

Using Local Data to Improve Health and Advance Health Equity

CHOICES Community of Practice
Coffee Chat



October 24, 2023

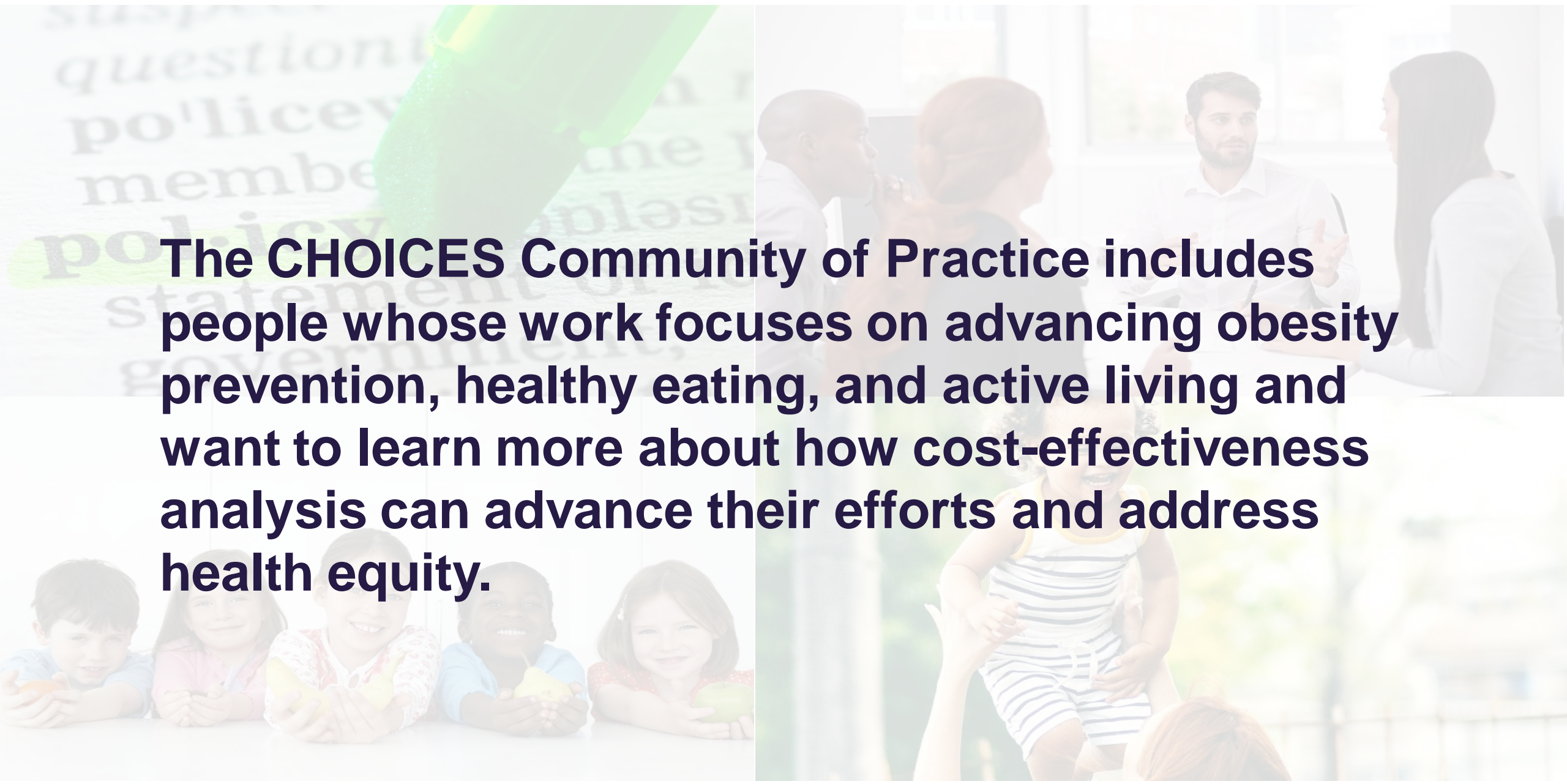
Welcome!

Please share your name, title, & organization in the chat.

Disclaimer & Funding

- The CHOICES Project engages in research and education. The information presented in this discussion today is for educational purposes only and does not necessarily represent the position of any CHOICES Project funders.
- This event is intended to provide information, tools, and resources to inform and educate the audience, and is not an attempt to influence any specific legislation.

This work is supported by The JPB Foundation and the Centers for Disease Control and Prevention (U48DP006376). The findings and conclusions are those of the author(s) and do not necessarily represent the official position of the Centers for Disease Control and Prevention or other funders.



The CHOICES Community of Practice includes people whose work focuses on advancing obesity prevention, healthy eating, and active living and want to learn more about how cost-effectiveness analysis can advance their efforts and address health equity.

Using Local Data to Improve Child Health and Advance Health Equity



Susan Carlson, PhD

Epidemiologist, Centers for Disease Control and Prevention



Magdalena Pankowska, MPH

ORISE Spatial Epidemiologist Fellow, Centers for Disease Control and Prevention



Population Level Analysis and Community Estimates

In Partnership with Robert Wood Johnson Foundation and CDC Foundation

PLACES: Local data for better health

Susan Carlson, PhD
Magdalena Pankowska, MPH

CHOICES Community of Practice Coffee Chat
October 24, 2023

Centers for Disease Control and Prevention
National Center for Chronic Disease Prevention and Health Promotion
Division of Population Health, Epidemiology and Surveillance Branch



PUBLIC HEALTH APPLICATION



Inform the development and implementation of effective and targeted prevention activities, programs, and policies.



Identify health problems and priority health risk behaviors for action.



Understand the status and geographic distribution of health-related issues and prioritize investment to areas with the biggest gaps or inequities.



Inform the development of health objectives to improve health within communities

3,143 Counties (including DC)

28,484 Places (incorporated and census-designated)

72,337 Census Tracts

32,409 ZIP Code Tabulation Areas (ZCTAs)

PLACES: NUMBER OF US POPULATED AREAS INCLUDED

INCLUDES ALL AREAS AS DEFINED BY THE US CENSUS AND WITH A POPULATION \geq 50.

2023:

36 HEALTH MEASURES

-
- Selected based on public health priorities and impact.
 - Risk behaviors that cause much of the illness, suffering, and early death related to chronic diseases and conditions
 - Conditions and diseases most common, costly, and preventable
 - Assessed in the Behavioral Risk Factor Surveillance System
 - Definitions are standardized and align with the work of the Chronic Disease Indicators project

HEALTH OUTCOME MEASURES

-
- Arthritis
 - Obesity
 - Depression
 - Current asthma
 - High blood pressure
 - Cancer (excluding skin cancer)
 - High cholesterol (among those screened in the past 5 years)
 - Chronic kidney disease
 - Chronic obstructive pulmonary disease
 - Coronary heart disease
 - Diabetes
 - All teeth lost among adults aged ≥ 65 years
 - Stroke

PREVENTION MEASURES

-
- Current lack of health insurance (aged 18–64 years)
 - Visits to doctor for routine checkup within the past year
 - Visits to dentist or dental clinic
 - Taking medicine for high blood pressure control (among adults with high blood pressure)
 - Cholesterol screening
 - Mammography use (women aged 50–74 years)
 - Cervical cancer screening (women aged 21–65 years)
 - Colorectal cancer screening (aged 50–75 years)
 - Older adults aged ≥ 65 years who are up to date on a core set of clinical preventive services (separate measures for women and men)

HEALTH RISK BEHAVIOR MEASURES

-
- Binge drinking
 - Current smoking
 - No leisure-time physical activity
 - Sleeping less than 7 hours

HEALTH STATUS MEASURES

-
- General health status
 - Mental health not good for ≥ 14 days
 - Physical health not good for ≥ 14 days

DISABILITY STATUS MEASURES

NEW

-
- Hearing
 - Vision
 - Cognition
 - Mobility
 - Self-care
 - Independent living
 - Any disability

ESTIMATION METHOD: MULTILEVEL REGRESSION AND POST-STRATIFICATION

1. Constructs a multilevel model for each measure using individual-level Behavioral Risk Factor Surveillance System data, American Community Survey county-level poverty data, and random state and county effects.
2. Applies the parameters of the model to:
 - Census county-level population estimates
 - 2010 Decennial Census population counts for place-, Census tract-, and ZCTA-level estimation



WHAT IS
AVAILABLE
ON THE
PLACES
WEBPAGE?

