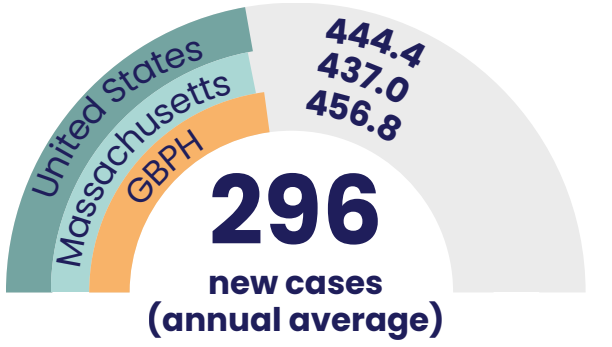


Top 3 Leading Causes of Death over time from 2015-2021 in the GBPH region

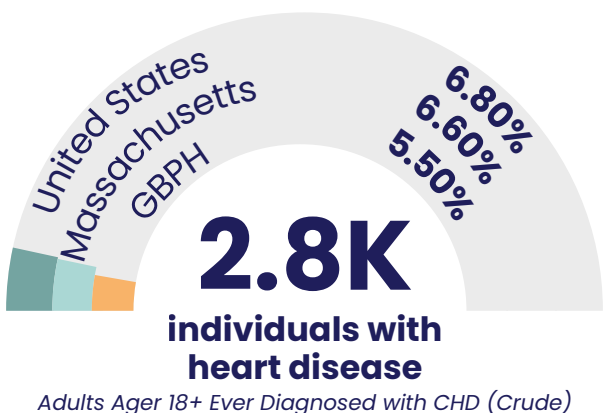
Age adjusted rate per 100,000



Cancer Incidence per 100,000



Heart Disease

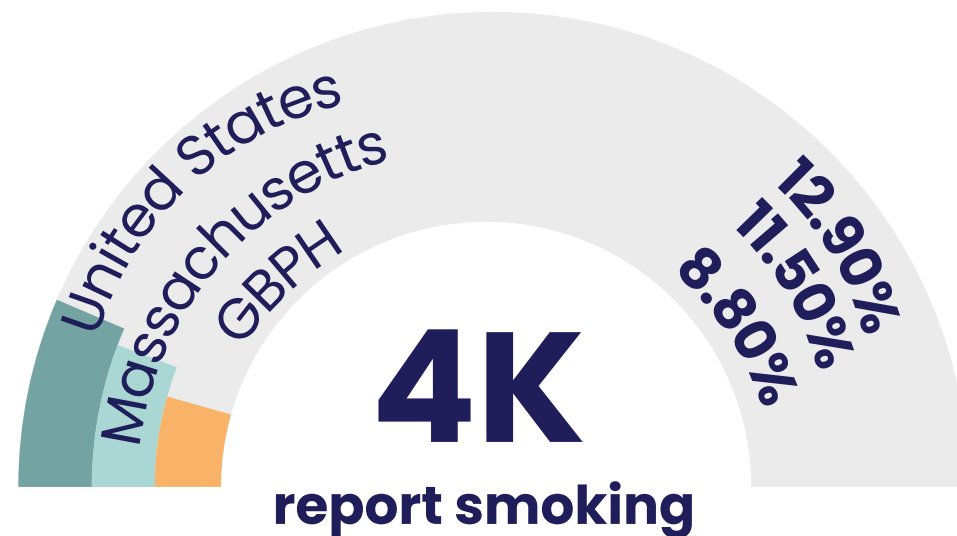


Adults Ager 18+ Ever Diagnosed with CHD (Crude)

Health Behaviors

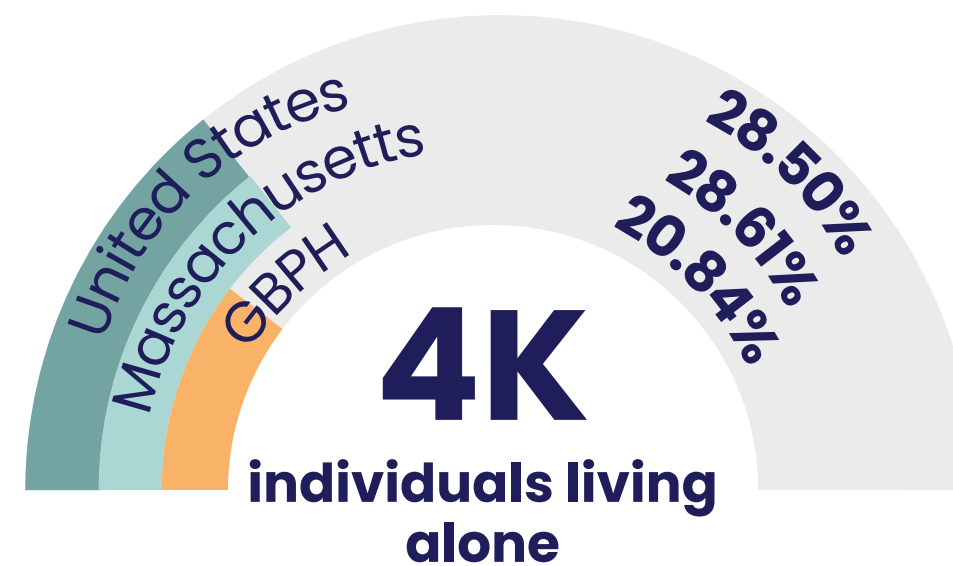
How people interact with the the environment around them

