

### 2022 Community Health Needs Assessment





Community Research Consulting LLC



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### Overview of the 2022 CHNA

Since 2011, the hospital members of the Hospital Association of Rhode Island (HARI) have collaborated every three years on a statewide community health needs assessment (CHNA). The goal of this collaboration is to identify common and unique challenges across Rhode Island to inform community health initiatives and ultimately advance health equity for all residents.

The CHNA findings continue to guide healthcare services and health improvement efforts, as well as serve as a community resource for grant making, advocacy, and to support the many programs provided by health and social service partners.

#### **CHNA Leadership**

The 2022 CHNA was convened by HARI and overseen by steering committee of HARI staff and representatives from each of its member hospitals as listed below. These individuals served as liaisons to their organizations and the communities served by their entities.

#### 2022 CHNA Steering Committee Members

Jean Marie Rocha, Hospital Association of Rhode Island, Vice President, Clinical Affairs Carolyn Kyle, Landmark Medical Center, Director of Public Relations, Marketing & Physician Relations Otis Brown, CharterCARE, Vice President, Marketing & External Affairs Lynne Driscoll, South County Health, Assistant Vice President of Community Health Laurel Holmes, Westerly Hospital, Director of Community Partnerships & Population Health Gail Robbins, Care New England, Senior Vice President of Planning & Finance Donna Rubinate, CharterCARE, Chief Operating Officer Holly Walton, Care New England, Senior Planning Analyst

#### **Our Research Partner**

HARI and its member hospitals contracted with Community Research Consulting to conduct the CHNA in collaboration with community partners across the state. CRC is a woman-owned business that

specializes in conducting stakeholder research to illuminate disparities and underlying inequities and transform data into practical and impactful strategies to advance health and social equity. Our interdisciplinary team of researchers and planners have worked with hundreds of health and human service providers and their partners to reimagine policies and achieve measurable impact. Learn more about our work at <u>buildcommunity.com</u>.



#### **Community Engagement**

Community engagement is a key component to assessing and responding to community health needs. CHNA research included participation by representatives from the Rhode Island Department of Health, the Health Equity Zones (HEZ), health and social service providers, advocacy agencies, and other community partners. These individuals provided wide perspectives on health trends, expertise about existing community resources available to meet those needs, and insights into service delivery gaps that contribute to health disparities.



#### **CHNA Methodology**

The 2022 CHNA was conducted from July 2021 to May 2022 and included quantitative and qualitative research methods to determine health trends and disparities within the hospital service areas compared to health indicators across Rhode Island and the nation. Input was collected from community stakeholders, which was compared to analyses of statistical demographic and health trends. Specific CHNA study methods included:

- An analysis of existing secondary data sources, including public health statistics, demographic and social measures, and health care utilization
- Key Informant Surveys and Interviews
- Community conversations with stakeholders

#### **Community Health Priorities**

It is imperative to prioritize resources and activities toward the most pressing and cross-cutting health needs within our community. In determining the issues on which to focus efforts over the next threeyear cycle, Landmark Medical Center (Landmark) collected feedback from community partners and sought to align with internal population health management strategies. Landmark will focus efforts on the following community health priorities over the next three-year cycle:

- Behavioral Health
- Chronic Disease
- Maternal and Child Health

#### **CHNA Approval**

The CHNA was conducted in a timeline to comply with IRS Tax Code 501(r) requirements to conduct a CHNA every three years as set forth by the Affordable Care Act (ACA).

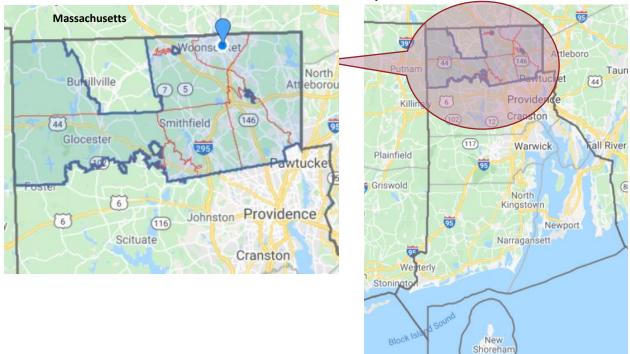
The CHNA Final Report and corresponding Community Health Improvement Plan (CHIP) were reviewed and approved by an authorized body of Landmark in September 2022. The report and plan are available for review and comment at <u>landmarkmedical.org</u>. The findings will be used to guide the hospital's community benefit initiatives and engage local partners to collectively address identified health needs.



### Service Area Description

For purposes of the CHNA, the Hospital Association of Rhode Island (HARI) and its member hospitals analyzed health and social trends for all of Rhode Island. Quantitative and qualitative data indicators for each of the state's five counties are included throughout the report. The member hospitals further defined their primary service area based on the zip codes of residence for the majority of patients seen at their facilities.

Landmark is located in Woonsocket in Providence County, along the border of Rhode Island and Massachusetts. Landmark identified its primary service area (PSA) as 15 zip codes spanning Providence County and a portion of Massachusetts. For purposes of the CHNA and collaboration with other HARI member hospitals, Landmark focused on its Rhode Island service area zip codes. Throughout the data report, findings for Providence County are highlighted in comparison to other Rhode Island counties and the nation. Findings by zip code and/or municipality for Landmark's PSA are provided as available.



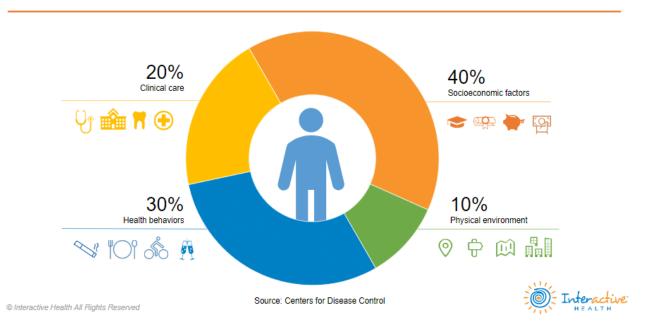
#### Landmark Medical Center Primary Service Area



# Social Determinants of Health: The connection between our communities and our health

Social determinants of health (SDoH) are the conditions in the environments where people are born, live, learn, work, play, worship, and age that affect a wide range of health risks and outcomes. Healthy People 2030, the CDC's national benchmark for health, recognizes SDoH as central to its framework, naming "social and physical environments that promote good health for all" as one of the four overarching goals for the decade. Healthy People 2030 outlines five key areas of SDoH: economic stability, education access and quality, healthcare access and quality, neighborhood and built environment, and social and community context.

The mix of ingredients that influence each person's overall health profile include individual behaviors, clinical care, environmental factors, and social circumstance. While health improvement efforts have historically targeted health behaviors and clinical care, as this graph shows, **50% of every person's health profile is determined by a combination of socioeconomic factors and physical environment.** Therefore, the portions of our communities that have positive socioeconomic factors and a health-promoting physical environment tend to be healthier than those who have negative socioeconomic factors and a poor physical environment. This difference results in disparity.



#### WHAT MAKES US HEALTHY?



#### **Understanding Health Equity**

As a whole, the state of Rhode Island compares favorably to national averages for socioeconomic and health indicators. <u>However, not all people in our community experience these positive health outcomes</u>. A closer look at health and socioeconomic indicators by geography and population illuminates wide disparities among racial and ethnic populations and those with lower incomes. The data illustrate the critical importance of **social determinants of health** as root causes of health disparities.

The impact of SDoH are evident among distinct communities, as shown in the table below. In the Landmark PSA, issues of health and social inequities are most evident in the core city of Woonsocket, zip code 02895. Within Woonsocket, residents experience significant disparate socioeconomic and health outcomes that disproportionately affect people of color.

	Woonsocket				
	02895	County	Rhode Island		
Demographic & Socioeconomic Indicators (20	015-2019)				
Non-White population	26.5%	27.1%	19.5%		
People in poverty	21.8%	15.2%	12.4%		
No high school diploma	18.3%	14.2%	11.2%		
Uninsured	7.2%	5.4%	4.5%		
Housing stock built pre-1980	87.3%	78.5%	73.5%		
Health Indicators					
Adults with recent dental care (2018)	61.2%	67.0%	71.8%		
Adult obesity (2018)	30.8%	29.6%	27.5%		
Youth overweight/obesity* (2019)	41.0%	NA	31.0%		
Adult diabetes (2018)	12.2%	10.7%	9.6%		
Children with lead poisoning (2020)*	4.8%	NA	3.8%		
COVID-19 fully vaccinated* (May 4, 2022)	59.1%	NA	82.4%		
Overdose death rate* (2014-2020)	44.8	NA	NA		

#### Health and Social Inequities in the Landmark PSA

\*Data are reported by city/town and may not align with zip code boundaries.

#### **COVID-19 Demonstrated Inequities**

The COVID-19 pandemic both highlighted and deepened socioeconomic and health inequities. Across Rhode Island, COVID-19 case rates were highest among Black/African American and Latinx residents. The COVID-19 death rate was nearly two times higher for Latinx than Whites, and nearly 50% higher for Black/African Americans. In addition to health impact, economic indicators, including unemployment and food insecurity, skyrocketed as a result of the pandemic. Average unemployment was 9.4% in Rhode Island and 10.2% in Providence County in 2020 compared to a national average of 8.1%. The percentage of food insecure residents statewide increased from 9.5% in 2019 to 13.1% in 2020. While 2021 data indicate Rhode Island communities are recovering economically from the pandemic, the long-term financial and psychological implications for residents should continue to be monitored.



### Priority Health Needs

It is imperative to prioritize resources and activities toward the most pressing and cross-cutting health needs within our community. In determining the issues on which to focus efforts over the next threeyear cycle, Landmark collected feedback from community partners and sought to align with internal population health management strategies. Landmark will focus efforts on the following community health priorities over the next three-year cycle:

- Behavioral Health
- Chronic Disease
- Maternal and Child Health

#### **Behavioral Health**

Rhode Island overall has better access to mental health providers compared to the national average. As of 2020, the rate of mental health providers across the state exceeded the national rate by more than 160 points. Providence County has the highest rate of providers in the state, although low-income residents continue to be underserved.

In 2019, the Rhode Island Executive Office of Health and Human Services conducted a review of the behavioral health system to determine gaps in services and access in the state. The review found that the state has several capacity challenges to address including both gaps in key service lines and a shortage of linguistically and culturally competent providers, that together disproportionately negatively impact communities of color. Service gaps, indicating the service does not exist in the state, include mobile mental health crisis treatment and mobile MAT for adults, and community step down, transition age youth services, and residential treatment for eating disorders for children. Moderate and significant service shortages exist across the care continuum for adults and children.

The growth of existing mental health providers in Rhode Island reflects an increase in demand for services. Consistent with the nation, more than 1 in 10 adults across Rhode Island report frequent mental distress. Providence County reports the second highest proportion of adults with frequent mental distress in the state at 13.9%. Rhode Island youth also have greater demand for mental health services. Statewide, from 2016 to 2020, the number of youth awaiting psychiatric inpatient admission increased from 212 to 795. The number of ED visits and hospitalizations due to suicide attempts also increased. As of 2019, 14.7% of Rhode Island high school students reported an attempted suicide compared to 8.9% nationally.

Rhode Island has a higher prevalence of substance use disorder, including alcohol and opioid use disorder, than the nation. Consistent with the state, approximately 1 in 5 adults in Providence County report heavy or binge drinking. From 2017 to 2019, the accidental drug overdose death rate for Rhode Island was nearly 10 points higher than the national death rate, with the highest reported death rate in Providence County. Since the COVID-19 pandemic, there has been an increase in accidental drug overdose deaths statewide, from 308 in 2019 to 384 in 2020. Woonsocket had the second highest



accidental drug overdose death rate in the state for 2014-2020, and the city saw an increase in deaths from 10 in 2019 to 31 in 2020.

Among youth, the use of e-cigarettes also continues to be of concern. In 2019, 30% of Rhode Island high school students reported currently using e-cigarettes, a 10-point increase from 2017, and a similar proportion as the nation overall (32.7%).

#### **Chronic Disease**

All Rhode Island counties meet the HP2030 goal of 92.1% for insured residents, and adults are generally more likely to access preventative care services than the national average. These findings contribute to fewer health risk factors and better health status overall among Rhode Island residents, although health outcomes vary widely across the five counties and correlate with existing differences in socioeconomic factors.

Residents of Providence County have increased risk factors for chronic disease, including lack of physical activity and tobacco use, and higher prevalence and/or death rates due to chronic disease, including obesity, diabetes, heart disease, cancer, and respiratory disease. Chronic disease prevalence and death rates are generally in line with national averages, with few exceptions.

Rhode Island is an aging community, with a growing proportion of older adults that exceeds national averages. While Providence County has a slightly younger demographic than the state overall, older adult residents are more likely to experience chronic disease. Approximately 75% of older adult Medicare beneficiaries in Providence County manage two or more chronic conditions, and 20% manage six or more chronic conditions. Consistent with the state, the percentage of older adults living alone is increasing, likely increasing social isolation and impeding effective chronic illness management. Financial strains also impact the health of Providence County older adults and their ability to effectively manage chronic health conditions. Approximately 12% of Providence County older adults live in poverty, the highest proportion in the state.

#### **Maternal and Child Health**

Consistent with overall population demographics, the majority (68.4%) of births in Rhode Island in 2020 occurred to people residing in Providence County. Approximately 65% of newborns in 2020 screened positive for one or more risk factors associated with poor developmental outcomes. Infants born in the core cities experience more risk factors, with nearly 75% born to low-income families, 60% born to single mothers, and 22% born to mothers without a high school diploma.

Rhode Island overall reports better birth outcomes than the nation, but these outcomes are not consistent across counties or racial and ethnic groups. Consistent with having higher reported risk factors, Providence County and Woonsocket experience more negative birth outcomes compared to other areas of the state. Notably, 78.8% of pregnant people in Woonsocket receive first trimester prenatal care and 63% report breastfeeding compared to 87% and 77% respectively in non-core cities. Across Rhode Island, the percentage of pregnant people receiving first trimester prenatal care and/or breastfeeding declined in recent years; breastfeeding declined nearly 10 percentage points in the core



cities from 2012-2016 to 2015-2019. Teen births continue to decline in Woonsocket, but the percentage remains among the highest in the state at 4% of births.

Across Rhode Island, Black/African Americans experience notable birth disparities related to prenatal care and premature and low birth weight births. These disparities have contributed to higher infant and maternal mortality rates among Black/African Americans. From 2015-2019, the infant mortality rate for Black/African Americans statewide was nearly three times higher than for Whites. Nationally, Black/African Americans have a maternal death rate that is 2.5 times higher than for Whites.

A full summary of statistical data findings for the Landmark primary service area follows.

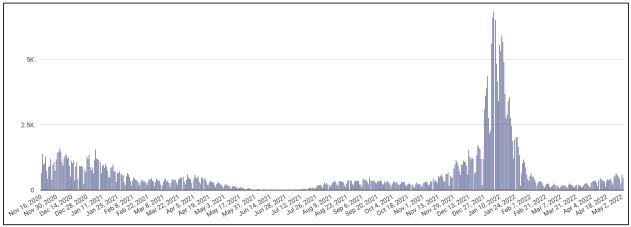


### COVID-19 Impact on Rhode Island Communities

COVID-19 is the name of the disease caused by the SARS-CoV-2 virus. "CO" stands for corona, "VI" for virus, and "D" for disease. The number "19" refers to the year 2019 when the first case of COVID-19 was identified. Some refer to COVID-19 as simply "COVID." COVID infection and presence in a community is typically measured by case incidence, which looks at the number of daily new cases per 100,000.

When calculating case incidence, an important part of understanding how COVID is affecting certain communities is to analyze the demographics of the community. The COVID pandemic has highlighted health disparities along racial, ethnic, and economic lines in the United States. As reported by the CDC, "COVID-19 data shows that Black/African American, Hispanic/Latino, American Indian and Alaska Native persons in the United States experience higher rates of COVID-19-related hospitalization and death compared with non-Hispanic White populations. These disparities persist even when accounting for other demographic and socioeconomic factors."

Rhode Island was hit early by the COVID-19 pandemic but was able to quickly recover due to social distancing mandates, intensive testing, and contract tracing efforts. In summer 2020, Rhode Island was leading the nation for testing. Despite its early success, Rhode Island was not spared from the wave of new COVID cases in fall 2020. The Delta variant of COVID initiated a new wave of COVID cases in summer 2021 despite readily accessible vaccines. The Omicron variants added to the community spread, and while more easily spread, have caused less fatalities and severe cases than previous variants.



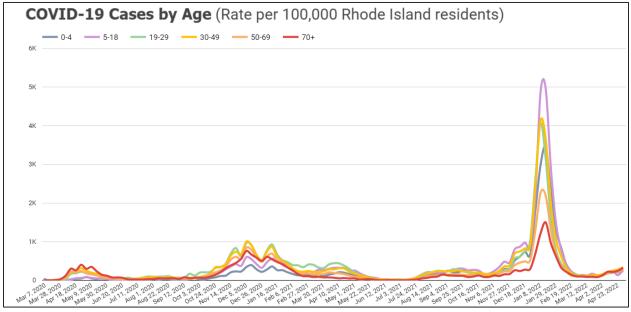
Source: Rhode Island Department of Health

COVID has affected all age groups. While older adults were among the earliest and hardest hit by COVID, more recent data shows that youth and young adults are leading new cases. Youth and younger adults have been less likely to be fully vaccinated for COVID than older adults.

The US Food and Drug Administration authorized the Pfizer-BioNTech COVID Vaccine for children aged 5-11 on October 29, 2021. As of May 4, 2022, 38% of youth aged 5-9, 60% of youth aged 10-14, and 70% of youth aged 15-18 were fully vaccinated.



COVID will be a leading cause of death for Rhode Islanders in 2020. As of May 4, 2022, more than 3,500 Rhode Islanders had died from COVID. Older adults aged 70 or older accounted for 77% of deaths.



Source: Rhode Island Department of Health

		Cases = 354,294	Deaths Total = 3,540		
Age Group	Count	Percent of Total	Count	Percent of Total	
0-4	15,050	4%	<5		
5-9	21,218	6%	0	0%	
10-14	22,772	6%	<5		
15-18	20,855	6%	0	0%	
19-24	37,591	11%	<5		
25-29	30,609	9%	8	<1%	
30-39	57,584	16%	28	1%	
40-49	45,808	13%	70	2%	
50-59	44,718	13%	220	6%	
60-69	30,931	9%	487	14%	
70-79	15,260	4%	819	23%	
80+	11,843	3%	1,902	54%	

#### Statewide COVID-19 Cases and Deaths by Age Group

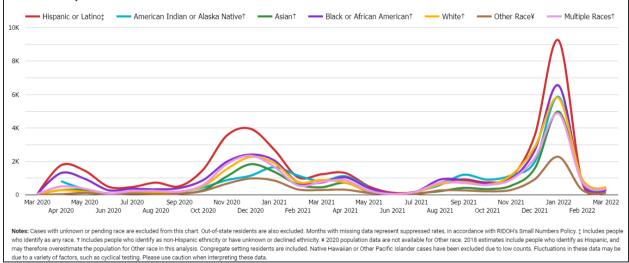
Source: Rhode Island Department of Health, May 4, 2022

Consistent with national trends, COVID-19 cases and death rates were disproportionately higher among Black/African American and Latinx Rhode Islanders. The COVID-19 death rate was nearly two times higher for Latinx than Whites, and nearly 50% higher for Black/African Americans. Across Rhode Island, Black/African American residents were the least likely of any racial or ethnic group to be fully



vaccinated, estimated at 65% of the population. This trend is consistent across the nation and is reflective of systemic inequities in access to care, as well as mistrust in healthcare systems.

## **COVID-19 Cases by Race & Ethnicity** (Age-adjusted Rate per 100,000 Rhode Island residents)



Source: Rhode Island Department of Health

		ases = 354,294	Deaths Total = 3,540		
Race or Ethnicity	Count	Age-Adjusted Rate per 100,000	Count	Age-Adjusted Rate per 100,000	
White	166,738	23,261	2,490	188	
Latinx origin (any race)	70,581	38,978	297	301	
Black or African American	18,927	27,981	154	269	
Asian	6,658	16,936	63	227	
Multiple race	5,301	22,075	<5		
Other race	5,110	8,911	9	28	
American Indian or Alaska Native	1,012	22,439	6	116	
Native Hawaiian or Other Pacific Islander	225	NA	0	0	

### Statewide COVID-19 Cases and Deaths by Race and Ethnicity

Source: Rhode Island Department of Health, May 4, 2022

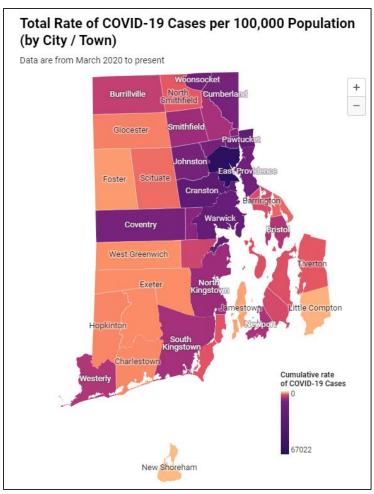


#### Statewide COVID-19 Vaccination by Age and Race and Ethnicity

by Age and Race and Ethnicity						
	Fully Vaccinated					
Age Group						
5-9	38%					
10-14	60%					
15-18	70%					
19-24	62%					
25-29	63%					
30-39	74%					
40-49	76%					
50-59	81%					
60-69	94%					
70-79	100%					
80+	83%					
Race and Ethnicity						
Native Hawaiian or Other Pacific Islander	100%					
American Indian or Alaska Native	80%					
Asian	77%					
Latinx origin (any race)	70%					
White	67%					
Black or African American	65%					
Source: Phode Island Department	flloalth May 4 2022					

Source: Rhode Island Department of Health, May 4, 2022

Providence County communities, particularly the core cities, have been among the most impacted by COVID-19. Woonsocket, located in Landmark's PSA, had one of the highest COVID case and death rates of any city or town in the state and among the lowest vaccination rates. It is worth noting that COVID case and death rates were also higher in Smithfield, a finding that may be due in part to higher transmission rates among students at Bryant University.



Source: Rhode Island Department of Health, May 4, 2022

	Total Cases	Case Rate per 100,000	Total Deaths	Death Rate per 100,000	Population Fully Vaccinated
Burrillville	5,124	31,143	80	486	61.9%
Cumberland	11,058	31,912	106	306	74.4%
Glocester	2,355	23,405	9	89	66.1%
Lincoln	7,118	32,887	93	430	76.9%
North Smithfield	3,794	30,723	72	583	73.4%
Smithfield	7,720	35,691	174	804	71.3%
Woonsocket	14,230	34,257	266	640	59.1%

COVID-19 Cases, Deaths, and Vaccination by Landmark PSA Municipality

Source: Rhode Island Department of Health, May 4, 2022



### Service Area Population Trends

#### Demographics

Since 2010, Rhode Island saw a smaller increase in population (+4.3%) than the US overall (+7.4%). Population growth occurred in all Rhode Island counties, with the largest growth in Providence County.

Based on 2015-2019 population estimates, nearly all zip codes comprising the Landmark service area saw population growth, excluding Burrillville 02876 and Greenville 02828. Burrillville zip code 02876 experienced population decline of -17.9%, but the total population of the zip code is small at 353 and population loss equated to 77 individuals. Woonsocket zip code 02895, the home zip code of Landmark, saw the smallest population growth in the service area at 1%.