PLACES: Local Data for Better Health

[Print](#)



PLACES is a collaboration between CDC, the Robert Wood Johnson Foundation, and the CDC Foundation. PLACES provides health data for small areas across the country. This allows local health departments and jurisdictions, regardless of population size and rurality, to better understand the burden and geographic distribution of health measures in their areas and assist them in planning public health interventions.

PLACES provides model-based, population-level analysis and community estimates of health measures to all counties, places (incorporated and census designated places), census tracts, and ZIP Code Tabulation Areas (ZCTAs) across the United States. [Learn more about PLACES.](#)



New Release as of July 2023

Estimates based on Behavioral Risk Factor Surveillance System data from 2021 (29 measures) or 2020 (7 measures).

Help is Available!

New how-to videos for some of the most frequently ask questions.

Data for Current Release



Get county, place, Census tract, and ZCTA data in two formats: 1 measure per row (opendata) or all measures per row (GIS-friendly).

Comparison Report



Compare up to 3 counties or places for all measures.

Data Portal



Search, view, and download data for all PLACES and 500 Cities releases.

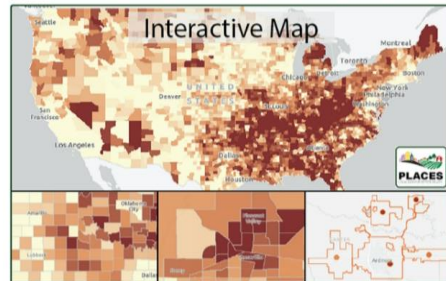
Access the PLACES Interactive Map

Across the United States, from small towns to big cities, explore model-based estimates at all of these levels:

- County
- Place
- Census Tract
- ZIP Code Tabulation Area (ZCTA)

*The map application is not accessible for all users and will not display in Internet Explorer. Please visit the [PLACES Data Portal](#) to view, search, filter, and download data.

[Open PLACES interactive map in new window](#)



About PLACES	Measure Definitions	Methodology
Current Release Notes	Social Determinants of Health and PLACES Data	Graphics Buttons Badges
Publications, Journal Articles, and Resources	Programs and Interventions	500 Cities Data (2016-2019)
Help		

- **Information**
 - Measure definitions
 - Methodology
 - Publication lists
 - FAQs
 - How-to videos
- **Applications**
 - Interactive map
 - Comparison Reports
- **Data**
 - Socrata (Open Data Portal)
 - Options to Customize Maps and Applications (ArcGIS Online Service)



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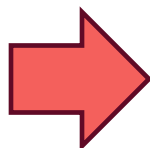
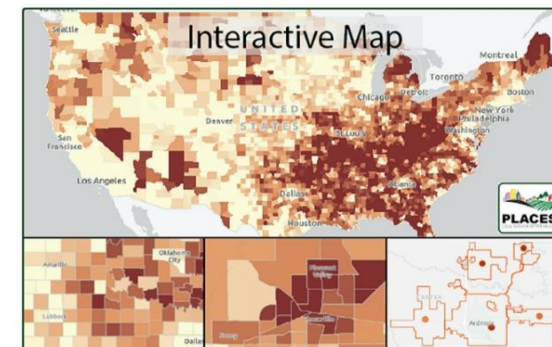
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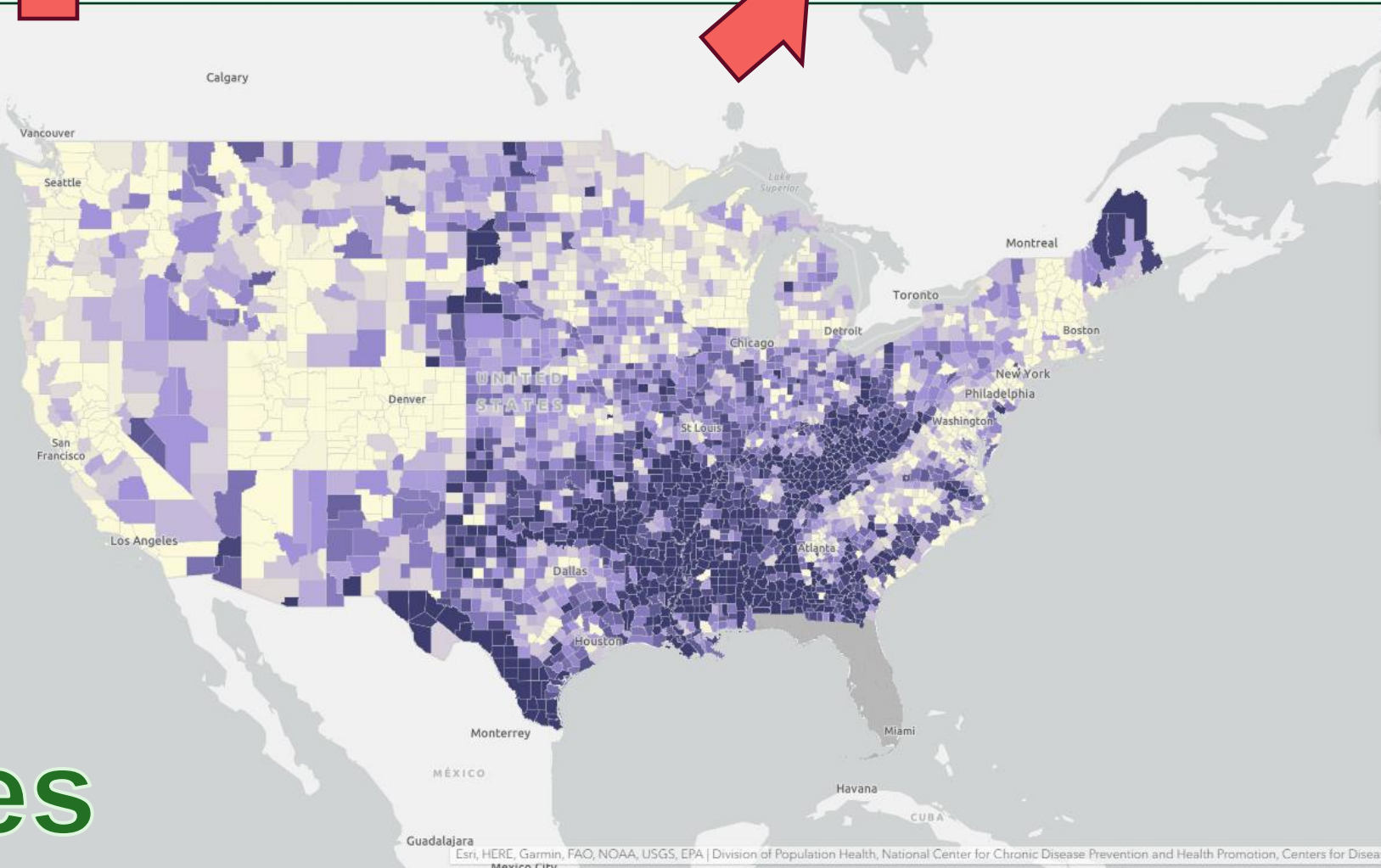
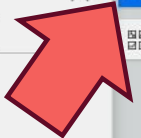