Smoking



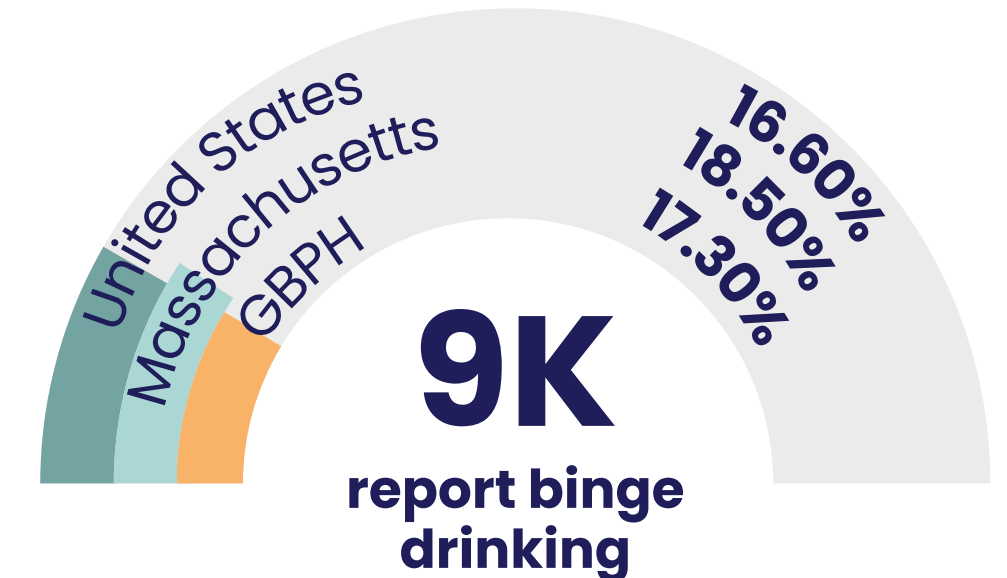
CDC, Behavioral Risk Factor Surveillance System. via PLACES Data Portal. 2022

Social Connection



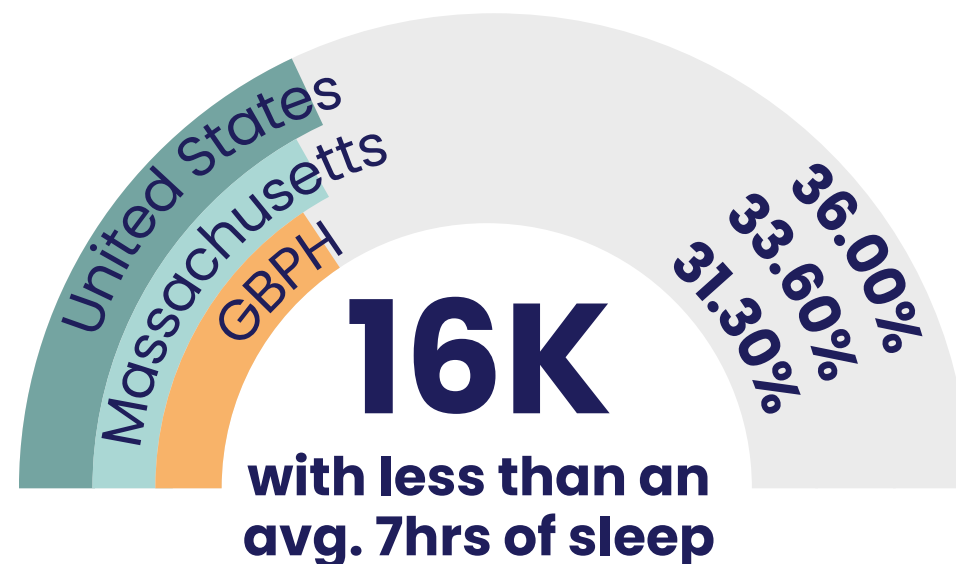
US Census Bureau, American Community Survey. 2019-2023

Alcohol Use



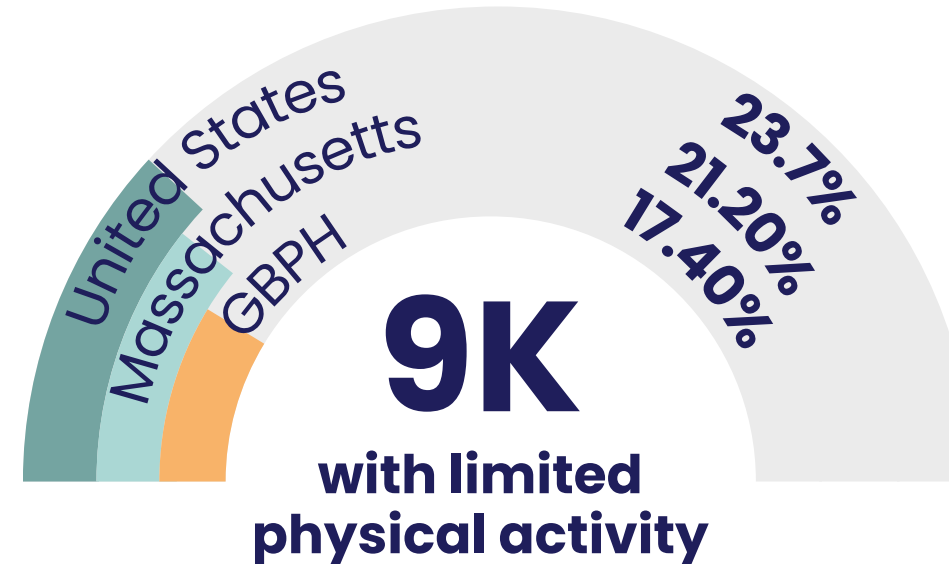
CDC, Behavioral Risk Factor Surveillance System. via PLACES Data Portal. 2022