2020 Total Population						
	Total Population	Percent Change Since 2010				
Bristol County	50,793	+1.8%				
Kent County	170,363	+2.5%				
Newport County	85,643	+3.3%				
Providence County	660,741	+5.4% 🕇				
Washington County	129,839	+2.3%				
Rhode Island	1,097,379	+4.3%				
United States	331,449,281	+7.4%				

Source: US Census Bureau, Decennial Census

2015-2019 Total Population I	by Landmark PSA Zip Code
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	Total Population	Percent Change Since 2010
02814, Chepachet	7,901	+5.4% 🕇
02859, Pascoag	7,070	+4.9% 🕇
02830, Harrisville	6,255	+4.7% 🕇
02896, North Smithfield	12,060	+4.5% 🕇
02864, Cumberland	34,797	+4.2% 🕇
02865, Lincoln	17,667	+4.2% 🕇
02838, Manville	3,495	+2.8% 🕇
02917, Smithfield	14,139	+2.7% 🕇
02895, Woonsocket	41,603	+1.0% 🕇
02828, Greenville	7,592	-1.5% 🖊
02876, Burrillville	353	-17.9% 🖊

Source: US Census Bureau, American Community Survey



Health needs change as individuals age. Therefore, the age distribution of a community impacts its social and healthcare needs. The age distribution of Rhode Island is older than the nation in all counties except Providence. The median age of Providence County is approximately 37 years compared to 44-45 years in other counties. In all counties except Providence, 1 in 5 residents are age 65 or older, a higher proportion than both the state overall and the nation.

The proportion of older adult residents increased across the state, with the largest increase in Newport County, followed by Washington County. Among older adults age 65 or older, the 65-74 age category saw the greatest increase in recent years, largely due to the aging of the baby boomer generation. This finding supports that the need for older adult health and support services is likely to continue in the coming years.

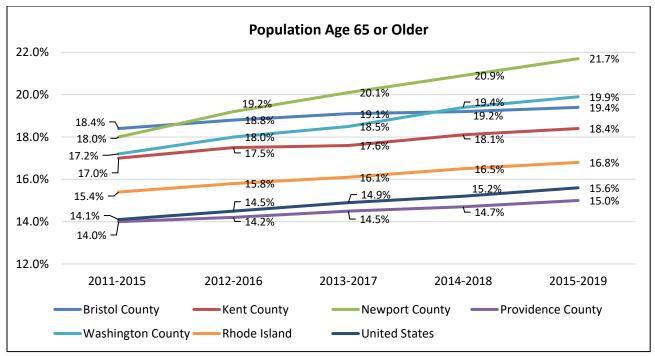
Consistent with Providence County overall, Landmark PSA residents are generally younger than the rest of the state. In six of the 11 PSA zip codes with reportable data, including Woonsocket 02895, youth comprise 20-25% of the population. A higher proportion of older adults reside in North Smithfield zip code 02896 (23.6%) and Greenville zip code 02828 (23.3%).

	Gen Z/ Gen C	Gen Z	Millennial	Millennial/ Gen X	Gen X	Boomers	Boomers/ Silent	Median
	Under 18 years	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over	Age
Bristol County	19.1%	10.9%	10.3%	10.4%	14.4%	15.6%	19.4%	44.3
Kent County	19.0%	7.2%	13.1%	12.1%	14.7%	15.6%	18.4%	43.9
Newport County	17.1%	9.4%	12.6%	10.7%	13.6%	14.9%	21.7%	45.2
Providence County	20.7%	10.9%	15.2%	12.2%	13.1%	12.9%	15.0%	37.4
Washington County	16.8%	14.6%	9.3%	9.6%	13.6%	16.1%	19.9%	44.6
Rhode Island	19.6%	10.7%	13.7%	11.7%	13.5%	13.9%	16.8%	39.9
United States	22.6%	9.4%	13.9%	12.6%	13.0%	12.9%	15.6%	38.1

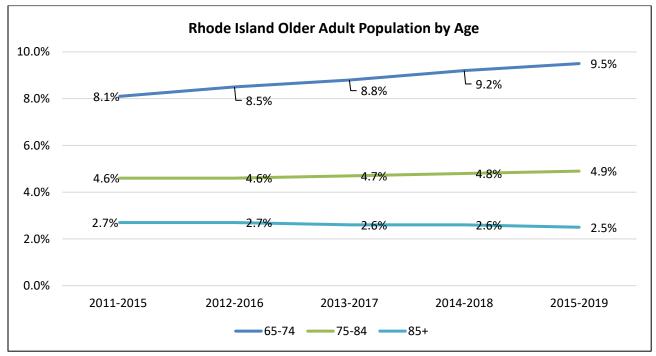
#### 2015-2019 Population by Age

Source: US Census Bureau, American Community Survey





Source: US Census Bureau, American Community Survey



Source: US Census Bureau, American Community Survey



	Youth (under 18) Population	Older Adult (65+) Population
02876, Burrillville	25.8% (n=91)	0.0%
02838, Manville	25.1%	15.9%
02830, Harrisville	24.5%	15.3%
02865, Lincoln	21.7%	20.0%
02895, Woonsocket	21.6%	13.7%
02814, Chepachet	20.7%	15.4%
02864, Cumberland	19.9%	17.8%
02859, Pascoag	19.8%	13.6%
02896, North Smithfield	19.1%	23.6%
02828, Greenville	17.4%	23.3%
02917, Smithfield	14.3%	18.1%

#### 2015-2019 Age Characteristics by Landmark PSA Zip Code

Source: US Census Bureau, American Community Survey

Outside of Providence County, Rhode Island is less racially and ethnically diverse than the nation overall. In all counties except Providence, Whites comprise 90% or more of the population, a higher proportion than the nation (72.5%). **Within Providence County, proportionately more residents identify as Black/African American, multi-racial, and/or Latinx compared to both Rhode Island and the nation.** 

Racial and ethnic diversity is increasing statewide, particularly for multi-racial and Latinx groups. **From 2011-2015 to 2015-2019, the proportion of the population identifying as multi-racial increased 18.3% and the proportion identifying as Latinx increased 13.5%.** The largest increase in multi-racial residents was seen in Providence County (+26%), followed by Bristol and Washington counties (+16%). The largest increase in Latinx residents was seen in Bristol County (+28%), followed by Kent County (+25%).

	White	Black or African American	Asian	Some Other Race*	Two or More Races	Latinx origin (any race)	
Bristol County	94.2%	1.3%	2.1%	0.6%	1.8%	3.0%	
Kent County	91.3%	1.9%	2.7%	1.4%	2.3%	5.0%	
Newport County	89.0%	4.0%	2.0%	1.0%	2.5%	5.7%	
Providence County	72.9%	9.9%	4.2%	8.3%	4.1%	22.8%	
Washington County	92.9%	1.4%	1.9%	1.1%	2.0%	3.2%	
Rhode Island	80.5%	6.8%	3.4%	5.5%	3.3%	15.4%	
United States	72.5%	12.7%	5.5%	4.9%	3.3%	18.0%	

2015-2019 Population by Prominent Racial and Ethnic Groups

Source: US Census Bureau, American Community Survey

\*"Some other race" has historically captured ethno-racially mixed individuals, as well as Latinx individuals who do not consider ethnicity as separate or distinct from race.

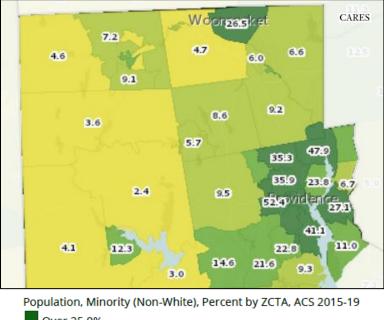


	White	Black or African American	Asian	Some Other Race	Two or More Races	Latinx origin (any race)
Bristol County	-2.0%	+4.5%	+24.8%	+135.2%	+16.0%	+27.7%
Kent County	-2.0%	+36.8%	+12.7%	-3.0%	+9.6%	+24.6%
Newport County	+0.5%	+14.2%	+12.4%	-33.9%	-27.4%	+10.7%
Providence County	+0.1%	+3.5%	+2.7%	-5.8%	+26.3%	+13.0%
Washington County	-0.9%	-6.4%	+7.4%	+33.2%	+15.9%	+12.3%
Rhode Island	-0.5%	+4.9%	+5.1%	-5.4%	+18.3%	+13.5%
United States	+1.0%	+3.3%	+10.4%	+20.1%	+13.9%	+7.8%

#### Population Change by Race and Ethnicity, 2011-2015 to 2015-2019

Source: US Census Bureau, American Community Survey

Within the Landmark PSA, racial and ethnic diversity is concentrated in Woonsocket, where 26.5% of residents identify as non-White. Within Woonsocket, approximately 19% of residents identify as Latinx, 10% identify as Black/African American, 6% identify as Asian, and 10% identify as multiracial or some other race.



2015-2019 Non-White Population by Zip Code in Providence County

Population, Minority (Non-White), Percent by ZCTA, ACS 2015-19 Over 25.0% 10.1 - 25.0% 5.1 - 10.0% Under 5.1%



#### Many Roads Lead to Home

**Rhode Island is home to proportionately more immigrants than the nation overall.** While most residents were born in the US, a higher proportion were born in Puerto Rico or US Island Areas or are naturalized citizens. These findings are largely isolated to Providence County, where 1 in 10 residents is a naturalized citizen and approximately 8% are not a US citizen.

Within Providence County, nearly 1 in 4 residents identify as Latinx. Approximately half of foreign-born residents migrate from Latin American countries. In all other Rhode Island counties, the dominant regions of origin for foreign-born residents are Europe and Asia.

Nearly one-third of Providence County residents speak a primary language other than English. Linguistically isolated households are defined as persons who cannot speak English at least 'very well' or who do not live in a household where an adult speaks English 'very well'. Across Rhode Island, linguistically isolated households are concentrated in the core cities. **In Woonsocket, 7.3% of households are linguistically isolated, a higher percentage than the state overall (5.5%), but a lower percentage than other core cities, where 12%-27% of households are linguistically isolated.** 

	US citizen, born in the US	US citizen, born in Puerto Rico or US Island Areas	US citizen, born abroad of American parent(s)	US citizen by naturalization	Not a US citizen	Speak Primary Language Other Than English
Bristol County	90.1%	0.0%	0.6%	6.9%	2.4%	11.6%
Kent County	92.9%	0.3%	0.6%	4.0%	2.2%	9.1%
Newport County	90.6%	0.6%	1.6%	3.9%	3.3%	9.5%
Providence County	78.5%	2.1%	1.0%	10.1%	8.4%	31.7%
Washington County	94.0%	0.2%	1.1%	3.1%	1.7%	6.2%
Rhode Island	84.0%	1.4%	1.0%	7.7%	5.9%	22.4%
United States	84.9%	0.6%	1.0%	6.7%	6.8%	21.6%

#### 2015-2019 Nativity and Citizenship Status

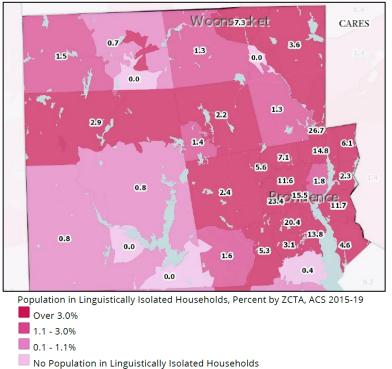
Source: US Census Bureau, American Community Survey

#### 2015-2019 Foreign-Born Population by Region of Birth

	Latin America	Europe	Asia	Africa	Other
Bristol County	8.0%	67.1%	20.0%	1.1%	3.8%
Kent County	21.9%	33.8%	32.8%	7.6%	4.0%
Newport County	27.6%	43.1%	19.9%	4.3%	5.1%
Providence County	50.1%	16.6%	17.5%	14.3%	1.5%
Washington County	18.3%	37.5%	34.6%	4.8%	4.7%
Rhode Island	44.5%	21.4%	19.4%	12.6%	2.0%
United States	50.6%	10.8%	31.0%	5.1%	2.5%

Source: US Census Bureau, American Community Survey





#### 2015-2019 Population in Linguistically Isolated Households by Zip Code in Providence County

#### Income and Work

Rhode Island overall has a higher median household income and lower poverty than the nation, but these factors vary widely by community, with notable disparities. The state's high median household income is due in part to excess wealth in Bristol and Washington counties, where the median household income exceeds \$83,000 compared to a national median of approximately \$63,000. In contrast, the median household income in Providence County is less than \$60,000, and approximately 15% of all residents and 22% of children live in poverty.

Excluding Providence County, Rhode Island children are less likely to live in poverty compared to their peers nationally. However, it is worth noting that approximately 1 in 10 children in Kent, Newport, and Washington counties live in poverty. In Washington County, 9.2% of children live in poverty, the third highest in the state, despite 56% of households earning \$75,000 or more annually. This finding indicates a potential wealth gap, largely impacting families.

Consistent with the state and nation, poverty declined in Providence County for both the overall population and youth. However, wide disparities in wealth continue to exist. In Woonsocket zip code 02895, 21.8% of individuals live in poverty compared to 1.8% in Greenville zip code 02828. Poverty is also more prevalent in Manville zip code 02838 (16.3%) and Harrisville zip code 02830 (11.5%). Areas of higher poverty are consistent with communities with greater racial and ethnic diversity. While poverty largely declined among racial and ethnic minorities from the 2019 CHNA, it continues to be



higher in comparison to Whites. In Providence County, approximately twice as many Black/African American and Latinx residents live in poverty as White residents.

Of note, the Asian population increased 5.1% across Rhode Island over the past five years, and it was the only reported demographic to see higher poverty rates from the 2019 CHNA. Approximately 16% of Asians living in Rhode Island live in poverty compared to 13% reported at the time of the 2019 CHNA.

The COVID-19 pandemic had a significant impact on unemployment rates in Rhode Island, particularly in Providence County. The 2020 average unemployment rate for Rhode Island and Providence County was 9.4% and 10.2% respectively, compared to a national average of 8.1%. The state has since largely recovered, but long-term financial and psychological implications for residents should continue to be monitored.

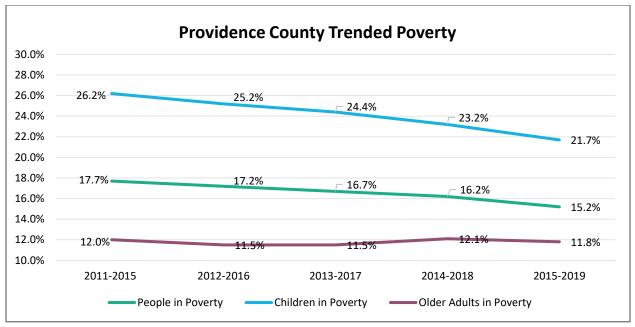
Economic indicators											
	Bristol	Kent	Newport	Providence	Washington	Rhode	United				
	County	County	County	County	County	Island	States				
Income and Poverty	Income and Poverty (2015-2019)										
Median household income	\$83,092	\$73,521	\$79,454	\$58,974	\$85,531	\$67,167	\$62,843				
People in poverty	7.5%	7.6%	8.7%	15.2%	8.6%	12.4%	13.4%				
Children in poverty	6.6%	8.8%	10.6%	21.7%	9.2%	17.0%	18.5%				
Older adults (65+) in poverty	5.4%	9.3%	7.2%	11.8%	5.7%	9.7%	9.3%				
Households with SNAP* Benefits	8.2%	11.7%	9.1%	19.4%	7.6%	15.3%	11.7%				
Unemployment											
2020 average	7.6%	8.7%	8.2%	10.2%	7.8%	9.4%	8.1%				
May 2021	4.1%	4.9%	4.3%	5.1%	4.1%	5.5%	5.5%				

**Economic Indicators** 

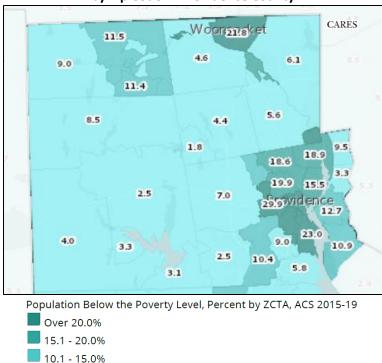
Source: US Census Bureau, American Community Survey & US Bureau of Labor Statistics

\*Supplemental Nutrition Assistance Program.





Source: US Census Bureau, American Community Survey



#### 2015-2019 Population in Poverty by Zip Code in Providence County

Under 10.1%



	White	Black / African American	Asian	Latinx origin (any race)
Bristol County	10.0%	45.8%	19.8%	8.0%
2019 CHNA	6.4%	47.6%	1.0% (n=8)	11.2%
Kent County	7.3%	6.9%	6.7%	9.8%
2019 CHNA	8.2%	8.2%	6.0%	11.7%
Newport County	7.8%	24.3%	6.0%	19.9%
2019 CHNA	8.0%	23.0%	3.9%	20.8%
Providence County	12.2%	22.2%	18.6%	26.6%
2019 CHNA	13.8%	25.4%	15.7%	32.8%
Washington County	7.6%	33.2%	7.6%	20.2%
2019 CHNA	9.0%	33.9%	11.2%	17.3%
Rhode Island	10.0%	22.0%	15.8%	25.3%
2019 CHNA	11.2%	25.1%	13.3%	31.0%
United States	11.1%	23.0%	10.9%	19.6%
2019 CHNA	12.4%	26.2%	12.3%	23.4%

#### 2015-2019 People in Poverty by Race and Ethnicity with 2019 CHNA Comparison (2012-2016)

Source: US Census Bureau, American Community Survey

While overall poverty is lower in Rhode Island compared to the US, poverty among older adults is slightly higher (9.7% vs. 9.3%). This finding is of note due to the large and growing proportion of Rhode Island residents age 65 or older. In response to the continued growth of older residents, communities will be challenged to expand older adult health and social services for populations with fewer financial resources. Providence County, home of Landmark Medical Center, has the highest proportion of older adults living in poverty in the state.

The 2020 Rhode Island Healthy Aging Data Report provides a comprehensive picture of the health and socioeconomic status of older adults statewide. According to data report findings, **the economic situation of older adults in Rhode Island had worsened even before the impact of COVID-19, including higher poverty rates, increased receipt of food benefits, and more older adults in the workforce.** The following table depicts annual cost of living for older adults, as provided by the Elder Index Measure of Economic Security, with comparisons to 2016 data report findings.

	2016	2020	Change from 2020 to 2016
Single, homeowner without mortgage, good health	\$22,188	\$23,484	+\$1,296
Single, renter, good health	\$23,544	\$25,560	+\$2,016
Couple, homeowner without mortgage, good health	\$32,252	\$33,984	+\$1,732
Couple, renter, good health	\$33,708	\$36,060	+\$2,252

Rhode Island Annual Cost of Living for Older Adults, 2016 vs. 2020

Source: Tufts Health Plan Foundation, Rhode Island Healthy Aging Data Report



#### Food Insecurity

Food insecurity is defined as not having reliable access to a sufficient amount of nutritious, affordable food. Food insecurity is associated with lower household income and poverty, as well as poorer overall health status. **Consistent with higher poverty levels, Providence County has historically had the highest food insecurity rates in Rhode Island, but all communities are affected.** In 2019, approximately 1 in 10 children in Bristol, Kent, Newport, and Washington counties were food insecure.

Similar to unemployment rates, COVID-19 had a profound impact on food insecurity. The Rhode Island Community Food Bank reported a pre-pandemic average of 3.1 million pounds of food distributed every quarter. More than 4 million pounds were distributed in the second quarter of 2020, at the onset of the pandemic. Projected food insecurity rates for 2020 and 2021 for Rhode Island demonstrate persistent food insecurity needs. **All counties saw an increase in food insecurity from 2019 to 2020, including a 6to 8-point increase among children. Prior to 2020, food insecurity percentages were declining in all counties.** 

Within the Landmark PSA, Woonsocket continues to be areas of opportunity for improving access to nutritious, affordable foods, particularly among youth. Approximately 44% of students in Woonsocket participate in the school breakfast program. **Woonsocket has been successful in enrolling low-income students in the school breakfast program, with one of the highest enrollments in the state (44%).** 

	Bristol	Kent	Newport	Providence	Washington	Rhode	United
	County	County	County	County	County	Island	States
All Residents							
2021 (projected)	9.6%	10.7%	10.6%	13.3%	9.3%	11.4%	12.9%
2020 (projected)	10.8%	12.4%	12.0%	15.2%	10.7%	13.1%	13.9%
2019	7.6%	8.6%	8.6%	11.0%	7.4%	9.5%	10.9%
2018	8.1%	9.2%	9.0%	12.0%	7.8%	11.4%	11.5%
2017	9.5%	9.7%	10.6%	12.6%	9.7%	11.4%	12.5%
Children							
2021 (projected)	12.4%	15.4%	15.0%	20.4%	13.7%	17.1%	17.9%
2020 (projected)	14.7%	18.8%	17.9%	24.0%	16.5%	20.5%	19.9%
2019	9.0%	12.0%	11.7%	16.4%	10.6%	13.9%	14.6%
2018	12.0%	14.8%	13.6%	17.8%	13.3%	17.8%	15.2%
2017	13.8%	14.8%	15.2%	18.4%	14.9%	17.3%	16.1%

**Trended and Projected Food Insecurity** 

Source: Feeding America



	Total Student Enrollment	Percent of All Students Participating in School Breakfast	Low-Income School Enrollment	Percent of Low-Income Students Participating in School Breakfast
Burrillville	2,227	8%	759	16%
Cumberland	4,508	10%	952	27%
Glocester	555	11%	68	33%
Lincoln	3,191	7%	893	16%
North Smithfield	1,645	4%	44	16%
Smithfield	2,379	6%	337	22%
Woonsocket	5,884	41%	4,397	44%
Four Core Cities	40,376	44%	NA*	NA*
Remainder of Rhode Island	89,337	11%	26,681	24%

#### October 2019 Children Participating in School Breakfast by Landmark PSA School District

Source: 2021 Rhode Island Kids Count Factbook

\*NA indicates that data was not available because some or all schools in this district were using the Community Eligibility Provision and therefore not collecting data on the incomes of students' families.

#### Education

High school graduation is one of the strongest predictors of longevity and economic stability. Adult residents of Rhode Island are generally very well educated compared to the US. Providence County education indicators are less favorable than the US. Approximately 14% of Providence County adults have not completed high school compared to 9% or less in other counties. Across the Landmark PSA, educational attainment disparities mirror other reported socioeconomic disparities, most affecting Woonsocket residents.

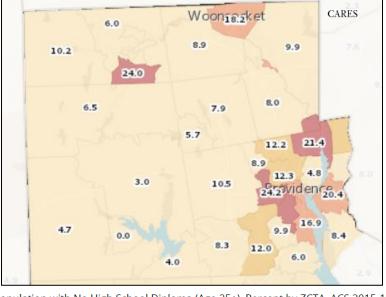
Consistent with having the highest reported household incomes in the state, nearly 50% of adults in Bristol, Newport, and Washington counties have completed graduate studies. Kent County has the second lowest median household income in the state. Consistent with this finding, residents are more likely to conclude their education with a high school diploma or associate's degree.

	Less than high school diploma	High school graduate (includes GED)	Some college or associate's degree	Bachelor's degree	Graduate or professional degree
Bristol County	9.0%	19.4%	22.5%	25.4%	23.6%
Kent County	7.8%	28.0%	30.9%	20.9%	12.3%
Newport County	6.0%	22.1%	23.8%	28.5%	19.5%
Providence County	14.2%	31.0%	25.8%	17.5%	11.5%
Washington County	5.1%	22.8%	25.9%	26.1%	20.0%
Rhode Island	11.2%	28.3%	26.4%	20.4%	13.8%
United States	12.0%	27.0%	28.9%	19.8%	12.4%

#### 2015-2019 Population (Age 25 or Older) by Educational Attainment

Source: US Census Bureau, American Community Survey





#### 2015-2019 Population with No High School Diploma by Zip Code in Providence County

Population with No High School Diploma (Age 25+), Percent by ZCTA, ACS 2015-19 Over 21.0% 16.1 - 21.0% 11.1 - 16.0% Under 11.1%

Educational attainment disparities also exist between different racial and ethnic populations. Consistent with state and national trends, adults of Asian descent in Rhode Island are the most likely of any other population group to have completed higher education. Black/African American and Latinx adults, outside of Providence County, are generally more likely to attain higher education than their peers nationally, although less likely than White adults residing in the same communities. **Notably, in Providence County, where approximately 23% of residents identify as Latinx, only 12% of Latinx adults have attained a bachelor's degree or higher compared to 31% of White adults.** 



	White	Black / African American	Asian	Latinx origin (any race)
Bristol County	48.9%	22.4%	63.6%	51.2%
2019 CHNA	46.2%	43.1%	65.2%	45.3%
Kent County	32.8%	34.4%	63.1%	27.8%
2019 CHNA	31.4%	33.3%	52.0%	28.8%
Newport County	48.9%	20.8%	74.9%	37.7%
2019 CHNA	46.1%	34.3%	56.3%	33.8%
Providence County	31.0%	20.2%	47.8%	12.0%
2019 CHNA	29.3%	18.4%	45.0%	10.8%
Washington County	46.7%	31.3%	57.8%	34.0%
2019 CHNA	45.3%	30.1%	51.0%	37.6%
Rhode Island	35.9%	21.2%	52.1%	14.4%
2019 CHNA	34.2%	20.2%	47.3%	13.1%
United States	33.5%	21.6%	54.3%	16.4%
2019 CHNA	31.6%	20.0%	52.1%	14.7%

#### 2015-2019 Population with a Bachelor's Degree by Race and Ethnicity with 2019 CHNA Comparison (2012-2016)

Source: US Census Bureau, American Community Survey

#### Housing

Housing is the largest single expense for most households and should represent 30% of a household's monthly income. The median home value for Rhode Island is more expensive than the median home value across the US, and more homeowners are considered housing cost burdened compared to the US benchmark. Median home value is highest in the areas of Bristol, Newport, and Washington counties, although Newport is the only county with a higher percentage of cost burdened homeowners in comparison to the state or nation.