Binge Drinking

Current Smoking

Physical Inactivity

Sleep <7 hours



Layers

Layer Legend

Counties

Physical inactivity crude prevalence (%)

- ≥ 33.4
- 28.0 - national average
- < 22.6
- Other

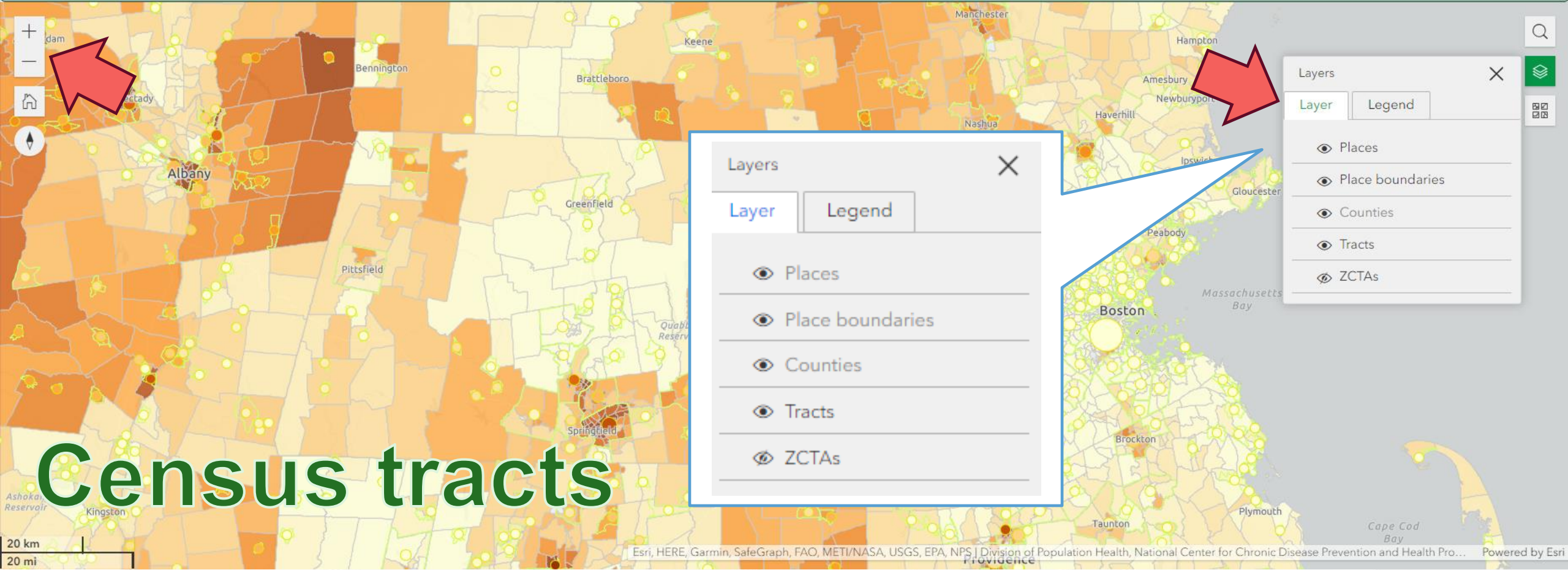
Counties

500 km
500 mi





- Arthritis
- Asthma
- High Blood Pressure
- Cancer
- High Cholesterol
- Kidney Disease
- COPD
- Heart Disease
- Diabetes
- Depression
- Obesity**
- Stroke
- All Teeth Lost