Sleep



CDC, Behavioral Risk Factor Surveillance System. via PLACES Data Portal. 2022

Lack of Exercise



CDC, Behavioral Risk Factor Surveillance System. via PLACES Data Portal. 2022

Physical Health

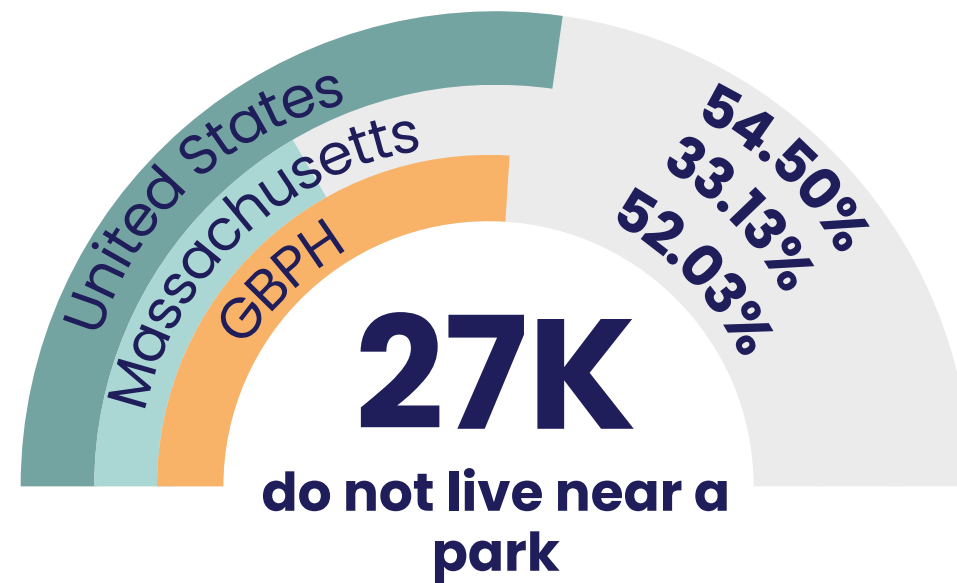


CDC, Behavioral Risk Factor Surveillance System. via PLACES Data Portal. 2022

Key Factors of Health

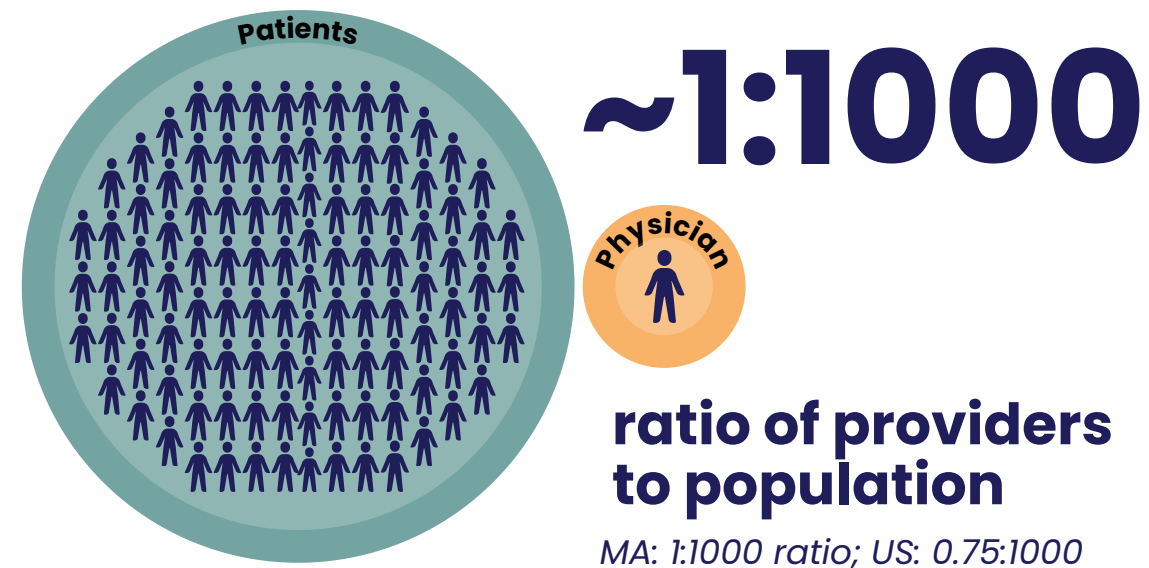
The elements of where people live, work, and play