Despite having the lowest median home value in the state, only 54% of Providence County households own their home, a lower proportion than the state or nation. This disparity is likely due to in part to financial barriers. The county has higher poverty rates and nearly one-third of homeowners are cost burdened. Lack of homeownership in Providence County perpetuates financial insecurity, as renters generally experience less stable housing costs and nearly half are considered cost burdened. Renters are also more vulnerable to substandard housing conditions like overcrowding, poor ventilation, pests, or allergens that are associated with poor health.

Rhode Island housing affordability slowly improved from 2011-2015 to 2015-2019 with a declining proportion of cost burdened homeowners and renters, but the economic impact of COVID-19 and historic increases in the cost of housing in 2020 and 2021 created new affordability strains on residents. HousingWorks RI reported that, "Across Rhode Island, housing markets continued to tighten. Rhode Island had a mere 1.3-month supply of sales housing stock at the end of Q1-2021, a 50 percent drop from Q1-2020; the vacancy rate in rental housing fell to 2.2 percent, compared to what is considered a healthy range of five to eight percent. Given these tight markets, it is not surprising that



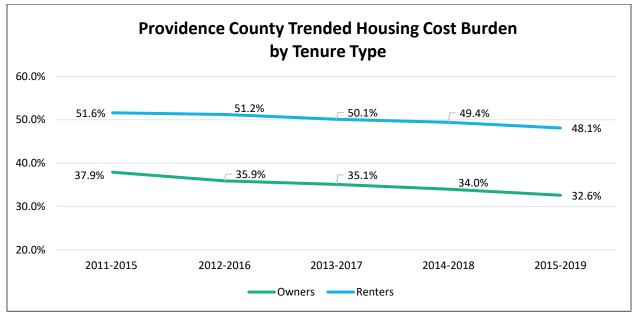
the rental market experienced a four percent increase at the end of Q1-2021, but that is outstripped by the double-digit increases in the median single family home prices, which increased by more than 12 percent over 2020, and more than 22 percent measured year-over-year by Q2-2021."

		Owners		Renters			
	Occupied Units	Median Home Value	Cost- Burdened <sup>*</sup>	Occupied Units	Median Rent	Cost- Burdened <sup>*</sup>	
Bristol County	70.7%	\$358,100	27.6%	29.3%	\$1,037	49.1%	
Kent County	70.1%	\$236,300	29.7%	29.9%	\$1,079	46.2%	
Newport County	63.2%	\$387,900	33.7%	36.8%	\$1,285	44.3%	
Providence County	54.2%	\$233,500	32.6%	45.8%	\$967	48.1%	
Washington County	74.0%	\$343,000	26.6%	26.0%	\$1,133	46.8%	
Rhode Island	60.8%	\$261,900	31.0%	39.2%	\$1,004	47.5%	
United States	64.0%	\$217,500	27.8%	36.0%	\$1,062	49.6%	

#### 2015-2019 Housing Indicators

Source: US Census Bureau, American Community Survey

\*Defined as spending 30% or more of household income on rent or mortgage expenses.

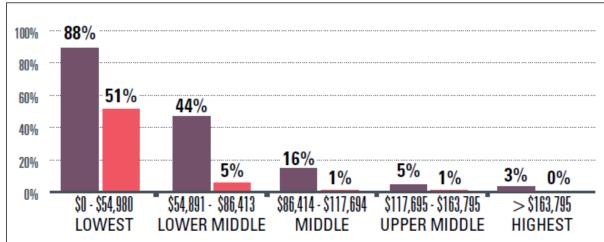


Source: US Census Bureau, American Community Survey

As reported in the HousingWorks RI 2021 Factbook, Rhode Island households earning \$30,000 or less cannot affordably buy a median priced single-family home or rent an average priced two-bedroom apartment in any Rhode Island city or town. For the first time since HousingWorks RI started to measure housing affordability, there are no towns or cities in Rhode Island where a household earning the state's median household income (\$67,167) can affordably buy a single-family home.

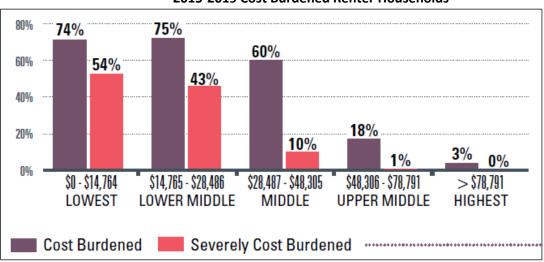


The following graphs depict cost burden and severe cost burden\* by income group for homeowners with a mortgage and renters. In total for the reporting years 2015-2019, more than 140,000 Rhode Island households were cost burdened. Among the lowest income group, 88% of homeowners with a mortgage and 74% of renters were cost burdened. \*Severe cost burden is defined as spending 50% or more of income on housing expenses.





Source: HousingWorks RI 2021 Housing Fact Book

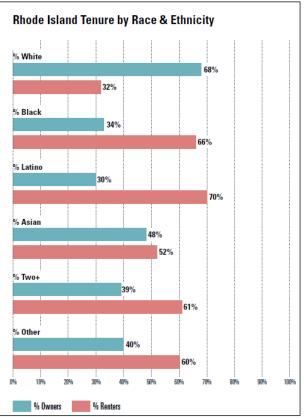


#### 2015-2019 Cost Burdened Renter Households

Source: HousingWorks RI 2021 Housing Fact Book

Redlining and other forms of racial segregation led to a multi-generational loss of wealth. In Rhode Island, Black residents have a homeownership rate that is half the rate for White residents, and Latinx residents have the lowest homeownership rate of all racial and ethnic categories at 30%. Homeownership rates among Black, Latinx, and Asian residents of Rhode Island are 10-19 percentage points lower than national homeownership rates for these populations.

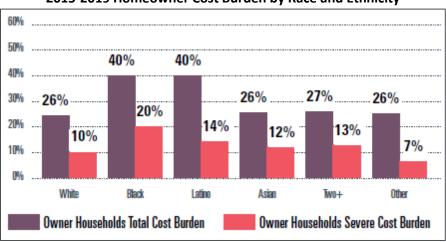




#### 2015-2019 Rhode Island Tenure by Race and Ethnicity

Source: HousingWorks RI 2021 Housing Fact Book

Renter cost burden is largely consistent among White, Black, and Latinx Rhode Islanders, with approximately 1 in 2 households cost burdened and 1 in 4 households severely cost burdened. **Homeowner cost burden is not consistent among racial and ethnic groups.** Approximately 40% of Black and Latinx households are cost burdened compared to 26% of White households.

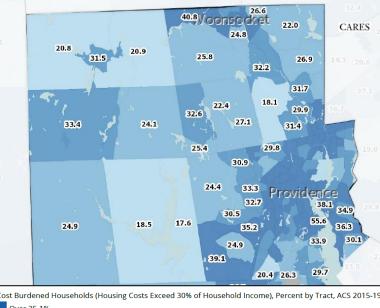


#### 2015-2019 Homeowner Cost Burden by Race and Ethnicity

Source: HousingWorks RI 2021 Housing Fact Book



The following map depicts the percentage of cost burdened households by census tract within Providence County. **Relative to Landmark's PSA, housing cost burden is concentrated in Woonsocket,** where approximately 40%-50% of households are cost burdened. However, housing cost burden is widespread, affected approximately one-quarter to one-third of households across the region.



#### 2015-2019 Cost Burdened Households by Census Tract in Providence County

Cost Burdened Households (Housing Costs Exceed 30% of Household Income), Percent by Tract, ACS 2015-19
Over 35.1%
28.1 - 35.0%
21.1 - 28.0%
Under 21.1%
No Data or Data Suppressed

#### Rhode Island is tied with Massachusetts for the third oldest housing stock in the nation.

Approximately 73.5% of housing units in Rhode Island were built before 1980 compared to 53.6% nationwide; less than 2% of units have been built since 2014. Providence County has the oldest housing stock in Rhode Island with 78.5% of units built before 1980. Washington County has the newest housing stock in the state, primarily due to new development between 1980 and 2009.

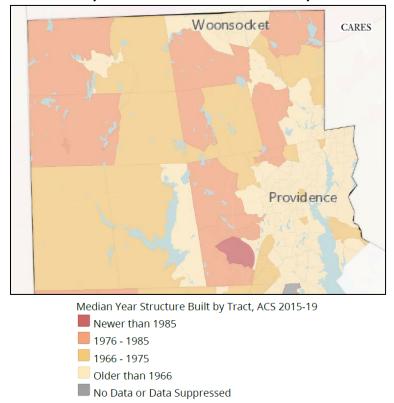
	Before 1980	1980-1999	2000-2009	2010-2013	2014 or Later			
Bristol County	73.7%	19.4%	5.1%	1.4%	0.4%			
Kent County	72.3%	20.8%	5.5%	0.6%	0.8%			
Newport County	67.5%	20.9%	8.9%	1.3%	1.4%			
Providence County	78.5%	15.6%	4.7%	0.8%	0.4%			
Washington County	57.6%	28.9%	11.0%	1.6%	1.0%			
Rhode Island	73.5%	18.9%	6.1%	0.9%	0.7%			
United States	53.6%	27.3%	14.0%	2.7%	2.5%			

#### 2015-2019 Housing by Year Built

Source: US Census Bureau, American Community Survey



The following map depicts the median year that housing structures were built by census tract within Providence County. In nearly all census tracts in and around Woonsocket, the median year for housing build was before 1966.



#### 2015-2019 Median Year of Housing Build by Census Tract in Providence County

Quality and affordable housing has a direct impact on health. HousingWorks RI states, "Homes built through 1978 predate safety regulations for contaminants like lead and asbestos, which may be present in paint and plumbing, contributing to the health risks of lead poisoning and unsafe drinking water."

As reported by HousingWorks RI, of the 73.5% of homes that were built before 1980, less than 10% are certified Lead Safe, having undergone a state certified inspection and mitigation process. While statewide the percentage of children entering kindergarten with a history of lead poisoning has decreased, lead poisoning exposure continues to be higher among children residing in areas with older housing, particularly in the four core cities.

**Rhode Island adults and children have a higher prevalence of asthma than their peers nationwide.** As of 2019, 11.2% of Rhode Island adults and 8.7% of children reported having a current asthma diagnosis compared to 9% of adults and 7.4% of children nationwide. As reported in the HousingWorks RI 2021 Fact Book, "40 percent of the triggers that cause asthma are fixable and found within the home."



Asthma is the most common chronic condition among children, and a leading cause of hospitalization and school absenteeism. From 2015 to 2019, Rhode Island saw a total of 1,075 child hospitalizations with a primary diagnosis of asthma for a rate of 1.0 per 1,000 children. Additionally, the state saw 6,919 child emergency department (ED) visits with a primary diagnosis of asthma for a rate of 6.2 per 1,000 children. Both hospitalizations and ED visits were more than twice as high in the four core cities as the remainder of the state.

**Consistent with these findings, within the Landmark PSA, Woonsocket has the oldest housing stock and the highest prevalence of child lead poisoning and child ED visits due to asthma.** Lincoln also has slightly elevated rates of ED visits due to asthma; 70% of homes were built before 1980.

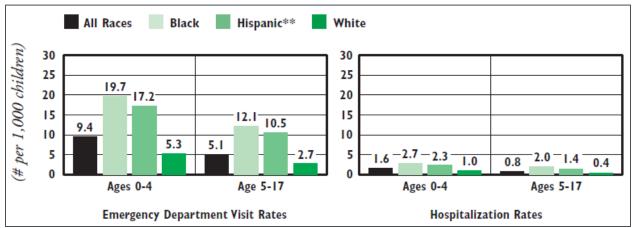
	Lead Poisoning Among Children Entering Kindergarten in Fall 2022			2015-2019 ED Visits with Primary Asthma Diagnosis		Housing
	Number Tested	Number with Lead Poisoning	Percent with Lead Poisoning	Child ED Visits	Rate per 1,000 Children	Stock Built Pre-1980
Burrillville	120	4	3.3%	18	3.0	63%
Cumberland	341	2	0.6%	102	2.7	64%
Glocester	56	2	3.6%	6	NA	63%
Lincoln	164	1	0.6%	40	5.4	70%
North Smithfield	91	1	1.1%	7	NA	68%
Smithfield	157	1	0.6%	21	3.9	62%
Woonsocket	561	27	4.8%	274	13.0	86%
Four Core Cities	4,193	269	6.4%	4,080	11.1	86%
Remainder of Rhode Island	6,094	123	2.0%	2,833	3.8	67%

#### Housing and Health within the Landmark PSA

Source: 2021 Rhode Island Kids Count Factbook

Black/African American and Latinx residents are more likely to rent their home and live in areas of Rhode Island with older housing. These trends, coupled with other social determinants of health barriers, contribute to a disproportionate rate of asthma compared to Whites and other races. In Rhode Island, the 2015-2019 rate of ED visits due to asthma for Black/African American and Latinx children under age five was more than triple the rate for White children.





#### 2015-2019 Asthma Emergency Department and Hospitalization Rates by Age and Race and Ethnicity

Source: 2021 Rhode Island Kids Count Factbook

The Point-in-Time (PIT) count is a count of sheltered and unsheltered homeless persons on a single night in January which is mandated by HUD in every community nationwide. Sheltered locations include emergency shelters and transitional housing. Unsheltered locations include cars, streets, parks, etc.

The Rhode Island Coalition to End Homelessness is responsible for conducting the PIT count in Rhode Island. The number of individuals experiencing homelessness in Rhode Island increased in both 2020 and 2021, likely due in part to the COVID-19 pandemic. From 2020 to 2021, the percentage of young adults experiencing homelessness doubled from 4% to 8%; the percentage of chronic homeless increased from 20% to 28%. The number of unsheltered individuals more than doubled from 2019 to 2021.

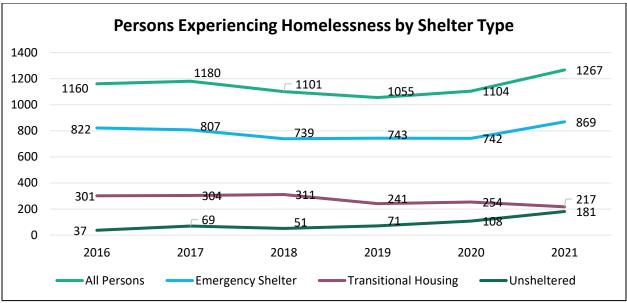
The Rhode Island Coalition to End Homelessness conducts an equity analysis to compare the percentage of people experiencing homelessness by race and ethnicity, relative to their representation in the general population. Black/African Americans are disproportionately represented among people experiencing homelessness. They represent 9% of the general population, but 31% of families and 32% of individuals experiencing homelessness in 2021. Multiracial individuals were also disproportionately represented, although not to the same degree as Black/African Americans.

	Persons Experiencing Homelessness			
Total	1,267			
Household Type				
Individuals	793 (67%)			
Families	474 (37%)			
Individual Characteristics				
Chronic homeless	357 (28%)			
Veterans	97 (8%)			
Young adults	96 (8%)			

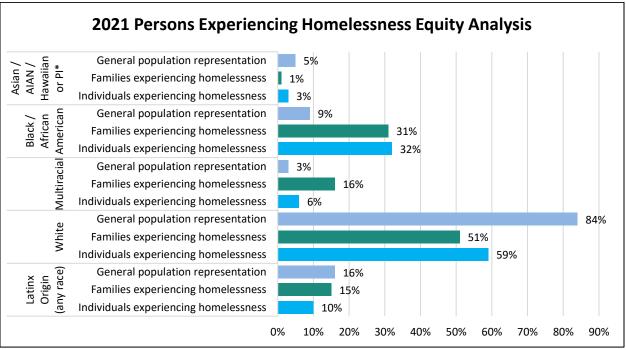
#### 2021 Rhode Island Statewide Point-in-Time Homeless Count

Source: Rhode Island Coalition to End Homelessness





Source: Rhode Island Coalition to End Homelessness



Source: Rhode Island Coalition to End Homelessness

\*American Indian or Alaska Native, Pacific Islander



Homeless children are at greater risk for health and developmental problems and are more likely to experience food insecurity and trauma, among other issues. Within the Landmark PSA, 3.2% of Woonsocket students and 2.5% of Burrillville students experienced homelessness compared to 0.9% across Rhode Island, excluding the core cities.

	Total Student Enrollment	Students Identified as Homeless
Burrillville	2,247	56 (2.5%)
Cumberland	4,668	13 (0.3%)
Glocester	555	<10
Lincoln	3,211	20 (0.6%)
North Smithfield	1,666	0 (0%)
Smithfield	2,382	22 (0.9%)
Woonsocket	6027	194 (3.2%)
Four Core Cities	41,525	669 (1.6%)
Remainder of Rhode Island	91,104	803 (0.9%)

2019-2020 School Year Children Experiencing Homelessness by Landmark PSA School District

Source: 2021 Rhode Island Kids Count Factbook

Related to housing issues, is access to computers and internet. Termed the "digital divide," there is a growing gap between the underprivileged members of society, especially the poor, rural, elderly, and handicapped portion of the population, who do not have access to computers or the internet and the wealthy, middle-class, and young Americans living in urban and suburban areas who have access.

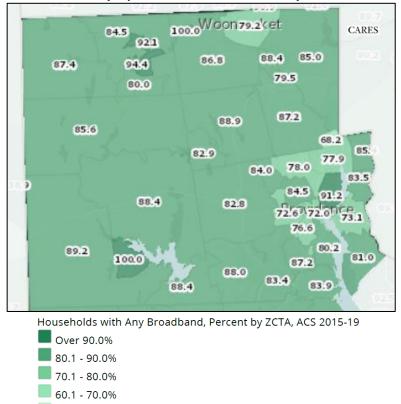
Rhode Island overall has comparable digital access as the nation, and these findings are generally consistent across all counties except Providence. While a similar proportion of Providence County residents have a computer device and/or internet subscription compared to the state, fewer residents own a computer or have broadband internet. This disparity is of particular concern in Woonsocket, where 79.2% of households have broadband internet compared to 85%-100% in surrounding zip codes.

	With Computer Access			With Internet Access	
	Computer Device	Desktop / Laptop	Smartphone	Internet Subscription	Broadband Internet
Bristol County	89.8%	83.4%	78.5%	86.9%	86.2%
Kent County	90.7%	81.7%	78.0%	86.7%	86.5%
Newport County	91.3%	82.3%	77.9%	86.4%	86.1%
Providence County	87.6%	73.8%	76.3%	81.9%	81.6%
Washington County	92.9%	85.8%	80.0%	89.6%	89.4%
Rhode Island	89.1%	77.7%	77.3%	84.2%	84.0%
United States	90.3%	77.8%	79.9%	83.0%	82.7%

#### 2015-2019 Households by Digital Access

Source: US Census Bureau, American Community Survey





# 2015-2019 Households with any Broadband Internet by Zip Code in Providence County

Illuminating Health Inequities

Under 60.1%

Health inequities refer to the systematic differences in opportunities that population groups have to achieve optimal health, which lead to unfair and avoidable differences in health outcomes. Without addressing inequities and supporting initiatives aimed at providing a healthy start, access to opportunity for improvement, and a tangible pathway to a better life, interventions focused only on individual behavior change often do not have enough social and environmental soil to take root and create lasting positive change. By addressing inequities in our communities, we can more effectively work towards a healthier community for all people now and in the future.

# Rhode Island (RI) Life Index

The RI Life Index, begun in 2019 as an initiative of Brown University's School of Public Health and Blue Cross & Blue Shield of Rhode Island, captures Rhode Islander's perceptions of SDoH to help drive community investment in meeting people's basic needs and achieving more equitable health outcomes. The topic areas comprising the RI Life Index focus on community life and quality of community elements, including affordable housing, quality education, and good jobs.

The following graphics illustrate a composite score of health and well-being drivers, as defined by the RI Life Index, as well as summary scores for community life and quality of community elements. Scores are further summarized by core city versus non-core city residents and by race, ethnicity, and age. All



indices indicate a disparity in the perceived quality of SDoH for core city residents and people of color, particularly Black/African Americans. As reported in the 2021 RI Life Index report, "In virtually all topic areas from 2019 through 2020, BIPOC Rhode Islanders living in core cities perceived social factors such as access to affordable housing and cost of living as much greater impediments to health and well-being than have white Rhode Islanders living in non-core areas."

The 2021 RI Life Index findings largely align with those of 2020 and 2019. The most notable trend in 2021 was a significant perceived declined in programs and services for children, including access to quality education, youth activities, and places to raise children. Additionally, there was a significant decrease in perceptions of the availability of services for older adults among core city residents and those identifying as Latinx.



#### **RI Life Index Composite Score**

#### **RI Life Index Summary Perceptions of Community**

#### **QUALITY OF COMMUNITY COMMUNITY LIFE** DEFINITION DEFINITION Quality of community scoring represents Community life scoring represents a RHODE ISLAND RHODE ISLAND a summary of how residents rate summary of how residents perceive the LIFE INDEX LIFE INDEX social and economic aspects of their lived experiences of typical individuals in community, including the following topics: their community, in the following areas: · Access to childcare Employment · Activities for youth Education Employment Convenient locations for nutritious food **Quality of** · Access to affordable housing Access to affordable food Cost of living mmunity Life · Access to healthcare · Availability and quality of services and · Feeling safe at home programs for seniors **QUESTION WORDING:** For each statement, please tell me how likely each is for a typical person living in your community: very likely; QUESTION WORDING For each statement, tell me if that statement is completely descriptive, somewhat descriptive, not very what likely; somewhat unlikely; and very unlikely 1 descriptive, or not descriptive at all of your con LATIN LATINX 66 73 69 71 AGE 55+ 5 55 AGE 55+ 57 56 AGE 55+ <55 <55 BLACK BLACK BLACK 10 0.5 60 60 75 51 70 58 57 AGE 55+ ORE CITY AGE 554 NON-COR <55 WHITE WHITE 66 AGE 55+ 75 AGE 55+ 61 74 59 51 54 59 <55



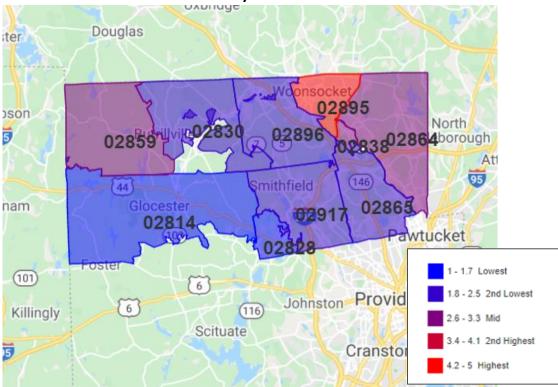
# **Tools for Identifying Disparity at the Community-Level**

The following data visualizations illustrate the potential for health disparities and inequities at the community-level based on social determinants of health barriers. A description of each data visualization tool is provided below:

- Community Need Index (CNI): The CNI scores zip codes on a scale of 1.0 to 5.0, with 1.0 indicating a zip code with the least need and 5.0 indicating a zip code with the most need compared to the US national average of 3.0. The CNI is a zip code-based index of community need calculated nationwide, regarding healthcare. The CNI is weights, indexes and scores zip codes by socioeconomic barriers, including income, culture, education, insurance, and housing.
- Vulnerable Population Footprint: The Vulnerable Population Footprint identifies areas where high concentrations of people living in poverty and people living without a high school diploma overlap. Areas are reported by census tract. Census tracts are statistical subdivisions of a county that have roughly 4,000 inhabitants.
- Area Deprivation Index (ADI): The ADI provides a census block group measure of socioeconomic disadvantage based on income, education, employment, and housing quality. ADI scores are displayed at the block group level on a scale from 1 (least disadvantaged) to 10 (most disadvantaged). A block group is a subdivision of a census tract and typically contains between 250 and 550 housing units.