Layers

Layer Legend

- Places
- Place boundaries
- Counties
- Tracts
- ZCTAs

Layers

Layer Legend

- Places
- Place boundaries
- Counties
- Tracts
- ZCTAs

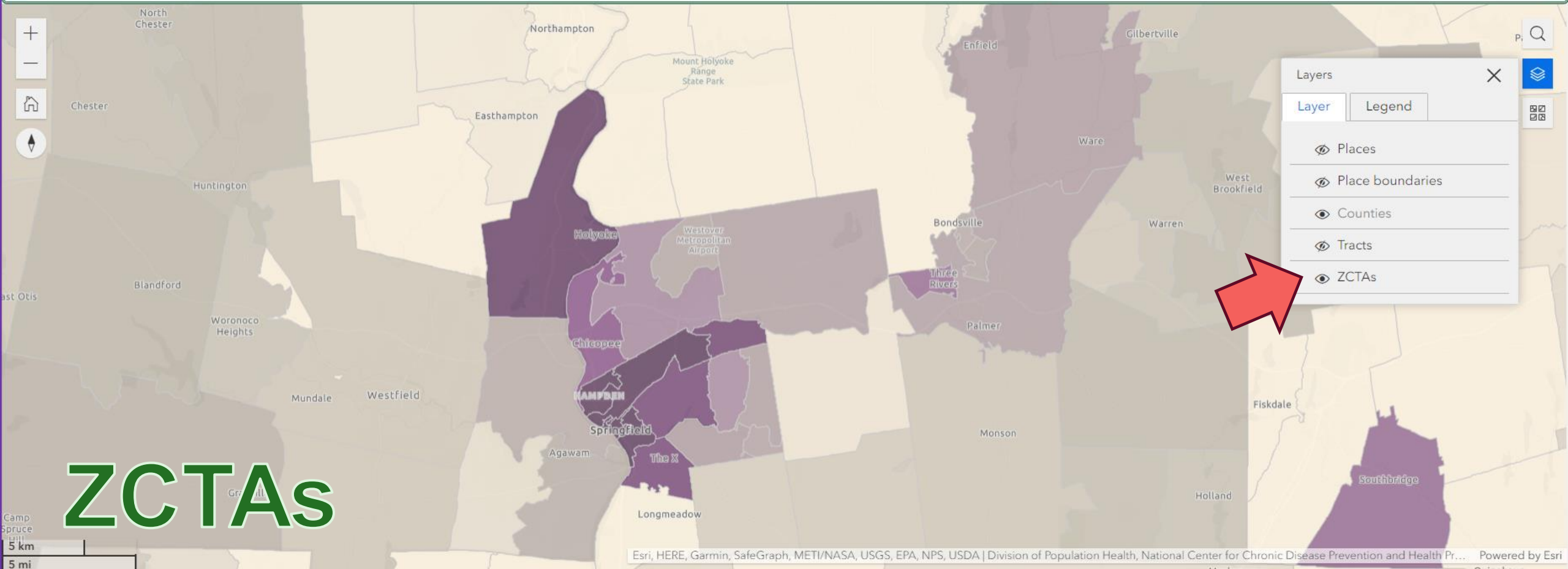
Census tracts



General Health

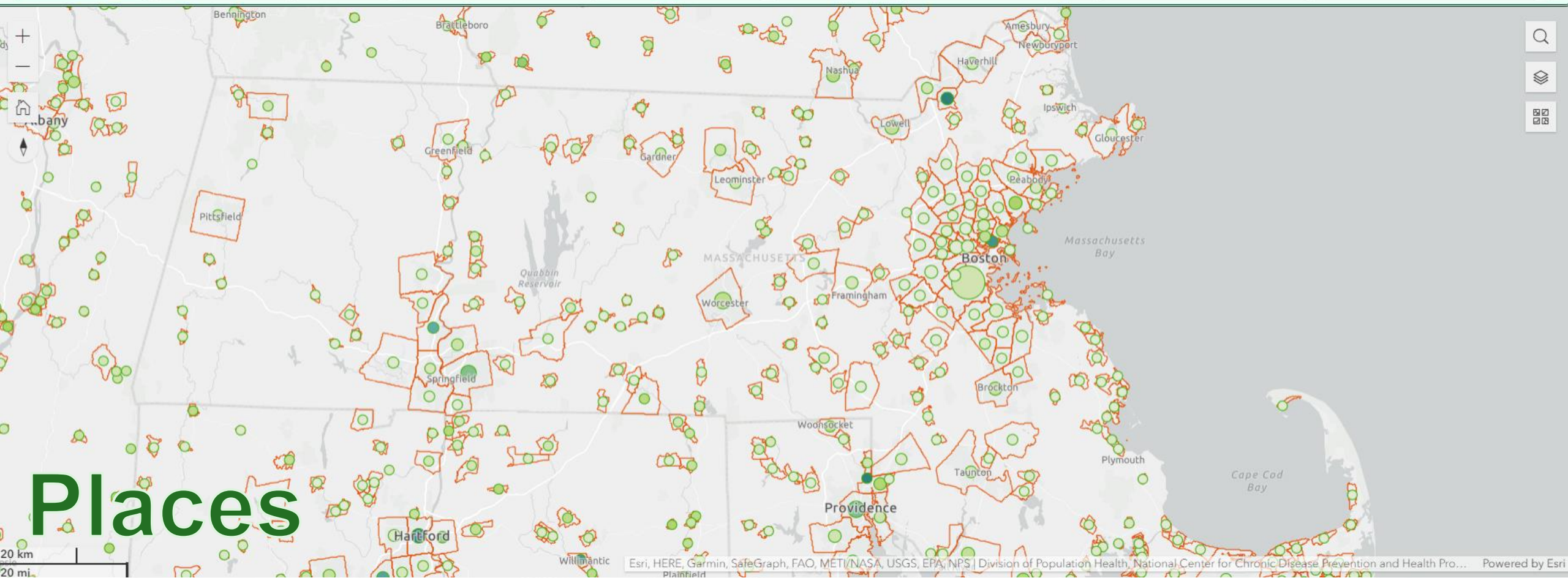
Mental Health

Physical Health





- Health Insurance
- Annual Checkup
- Dental Visit
- Blood Pressure Medication
- Cholesterol Screening
- Mammography
- Cervical Cancer Screening
- Colorectal Cancer Screening
- Preventive Services (Older Men)

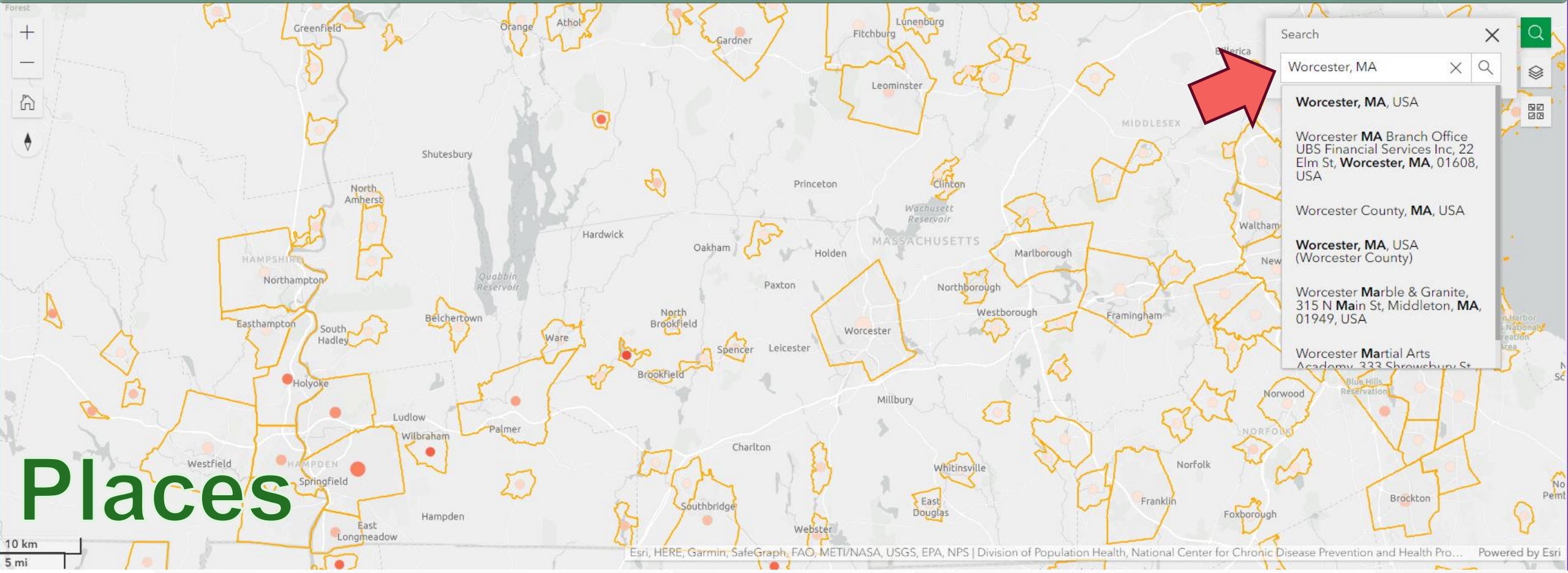


Places

20 km
20 mi



- Arthritis
- Asthma
- High Blood Pressure
- Cancer
- High Cholesterol
- Kidney Disease
- COPD
- Heart Disease
- Diabetes
- Depression
- Obesity
- Stroke
- All Teeth Lost