Access to Parks



Trust for Public Land. 2025

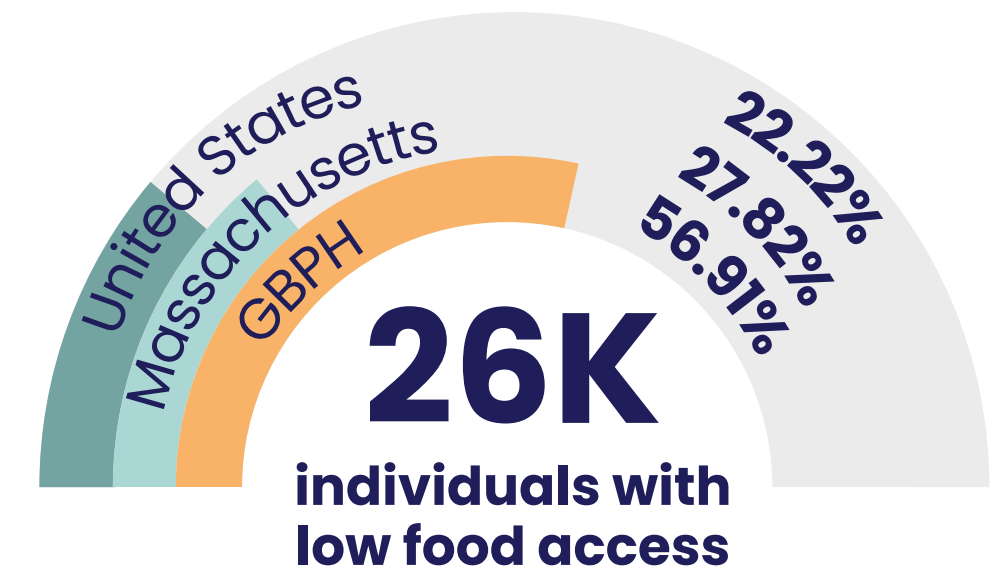
Primary Care Access



MA: 1:1000 ratio; US: 0.75:1000

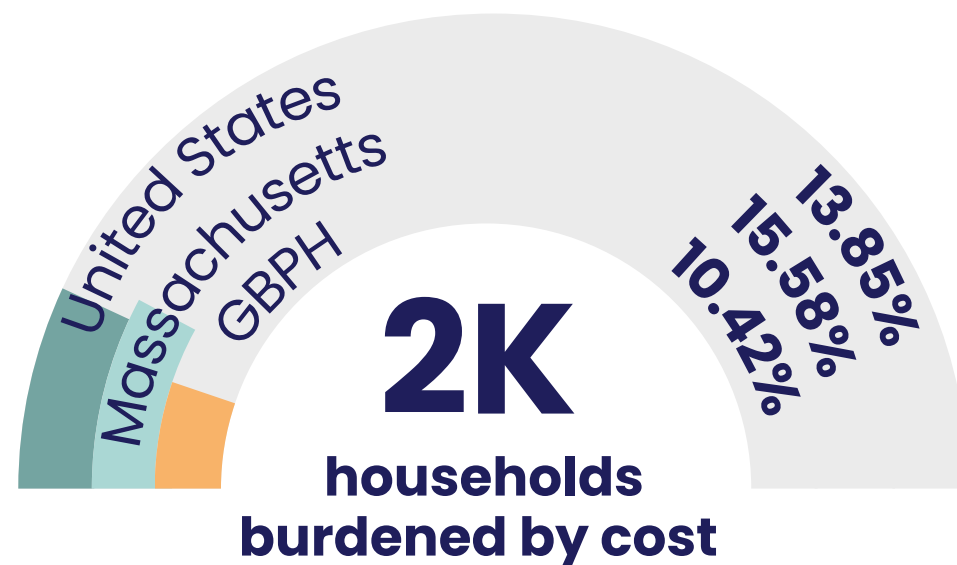
USHHS, HRSA- Area Health Resource File. Accessed via County Health Rankings 2021

Food Access



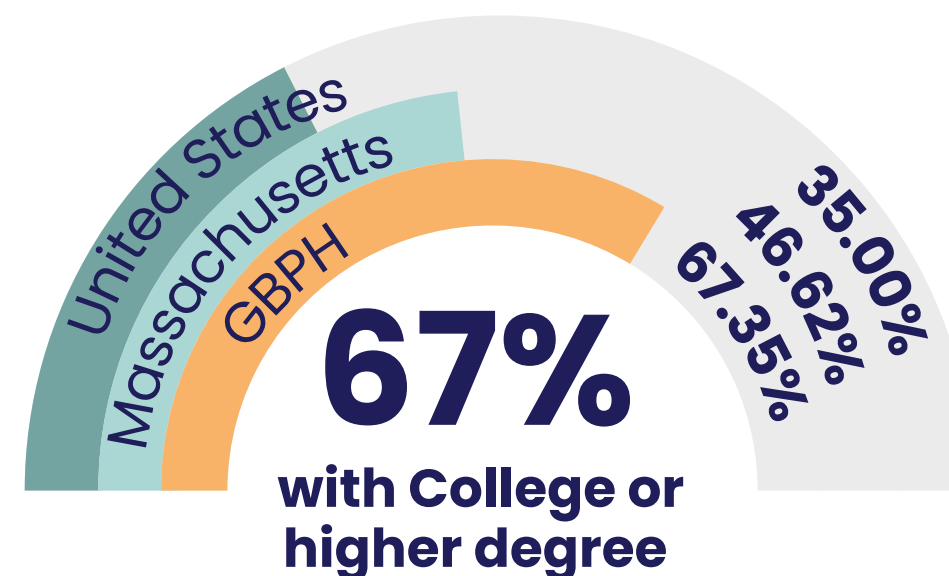
USDA, Economic Research Service, Food Access Research Atlas. 2019

Housing Cost



Households where housing costs are 50% or more
US Census Bureau, American Community Survey. 2019-2023