# Community Need Index

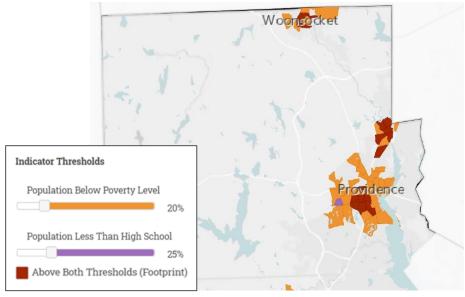


Zip Code	Town	CNI Score	Lowest need
02814	Chepachet	1.6	
02828	Greenville	1.6	
02865	Lincoln	2.0	
02917	Smithfield	2.0	
02896	North Smithfield	2.2	
02830	Harrisville	2.4	
02859	Pascoag	2.8	
02864	Cumberland	3.0	
02838	Manville	3.2	Highest need
02895	Woonsocket	4.4	

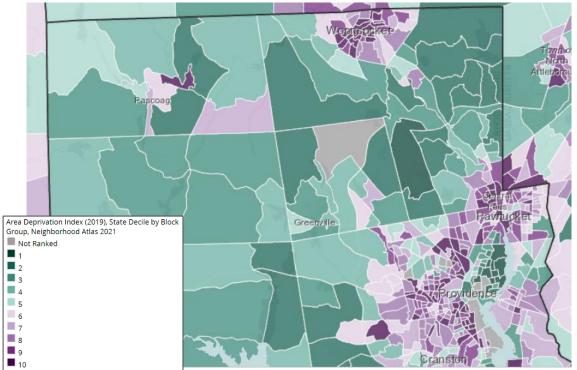
\*Data for Burrillville zip code 02876 are not available.



# **Vulnerable Population Footprint**



#### **Area Deprivation Index**



Woonsocket zip code 02895 has the highest CNI score of 4.4 out of 5.0. The CNI score also correlates with areas of vulnerability and high deprivation. Identified community need within Woonsocket is primarily driven by elevated poverty (particularly among children), potential for language barriers, low educational attainment, and a high uninsured population. Manville zip code 02838 has a slightly



elevated CNI of 3.2. Of note, 25% of the Manville population is comprised of youth under age 18 and 33.7% of youth residing in the zip code live in poverty, a similar proportion as Woonsocket.

Comparing health indicators with population statistics demonstrates the adverse impact of social determinants on populations that historically and continually experience inequities. The areas with the highest CNI scores are also among the most diverse populations in the service area. In this way we can begin to see how inequities perpetuate persistent disparities in health and social outcomes.

2013-2013 Social Determinants of Health by Geography						
	Population in Poverty	Children in Poverty	Primary Language Other Than English	Less than HS Diploma	Without Health Insurance	CNI Score
02876, Burrillville*	36.0%	14.3%	0.0%	0.0%	0.0%	NA
02814, Chepachet	8.5%	14.3%	2.9%	6.5%	3.5%	1.6
02828, Greenville	1.8%	0.0%	5.2%	5.6%	1.8%	1.6
02865, Lincoln	5.6%	6.1%	16.3%	7.9%	1.3%	2.0
02917, Smithfield	4.4%	0.0%	11.4%	7.8%	1.8%	2.0
02896, North Smithfield	4.6%	5.2%	10.6%	8.9%	2.9%	2.2
02830, Harrisville	11.5%	14.0%	6.1%	6.0%	2.7%	2.4
02859, Pascoag	9.0%	12.5%	7.1%	10.2%	8.1%	2.8
02864, Cumberland	6.1%	6.0%	17.9%	9.8%	2.6%	3.0
02838, Manville	16.3%	33.7%	13.3%	8.0%	4.6%	3.2
02895, Woonsocket	21.8%	35.2%	26.7%	18.3%	7.2%	4.4
Rhode Island	12.4%	17.0%	22.4%	11.2%	4.5%	NA
United States	13.4%	18.5%	21.6%	12.0%	8.8%	NA

#### 2015-2019 Social Determinants of Health by Geography

Source: US Census Bureau, American Community Survey

# 2015-2019 Population by Race and Ethnicity

	White	Black or African American	Asian	Some Other Race	Two or More Races	Latinx origin (any race)
02876, Burrillville*	93.5%	0.0%	0.0%	0.0%	6.5%	15.6%
02814, Chepachet	96.4%	0.4%	0.5%	0.4%	2.3%	2.1%
02828, Greenville	94.3%	0.0%	1.9%	1.6%	2.3%	4.5%
02865, Lincoln	90.8%	1.3%	3.9%	1.8%	2.0%	4.9%
02917, Smithfield	91.4%	2.2%	3.6%	0.7%	2.0%	3.2%
02896, North Smithfield	95.3%	2.5%	1.1%	0.2%	0.9%	4.5%
02830, Harrisville	92.8%	0.0%	5.3%	0.0%	1.9%	1.0%
02859, Pascoag	95.4%	0.1%	1.5%	0.7%	2.2%	4.2%
02864, Cumberland	93.4%	1.2%	2.5%	1.6%	1.3%	6.9%
02838, Manville	94.0%	1.9%	1.3%	0.0%	2.7%	0.4%
02895, Woonsocket	73.5%	9.6%	5.8%	4.7%	5.4%	18.8%
Rhode Island	80.5%	6.8%	3.4%	5.5%	3.3%	15.4%
United States	72.5%	12.7%	5.5%	4.9%	3.3%	18.0%

Source: US Census Bureau, American Community Survey

\*The total estimated population for Burrillville is 353 people; reported percentages are based on small counts.



Life expectancy is another measure of adverse social determinants of health. Overall life expectancy in Kent and Providence counties is the lowest in Rhode Island, falling more than two years below Newport County with the highest life expectancy. **Relative to Landmarks's PSA, life expectancy is lower than 75 years in select census tracts comprising Woonsocket.** 

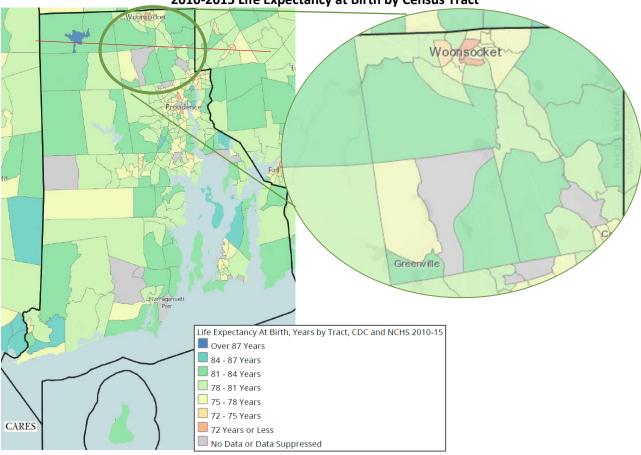
Life expectancy also varies widely by racial and ethnic group. In Rhode Island, life expectancy is highest for Latinx and Asian residents. The state differs from national trends with higher life expectancy among Black/African Americans than Whites. This trend is consistent across all counties except Newport and is largely reflected in mortality data presented in this report. For example, in all counties except Newport, Black/African Americans have a similar or lower all-cause death rate compared to Whites. Nationally, the all-cause death rate is 130 points higher for Black/African Americans than Whites.

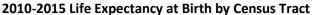
	Overall Life Expectancy	White	Black	Asian	Latinx origin (any race)
Bristol County	81.5	NA	NA	NA	NA
Kent County	79.2	78.7	87.5	93.2	91.1
Newport County	81.6	81.7	77.1	89.5	98.0
Providence County	79.4	78.5	82.8	85.9	91.3
Washington County	81.0	81.0	81.9	89.0	89.9
Rhode Island	79.8	79.4	82.1	87.4	91.7

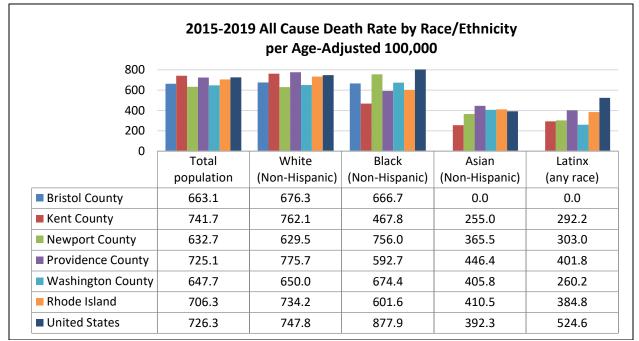
# 2017-2019 Life Expectancy by Race and Ethnicity

Source: National Vital Statistics System









Source: Centers for Disease Control and Prevention



# Our Health Status as a Community

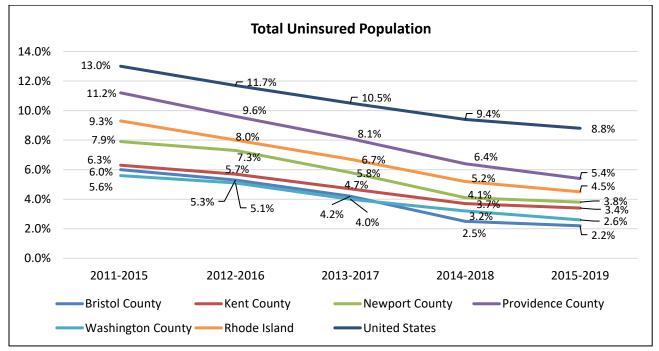
# Access to Healthcare

All Rhode Island counties meet the HP2030 goal of 92.1% insured residents. Rhode Island residents are more likely to be insured than their peers nationally, and the uninsured percentage continues to decline in all counties. When considered by age, it is worth noting an elevated uninsured percentage among young adults age 19-25 and adults age 26-44 in Newport and Providence counties, in comparison to other counties. Approximately 1 in 10 residents in these age groups are uninsured in both counties.

Among individuals with health insurance living in Rhode Island, the majority are covered by employerbased insurance. Medicare and Medicaid coverage rates are also higher in Rhode Island in comparison to the nation. Medicaid coverage is particularly high in Providence County, covering 27% of individuals. Across the state, the percentage of Medicaid insured residents increased in nearly all zip codes.

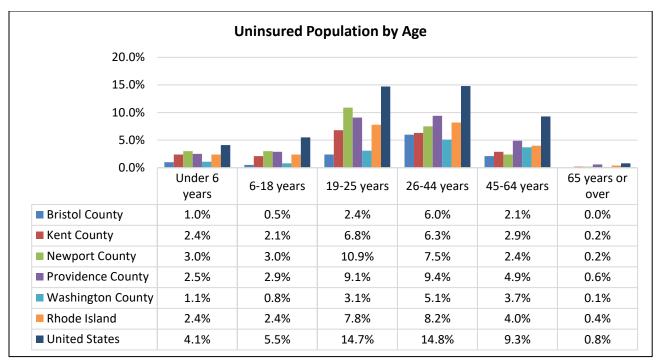
All Landmark PSA zip codes have a lower uninsured percentage than the nation; the percent uninsured declined in all zip codes except 02838, Manville from the 2019 CHNA. In Woonsocket, the percent uninsured declined more than 2 points from the 2019 CHNA; the percent Medicaid insured increased more than 5 points.

Statewide, the uninsured percentage declined for all racial and ethnic groups, but individuals of color continue to be disproportionately uninsured compared to Whites. The uninsured percentage for Black/African Americans (7%) and Latinx (10.7%) is double or more than the White percentage (3.5%).

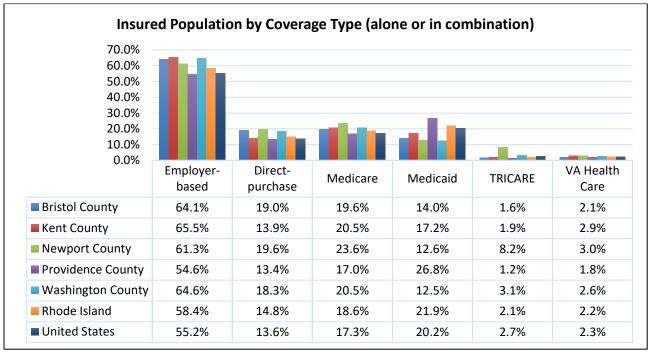


Source: US Census Bureau, American Community Survey





Source: US Census Bureau, American Community Survey



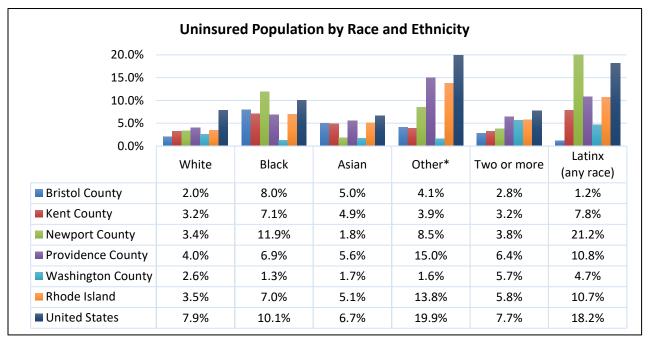
Source: US Census Bureau, American Community Survey



	Unin	sured	Medicaid Insured (Alone or in Combination)		
	2022 CHNA (2015-2019)	2019 CHNA (2012-2016)	2022 CHNA (2015-2019)	2019 CHNA (2012-2016)	
02859, Pascoag	8.1%	9.7%	10.9%	16.9%	
02895, Woonsocket	7.2%	9.4%	36.9%	31.4%	
02838, Manville	4.6%	4.3%	24.7%	26.2%	
02814, Chepachet	3.5%	6.7%	12.2%	9.8%	
02896 North Smithfield	2.9%	4.8%	9.5%	10.7%	
02830, Harrisville	2.7%	5.4%	10.7%	12.3%	
02864, Cumberland	2.6%	3.4%	12.3%	12.2%	
02828, Greenville	1.8%	2.5%	8.1%	7.6%	
02917, Smithfield	1.8%	4.4%	11.1%	7.3%	
02865, Lincoln	1.3%	6.4%	15.4%	12.9%	
02876, Burrillville	0.0%	0.0%	13.6%	16.4%	
Rhode Island	4.5%	8.0%	21.9%	19.9%	
United States	8.8%	11.7%	20.2%	19.1%	

#### Health Insurance Coverage Trends by Landmark PSA Zip Code

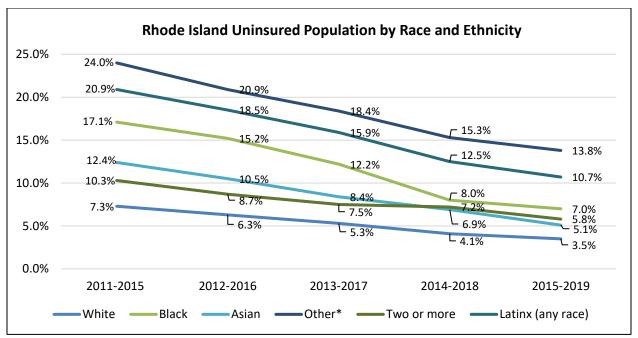
Source: US Census Bureau, American Community Survey



Source: US Census Bureau, American Community Survey

\*Includes American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, and other unidentified race.





Source: US Census Bureau, American Community Survey

\*Includes American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, and other unidentified race.

Availability of healthcare providers also impacts access to care and health outcomes. **Rhode Island overall continues to have more primary care providers than the nation**, as indicated by the rate of primary care physicians per 100,000 population. The distribution of providers is largely consistent across the state, excluding a higher rate in Bristol County, and a similar, higher percentage of adults have received a recent physical checkup in comparison to the nation.

**Rhode Island has fewer dentists than the nation overall, but adults in all counties are more likely to receive regular dental care, likely due in part to higher insured rates.** Despite this overall positive finding, wide differences in dental care access exist across the state, demonstrating the negative impact of social determinants of health. In Bristol County, the rate of dental providers per 100,000 (39.2) is nearly half the statewide rate (65.7), but 77% of Bristol County adults have had recent dental care compared to 72% statewide. In Providence County, the rate of dental providers (60.6) is similar to the statewide rate, but only 67% of adults have had recent dental care. Lower adult dental care access in Kent County (70%) should also be explored.

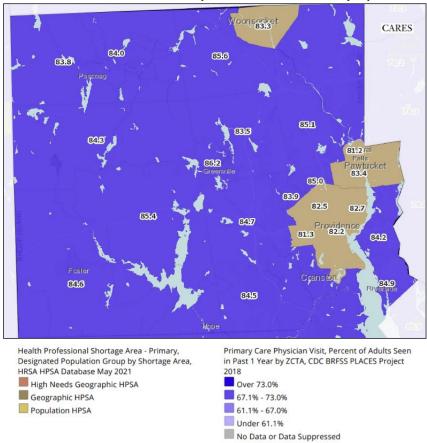
Health Professional Shortage Areas (HPSAs) are measured by the Federal Department of Health and Human Services, and can be geographic areas, populations, or facilities. These designated areas have a shortage of primary or dental providers. Within the Landmark PSA, low-income individuals residing in Woonsocket live in a primary and dental HPSA. While a similar percentage of Woonsocket adults receive regular physical checkups compared to adults in other PSA zip codes, dental care access disparities are stark. Approximately 61% of Woonsocket adults have had recent dental care compared to approximately three-quarters of adults in surrounding zip codes and a statewide average of 72%.



	Primar	y Care	Dental Care		
	Physicians per 100,000 Population (2018)	Routine Checkup within Past Year (2018)*	Dentists per 100,000 Population (2019)	Dental Visit within Past Year (2018)*	
Bristol County	199.4	83.0%	39.2	76.5%	
Kent County	87.3	82.8%	76.7	70.0%	
Newport County	90.9	81.4%	104.8	77.0%	
Providence County	97.9	83.5%	60.6	67.0%	
Washington County	89.6	81.7%	62.1	75.7%	
Rhode Island	99.4	82.4%	65.7	71.8%	
United States	75.8	75.1%	71.4	66.2%	

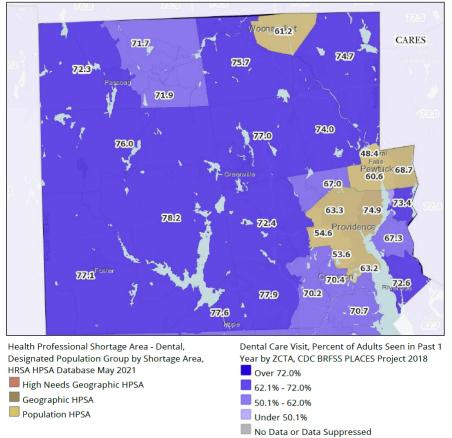
#### Primary and Dental Provider Rates and Adult Healthcare Access

Source: Health Resources and Services Administration & Centers for Disease Control and Prevention, PLACES & BRFSS \*Data are reported as age-adjusted percentages.



# Providence County: Primary Care HPSAs and Adults with a Routine Checkup within the Past Year by Zip Code





# Providence County: Dental Care HPSAs and Adults with a Dental Visit within the Past Year by Zip Code

# Health Risk Factors and Chronic Disease

Routine preventative care contributes to fewer health risk factors and better health status. Consistent with having better overall access to care, Rhode Islanders as a whole are healthier than their peers nationally, with fewer reported health risk factors and lower prevalence and mortality due to chronic disease.

While the state overall is healthier than the nation, health outcomes vary widely across the five counties. Residents of Kent and Providence counties have increased risk factors for chronic disease, including lack of physical activity and tobacco use. These health disparities correlate with existing differences in socioeconomic factors and physical environment, including lower income, higher poverty, and/or lower educational attainment.

Consistent with having increased health risk factors, residents of Kent and Providence counties have a higher prevalence of chronic disease, including obesity, diabetes, heart disease, cancer, and respiratory disease. The following report sections further explore these health issues and their connection to underlying social determinants of health. Social determinants of health not only lead to poorer health



outcomes and the onset of disease, but are also likely to impede disease management and treatment efforts, further exacerbating poorer health outcomes

	Physical Health Not Good for	No Leisure-Time Physical Activity
	14 or More Days in Past 30 Days	in Past 30 Days
Bristol County	10.7%	20.9%
Kent County	11.9%	23.2%
Newport County	10.3%	19.3%
Providence County	13.8%	27.9%
Washington County	11.0%	19.0%
Rhode Island	11.5%	24.5%
United States	11.8%	23.6%

#### 2018 Age-Adjusted Adult (18+) Physical Health Outcomes

Source: Centers for Disease Control and Prevention, PLACES & BRFSS

#### 2018 Age-Adjusted Adults (18+) Who Are Current Smokers\*

	Percentage
Bristol County	14.4%
Kent County	18.5%
Newport County	14.9%
Providence County	17.6%
Washington County	16.2%
Rhode Island	15.2%
United States	15.9%

Source: Centers for Disease Control and Prevention, BRFSS

\*A change in reporting methodology occurred in 2018 providing age-adjusted county percentages. Data prior to 2018 were reported as crude percentages and are not comparable.

#### **Obesity and Diabetes**

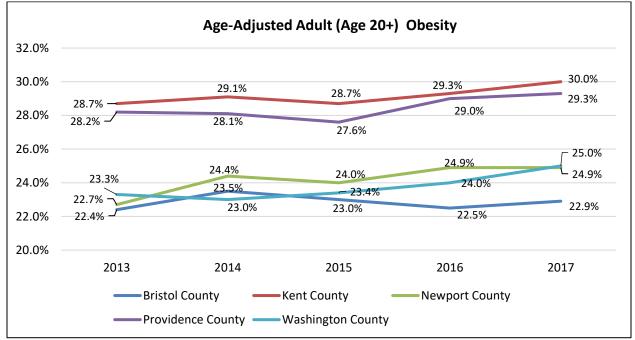
Rhode Island adults overall have historically had lower prevalence of obesity and diabetes compared to national benchmarks, but prevalence largely increased in recent years. From 2013 to 2017, all counties except Bristol saw an increase in adult obesity. Currently, approximately 1 in 4 adults in all counties are considered obese. From 2016 to 2017, all counties except Bristol also saw an increase in adult diabetes.

Kent and Providence counties have the highest prevalence of adult obesity and diabetes in the state, estimated at nearly 30% and 10% respectively in both counties. Adult diabetes prevalence in Kent County increased annually from 2014 to 2017. Kent and Providence counties also have the highest rates of diabetes death in the state and saw the largest death rate increase from 2010 to 2019. **Consistent with national trends, diabetes death rates are disproportionately higher among Black/African American Rhode Islanders compared to other racial and ethnic groups.** This disparity also holds true in Providence County; racial and ethnic data are not reported for other counties due to unreliable rates.



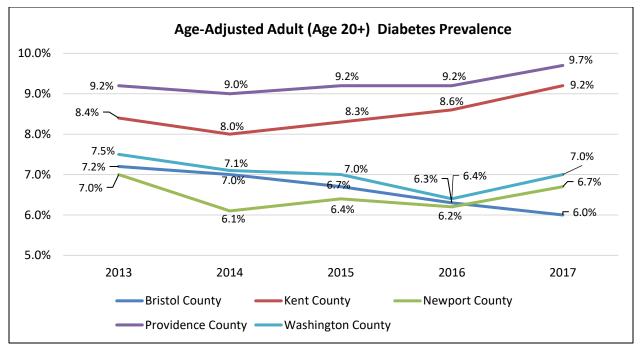
A change in data methodology occurred in 2018 providing obesity and diabetes prevalence for adults age 18 or older versus age 20 or older at the county-level. Of note, based on the new methodology, the prevalence of adult diabetes in Providence County is estimated at 10.7%, a 1-point increase from previous reporting, and a potential indicator of higher diabetes prevalence among young adults.