Places

10 km
5 mi



Arthritis

Asthma

High Blood Pressure

Cancer

High Cholesterol

Kidney Disease

COPD

Heart Disease

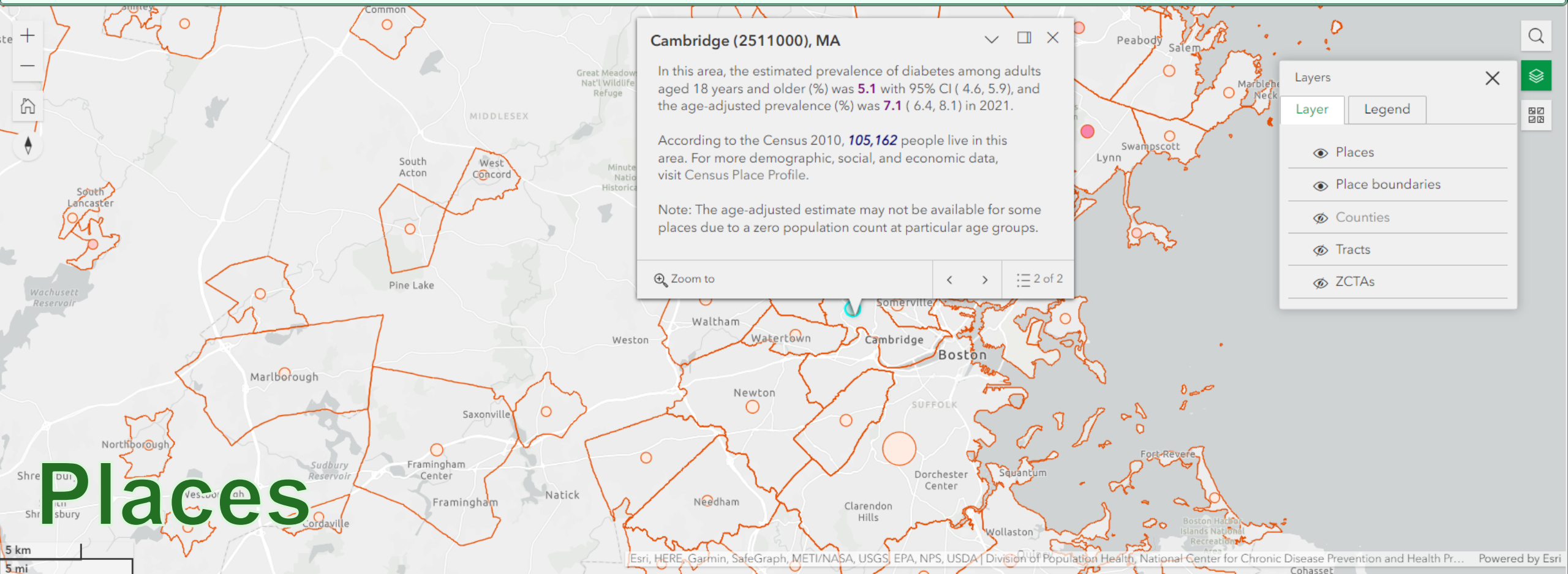
Diabetes

Depression

Obesity

Stroke

All Teeth Lost



Cambridge (2511000), MA

In this area, the estimated prevalence of diabetes among adults aged 18 years and older (%) was **5.1** with 95% CI (4.6, 5.9), and the age-adjusted prevalence (%) was **7.1** (6.4, 8.1) in 2021.

According to the Census 2010, **105,162** people live in this area. For more demographic, social, and economic data, visit [Census Place Profile](#).

Note: The age-adjusted estimate may not be available for some places due to a zero population count at particular age groups.

Zoom to

Layers

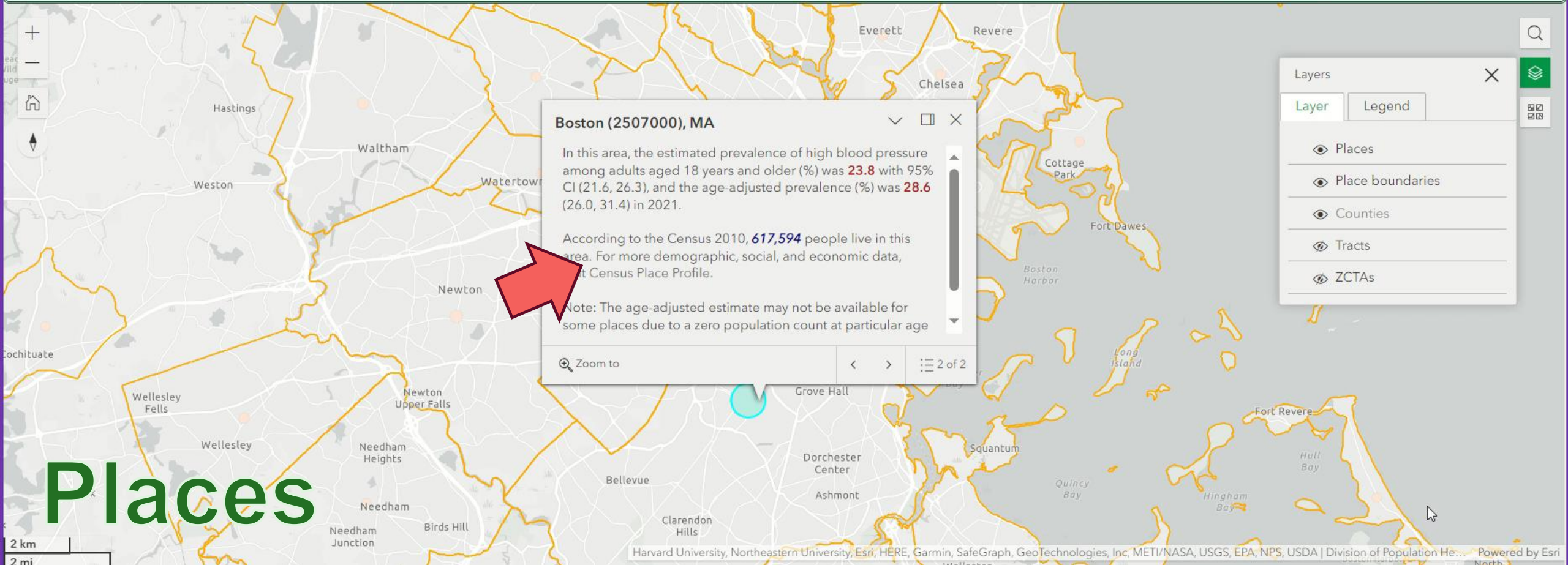
Layer Legend

- Places
- Place boundaries
- Counties
- Tracts
- ZCTAs

Places



- Arthritis
- Asthma
- High Blood Pressure
- Cancer
- High Cholesterol
- Kidney Disease
- COPD
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- Stroke
- All Teeth Lost



Places



Income and Poverty

Median Household Income

\$86,331

S1901 | 2022 American Community Survey 1-Year Estimates



Housing

Total Housing Units

301,702

H1 | 2020 Decennial Census



Race and Ethnicity

Hispanic or Latino (of any race)

126,113

P9 | 2020 Decennial Census



Education

Bachelor's Degree or Higher

54.2%

S1501 | 2022 American Community Survey 1-Year Estimates



Health

Without Health Care Coverage

2.6%

S2701 | 2022 American Community Survey 1-Year Estimates



Populations and People

Total Population

675,647

P1 | 2020 Decennial Census



Employment

Employment Rate

66.7%

DP03 | 2022 American Community Survey 1-Year Estimates



Families and Living Arrangements

Total Households

284,061

DP02 | 2022 American Community Survey 1-Year Estimates

LINKS TO CENSUS PROFILE DATA

BOSTON, MA

PLACES: Local Data for Better Health

[Print](#)