Education



US Census Bureau, American Community Survey. 2019-2023

Food Insecurity



CDC, BRFSS, PLACES Data Portal. 2022

Communicating with Data



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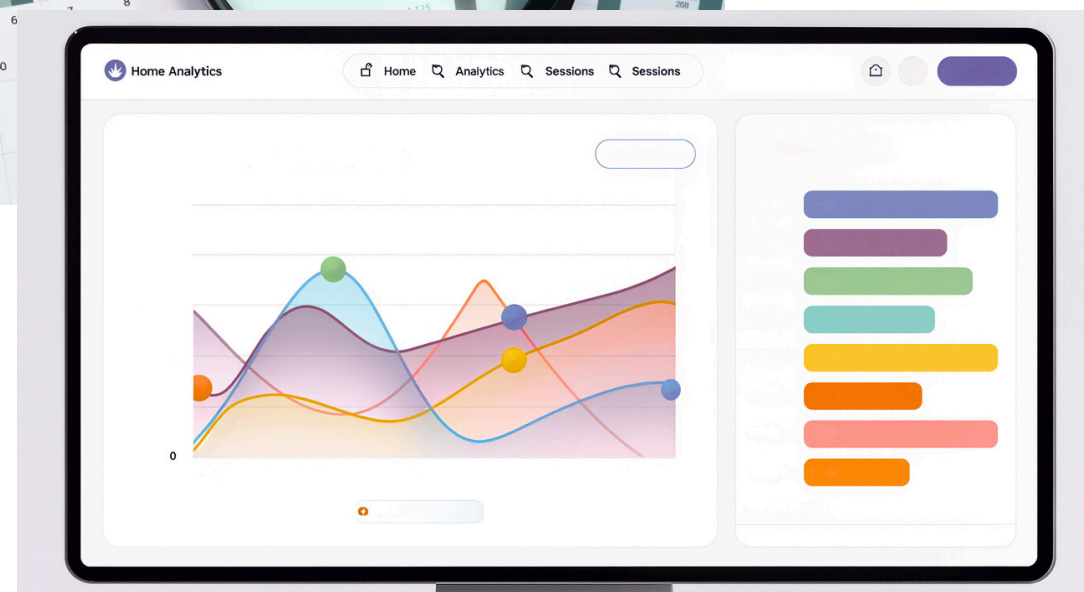
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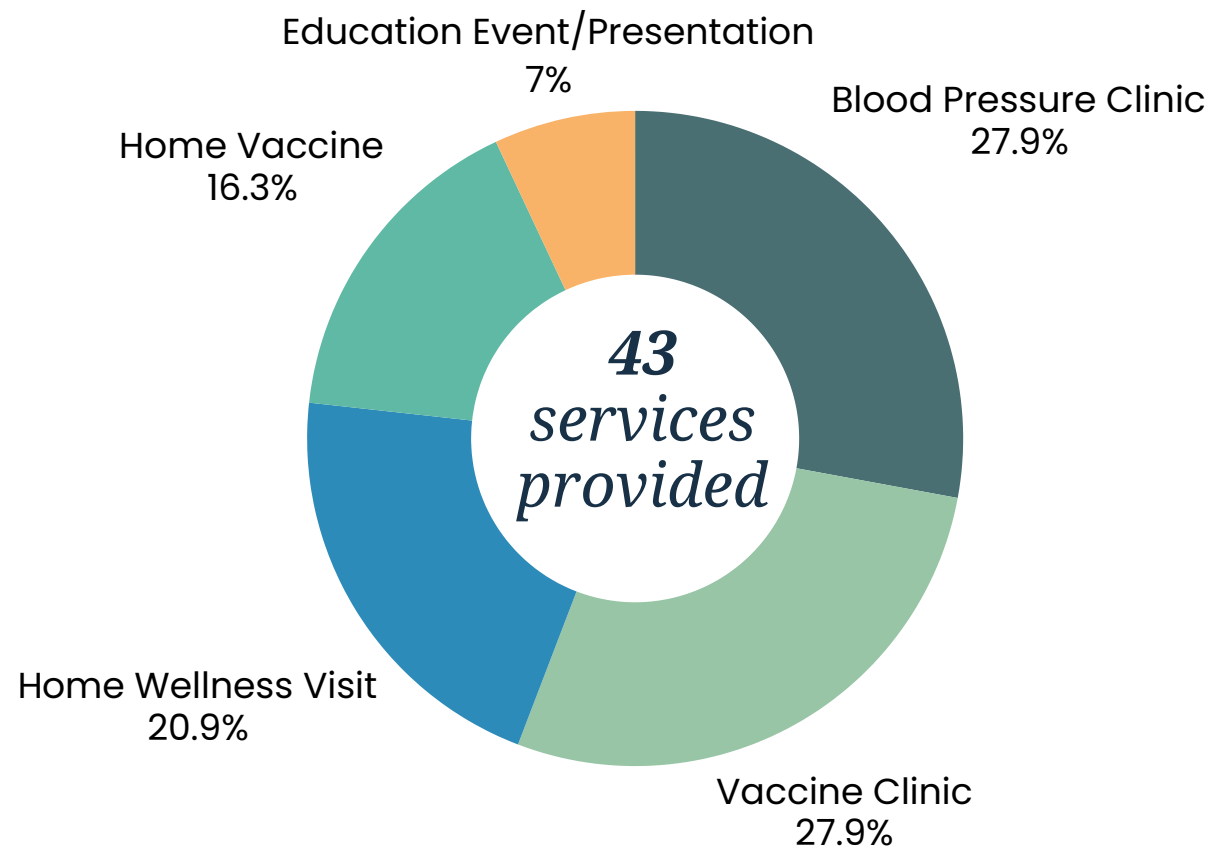
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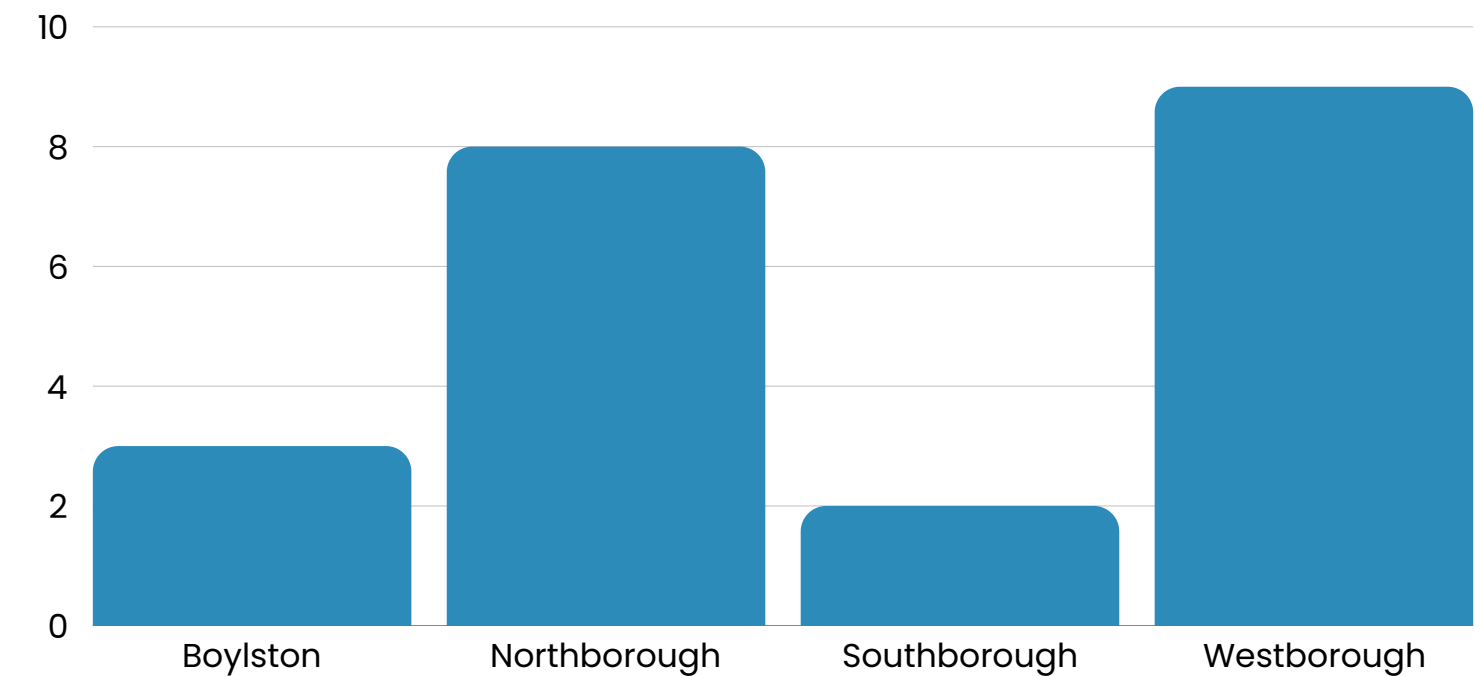
Nursing Services