**Consistent with social determinants of health barriers captured by the area deprivation index (ADI), communities with a higher ADI have a higher prevalence of both obesity and diabetes.** In Woonsocket, 30.8% of adults have obesity and 12.2% have diabetes compared to a statewide average of 27.5% and 9.6% respectively.



Source: Centers for Disease Control and Prevention, US Diabetes Surveillance System & BRFSS \*State and national data are reported as a percentage of adults age 18+ and are excluded.





Source: Centers for Disease Control and Prevention, US Diabetes Surveillance System \*State and national data are reported as a percentage of adults age 18+ and are excluded.

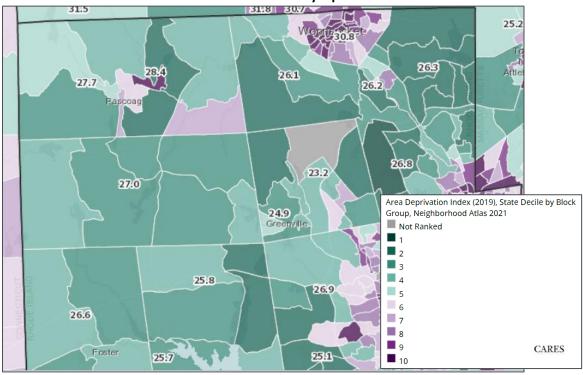
#### 2018 Age-Adjusted Adult (Age 18+) Health Outcome Indicators\*

	Obese	Diabetes Diagnosis
Bristol County	24.8%	7.4%
Kent County	29.6%	9.0%
Newport County	26.5%	7.4%
Providence County	29.6%	10.7%
Washington County	25.6%	7.7%
Rhode Island	27.5%	9.6%
United States	30.9%	10.0%

Source: Centers for Disease Control and Prevention, PLACES & BRFSS

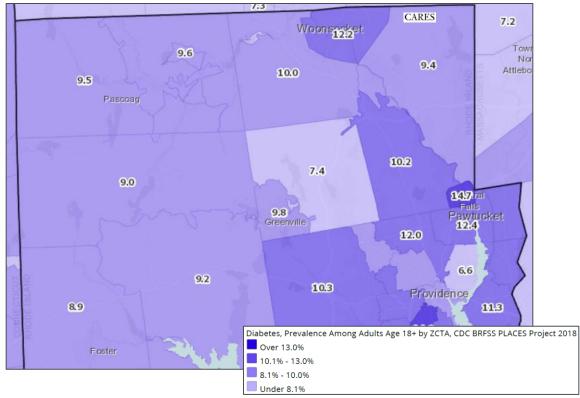
\*Data are not comparable to previously trended indicators due to differences in age composition (age 18+ vs. age 20+) at the county-level.



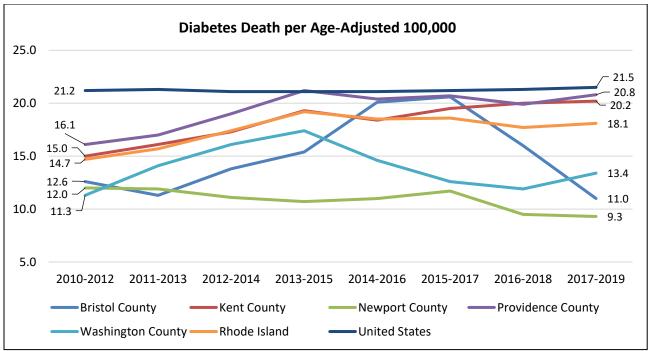


# Providence County: Area Deprivation Index by Block Group and Percent of Obese Adults by Zip Code

Providence County: Adult Diabetes by Zip Code







# 2017-2019 Diabetes Death Rate per Age-Adjusted 100,000, by Race and Ethnicity\*

	Providence County	Rhode Island	United States
Total Population	20.8	18.1	21.5
White, Non-Hispanic	20.2	17.3	18.9
Black or African American, Non-Hispanic	29.8	29.0	38.5
Asian, Non-Hispanic	NA	NA	16.5
Latinx origin (any race)	17.6	17.9	25.2

Source: Centers for Disease Control and Prevention

\*Data are not reportable for other counties due to low death counts.

#### Heart Disease

Heart disease is the leading cause of death nationally. High blood pressure and cholesterol are two of the primary causes of heart disease and can be preventable. Across Rhode Island counties, more than 1 in 4 adults have high blood pressure and/or high cholesterol, a consistent proportion as the nation overall. Kent and Providence counties have the highest proportion of adults with high blood pressure and/or high cholesterol, and the highest death rates due to heart disease.

Rhode Island overall has historically had a lower heart disease death rate than the nation, although the rates are more similar now due to an increase in the statewide death rate from 2016 to 2019. At the county-level, heart disease death rates have been variable over the past decade with the exception of Newport County, which saw a 40-point decline from 2010 to 2019. Rhode Island and Providence County differ from the nation with a higher heart disease death rate among Whites than Black/African

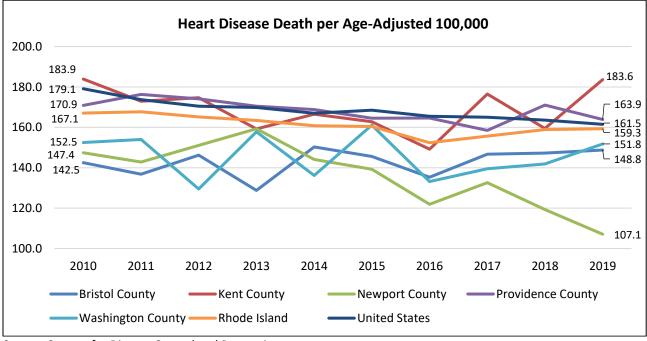


Americans; racial and ethnic data are not reported for other Rhode Island counties due to unreliable rates.

2017 Age-Aujusted Addit (Age 1017 heart Disease hisk factors frevalence				
	Adults with High Blood Pressure	Adults with High Cholesterol		
Bristol County	25.6%	26.8%		
Kent County	30.6%	27.4%		
Newport County	26.4%	25.7%		
Providence County	32.0%	29.0%		
Washington County	27.1%	27.4%		
Rhode Island	29.9%	28.9%		
United States	29.7%	29.3%		

# 2017 Age-Adjusted Adult (Age 18+) Heart Disease Risk Factors Prevalence

Source: Centers for Disease Control and Prevention, PLACES & BRFSS



Source: Centers for Disease Control and Prevention

2017-2019 Heart Disease Dea	ath Rate per Age-Adjusted	100,000, by Race and Ethnicity*
-----------------------------	---------------------------	---------------------------------

	Providence County	Rhode Island	United States	
Total Population	164.4	158.0	163.4	
White, Non-Hispanic	178.7	165.3	167.4	
Black or African American, Non-Hispanic	123.1	127.0	207.6	
Asian, Non-Hispanic	83.1	81.5	84.3	
Latinx origin (any race)	67.6	64.5	112.5	

Source: Centers for Disease Control and Prevention

\*Data are not reportable for other counties due to low death counts.



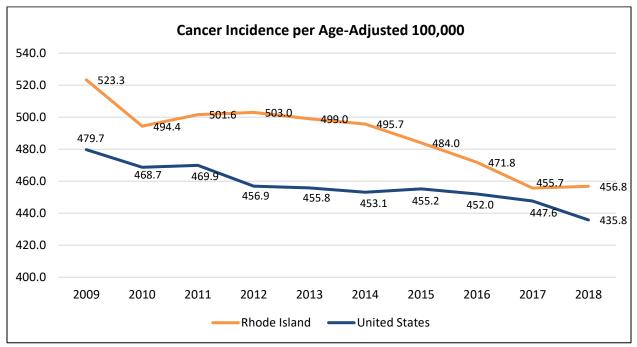
# <u>Cancer</u>

Cancer is the second leading cause of death nationally. Approximately 7% of adults in Rhode Island counties have ever been diagnosed with cancer compared to 6% nationwide. As of 2018, the statewide cancer incidence rate was approximately 20 points higher than the national rate. **Despite having higher cancer incidence, the statewide cancer death rate is similar to the national rate. This finding is likely reflective of better cancer screening practices in Rhode Island and earlier detection and treatment.** With few exceptions, Rhode Island counties report a higher percentage of adults who receive cancer screenings in comparison to the nation.

	Adults with Cancer (ever, excluding skin)	the Past 2 Years Screen		Colon Cancer Screening (50-74 years)
Bristol County	6.6%	76.6%	88.0%	73.6%
Kent County	6.7%	78.3%	87.9%	72.9%
Newport County	6.8%	76.7%	88.8%	74.4%
Providence County	6.3%	78.8%	86.8%	68.1%
Washington County	7.0%	75.1%	87.5%	70.5%
United States	6.0%	77.8%	85.5%	65.0%

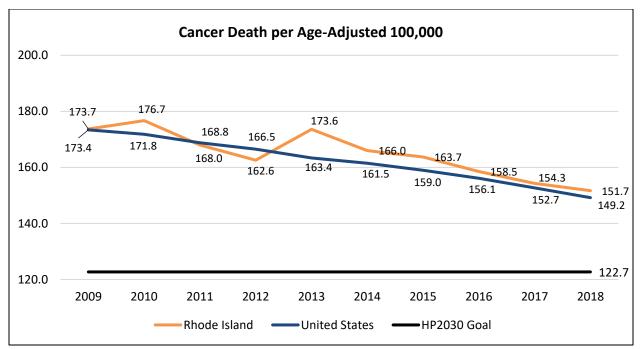
#### 2018 Age-Adjusted Adult Cancer Prevalence and Screening Practices

Source: Centers for Disease Control and Prevention, PLACES & BRFSS



Source: Centers for Disease Control and Prevention, United States Cancer Statistics: Data Visualizations





Source: Centers for Disease Control and Prevention, United States Cancer Statistics: Data Visualizations

No Rhode Island counties meet the HP2030 overall cancer death rate goal of 122.7 per 100,000. Based on 2014-2018 aggregate data, Bristol County has the lowest overall death rate at 140.1. Of note, Bristol County has a higher incidence of common cancer types, including female breast and prostate cancer, but the death rates for these cancers meet HP2030 goals, suggesting cancers are being identified earlier and treated effectively in the county.

Kent County residents experience notable cancer disparities in comparison to other Rhode Island residents. The county has the highest cancer incidence and death rates in the state and exceeds national rates. Analysis of common cancer types suggests that lung cancer is a top contributor to cancer morbidity and mortality in Kent County and is likely a result of both higher smoking rates among adults and potential exposure to radon. Prostate cancer death is also elevated in Kent County compared to other counties and should be further explored.

Rhode Island overall has higher reported lung cancer incidence and death rates than the nation. A potential contributor is the prevalence of radon in homes. Radon is a colorless and odorless gas produced from the decay of radium in rocks, soil, and water. It is the second leading cause of lung cancer. The Environmental Protection Agency (EPA) recommends action to mitigate radon when indoor testing shows levels of 4.0 pCi/L or higher. **As of 2016, it was estimated that 1 in 4 homes in Rhode Island had radon levels at or above 4.0 pCi/L compared to the national average of 1 in 15 homes.** 

The EPA distinguishes counties by radon zones, with Zone 1 indicating counties with predicted average indoor radon screening levels greater than 4.0 pCi/L. Within Rhode Island, Kent and Washington counties are designated as Zone 1, and both counties have elevated rates of lung cancer incidence and death, although Kent County rates far exceed Washington County rates.



**Providence County has the second highest rates of lung cancer incidence and death in the state, behind Kent County.** The county has a higher percentage of smoking adults and is designated as Zone 2 by the EPA for radon levels. Consistent with other morbidity and mortality statistics, Providence County reports the most robust cancer data by race and ethnicity. Available racial and ethnic data indicates that Whites experience higher cancer burden in Rhode Island.

Newport County has lower overall cancer incidence and death rates than the state and nation, as well lower incidence and death rates for all common cancer types except female breast. **The Newport County female breast cancer incidence rate is the lowest in the state, but the death rate is the highest in the state and exceeds the national death rate.** Newport County women are slightly less likely to receive mammogram screenings (76.7%) as women nationwide (77.8%); other potential access to care barriers should also be explored.

2014 2010/	14-2010 Age-Adjusted cancel meldence and Death per 100,000 ropulation by Race and Ethnicity						
	Bristol County	Kent County	Newport County	Providence County	Washington County	Rhode Island	United States
Cancer Incidence							
Total Population	470.4	507.4	460.0	459.4	496.2	472.8	449.0
White	470.6	506.5	461.9	461.4	493.0	474.1	451.3
Black or African American	NA	332.5	378.6	333.7	NA	338.4	445.4
Asian	NA	NA	NA	271.6	392.6	276.8	291.5
Latinx origin (any race)	NA	353.0	NA	402.8	NA	397.2	345.5
Cancer Death							-
Total Population	140.1	171.2	150.9	158.4	157.8	158.8	155.6
White	141.1	174.3	152.8	164.6	157.5	162.8	156.4
Black or African American	NA	NA	NA	103.3	NA	106.6	177.6
Asian	NA	NA	NA	100.4	NA	92.9	97.4
Latinx origin (any race)	NA	NA	NA	82.8	NA	81.0	111.3

#### 2014-2018 Age-Adjusted Cancer Incidence and Death per 100,000 Population by Race and Ethnicity

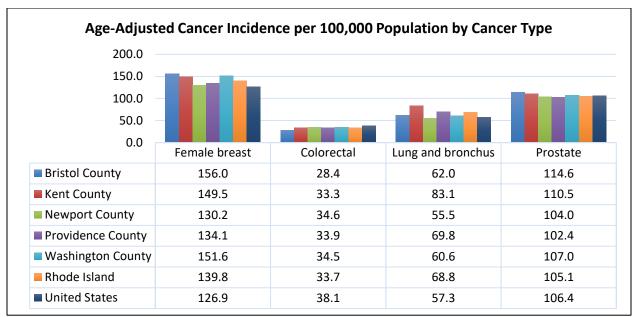
Source: Centers for Disease Control and Prevention, United States Cancer Statistics: Data Visualizations

	and Estimated Levels by County
	Radon Zone
Bristol County	Zone 3 (<2 pCi/L)
Kent County	Zone 1 (>4 pCi/L)
Newport County	Zone 2 (2-4 pCi/L
Providence County	Zone 2 (2-4 pCi/L)
Washington County	Zone 1 (> 4 pCi/L)

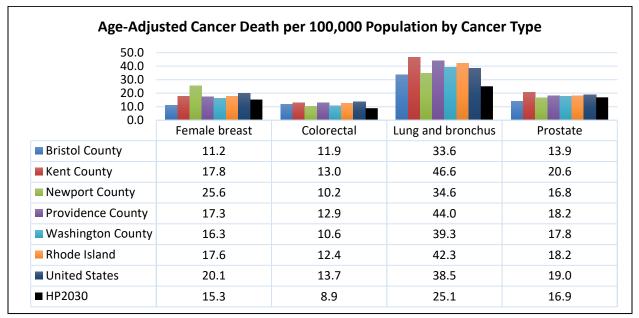
#### 2021 Radon Zones and Estimated Levels by County

Source: Environmental Protection Agency





Source: Centers for Disease Control and Prevention, United States Cancer Statistics: Data Visualizations



Source: Centers for Disease Control and Prevention, United States Cancer Statistics: Data Visualizations

#### **Respiratory Disease**

Chronic lower respiratory disease (CLRD) includes several chronic conditions of the respiratory tract, including asthma and chronic obstructive pulmonary disease (COPD). All Rhode Island counties have a higher prevalence of adult asthma compared to the national benchmark. This disparity is due in part to Rhode Island's older housing stock, which is more likely to contain hazardous materials that can trigger asthma. Rhode Island is tied with Massachusetts for the third oldest housing stock in the nation.



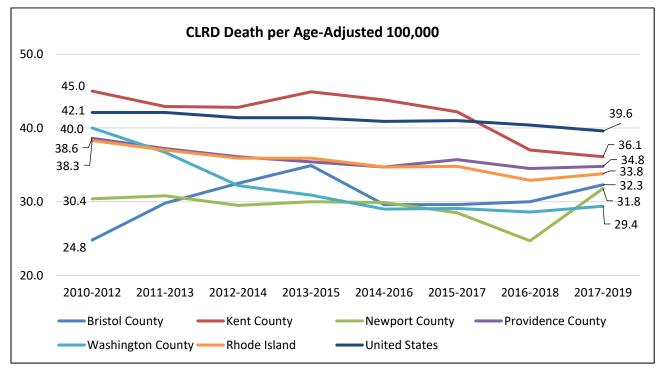
Approximately 73.5% of housing units in Rhode Island were built before 1980 compared to 53.6% nationwide. Providence County has the oldest housing stock in Rhode Island, and the highest prevalence of adult asthma. Adult COPD prevalence across Rhode Island is consistent with the nation.

The CLRD death rate has generally been declining in Rhode Island and across the nation. All Rhode Island counties have a lower CLRD death rate than the nation; Kent and Providence are the only counties to exceed the statewide death rate. Consistent with the nation, CLRD death rates are historically higher among Whites than other racial and ethnic groups.

	Adults with Current Asthma Diagnosis	Adults with COPD
Bristol County	10.3%	5.7%
Kent County	11.3%	6.4%
Newport County	10.4%	5.6%
Providence County	11.8%	6.9%
Washington County	11.0%	6.1%
Rhode Island	11.9%	6.2%
United States	9.1%	6.2%

#### 2018 Age-Adjusted Adult (Age 18+) Respiratory Disease Prevalence

Source: Centers for Disease Control and Prevention, PLACES & BRFSS



Source: Centers for Disease Control and Prevention



	Rhode Island	United States
Total Population	33.8	39.6
White, Non-Hispanic	36.6	45.0
Black or African American, Non-Hispanic	13.5	29.8
Asian, Non-Hispanic	NA	11.3
Latinx origin (any race)	8.3	16.8

#### 2017-2019 CLRD Death Rate per Age-Adjusted 100,000, by Race and Ethnicity\*

Source: Centers for Disease Control and Prevention

\*Data are not reportable by county due to low death counts.

# **Aging Population**

Rhode Island is an aging community, with a growing proportion of older adults that exceeds national averages. As of 2015-2019, 30.7% of Rhode Island residents were age 55 or older compared to 28.5% nationwide. Among older adults age 65 or older, the proportion age 65-74 saw the greatest increase in recent years, largely due to the entry of the baby boomer generation.

According to the 2020 Rhode Island Healthy Aging Data Report, **the state saw an increase in the number of older adults with multiple chronic conditions and a decline in those with no chronic conditions from 2016, suggesting increased overall morbidity.** Consistent with this finding, statewide inpatient hospital stays among older adults age 65 or older increased from 2016 to 2020.

According to Centers for Medicare & Medicaid Services data, **74.4% of Rhode Island Medicare beneficiaries age 65 or older have two or more chronic conditions compared to 70.3% nationwide**. The proportion of Medicare beneficiaries with multiple chronic conditions is highest in Kent County (76.8%), followed by Providence County (75.1%). Kent and Providence counties also have the highest proportion of beneficiaries with six or more conditions, affecting 1 in 5 individuals.

**Poorer health among older adults may be due in part to declining economic situation.** As reported in earlier report sections, the economic situation of older adults in Rhode Island worsened even before the impact of COVID-19, including higher poverty and receipt of food benefits and more older adults engaged in the workforce. Kent and Providence counties have the highest proportion of older adults living in poverty at approximately 1 in 10; Kent County older adult poverty is increasing.

0					
	0 to 1 Condition	2 to 3 Conditions	4 to 5 Conditions	6 or More Conditions	
Bristol County	26.7%	32.6%	24.0%	16.8%	
Kent County	23.2%	31.6%	24.9%	20.4%	
Newport County	28.4%	33.1%	22.2%	16.3%	
Providence County	24.9%	30.5%	24.9%	19.7%	
Washington County	27.3%	34.6%	23.0%	15.0%	
Rhode Island	25.6%	31.9%	24.2%	18.4%	
United States	29.7%	29.4%	22.8%	18.2%	

#### 2018 Chronic Condition Comorbidities among Medicare Beneficiaries 65 Years or Older

Source: Centers for Medicare & Medicaid Services



While chronic conditions are on the rise among Rhode Island older adults, medical utilization patterns and population statistics suggest improving care access and lower disability. The rate of physician visits per year increased from 2016 to 2020, while prescription refills and durable medical equipment claims decreased. According to 2015-2019 data, the proportion of older adults with a reported disability is similar to or lower than the national average in all Rhode Island counties. Kent and Providence counties report the highest proportion of disabled older adults at approximately one-third of individuals.

	2016	2020	Change from 2020 to 2016
Dually eligible for Medicare and Medicaid	14.6%	13.8%	-0.8%
Physician visits per year	8.0	8.4	0.4
Inpatient hospital stays per 1,000 people 65+ per year	284.1	295.2	11.1
Part D monthly prescription fills per person per year	2.0	1.7	-0.3
Durable medical equipment claims per year	55.8	54.2	-1.6

Rhode Island Statewide Older Adult Healthcare Utilization, 2016 vs. 2020

Source: Tufts Health Plan Foundation, Rhode Island Healthy Aging Data Report

2013 2013 Older Adder Ophildion by Disability Status							
	Bristol	Kent	Newport	Providence	Washington	Rhode	United
	County	County	County	County	County	Island	States
Total population	10.2%	14.7%	12.2%	13.8%	11.4%	13.4%	12.6%
65 years or older	27.0%	34.1%	25.9%	34.4%	27.9%	32.2%	34.5%
Ambulatory	15.4%	19.7%	15.3%	23.4%	13.8%	20.1%	21.9%
Hearing	12.0%	15.9%	11.6%	12.8%	14.1%	13.3%	14.3%
Independent living	11.6%	13.9%	10.7%	16.2%	8.8%	13.9%	14.2%
Cognitive	6.1%	8.3%	6.5%	9.4%	5.6%	8.2%	8.6%
Vision	4.2%	5.6%	3.4%	5.7%	4.4%	5.2%	6.3%

# 2015-2019 Older Adult Population by Disability Status

Source: US Census Bureau, American Community Survey

Across Rhode Island, there is opportunity to leverage increasing physician visits among older adults to ensure receipt of preventive services, such as recommended vaccines and cancer screenings. Across all counties, about one-quarter of older adult men and women are up to date on preventive services, a lower proportion than the nation overall. Older adult men residing in Providence County are at increased risk, with only 19.4% up to date on preventive services.



	Older Adult Men Who Are Up To Date On Clinical Preventive Services	Older Adult Women Who Are Up To Date On Clinical Preventive Services
Bristol County	27.2%	24.3%
Kent County	24.4%	24.7%
Newport County	23.6%	22.7%
Providence County	19.4%	24.3%
Washington County	26.3%	25.4%
United States	32.7%	28.1%

#### 2018 Age-Adjusted Older Adult (65+) Clinical Preventive Services\*

Source: Centers for Disease Control and Prevention, PLACES & BRFSS

\*Includes a flu vaccine in the past year, pneumococcal pneumonia vaccine ever, colorectal cancer screening, and mammogram in the past two years (women).

Older adult healthcare utilization and costs increase significantly with a higher number of reported chronic diseases. Tracking these indicators helps plan allocation of resources to best anticipate and serve need in the community. Rhode Island overall has lower per capita spending among older adult Medicare beneficiaries compared to the nation, regardless of the number of chronic conditions, but spending is still notable. Among beneficiaries with six or more conditions, per capita spending averages \$26,000 annually. Of note, healthcare spending is generally higher in Newport and Washington counties.