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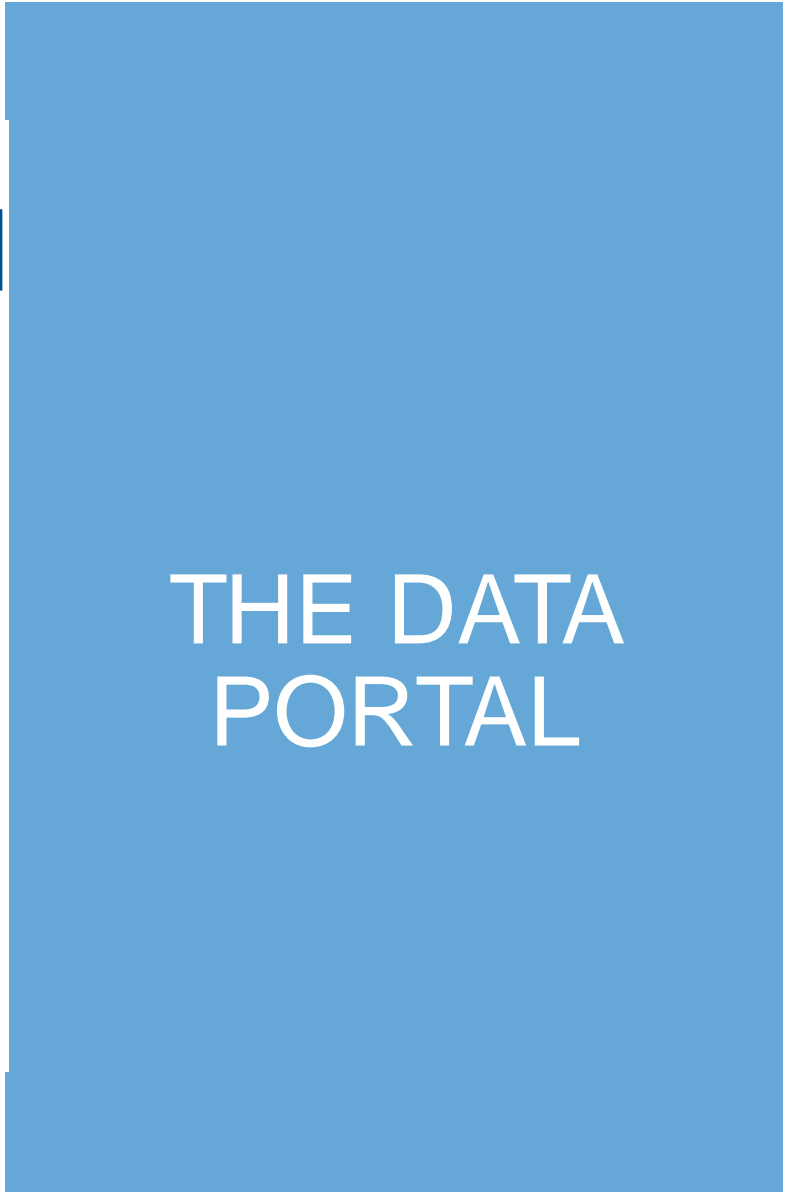


- Categories
- Administrative
- Biomonitoring
- Chronic Diseases
- Disability & Health
- Environmental Health & Toxicology
- Foodborne, Waterborne, and Related Diseases
- Global Health
- Health Statistics

9 Results

Sort by Most Relevant

PLACES and 500 Cities: Data Dictionary 500 Cities & Places	 Dataset
This dataset provides a data dictionary for PLACES and 500 Cities releases. For each measure, the data dictionary provides the measure ID, measure full and short name, measure category ID and name, year of More	Updated July 27, 2023 Views 4,419
Tags 500 cities, places	API Docs
PLACES: Local Data for Better Health, County Data 2023 release 500 Cities & Places	 Dataset
This dataset contains model-based county estimates. PLACES covers the entire United States—50 states and the District of Columbia—at county, place, census tract, and ZIP Code Tabulation Area levels. It provides More	Updated July 27, 2023 Views 100,369
Tags behaviors, brfss, county, disability, health, and 6 more	API Docs



PLACES: Local Data for Better Health, County Data

2023 release

500 Cities & Places

View Data

Visualize

Export

API

...

This dataset contains model-based county estimates. PLACES covers the entire United States—50 states and the District of Columbia—at county, place, census tract, and ZIP Code Tabulation Area levels. It provides information uniformly on this large scale for local areas at four geographic levels. Estimates were provided by the Centers for Disease Control and Prevention

[More](#)

Updated

July 27, 2023

Data Provided by

Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health

About this Dataset

Mute Dataset

Updated

July 27, 2023

Data Last Updated Metadata Last Updated

July 18, 2023

July 27, 2023

Date Created

September 25, 2020

Views

1,451

Downloads

404

Common Core

Contact Name	PLACES Public Inquiries
Contact Email	places@cdc.gov
Publisher	Centers for Disease Control and Prevention
Public Access Level	Data asset is publicly available to all without restrictions (public)
References	https://www.cdc.gov/places/measure-definitions/index.html
Bureau Code	Centers for Disease Control and Prevention (009:20)
Program Code	HHS:Program Management (009:020)
Data Dictionary	https://chronicdata.cdc.gov/dataset/PLACES-Local-Data-for-Better-Health-County-Data-20/swc5-untb

THE DATA
PORTAL



PLACES: Local Data for Better Health

[Print](#)



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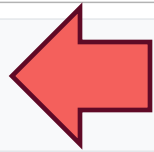
Search, view, and download data for all PLACES and 500 Cities releases.



County Place

Search Report: Search Clear

Add Place



Save As PDF
Save As CSV

Measure	Data Type	United States Census 2021 Population Estimate: 331,893,745	Cambridge, MA Census 2010 Population: 105,162 Edit Remove	Worcester, MA Census 2010 Population: 181,045 Edit Remove	Springfield, MA Census 2010 Population: 153,060 Edit Remove
	Age-adjusted prevalence % (95% CI)	9.9 (9.7 - 10.1)	7.1 (6.4 - 8.1)	10.6 (9.3 - 12.0)	14.4 (12.6 - 16.2)
Obesity among adults aged >=18 years - 2021 view definition	Crude prevalence % (95% CI)	33.0 (32.6 - 33.3)	21.6 (18.9 - 25.0)	33.5 (29.3 - 37.9)	39.9 (34.7 - 45.1)

COMPARISON REPORT

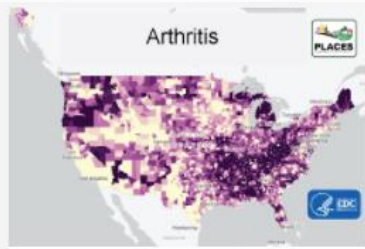
Comparison Report



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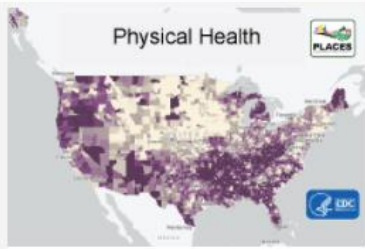
PLACES: Local Data for Better Health
 This service provides Centers for Disease Control and Prevention (CDC) model-based estimates for...



PLACES: Arthritis
 This map provides model-based estimates of arthritis prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: Stroke
 This map provides model-based estimates of stroke prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: Physical health
 This map provides model-based estimates of frequent physical distress prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: Physical inactivity
 This map provides model-based estimates of physical inactivity prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: Local Data for Better Health
 This is the main application for CDC PLACES. PLACES provides model-based estimates at county, place, census tract, and ZCTA levels for...



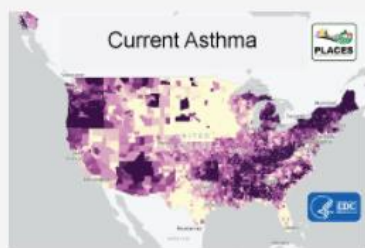
PLACES: Annual checkup
 This map provides model-based estimates of annual checkup prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: Health Outcomes
 This application is part of CDC PLACES interactive maps for health outcomes.



PLACES: Diabetes
 This map provides model-based estimates of diagnosed diabetes prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: Current asthma
 This map provides model-based estimates of current asthma prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: High blood pressure
 This map provides model-based estimates of high blood pressure prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...



PLACES: Mental health
 This map provides model-based estimates of frequent mental distress prevalence among adults aged 18 years and older at county, place, census tract and ZCTA...