175
Residents served

Percent of Services from July–October 2025

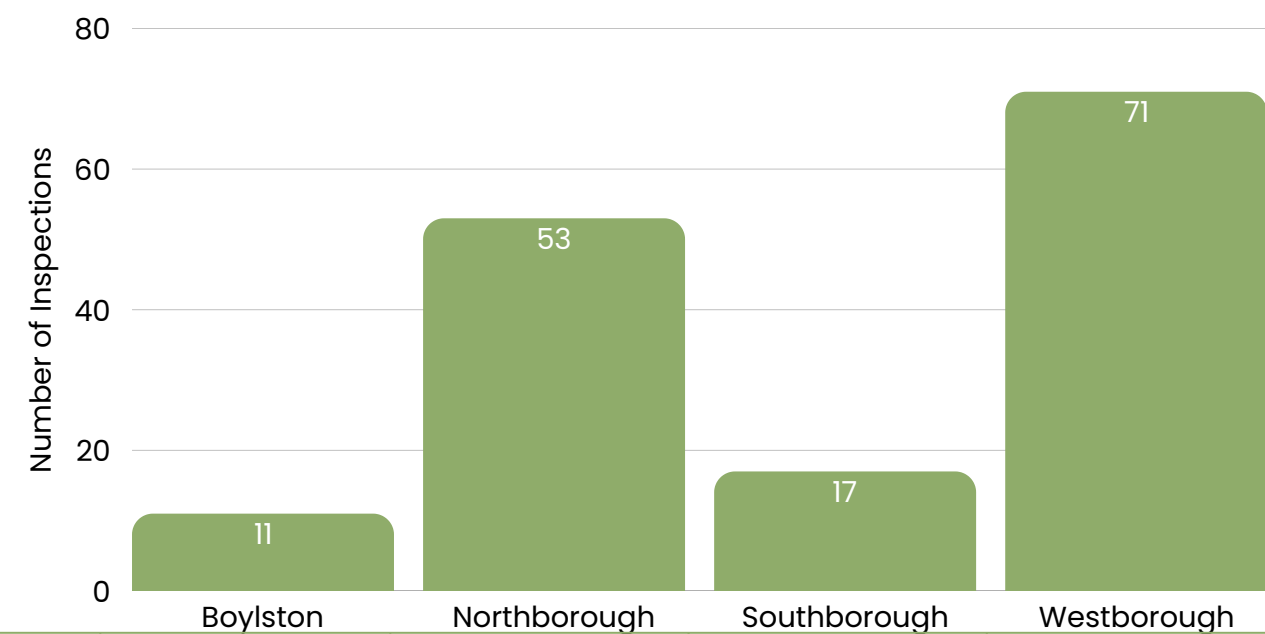


Number of MAVEN Cases investigated by Regional PHN in each town July–October 2025



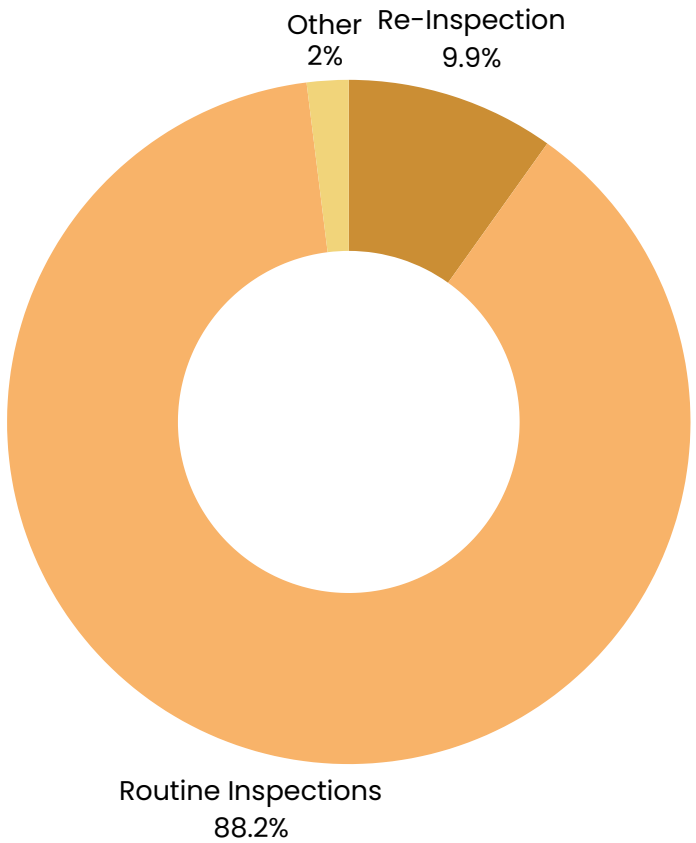
Health Agent Inspections

Food inspections completed July–August 2025



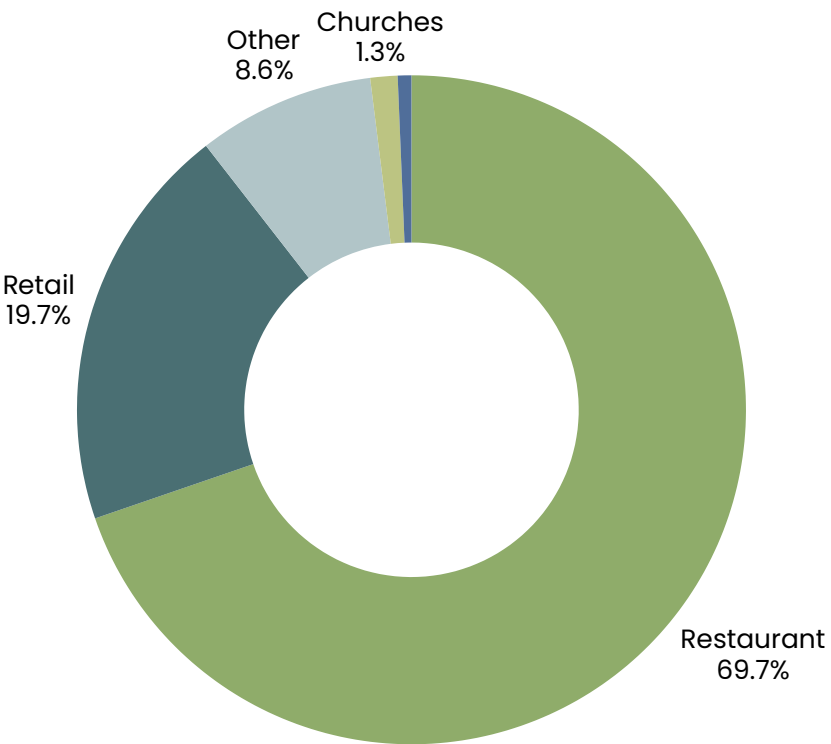
Total Permits	17	84	42	209
Expected number of annual	34	168	84	418