### 2018 Per Capita Standardized Spending\* for Medicare Beneficiaries Age 65 Years or Older

	0 to 1 Condition	2 to 3 Conditions	4 to 5 Conditions	6 or More Conditions
Bristol County	\$1,970	\$4,994	\$9,977	\$25,651
Kent County	\$2,000	\$4,848	\$9,432	\$26,530
Newport County	\$2,188	\$5,401	\$10,528	\$28,181
Providence County	\$1,684	\$4,761	\$9,435	\$26,354
Washington County	\$2,218	\$5,310	\$10,360	\$26,627
Rhode Island	\$1,923	\$4,980	\$9,749	\$26,598
United States	\$1,944	\$5,502	\$10,509	\$29,045

Source: Centers for Medicare & Medicaid Services

\*Standardized spending takes into account payment factors that are unrelated to the care provided (e.g., geographic variation in Medicare payment amounts).



	0 to 1 Condition	2 to 3 Conditions	4 to 5 Conditions	6 or More Conditions
Bristol County	112.7	223.8	480.4	1,492.6
Kent County	106.6	276.3	602.8	1,800.9
Newport County	140.0	342.7	690.5	1,876.7
Providence County	101.9	263.7	572.6	1,748.9
Washington County	121.5	304.6	662.2	1,800.5
Rhode Island	112.4	282.0	601.9	1,767.9
United States	122.6	318.4	621.1	1,719.1

#### 2018 ED Visits per 1,000 Medicare Beneficiaries Age 65 Years or Older

Source: Centers for Medicare & Medicaid Services

Nationally, the most common chronic conditions among older adult Medicare beneficiaries, in order of prevalence, are hypertension, high cholesterol, and arthritis. This finding is consistent across Rhode Island and its five counties. In comparison to the nation, **Rhode Island older adult Medicare beneficiaries have a higher prevalence of all reported chronic conditions, except Alzheimer's disease, chronic kidney disease, diabetes, heart failure, and ischemic heart disease.** Higher statewide disease prevalence is largely due to disparities in Kent and Providence counties. Consistent with total population statistics, nearly all Rhode Island counties have a higher prevalence of cancer among older adults.

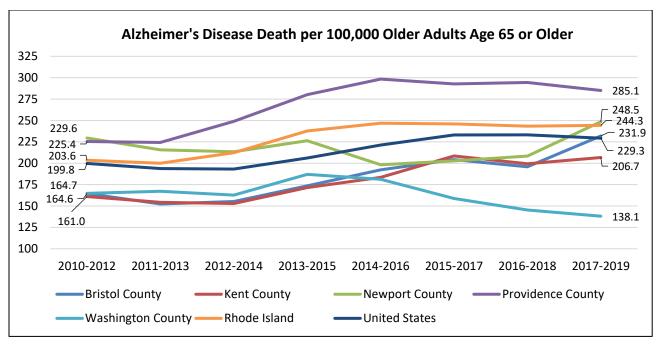
The death rate from Alzheimer's disease is higher in Rhode Island than the nation, largely due to a death rate in Providence County that exceeds the national death rate by more than 50 points. **The Alzheimer's disease death rate is generally increasing in all Rhode Island counties except Washington**. Washington County reports a lower prevalence of Alzheimer's disease among older adults and a declining death rate. Bristol County reports the highest prevalence of Alzheimer's disease in the state and saw the highest death rate increase over the past decade.

2018 Chronic Condition rievalence among Medicare Denenciaries Age 05 Tears of Order					-1		
	Bristol	Kent	Newport	Providence	Washington	Rhode	United
	County	County	County	County	County	Island	States
Alzheimer's Disease	12.0%	10.9%	10.1%	11.6%	9.4%	10.9%	11.9%
Arthritis	34.4%	36.9%	32.8%	35.2%	36.7%	35.4%	34.6%
Asthma	6.4%	6.0%	6.1%	6.8%	5.9%	6.4%	4.5%
Cancer	11.2%	11.3%	11.4%	10.8%	11.2%	11.1%	9.3%
Chronic Kidney Disease	21.2%	25.6%	19.5%	25.7%	19.9%	23.6%	24.9%
COPD	9.8%	12.3%	11.2%	11.9%	10.7%	11.5%	11.4%
Depression	17.8%	20.2%	18.2%	19.4%	16.8%	18.8%	16.0%
Diabetes	22.9%	26.4%	21.2%	27.4%	20.8%	25.0%	27.1%
Heart Failure	12.1%	14.3%	12.1%	14.4%	11.8%	13.5%	14.6%
High Cholesterol	56.5%	59.4%	55.2%	57.8%	53.5%	56.9%	50.5%
Hypertension	61.9%	66.0%	60.3%	64.6%	61.2%	63.6%	59.8%
Ischemic Heart Disease	26.7%	31.5%	24.8%	28.3%	25.1%	27.8%	28.6%
Stroke	4.3%	4.1%	4.0%	4.2%	3.7%	4.1%	3.9%

#### 2018 Chronic Condition Prevalence among Medicare Beneficiaries Age 65 Years or Older

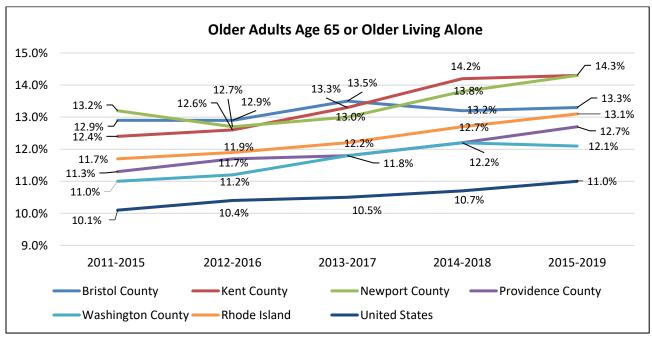
Source: Centers for Medicare & Medicaid Services





Source: Centers for Disease Control and Prevention

In older adults, chronic illness often leads to diminished quality of life and increased social isolation. Social isolation may also impede effective chronic illness management and accelerate the negative impact of chronic diseases. One indicator of social isolation among older adults is the percentage of adults ages 65 years or older who live alone. **Rhode Island older adults are more likely to live alone when compared to their peers across the US.** This trend holds true across all counties, where approximately 12-14% of older adults live alone compared to 11% nationwide.



Source: US Census Bureau, American Community Survey



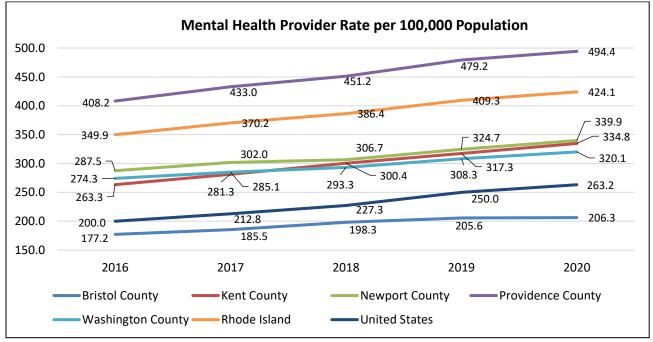
# Mental Health and Substance Use Disorder

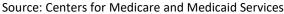
### Access to Services

Rhode Island overall has better access to mental health providers than the nation, as indicated by the rate of mental health providers per 100,000 population. As of 2020, the rate of mental health providers across Rhode Island exceeded the national rate by more than 160 points. While providers are concentrated in Providence County, Bristol County is the only county to have a lower rate of providers than the nation.

Note: The mental health provider rate includes psychiatrists, psychologists, licensed clinical social workers, counselors, and mental health providers that treat alcohol and other drug abuse, among others. It does not account for potential shortages in specific provider types.

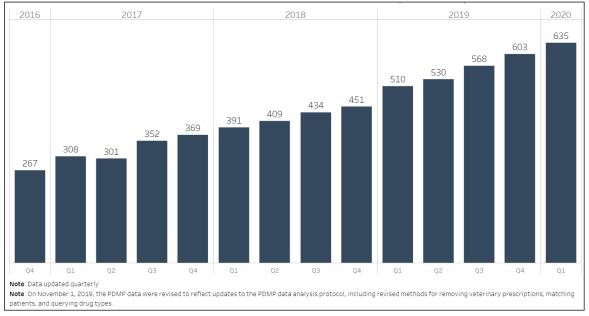
Despite higher and increasing mental health provider availability statewide, much of Rhode Island is a mental health HPSA and mental healthcare is not accessible to all residents. All of Newport and Washington counties are designated mental health HPSAs. Providence County is a HPSA for low-income individuals, despite having a mental health provider rate that is nearly double the national rate.





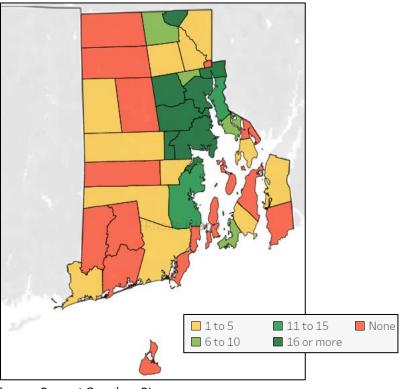
Rhode Island also saw a significant increase in the number of practitioners able to prescribe buprenorphine, from 267 at the end of 2016 to 635 in Q1 2020. Buprenorphine is the first medicationassisted treatment (MAT) for opioid use disorder that can be prescribed or dispensed in physician offices. MAT waivered providers and opioid treatment programs, including buprenorphine, are available across Rhode Island, but the largest concentration of providers is in and around Providence and Woonsocket.





# 2016-2020 Number of Trained and DATA-Waivered Practitioners for Buprenorphine

Source: Prevent Overdose RI

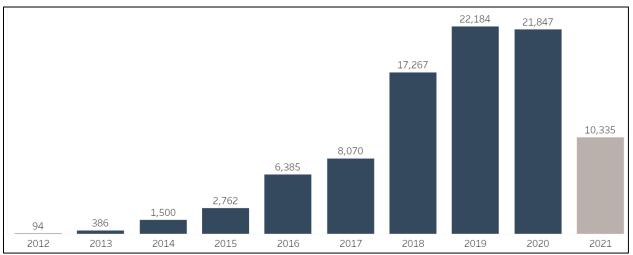


# MAT Providers and Programs by City or Town

Source: Prevent Overdose RI



Naloxone is an emergency use medicine that rapidly reverses an opioid overdose. Rhode Island has prioritized making naloxone kits available across the community, partnering with hospitals, pharmacies, and other community partners. In 2020, 21,847 naloxone kits were distributed in Rhode Island, a nearly 15-fold increase from 2014. The increase in distribution reflects both greater access and greater demand for Naloxone in the community.





Source: Prevent Overdose RI

In 2019, the Rhode Island Executive Office of Health and Human Services conducted a review of the behavioral health system in the state. The resulting Rhode Island Behavioral Health System Review included both quantitative and qualitative components, to determine gaps in services and access in the state. Key findings from the system review are highlighted below:

- Rhode Island has several behavioral health system capacity challenges to address including both gaps in key service lines and a shortage of linguistically and culturally competent providers, that together disproportionately negatively impact communities of color.
- Underlying drivers that perpetuate the challenges described above include:
  - Fragmentation in accountability both across state agencies and across providers, insufficient linkages between services to support care coordination and transitions of care, and a lack of integration between behavioral health and medical care.
  - Payments for behavioral health services largely rely on a fee-for-service chassis that does not account for quality or outcomes.
  - Lack of sufficiently modern infrastructure hinders providers of behavioral health services in Rhode Island, as well as creates barriers for Rhode Island to effectively and efficiently monitor the behavioral health system on an ongoing basis.

The following diagrams summarize identified gaps and shortages in the behavioral health continuum of care for children, adults, and older adults. Gaps indicate there was no evidence of the service existing



in Rhode Island. Shortages indicate that while some level of service exists it is not adequate to meet the need of Rhode Islanders with behavioral health conditions.

Mental Health Services		Substance Use Services		
Status Service Type		Status	Service Type	
Gaps	Mobile Crisis Treatment	Gaps	Mobile Medication Assisted Treatment	
Significant Shortages	Community Step Down Hospital Diversion State Sponsored Institutional Services Nursing Home Residential	Significant Shortages	Indicated Prevention Correctional SUD Transitional Services Recovery Housing Residential–High & Low Intensity*	
Moderate Shortages	Non-CMHC Outpatient Providers Intensive Outpatient Programs Dual Diagnosis Treatment Crisis/Emergency Care Inpatient Treatment Home Care Homeless Outreach	Moderate Shortages	Intensive Outpatient Services Supported Employment	
Slight Shortage	Licensed Community Mental Health Center tied to accessibility statewide			

### Behavioral Health Service Gaps and Shortages for Adults and Older Adults

Source: 2021 Rhode Island Behavioral Health System Review

\*Between Aug-Dec. 2020, between 55-108 people were waiting for residential services.

Status	Service Type		
	Community Step Down		
Gaps	Transition Age Youth Services		
	Residential Treatment for Eating Disorders*		
	Universal BH Prevention Services		
	Hospital Diversion		
Significant Shortages	State Sponsored Institutional Services		
	Nursing Home		
	Residential/Housing*		
Madamata Chastanaa	SUD Treatment		
	Enhanced Outpatient Services		
Moderate Shortages	Home and Community Based Services		
	Mobile Crisis		
Slight Shortage	Emergency Services		

# Behavioral Health Service Gaps and Shortages for Children

Source: 2021 Rhode Island Behavioral Health System Review

\*Between May-Dec. 2020, between 5-31 children and adolescents were waiting for residential services.



## Mental Health Incidence and Prevalence

More than 1 in 10 adults across Rhode Island and the nation report having poor mental health on 14 or more days during a 30-day period. This measure is an indicator of persistent, and likely severe, mental health issues, which may impact quality of life and overall wellness. A similar percentage of adults report frequent mental distress across Rhode Island counties, with slightly higher percentages in Kent and Providence counties.

	Average Mentally Unhealthy Days per Month	Frequent Mental Distress: 14 or More Poor Mental Health Days per Month
Bristol County	4.2	12.8%
Kent County	4.8	14.1%
Newport County	4.0	12.3%
Providence County	4.4	13.9%
Washington County	4.2	12.8%
Rhode Island	4.2	12.5%
United States	4.1	12.9%

#### 2018 Age-Adjusted Adult (Age 18+) Poor Mental Health Days

Source: Centers for Disease Control and Prevention, BRFSS

The following tables show statewide hospitalization and ED usage for a primary diagnosis of mental health condition among Rhode Island residents. Data are trended from 2016 to second quarter (Q2) 2021. **The data demonstrate that while overall hospitalizations and ED visits were declining from 2016 to 2019, significant declines were seen in 2020.** From 2019 to 2020, the number of ED visits and hospitalizations due to a primary diagnosis of mental health condition decreased by 5,116 and 1,442 respectively. This finding is likely due in part to delayed or avoided care during the COVID-19 pandemic. Data for the first half of 2021 suggest similar trends as 2020.

Provided percentages by gender, race/ethnicity, and age reflect the proportion of individuals with a hospitalization or ED visit due to a primary diagnosis of mental health condition relative to total hospitalizations or ED visits for that demographic. When viewed by gender and race and ethnicity, the proportion of residents accessing the ED for a mental health condition was generally consistent from 2019 to 2020. Of note, the proportion of Black or Other race individuals hospitalized for a mental health condition declined approximately 1-2 percentage points. When viewed by age group, the proportion of middle-aged adults 30-44 years hospitalized for a mental health condition declined nearly 2 percentage points from 2019 to 2020.



	Primary Diagnosis of Mental Health Condition (excluding substance use)											
	2016		20	17	20	18	20	19	20	20	2021 (C	(1-Q2)*
	N	%	N	%	N	%	N	%	N	%	N	%
Overall	26,506	5.8%	25,785	5.6%	23,808	5.4%	22,889	5.2%	17,773	5.1%	8,990	4.9%
Gender	Gender											
Male	12,440	6.0%	12,247	5.9%	11,270	5.7%	11,352	5.7%	8,903	5.6%	4,287	5.2%
Female	14,066	5.6%	13,530	5.3%	12,532	5.2%	11,529	4.8%	8,862	4.8%	4,700	4.6%
Race/Ethnicity												
White	19,202	6.4%	17,788	6.2%	16,670	6.0%	15,876	5.7%	12,305	5.6%	6,069	5.2%
Black	2,255	4.9%	2,467	5.4%	2,377	5.3%	2,391	5.2%	1,855	5.3%	939	5.2%
Hispanic	3,455	4.0%	3,377	3.7%	3,120	3.5%	3,213	3.5%	2,427	3.4%	1,313	3.4%
Other	1,101	6.6%	1,185	6.7%	1,143	6.1%	1,154	6.1%	912	6.1%	534	6.4%
Unknown	493	6.6%	968	5.2%	498	7.0%	255	4.7%	274	6.2%	135	7.9%
Age												
0-17	3,779	5.2%	3,939	5.3%	3,637	5.2%	3,603	5.2%	2,707	6.4%	1,771	8.3%
18-29	7,612	8.1%	7,140	7.9%	6,559	8.0%	5,929	7.3%	4,716	7.5%	2,325	7.3%
30-44	6,360	7.1%	6,315	7.0%	6,029	7.1%	6,241	7.1%	4,881	6.7%	2,342	5.9%
45-64	7,064	6.2%	6,636	5.8%	5,925	5.4%	5,600	5.1%	4,240	4.7%	1,957	4.1%
65+	1,691	2.0%	1,755	1.9%	1,658	1.8%	1,516	1.6%	1,229	1.6%	595	1.4%

# Number and Percent of Emergency Department Visits due to Primary Diagnosis of Mental Health Condition (excluding substance use)

Source: Rhode Island Department of Health

Number and Percent of Inpatient Admissions (hospitalizations) due to	
Primary Diagnosis of Mental Health Condition (excluding substance use)	

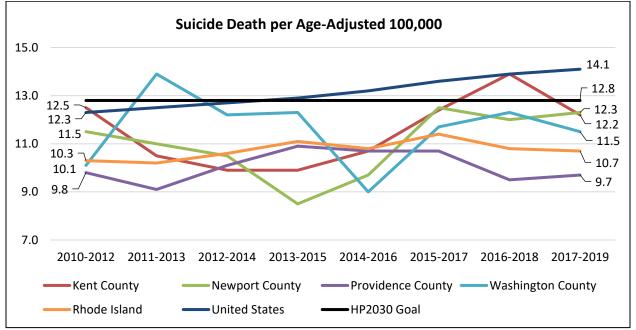
Finally Diagnosis of Mental Health Condition (excluding substance use)												
	2016 2017		17	20	18	2019		2020		2021 (C	Q1-Q2)*	
	N	%	N	%	N	%	N	%	Ν	%	N	%
Overall	14,312	12.0%	13,742	11.1%	12,144	10.1%	12,252	10.3%	10,810	10.2%	5,210	9.9%
Gender	Gender											
Male	7,221	13.7%	6,878	12.5%	6,112	11.5%	6,473	12.0%	5,575	11.5%	2,536	10.5%
Female	7,090	10.7%	6,858	10.0%	6,030	9.0%	5,777	8.9%	5,230	9.0%	2,673	9.3%
Race/Ethnicity												
White	10,314	11.5%	9,500	10.7%	8,492	9.5%	8,551	9.7%	7,590	9.8%	3,577	9.2%
Black	1,235	15.3%	1,345	15.8%	1,198	14.3%	1,242	14.3%	1,044	13.4%	471	12.7%
Hispanic	1,742	12.1%	1,695	11.1%	1,569	10.2%	1,634	10.3%	1,443	9.8%	803	11.2%
Other	706	18.0%	681	18.1%	568	14.5%	643	15.7%	541	13.6%	290	13.0%
Unknown	315	9.0%	521	7.6%	317	9.3%	182	7.2%	192	8.0%	69	9.0%
Age												
0-17	2,173	13.5%	2,263	14.6%	1,867	12.2%	1,855	12.6%	1,948	14.2%	1,203	17.6%
18-29	3,302	25.6%	3,076	24.4%	2,794	23.3%	2,721	23.6%	2,343	23.3%	1,138	24.1%
30-44	3,568	20.8%	3,343	19.1%	3,044	17.9%	3,228	18.4%	2,778	16.8%	1,185	14.5%
45-64	4,359	14.1%	4,068	12.6%	3,557	11.6%	3,544	11.7%	2,942	11.2%	1,313	10.0%
65+	910	2.2%	992	2.2%	882	2.0%	904	2.0%	799	2.0%	371	1.9%
Sourco	Phodo Ic	land Dona	rtmont of	F Lloolth								

Source: Rhode Island Department of Health



Frequent mental distress is also a risk factor for suicide. The suicide death rate steadily increased across the US over the past decade but remained relatively stable in Rhode Island. All Rhode Island counties except Bristol have a lower suicide death rate than the national death rate and meet the HP2030 goal of 12.8 suicides per 100,000 population. Bristol County had 21 suicide deaths from 2017 to 2019 for a rate of 14.3 per 100,000.

The Rhode Island suicide death rate should continue to be monitored as deaths reflect pre-COVID pandemic rates. An analysis of demographic characteristics for suicide deaths occurring from 2017 to 2019 suggests that deaths are more prominent among males, middle-age adults, and White residents.



Source: Centers for Disease Control and Prevention

\*Bristol County data are not trended due to data gaps. From 2017-2019, Bristol County had 21 suicide deaths for a rate of 14.3 per 100,000, the highest of any Rhode Island county and higher than the nation.



	Suicide Deaths	Age-Adjusted Rate per 100,000							
Gender									
Female	89	5.1							
Male	269	16.6							
Age*									
15-24	28	6.3							
25-34	60	13.6							
35-44	61	16.4							
45-54	72	17.2							
55-64	76	17.0							
65-74	31	10.0							
75-84	24	15.5							
Race and Ethnicity									
White, Non-Hispanic	315	12.6							
Black/African American, Non-Hispanic	12	NA							
Asian, Non-Hispanic	NA	NA							
Latinx origin (any race)	17	NA							

#### 2017-2019 Statewide Suicide Deaths, Demographic Characteristics

Source: Centers for Disease Control and Prevention

\*Rates are not age-adjusted.

## Substance Use Disorder Incidence and Prevalence

Substance use disorder affects a person's brain and behaviors and leads to an inability to control the use of substances which include alcohol, marijuana, and opioids, among others. Alcohol use disorder is the most prevalent addictive substance used among adults.

Across the US and Rhode Island, approximately 1 in 5 adults report heavy drinking and/or binge drinking. Among Rhode Island counties, **Newport and Washington counties have a higher prevalence of heavy drinking and binge drinking than the state or nation at approximately 1 in 4 adults. Consistent with the 2019 CHNA, Washington County also reports more driving deaths due to alcohol impairment than the state and nation.** Of note, Rhode Island as a whole reports more driving deaths due to alcohol impairment (41.6%) than the nation (27%).

Alcohol Use Disorder Indicators	Alcohol	Use	Disorder	Indicators
---------------------------------	---------	-----	----------	------------

	2018 Adults Reporting Binge or Heavy Drinking (age-adjusted)	2015-2019 Driving Deaths due to Alcohol Impairment (%, count)
Bristol County	20.3%	40.0% (n=2)
Kent County	20.4%	45.5% (n=25)
Newport County	25.4%	21.4% (n=3)
Providence County	18.6%	38.7% (n=67)
Washington County	24.4%	54.2% (n=26)
Rhode Island	19.7%	41.6%
United States	19.0%	27.0%

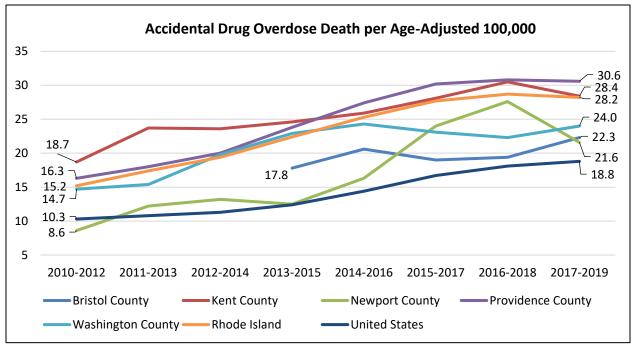
Source: Centers for Disease Control and Prevention, BRFSS



The CDC reports that the number of accidental drug overdose deaths nationwide increased by nearly 5% from 2018 to 2019 and has quadrupled since 1999. Over 70% of the 70,630 overdose deaths in 2019 involved an opioid. Nationally, heroin- and prescription opioid-involved deaths are declining, while synthetic opioid-involved deaths are increasing. Synthetic opioids such as fentanyl are laboratory produced and have similar effects as natural opioids, but can have far greater potency, increasing the risk for overdose and death.