**4 SERVICES,
6 APPS &
37 INDIVIDUAL
MAPS*
AVAILABLE AT
ARCGIS ONLINE**

**Separate maps for women and men ≥65 years for core preventive services.*

Legend

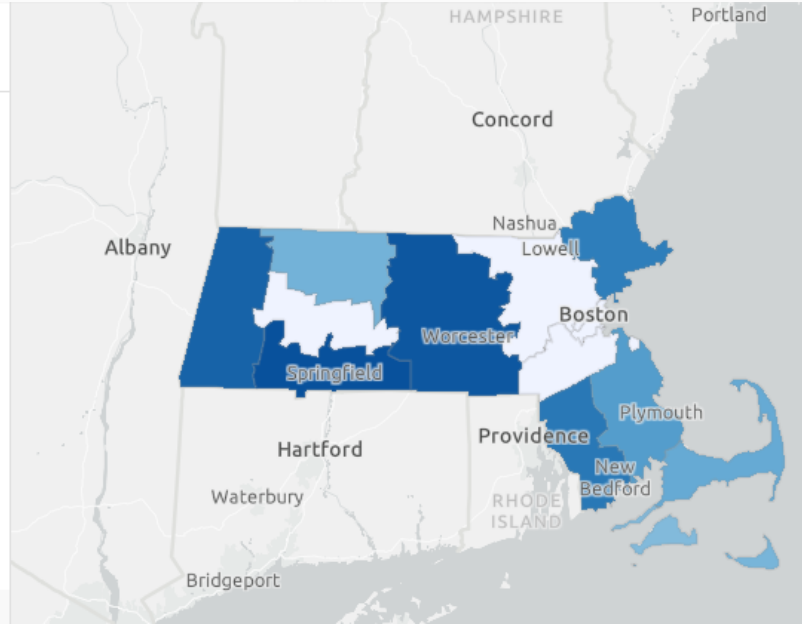
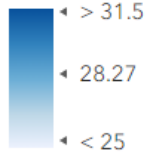


PLACES: Local Data for Better Health

Counties



Obesity crude prevalence (%)



Legend

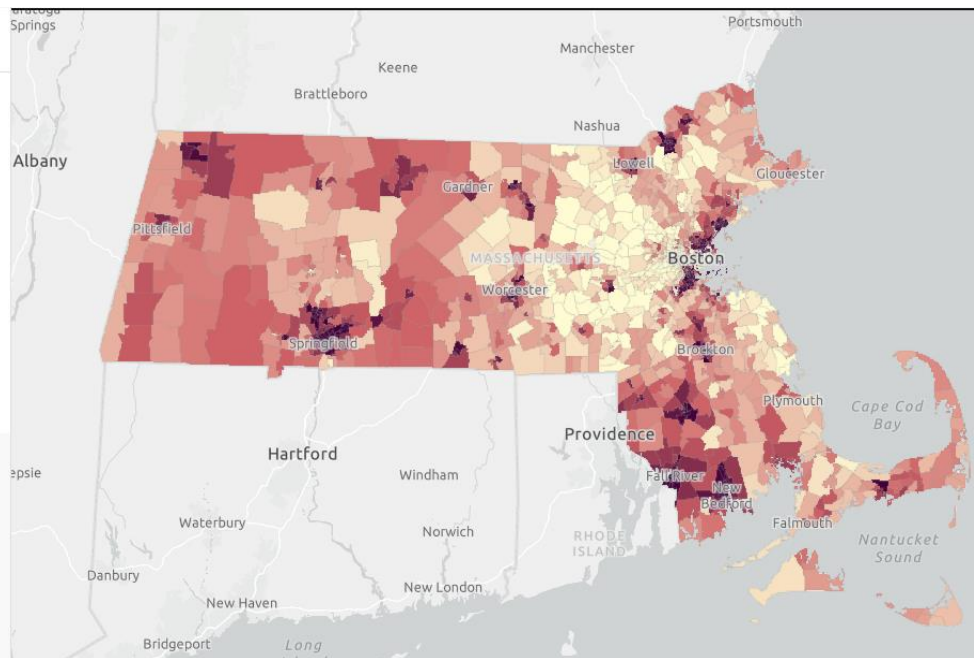
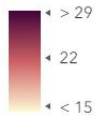


PLACES: Local Data for Better Health

Tracts



Physical inactivity crude prevalence (%)

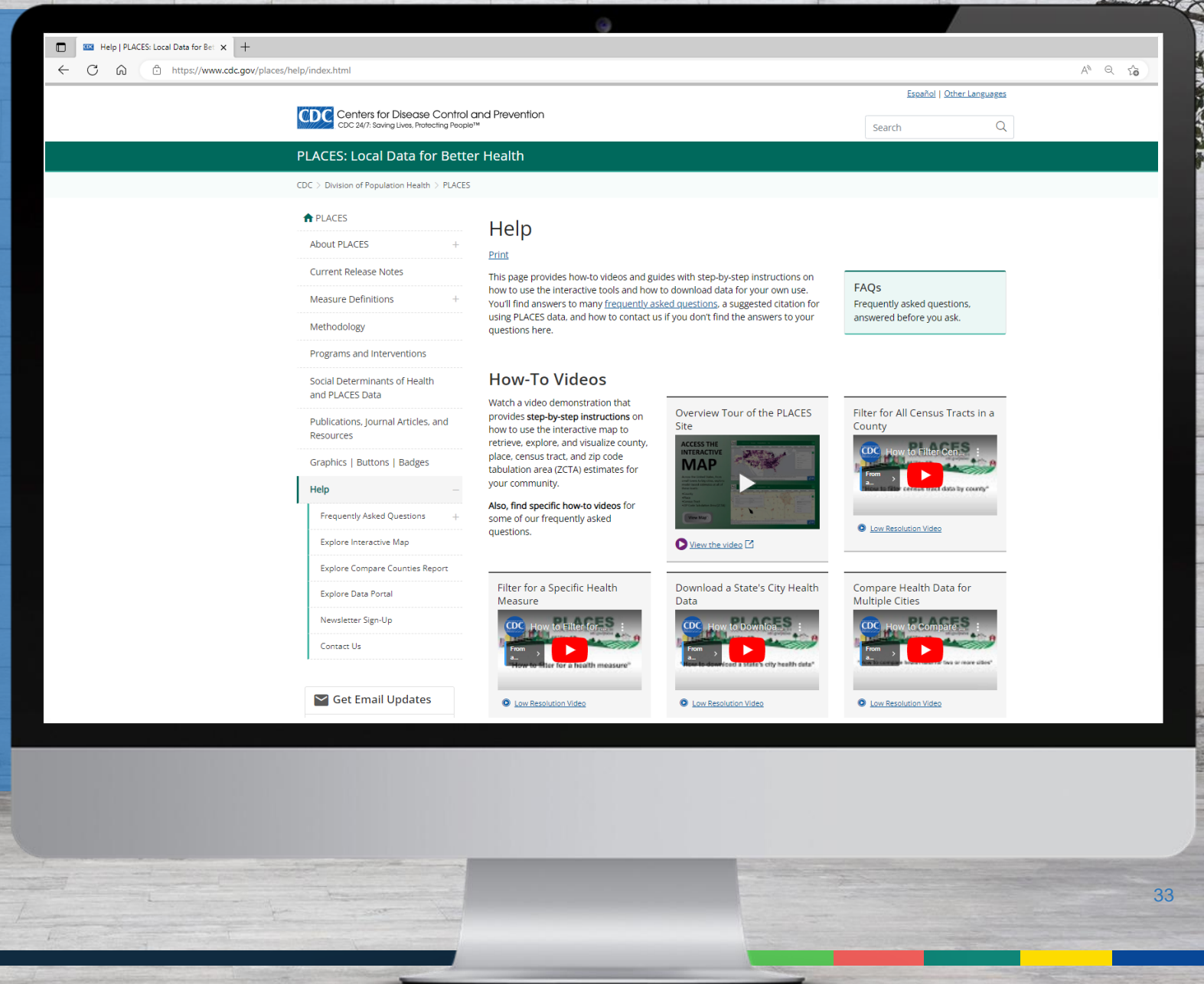


EXAMPLES

Help

E-mail:

PLACES@cdc.gov





PLACES USE CASES

USE CASE

County Health Rankings & Roadmaps

County Health Rankings & Roadmaps brings together PLACES data with other data sources and includes actions communities can take to promote health.