Types of Inspections

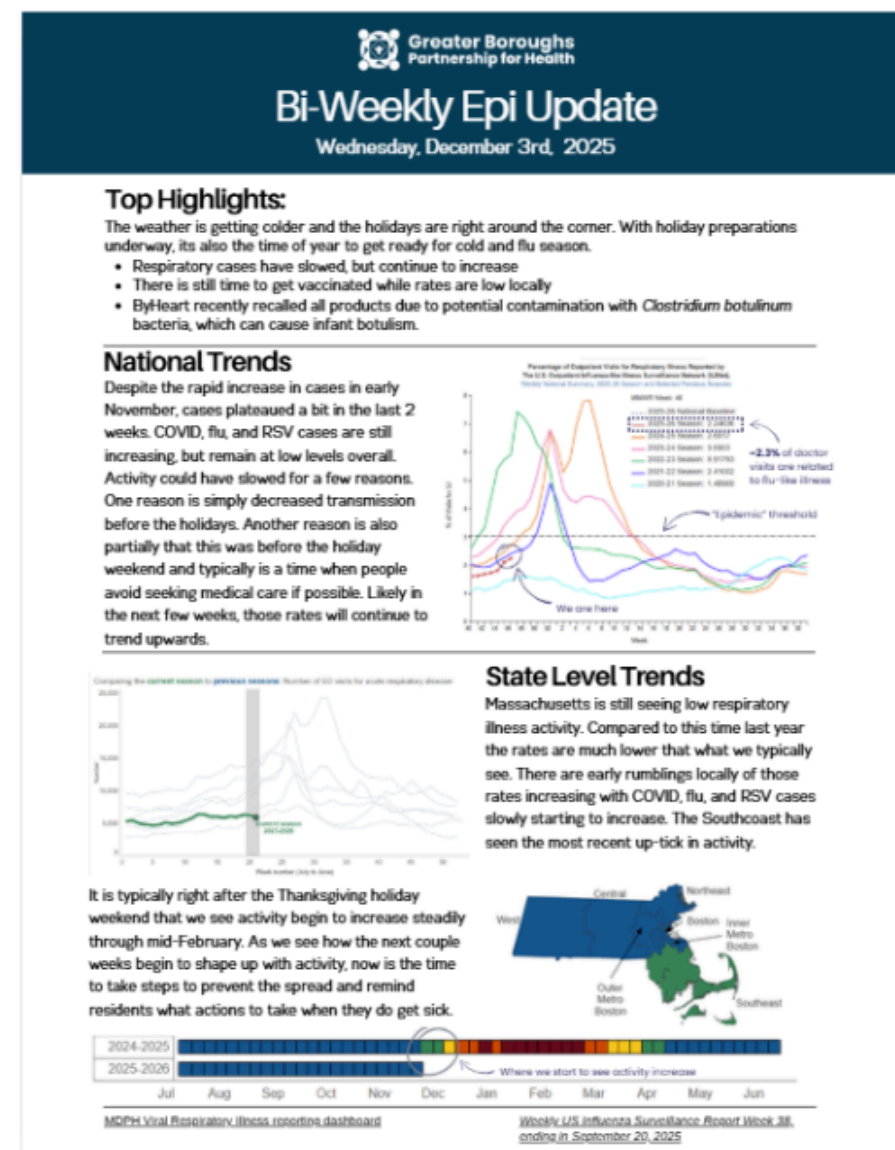


**Other includes Plan Review, New Establishments, Complaints and Training Visits.*

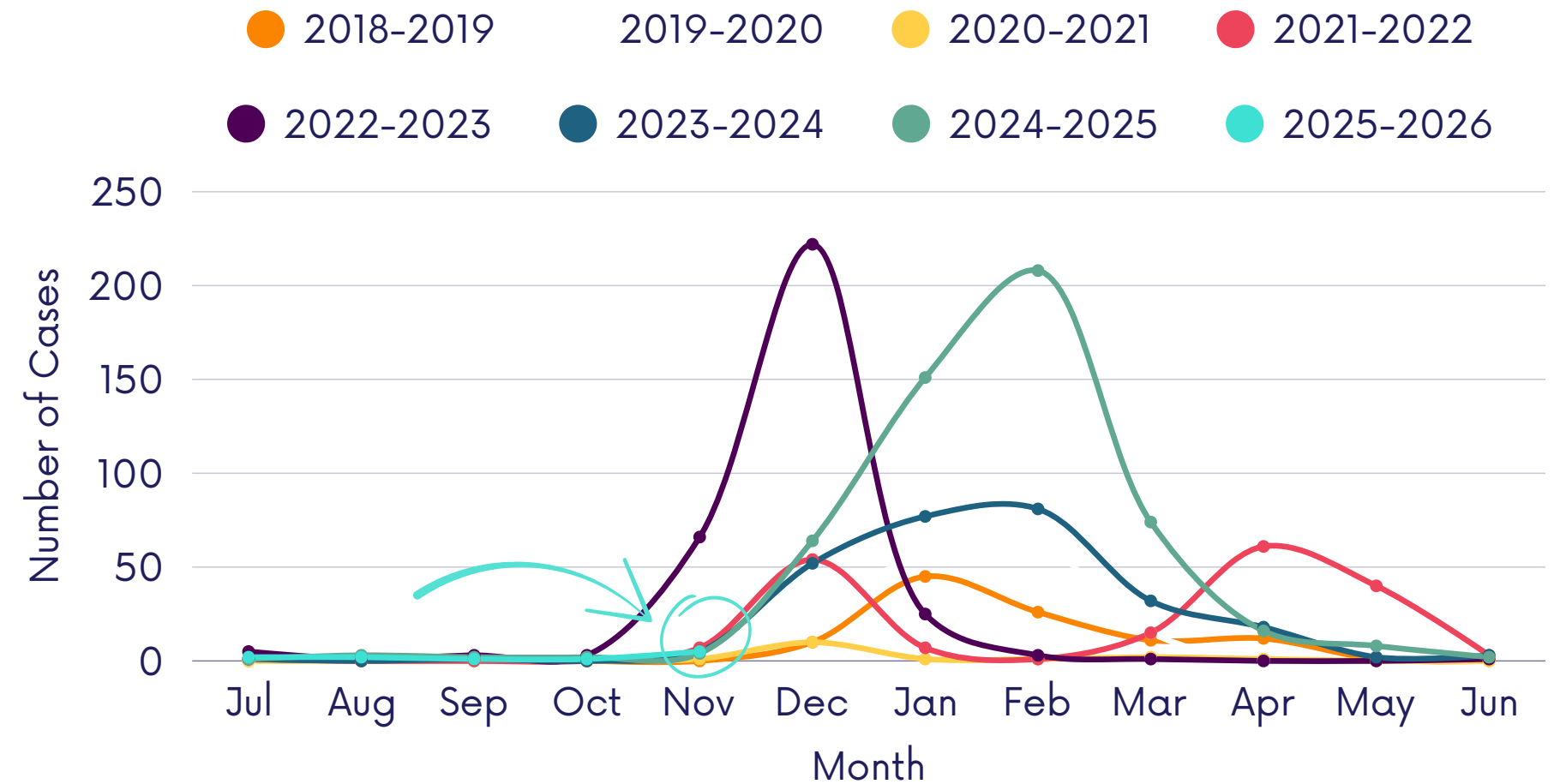
Types of Establishments



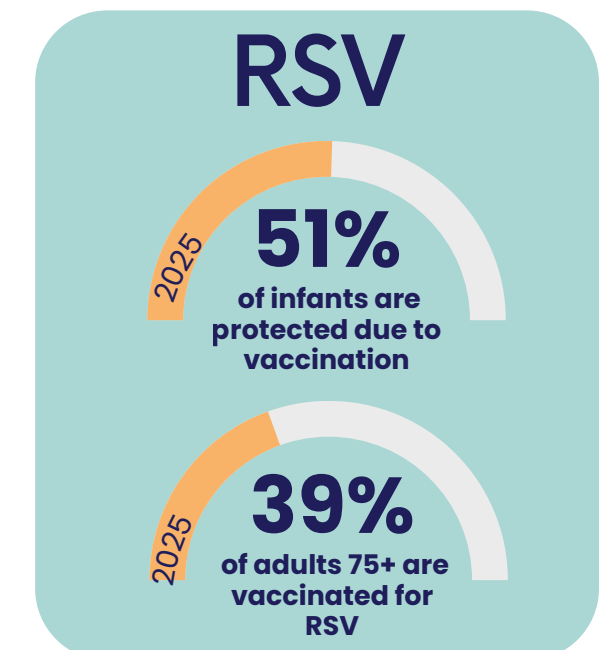
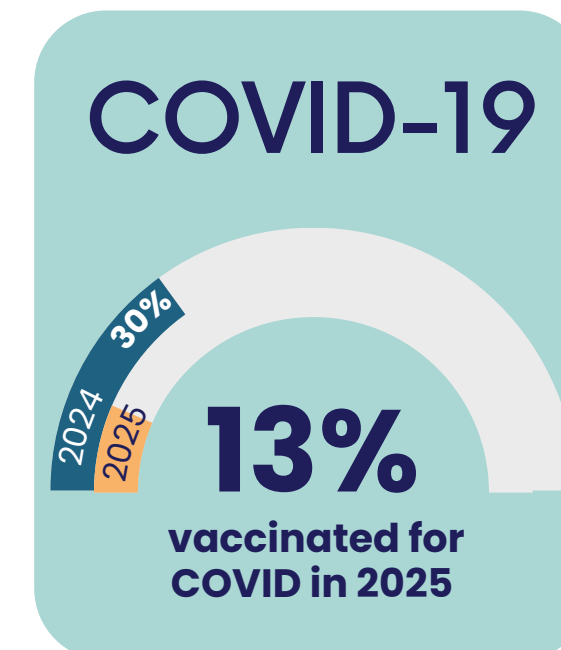