**Rhode Island has more accidental drug overdose deaths than the nation, as indicated by the rate of deaths per 100,000 population.** From 2017 to 2019, the accidental drug overdose death rate for Rhode Island was nearly 10 points higher than the national death rate. Kent and Providence counties have historically had the highest death rates in the state, although all counties saw increases over the past decade.

The overdose death rate leveled off in Rhode Island counties from 2015 to 2019, but 2020 increases are expected as a result of the COVID-19 pandemic. The total number of accidental drug overdose deaths in Rhode Island in 2020 was 384, an increase from 308 in 2019 and 314 in 2018. Within the Landmark PSA, from 2019 to 2020, the number of overdose deaths increased from 10 to 31 in Woonsocket. All other Landmark PSA municipalities have had historically low annual overdose deaths of less than 5, although it is worth noting that Cumberland experienced nine overdose deaths in 2020.



Source: Centers for Disease Control and Prevention

\*Data prior to 2013-2015 are not reportable for Bristol County due to low death counts (less than 20 during the three-year timespan).



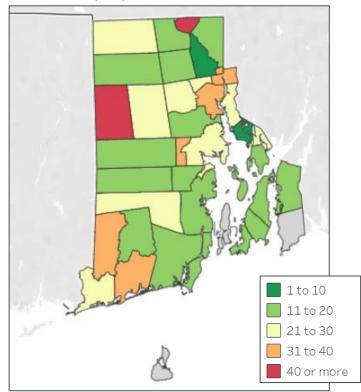
## Total Accidental Drug Overdose Deaths in Rhode Island by Year

2014	2015	2016	2017	2018	2019	2020	2021*
240	290	336	324	314	308	384	322
Source: Bhade	Island Donarte	ont of Hoalth					

Source: Rhode Island Department of Health

\*Current as of November 2021.

The opioid epidemic has impacted all communities across the nation. The following map displays the aggregate overdose death rate from 2014 to 2020 by Rhode Island city or town. Foster and Woonsocket have the highest overdose death rates per 100,000 population in the state at 56.83 and 44.83 respectively. Overdose death rates in all other Landmark PSA municipalities are less than 23.0 per 100,000.



2014-2020 Total Overdose Deaths per 100,000 by City or Town of Incident

Source: Prevent Overdose RI

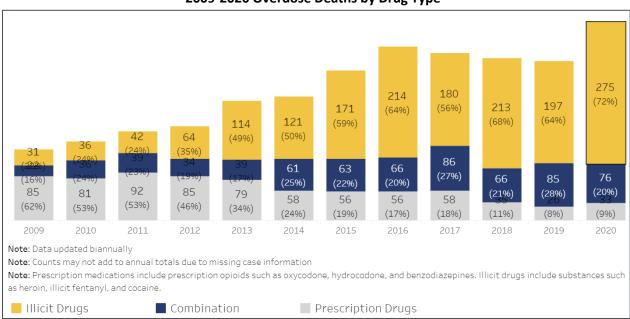


		Overdose Deaths (Count)										
	2014	2015	2016	2017	2018	2019	2020	Rate per 100,000				
Burrillville	<5	5	0	<5	<5	<5	<5	22.43				
Cumberland	<5	6	6	<5	<5	<5	9	13.25				
Glocester	0	0	<5	<5	<5	<5	<5	11.96				
Lincoln	<5	<5	<5	<5	<5	<5	<5	9.29				
North Smithfield	<5	<5	<5	<5	<5	<5	<5	12.79				
Smithfield	0	<5	<5	<5	<5	5	<5	17.73				
Woonsocket	11	16	26	24	12	10	31	44.83				

#### Accidental Drug Overdose Deaths and Rate per 100,000 by Landmark PSA Municipality

Source: Rhode Island Department of Health

The percentage of overdose deaths due to illicit drugs continued to rise across Rhode Island, peaking at 72% in 2020. Fentanyl is a highly potent synthetic opioid with greater risk for overdose and death. According to the Rhode Island Department of Health, the number of overdose deaths related to illicit fentanyl increased 30-fold since 2019. **In 2020, over 70% of overdose deaths involved illicit fentanyl.** 





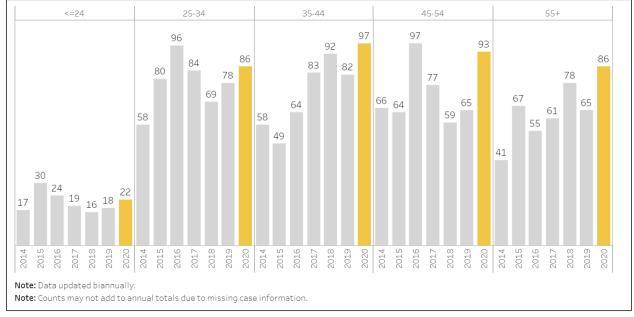
While the opioid epidemic has affected all genders and age groups, the largest proportion of overdose deaths has historically been among males and adults. In 2020, adults age 35-44 accounted for the largest proportion of overdose deaths (25.3%), followed by adults age 45-54 (24.2%). A similar proportion of deaths (22.4%) occurred among adults age 25-34 and 55+. Since 2018, males have accounted for more than 70% of overdose deaths.

Source: Prevent Overdose RI



In 2019 and 2020, Rhode Island saw an increase in overdose death rates for Black/African American and Latinx residents. As reported by the Rhode Island Department of Health, this trend is happening across the country and is rooted in systemic racism and related health inequities. These health inequities are also demonstrated in access to treatment services. Despite having the highest rate of death due to overdose, Black/African American residents are the least likely to be receiving methadone, one of the three FDA-approved medications for the treatment of opioid use disorder.

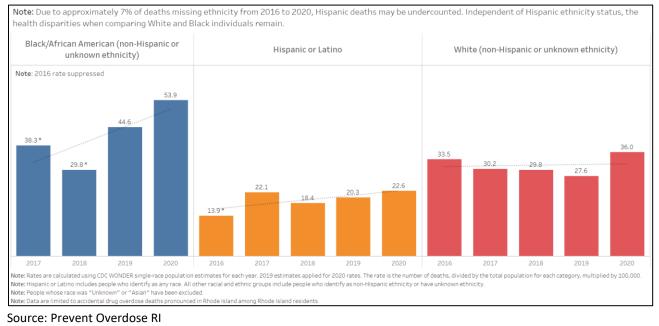
Of note, methadone uptake declined among all racial and ethnic groups in 2020, following two years of growth. This finding is likely a direct result of the COVID-19 pandemic, which caused delays in care and treatment across the healthcare system.

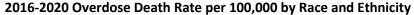


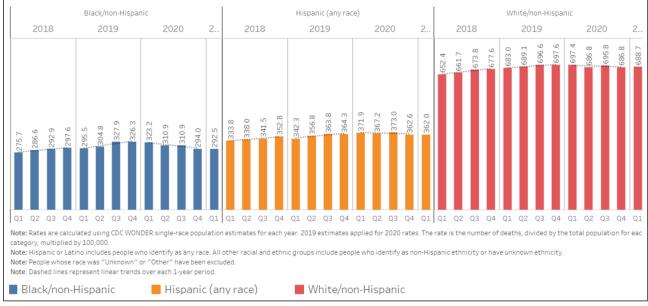
### 2014-2020 Overdose Deaths by Age

Source: Prevent Overdose RI









### Q1 2018 – Q3 2020 Rate of Methadone Receipt per 100,000 by Race and Ethnicity

Source: Prevent Overdose RI

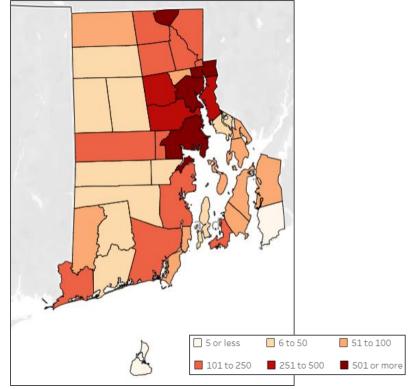
Opioid use disorder and overdoses have had a significant impact on local health resources. The following data depict Emergency Medical Services (EMS) response and ED visits for suspected overdoses.

The following map displays the aggregate number of EMS calls for suspected opioid overdose from 2016 to 2020 by Rhode Island city or town. While EMS calls were concentrated in Providence County,



particularly the core cities, and Warwick in Kent County, communities in all counties were affected. Within the Landmark PSA, Woonsocket had the highest rate of EMS calls per 100,000 population in the state.

While the number of overdose deaths increased in both Cumberland and Woonsocket from 2019 to 2020, the number of EMS calls declined, likely as a result of the COVID-19 pandemic. Fears surrounding the risk of going to the hospital and postponing care during COVID-19 contributed to a decline in EMS response nationwide. Lack of appropriate EMS response to overdose incidents likely contributed to increased overdose deaths across Rhode Island. Similar trends were seen in a decline in the provision of post-overdose counseling and naloxone services, particularly in the second quarter of 2020.



# 2016-2020 EMS Reports for Suspected Opioid Overdose by City or Town of Incident

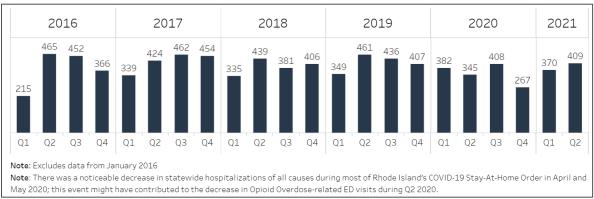
Source: Prevent Overdose RI



		EMS		2016-2020 Rate			
	2016	2017	2018	2019	2020	per 100,000	
Burrillville	15	19	14	13	12	458.0	
Cumberland	15	29	38	49	30	481.0	
Glocester	<5	8	7	6	<5	267.0	
Lincoln	25	48	51	42	45	1,000.0	
North Smithfield	13	25	17	23	23	844.0	
Smithfield	19	22	28	21	20	513.0	
Woonsocket	138	139	94	152	135	1,598.0	

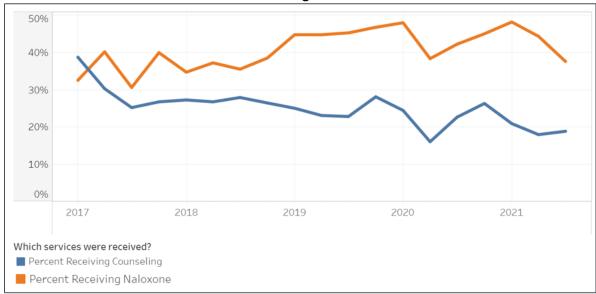
#### EMS Reports for Suspected Opioid Overdose by Landmark PSA Municipality

Source: Prevent Overdose RI



## 2016 - July 2021 Emergency Department Visits for Opioid Overdose

Source: Prevent Overdose RI



## 2017-2021 Emergency Department Visits for Opioid Overdose, Post-Overdose Counseling and Naloxone Services

Source: Prevent Overdose RI

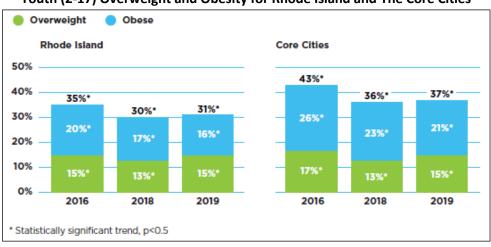


# Youth Health

## **Overweight and Obesity**

Childhood obesity is a persistent and significant threat to the long-term health of today's youth. The CDC reports that children who have obesity are more likely to have high blood pressure and high cholesterol, risk factors for heart disease; glucose tolerance, insulin resistance, and type 2 diabetes; breathing problems like asthma and sleep apnea; joint and musculoskeletal problems; and psychological and social problems, such as anxiety, depression, low self-esteem, and bullying; among other concerns.

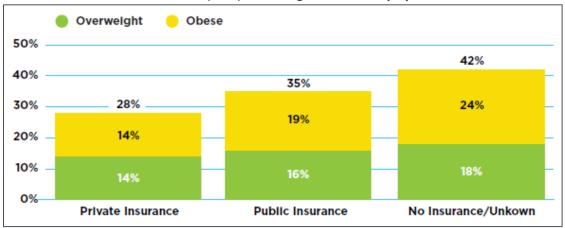
Among Rhode Island children ages 2 to 27 in 2019, 15% were considered overweight and 16% were considered obese for a combined 31%. This finding is consistent with 2018 and lower than 2016. Youth overweight and obesity varies widely by health insurance coverage, an indicator of preventative care access and socioeconomic status, and race and ethnicity. Across Rhode Island, 42% of uninsured youth and 35% of youth with public health insurance are overweight or obese compared to 14% of youth with private health insurance. Among racial and ethnic groups, over one-third of Hispanic/Latinx and non-Hispanic Black/African American youth are overweight or obese compared to 29% of non-Hispanic White youth.



Youth (2-17) Overweight and Obesity for Rhode Island and The Core Cities

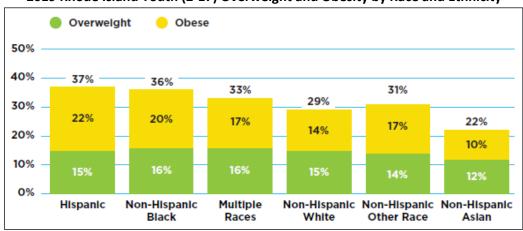
Source: Rhode Island Kids Count





#### 2019 Rhode Island Youth (2-17) Overweight and Obesity by Insurance Status

Source: Rhode Island Kids Count

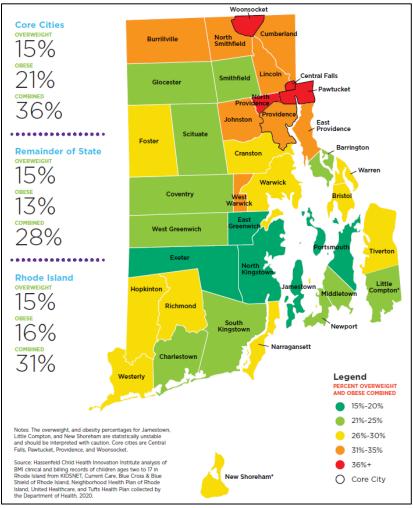


#### 2019 Rhode Island Youth (2-17) Overweight and Obesity by Race and Ethnicity

Source: Rhode Island Kids Count

Overweight and obesity is higher in the core cities, reported as a combined 37% in 2019 compared to 28% in the remainder of the state. Within the Landmark PSA, 41% of Woonsocket youth are overweight or obese, the second highest proportion in Rhode Island, behind Central Falls. All Landmark PSA municipalities except Glocester and Smithfield have a higher proportion of overweight or obese youth compared to the state average (excluding the core cities).





## 2019 Youth (2-17) Overweight and Obesity by Rhode Island City and Town

Source: Rhode Island Kids Count

		-,	
	Overweight	Obese	Combined
Burrillville	19%	14%	33%
Cumberland	16%	15%	31%
Glocester	16%	10%	26%
Lincoln	17%	15%	32%
North Smithfield	16%	14%	30%
Smithfield	15%	10%	25%
Woonsocket	17%	24%	41%
Four Core Cities	15%	21%	36%
Remainder of Rhode Island	15%	13%	28%

#### 2019 Youth (2-17) Overweight and Obesity by Landmark PSA Municipality

Source: Rhode Island Kids Count



## **Behavioral Health**

The 2021 Rhode Island Kids Count Factbook states, "Mental health treatment systems tend to be fragmented and crisis-driven with disproportionate spending on high-end care and often lack adequate investments in prevention and community-based services." Rhode Island has made great strides in promoting mental wellbeing and improving mental healthcare services for youth, but more work is needed to provide adequate and timely care for all youth across the state.

As reported in the Rhode Island Kids Count Factbook, the percentage of Rhode Island children ages 3 to 17 who needed mental health treatment or counseling and had a problem obtaining it declined from 55% in 2016 to 36% in 2017. While youth mental health services are improving statewide, psychiatric care continues to be a needed, limited resource across Rhode Island. The number of youth awaiting psychiatric inpatient admission increased from 212 in federal fiscal year (FFY) 2016 to 795 in FFY2020. Inpatient psychiatric care is critical to help stabilize youth experiencing acute psychiatric symptoms, including risk of suicide. Cooccurring with an increasing number of youth awaiting inpatient psychiatric care, was an increasing number of ED visits and hospitalizations among youth ages 13-19 due to suicide attempts. From 2015 to 2019, there were 1,165 ED visits and 794 hospitalizations among youth ages 13-19 due to suicide.

Rhode Island has historically reported a higher percentage of youth attempting suicide than the nation. In 2019, 14.7% of Rhode Island high school students reported an attempted suicide, an increase from 2015 and 2017 (10.5%) and a higher proportion than the nation (8.9%). When considered by subgroup, attempted suicides were higher among Black/African American and Latinx students compared to White students, as well as students identifying as lesbian, gay, or bisexual (LGB) versus straight.

	FFY 2016	FFY 2017	FFY 2018	FFY 2019	FFY2020
Youth awaiting psychiatric inpatient admission (psychiatric boarding)	212	462	465	437	795
Average wait time for psychiatric admission	3 days	3.6 days	1.4 days	3.3 days	3.2 days
Average children per day unable to leave psychiatric hospital due to lack of step-down availability or safe placement	6	8	7	5	4

#### **Rhode Island Youth Mental Health Service Availability Indicators**

Source: Rhode Island Kids Count Factbook

#### **Rhode Island Youth Suicide Attempts and Deaths**

	2012-2016	2013-2017	2014-2018	2015-2019
ED visits among youth ages 13-19 due to suicide attempt	864	965	886	1,165
Hospitalizations among youth ages 13-19 due to suicide attempt	522	649	651	794
Suicide deaths among youth under age 20	22	6	25	20

Source: Rhode Island Kids Count Factbook



## High School Students Reporting an Attempted Suicide

	2013	2015	2017	2019
Rhode Island	14.3%	10.5%	10.5%	14.7%
United States	8.0%	8.6%	7.4%	8.9%

Source: Centers for Disease Control and Prevention, YRBS

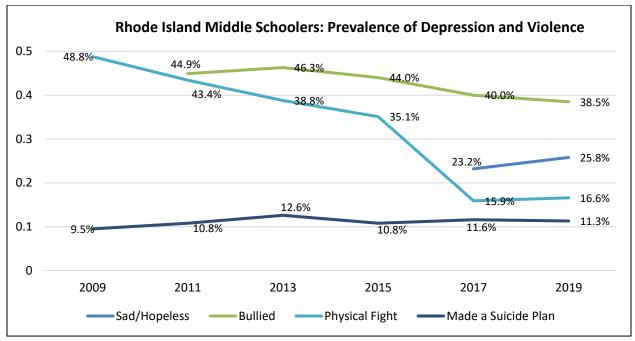
#### 2019 Rhode Island High School Students Reporting an Attempted Suicide

	Percent
Gender	
Female	13.5%
Male	15.5%
Race and Ethnicity	
White	12.1%
Black or African American	18.3%
Latinx origin (any race)	17.7%
Sexual Identity	
Lesbian, Gay, Bisexual (LGB)	21.6%
Straight	13.3%

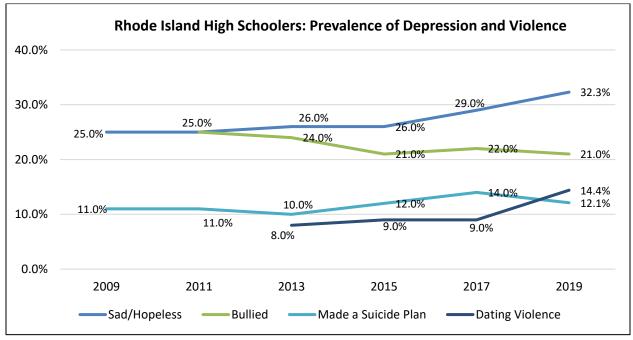
Source: Centers for Disease Control and Prevention, YRBS

Contributing to acute psychiatric distress among Rhode Island youth is an overall increasing percentage of both middle school and high school students who report feeling consistently sad or hopeless, and a recent increase in dating violence among high school students. Bullying and fighting among students has generally declined.





Source: Rhode Island Department of Health



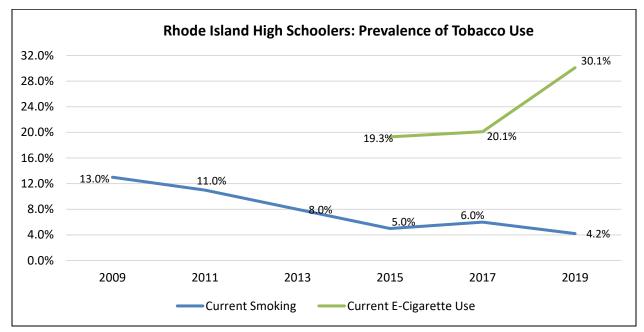
Source: Rhode Island Department of Health

## Substance Use (Tobacco, Alcohol, Drugs)

The use of e-cigarettes among youth continues to rise statewide and nationally. In 2019, 30% of Rhode Island high school students reported currently using e-cigarettes, a 10-point increase from 2017, and a similar proportion as the nation overall (32.7%). Rhode Island high school students who report current



e-cigarette use are more likely to be female, White, and/or LGB. Current use is defined as use on at least one day during the 30 days before the survey.



Source: Rhode Island Department of Health

## High School Students Reporting Current (within past 30 days) E-Cigarette Use

	2015	2017	2019
Rhode Island	19.3%	20.1%	30.1%
United States	24.1%	13.2%	32.7%

Source: Centers for Disease Control and Prevention, YRBS

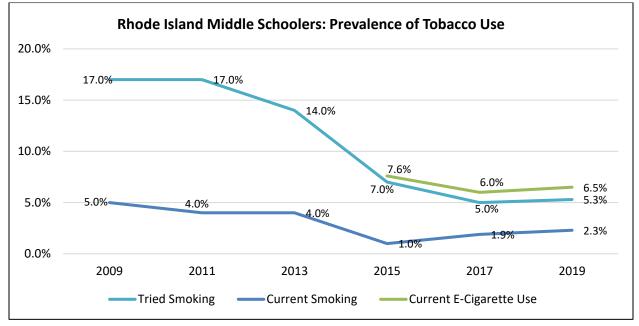
## 2019 Rhode Island High School Students Reporting Current (within past 30 days) E-Cigarette Use

	Percent
Gender	
Female	31.2%
Male	28.4%
Race and Ethnicity	
White	36.4%
Black or African American	18.0%
Latinx origin (any race)	20.1%
Sexual Identity	
Lesbian, Gay, Bisexual (LGB)	37.3%
Straight	30.1%

Source: Rhode Island Department of Health



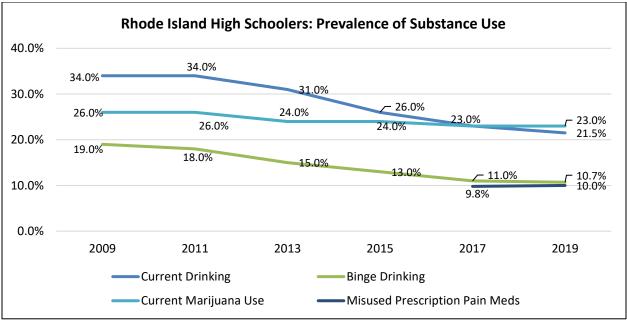
Approximately 16% of Rhode Island middle school students have tried e-cigarettes. While the percentage of current e-cigarette users has been stable since 2015, the percentage of current traditional cigarette smokers is on the rise, suggesting an increase in overall tobacco product use.