Steps to Move Your Community Forward

The steps below provide a path to help your community move with data to action. In each you will find key activities and suggested tools to guide your progress. Keep in mind: action isn't always linear. Revisit these steps to find the right resources when you need them.



<https://www.countyhealthrankings.org/>

USE CASE



Source for Hawai'i state and county-level information on health and quality of life, data reporting tools, promising practices, and local resources.

PLACES is a key source of county, place, tract, and ZCTA-level estimates.

<https://www.hawaiihealthmatters.org>

USE CASE

High Obesity Program 2023

CDC's [Division of Nutrition, Physical Activity, and Obesity](#) used PLACES obesity estimates to determine eligibility for the [High Obesity Program 2023](#).

This program funds land grant universities to work with community extension services to increase access to healthier foods and safe and accessible places for physical activity in counties that have more than 40% of adults with obesity.



USE CASE

Data Chats



Neighborhood leaders in Milwaukee organized “data chats” with residents using 500 Cities/PLACES and other data to explore COVID-19 risk factors

USE CASE

Informing Urban Planning Efforts

The Brooklyn Borough Presidents Office, Regional Planning Association, and the New York Academy of Medicine used 500 Cities-PLACES data to inform an urban planning effort and public health plan to improve health and achieve health equity across Brooklyn.

“We used 500 Cities-PLACES and other data to call for more affordable housing and other policies to advance health equity. The fact that 500 Cities-PLACES is put together in such a way that it’s easy to visualize – that’s really the key.”

– Dr. Kumbie Madondo, Ph.D., Director, Center for Community Partnerships & Policy Solutions, New York Academy of Medicine



PLACES Newsletter Sign-Up



October 20, 2022

PLACES provides model-based, population-level analysis and community estimates of health measures to all counties, places, census tracts, and ZIP Code Tabulation Areas across the United States. [Learn more about PLACES.](#)

New Resources Added: How-to Videos

How-To Videos

Watch a video demonstration that provides **step-by-step instructions** on how to use the interactive map to retrieve, explore, and visualize county, place, census tract, and zip code tabulation area (ZCTA) estimates for your community.

Also, find specific how-to videos for some of our frequently asked questions.

Overview Tour of the PLACES Site



[View the video](#)

Filter for All Census Tracts in a County



[Low Resolution Video](#)

Filter for a Specific Health Measure



[Low Resolution Video](#)

Download a State's City Health Data



[Low Resolution Video](#)

Compare Health Data for Multiple Cities



[Low Resolution Video](#)

The [PLACES Help web page](#) now includes how-to videos and guides with step-by-step instructions on how to use interactive tools and download data for your own use.

[Click here to view the updated PLACES Help page!](#)



August 1, 2023

NEW PLACES Data Now Live!

[Click Here to View the New PLACES Data!](#)

The Centers for Disease Control and Prevention's Division of Population Health in the National Center for Chronic Disease Prevention and Health Promotion is excited to announce the newest release of PLACES (available at www.cdc.gov/places). This release includes estimates for 36 chronic disease related measures across four geographic levels: US counties, incorporated and census-designated places, census tracts, and ZIP Code Tabulation Areas.

Enhancements for the 2021 PLACES release include:

- Added 7 new disability measures: 6 disability types (hearing, vision, cognition, mobility, self-care, and independent living) and any disability.
- Updated the approach for generating 95% confidence intervals (CIs). As a result, the estimated CIs are more conservative and may be wider than in previous releases.

PLACES Newsletter Sign-Up

PLACES Newsletter Sign-Up

[Print](#)

The PLACES newsletter is sent out periodically, when new data are available, new features have been added, when updates have been made, or if there is another announcement.

How Do I Sign Up?

1. Enter your email address in the "PLACES Newsletter Sign Up" box.
2. Click "Submit."
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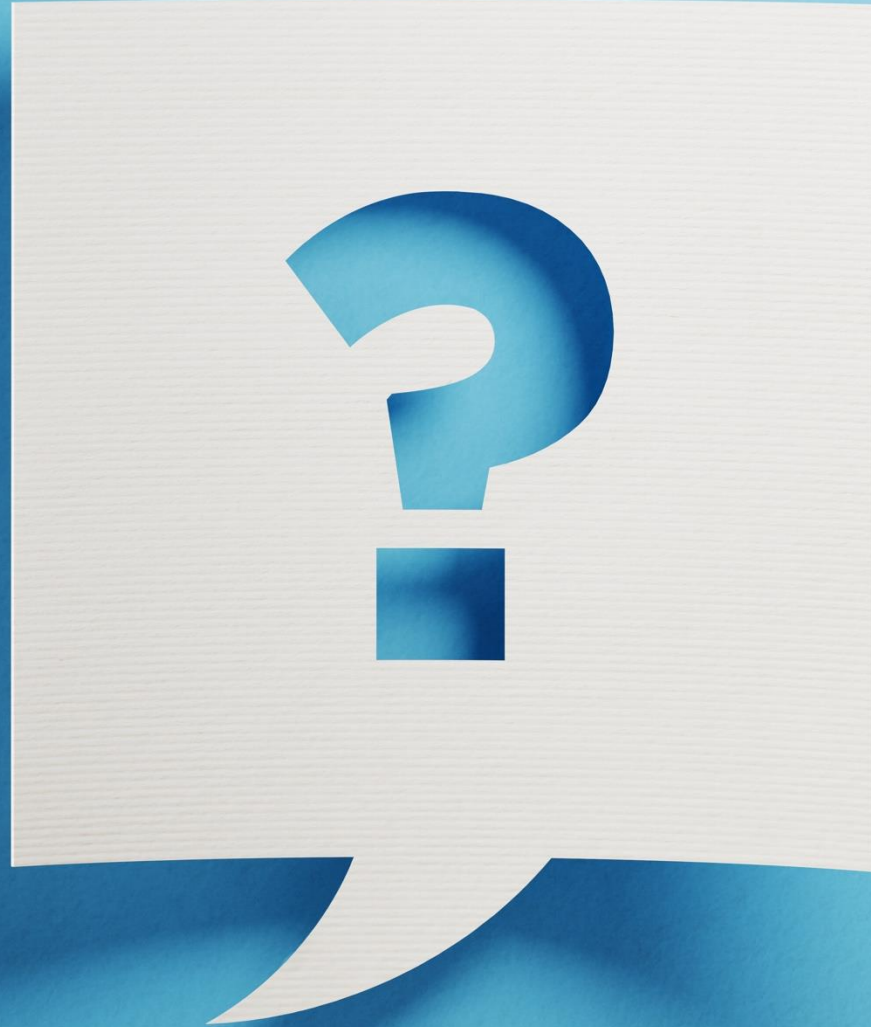
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The findings and conclusions of this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

Thank You and Questions?



THANK

YOU

Join our next coffee chat on
Thursday, November 16th at 1:00pm ET



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