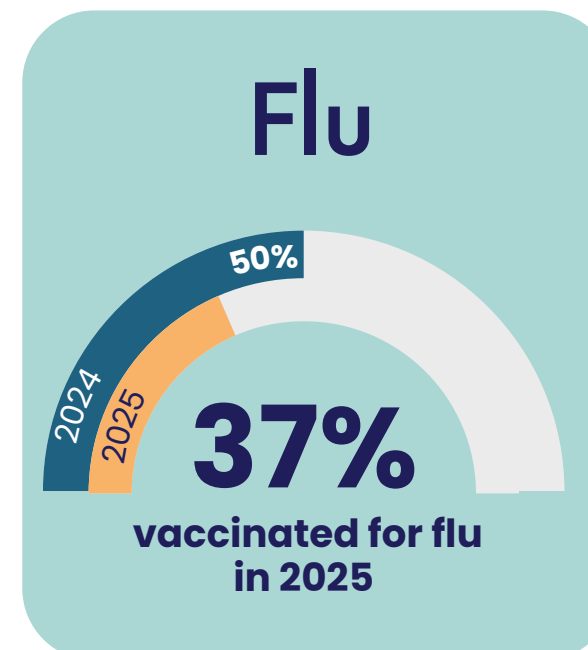
Infectious Disease Tracking



Number of Influenza Cases in GBPH region



Vaccination Rates



Thank you!

MAKAYLA PETTY, MPH



**Greater Boroughs
Partnership for Health**

Shared Service Coordinator/Regional Epidemiologist
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