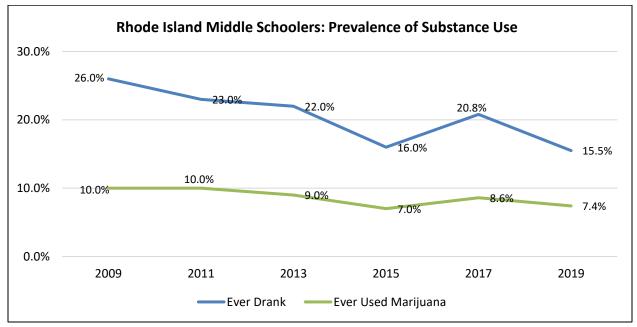
Source: Rhode Island Department of Health

Teen substance use is both a symptom and a risk factor for increased injury, depression, and poor health. The following graphs depict substance use among Rhode Island high school and middle school students. **Substance use is generally declining about Rhode Island students, however, approximately 1 in 4 high school students report current alcohol and marijuana use.** The misuse of prescription pain medications remained stable from 2017 to 2019 at approximately 1 in 10 high school students.





Source: Rhode Island Department of Health



Source: Rhode Island Department of Health



## Adverse Childhood Experiences

Adverse Childhood Experiences (ACEs) have significant negative impact on the mental, physical, and emotional development of children, and contribute to risky health behaviors, poor health outcomes, and premature death. The following tables profile the prevalence of select ACEs among Rhode Island youth, including abuse, neglect, and family dysfunction (incarceration and domestic violence).

Child abuse and neglect is defined as the following:

- Child abuse includes physical, sexual, and emotional abuse.
- Child neglect includes emotional, educational, physical, and medical neglect, as well as a failure to provide for basic needs.

**Between 2015 and 2019 in Rhode Island, there were 454 ED visits, 81 hospitalizations, and six deaths of children under age 18 due to child abuse and/or neglect.** The occurrence of these incidents was variable on a year-to-year basis. Nationwide in 2019, the majority (73%) of child maltreatment deaths involved neglect and 44% involved physical abuse (Note: these categories are not mutually exclusive).

due to child Abuse and/or Neglect					
	ED Visits*	Hospitalizations*	Deaths		
2015	92	28	0		
2016	79	8	1		
2017	107	18	2		
2018	102	13	1		
2019	72	14	2		
Total	454	81	6		

# Rhode Island Emergency Department (ED) Visits, Hospitalizations, and Deaths due to Child Abuse and/or Neglect

Source: Rhode Island Kids Count

\*Include both suspected and confirmed assessments of child abuse and neglect.

As reported in the 2021 Rhode Island Kids Count Factbook, "In 2020 in Rhode Island, there were 1,862 indicated investigations of child neglect and abuse involving 2,681 Rhode Island children. The rate of child neglect and abuse per 1,000 children under age 18 was two times higher in the four core cities (18.2 victims per 1,000 children) than in the remainder of the state (8.9 victims per 1,000 children). About half (45%) of the victims of child neglect and abuse in 2020 were young children under age six and one-third (33%) were ages three and younger."

In comparison to 2019 CHNA data findings, the rate of indicated investigations and victims of child abuse and neglect declined in both the core cities and the remainder of Rhode Island. **Within the Landmark PSA, Woonsocket continues to have the highest rate of child abuse/neglect in the state, although the rate declined from the 2019 CHNA.** 



	Investigations of Child Abuse/ Neglect	Investigations per 1,000 Children	Victims of Child Abuse/Neglect	Victims per 1,000 Children
Burrillville	23	6.4	45	12.6
Cumberland	23	3.1	41	5.4
Glocester	17	8.1	23	11.0
Lincoln	21	4.4	23	4.8
North Smithfield	9	3.7	9	3.7
Smithfield	11	3.0	14	3.9
Woonsocket	173	17.5	273	27.6
Four Core Cities	866	11.7	1,341	18.2
2019 CHNA Comparison	1,155	15.7	1,734	23.5
Remainder of Rhode Island	996	6.6	1,340	8.9
2019 CHNA Comparison	1,170	7.8	1,526	10.2

#### 2020 Indicated Investigations of Child Abuse and Neglect by Landmark PSA Municipality

Source: Rhode Island Kids Count

As reported in the 2021 Rhode Island Kids Count Factbook, **"Of the 2,156 inmates awaiting trial or** serving a sentence at the ACI (Adult Correctional Institution) on September 30, 2020 who answered the question on number of children, 1,299 inmates reported having 3,039 children. Thirty percent of sentenced mothers and 9% of sentenced fathers had sentences that were six months or less. Parents of Color were overrepresented compared to their proportion in the general population."

The rate of children of incarcerated parents declined from the 2019 CHNA report, but continues to disproportionately impact families within the four core cities. **The rate of children of incarcerated parents within Woonsocket is nearly four times higher than the remainder of the state.** 

	Number of Children of Incarcerated Parents	Rate per 1,000 Children			
Burrillville	0	0.0			
Cumberland	37	4.9			
Glocester	7	3.3			
Lincoln	9	1.9			
North Smithfield	3	1.2			
Smithfield	10	2.8			
Woonsocket	162	16.4			
Four Core Cities	1,151	15.6			
2019 CHNA Comparison	1,676	22.7			
Remainder of Rhode Island	656	4.4			
2019 CHNA Comparison	1,173	7.8			

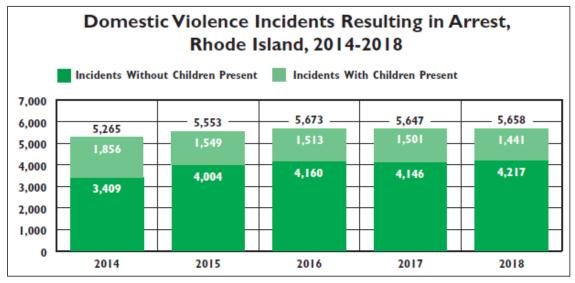
September 30, 2020 Children of Incarcerated Parents by Landmark PSA Municipality\*

Source: Rhode Island Kids Count

\*Data are self-reported by the incarcerated parent(s) and may include children over age 18.



**Domestic violence incidents resulting in arrest continue to increase in Rhode Island, although the number of children present during the incidents is declining.** In 2018, there were 5,658 domestic violence incidents that resulted in arrests, up from 5,553 incidents reported at the time of the 2019 CHNA (data year 2015). Children were present in 25% (1,441) of incidents in 2018.



Source: Rhode Island Kids Count

In comparison to 2019 CHNA data findings, the percentage of domestic violence incidents resulting in arrest, where children were present, declined in both the core cities and the remainder of Rhode Island. Within the Landmark PSA, the percentage of domestic violence incidents resulting in arrest, where children were present, varied widely with higher percentages in Lincole and Smithfield (30%).

by Landmark PSA Municipality						
Number of Incidents with Children Present	Percent with Children Present					
17	28%					
27	26%					
3	14%					
22	30%					
19	20%					
13	30%					
87	22%					
651	26%					
621	28%					
790	25%					
907	28%					
	Number of Incidents with Children Present           17           27           3           22           19           13           87           651           621           790					

2018 Children Present During Domestic Violence Incidents Resulting in Arrest by Landmark PSA Municipality

Source: Rhode Island Kids Count



# Maternal and Infant Health

A total of 9,590 births occurred in Rhode Island in 2020. Consistent with overall population demographics, the majority (68.4%) of births occurred to people residing in Providence County. Less than 5% of births in Rhode Island occurred in Bristol County, and less than 10% of births occurred in either Newport or Washington counties. Kent County had the second highest proportion of births at 14%.

All babies born in Rhode Island are screened by the Rhode Island Department of Health's Newborn Risk Assessment Program. **In 2020, 6,233 newborns (65%) screened positive, indicating the presence of one or more risk factors associated with poor developmental outcomes.** Key risk factors include economic hardship, single motherhood, parental low education levels, and teenage birth. The following table identifies the prevalence of birth risk factors by Rhode Island county, as available.

Infants born in the core cities experience more risk factors associated with poor developmental outcomes, with nearly 75% born to low-income families, 60% born to single mothers, and 22% born to mothers without a high school diploma. These outcomes are reflected in higher reported risk factors across Providence County. Within other Rhode Island counties, approximately one-quarter to one-third of infants are born to low-income families, with a higher reported percentage in Newport County (37.7%). Newport County also reports a slightly higher percentage of births to single-mothers and mothers without a high school diploma compared to the remainder of the state.

	Total Births	Births to Low- Income Families	Births to Single Mothers	Births to Mothers without a High School Diploma
Bristol County	313	29.1%	28.1%	3.8%
Kent County	1,353	31.4%	34.4%	4.3%
Newport County	589	37.7%	34.8%	8.0%
Providence County	6,563	57.8%	49.6%	15.4%
Washington County	771	27.4%	26.6%	1.7%
Four Core Cities	3,856	72.8%	59.8%	22.2%
Remainder of Rhode Island	5,734	33.7%	33.3%	5.0%

#### 2020 Infants Born at Risk

Source: Rhode Island Kids Count

Despite a high prevalence of risk factors, Rhode Island overall generally reports positive birth outcomes. From 2015 to 2019, only 4% of all births were to teenage mothers and all counties met HP2030 goals for prenatal care and premature births. However, **positive birth outcomes are not shared equally across counties or racial and ethnic groups.** Consistent with having higher reported risk factors, particularly in the core cities, Providence County experiences more negative birth outcomes compared to other counties. Notably, 67.9% of infants are breastfed compared to the statewide average of 72%, and 81.9% of pregnant people receive first trimester prenatal care compared to 85%-89% in other counties.

Across Rhode Island, Black/African Americans experience notable birth disparities. Fewer than 77% of Black/African Americans receive first trimester prenatal care compared to 87% of Whites. Nearly 12% of



babies born to Black/African Americans are premature and/or have low birth weight compared to 7-8% of babies born to Whites. Latinx individuals also experience birth disparities in comparison to their White peers, although not to the same degree as Black/African Americans.

Consistent with the racial and ethnic makeup and known socioeconomic barriers within the core cities, among Landmark PSA municipalities, birth disparities are most prevalent in Woonsocket. **Notably, 79%** of pregnant people in Woonsocket receive first trimester prenatal care compared to 87% across Rhode Island (excluding core cities), and 63% of pregnant people breastfeed compared to 77% across Rhode Island (excluding core cities).

	Percent of All Births to Teens (15-19)	First Trimester Prenatal Care	Premature Births	Low Birth Weight Births	Breastfeedin at Time of Birth
Bristol County	1.9%	85.4%	7.7%	5.8%	81.1%
Kent County	2.5%	87.9%	7.9%	6.5%	76.3%
Newport County	2.4%	87.1%	8.0%	7.2%	81.2%
Providence County	4.8%	81.9%	9.3%	8.1%	67.9%
Washington County	2.4%	89.4%	8.4%	6.8%	85.7%
Rhode Island	4.0%	83.9%	8.9%	7.7%	72.0%
White, Non-Hispanic	NA	86.9%	8.2%	6.6%	NA
Black/African American, Non-Hispanic	NA	76.5%	11.5%	11.7%	NA
Asian, Non-Hispanic	NA	82.2%	7.7%	7.6%	NA
Latina (any origin)	NA	81.0%	9.6%	8.1%	NA
United States*	4.5%	77.6%	10.2%	8.3%	83.6%
HP2030 Goal	NA	80.5%	9.4%	NA	NA

#### 2015-2019 Maternal and Infant Health Indicators

Source: Rhode Island Kids Count

\*Data are reported for 2019 (single year) based on availability.

	Percent of All Births to Teens (15-19)	First Trimester Prenatal Care	Premature Births	Low Birth Weight Births	Breastfeeding at Time of Birth
Burrillville	3.3% (n=21)	87.2%	9.0%	5.8%	74%
Cumberland	1.5% (n=25)	87.5%	8.1%	6.5%	79%
Glocester	0.9% (n=3)	83.6%	6.9%	5.7%*	73%
Lincoln	2.1% (n=19)	85.9%	7.9%	6.0%	80%
North Smithfield	1.5% (n=7)	85.4%	7.7%	6.1%	78%
Smithfield	0.8% (n=6)	86.4%	6.3%	5.2%	81%
Woonsocket	4.0% (n=201)	78.8%	10.0%	9.2%	63%
Four Core Cities	6.4%	79.5%	9.8%	8.8%	63%
Remainder of Rhode Island	2.5%	86.8%	8.2%	6.9%	77%

## 2015-2019 Maternal and Infant Health Indicators by Landmark PSA Municipality

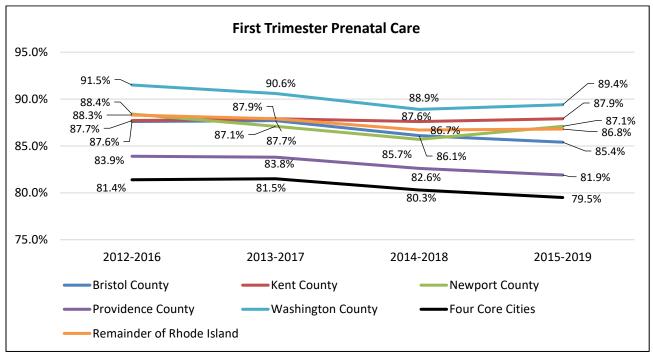
Source: Rhode Island Kids Count

\*The data are statistically unstable and percentages should be interpreted with caution.



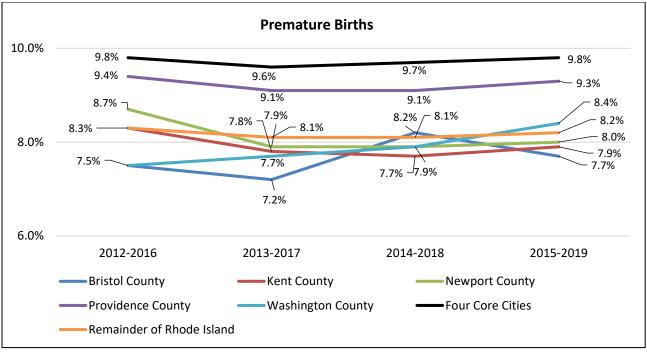
The following graphs depict trends in prenatal care and birth outcomes from 2012-2016 to 2015-2019. **The percentage of pregnant people receiving first trimester prenatal care declined in both the core cities and the remainder of the state, and in all counties except Kent.** In Bristol, Providence, and Washington counties, the percentage of pregnant people receiving first trimester prenatal care declined two percentage points from 2012-2016 to 2015-2019.

The percentage of babies breastfed at the time of birth also declined statewide, driven by a 10percentage point decline in the core cities from 2012-2016 to 2015-2019. Based on known racial and ethnic disparities, the decline in breastfeeding was likely higher among non-White infants, particularly Black/African Americans. Other birth outcomes, including low birth weight and premature births have been largely consistent over recent years.

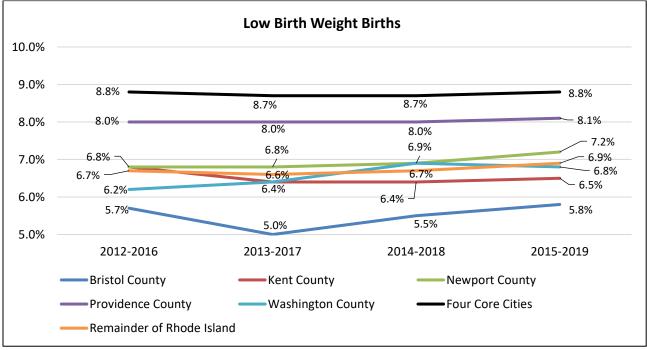


Source: Rhode Island Kids Count



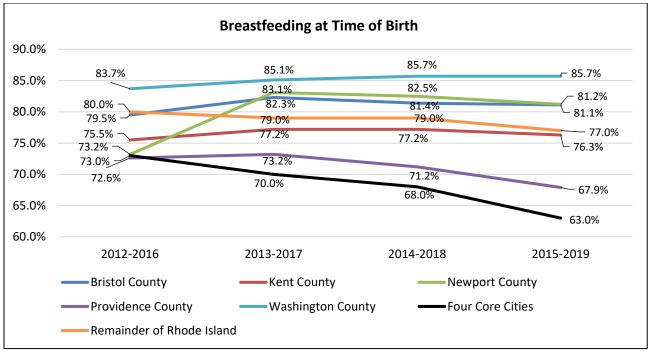


Source: Rhode Island Kids Count



Source: Rhode Island Kids Count





Source: Rhode Island Kids Count

Rhode Island had a total of 285 infant deaths from 2015-2019, 156 or 55% occurred in the core cities. The infant death rate within the core cities is 50% higher than the remainder of Rhode Island and does not meet the HP2030 goal. Infant death disparities within the core cities are largely due to inequities experienced by Black/African Americans. The infant mortality rate for Black/African Americans statewide is nearly three times higher than for Whites. Similar disparities in maternal death rates are seen nationwide; Black/African Americans have a maternal death rate that is 2.5 times higher than for Whites. Rhode Island maternal death data is not available due to confidentiality restrictions.



#### 2015-2019 Infant Deaths per 1,000 Live Births

	Infant Deaths per 1,000 Live Births		
Bristol County	NA (n=2)		
Kent County	3.9 (n=30)		
Newport County	4.9 (n=17)		
Providence County	6.2 (n=220)		
Washington County	3.6 (n=16)		
Four Core Cities	7.4		
Remainder of Rhode Island	4.1		
Rhode Island	5.4		
White, Non-Hispanic	3.8		
Black/African American, Non-Hispanic	10.6		
Asian, Non-Hispanic	5.0		
Latina (any origin)	6.3		
HP2030 Goal	5.0		

Source: Rhode Island Kids Count

## 2018 Maternal Deaths\* per 100,000 Live Births

	Total Deaths	Total Death Rate	Black Death Rate	White Death Rate	Latina Death Rate
Rhode Island	NA	NA	NA	NA	NA
United States	658	17.4	37.1	14.7	11.8
HP2030 Goal		15.7			

Source: Centers for Disease Control and Prevention

\*Maternal deaths include deaths of pregnant people or within 42 days of termination of pregnancy, from any cause related to pregnancy or its management. Rhode Island deaths are not reported due to confidentiality restrictions.

Research findings from secondary data analysis were compared to qualitative research findings to compare perceptions to statistical data, identify root causes, and contextualize data trends and contributing factors for identified health needs.



# Evaluation of Health Impact: 2019-2022 Community Health Improvement Plan Progress

In 2019, Landmark Medical Center (LMC) completed a CHNA and developed a supporting three-year Implementation Plan for community health improvement. The Implementation Plan outlined our strategies for measurable impact on identified priority health needs, including behavioral health, chronic disease, and maternal and child health. Within six months of the release of the 2019 Implementation Plan, the COVID-19 pandemic shifted the priorities of our community and LMC adapted our work to respond to the emergent needs of residents. The following sections outline our work to impact the priority health needs and respond to COVID-19 in our communities.

# Woonsocket Health Equity Zone (HEZ)

The Woonsocket HEZ is a collaboration of local organizations, businesses, city leaders, coalitions, and residents that takes action to improve the health and quality of life for all people in Woonsocket. The HEZ envisions a future where residents are connected to each other and to resources; where relationships are built on a foundation a of trust; and where all individuals, families, and children in Woonsocket live in safe, nurturing homes, neighborhoods, and communities that support healthy development. The HEZ focuses on priorities identified by the community including the opioid epidemic, teen health, food access, and the well-being of children and families.

Landmark Medical Center has been a collaborating and funding partner for the Woonsocket HEZ since its inception. The following is a summary of programs and initiatives accomplished by the HEZ in 2021 with the support of LMC funding. Programs and initiatives reflect both long-term strategies by the HEZ and recent response to needs triggered by the COVID-19 pandemic.

## **Improving Access to Healthy Food**

*The Refugee Dream Center Food Access Project* provided a total of 65 families in Woonsocket with emergency food items over the last 6 months. All 65 families received case management and health food education services by Refugee Dream Center staff. Case management services included wellness calls, assistance with SNAP/WIC benefits, food distributions, emergency utility and rental assistance.

The Boys and Girls Club of Woonsocket Food Access Project has delivered lunches to residents of Woonsocket since March 2020. The delivery of meals has been successful, specifically to Woonsocket's elderly and disabled population.

## Addressing Racial Equity

The Boys and Girls Club of Woonsocket hosted a free live virtual conversation about racial equity with national leader and advocate, Patrisse Cullors. Patrisse Cullors is a New York Times bestselling author, educator, artist, and abolitionist from Los Angeles, CA. Co-founder of the Black Lives Matter Global Network Foundation, Patrisse has been on the frontlines of abolitionist organizing for 20 years. A total of 137 individuals registered for the virtual event, with many more watching as it was streamed at both Boys and Girls Clubhouses, and many were reported to watch the session in groups.



## Addressing Overdose Prevention and Recovery

*Community Care Alliance's Serenity Center* is a peer-run drop-in recovery center that offers an array of services: over 100 recovery groups, one-on-one peer support, and assistance connecting members with agency and external supports, including but not limited to housing, education, employment, and behavioral health services. Throughout the pandemic, the Serenity Center continued to provide Peer Recovery Services in modified form to ensure COVID Safety for both staff and clients. While drop-in services were suspended, there was a significant shift to phone-based and individual services as the state rolled out its re-opening plan.

In February, the *Safe Haven Drop-in Center* opened, extending the services of The Serenity Center to specialty services for homeless individuals and those in need of harm reduction supports. The following is an unduplicated count of members in each program:

- Serenity: 352 members\*
- Safe Haven: 219 (102 are homeless) members\*

\*Note that some clients receive services at both locations.

Summary of Services Provided by Serenity Center

- Over 2,000 face-to-face contacts with members
- 750 phone contacts with members
- 258 (duplicated) members participate in Serenity Center recovery groups
- 90 adults and children temporarily housed through Woonsocket motel voucher program
- Over 500 individuals received clothing items and hygiene products
- Over 2,000 individuals received RIPTA bus passes, "RIPTIKS"
- 735 kits of Naloxone and 170 harm reduction kits distributed
- 1,000 items/packages of food and over 1,700 meals to Safe Haven
- 105 connections to behavioral health services and over 200 connections to Coordinated Entry System (Access to shelter/homeless services)
- 170 individuals utilized technology for job & housing searches with 6 members recently employed

## **Resident Engagement**

Five *Woonsocket HEZ Resident Advisors* have continuously engaged in the HEZ work throughout 2021. One Resident Advisor obtained their Community Health Worker certification, one is currently completing their Certified Peer Recovery Specialist certification, and another gained full-time employment with a partner organization.

Additionally, nine\_*HEZ Teen Ambassadors* have received stipends for their time and participation in HEZ workgroup meetings, community events, and trainings. Outcomes from the program included:

- Received 14 hours of community organizing and leadership training.
- Received training on incorporating youth voice as leaders.
- Provided feedback and input to Rhode Island Department of Health on local COVID-19 vaccination efforts.
- Volunteered at Woonsocket 's Juneteenth community event, Thundermist family health fair, and Woonsocket Pride event.



# Woonsocket High School School-Based Health Center

Landmark Medical Center supports the school-based health center (The Health Hut) run by Thundermist at Woonsocket High School. All students under 18 are required to have parental consent to be seen at The Health Hut. All services are provided at no out-of-pocket cost to the student; if the family has medical insurance the health center bills the insurance company.

Services at The Health Hut include physical exams (including school and sports), immunizations, sick visits, treatment of minor injuries, health education, chronic care management (i.e., asthma, diabetes), and dental services-including examinations and hygiene services. Additionally, The Health Hut has focused on family planning and contraception to help reduce teenage births and alleviate related issues, including generational poverty, abuse and neglect, and sexually transmitted disease spread.

Woonsocket has historically had the highest rates of child abuse and neglect and teen births in Rhode Island, but these measures are improving. *At the time of the 2016 CHNA, the rate of child abuse and neglect per 1,000 children in Woonsocket was reported as 37.6. The rate declined to 35.9 at the time of the 2019 CHNA and 27.6 at the time of the 2022 CHNA. Similarly, at the time of the 2016 CHNA, the teen birth rate per 1,000 females in Woonsocket was reported at 63.8. The rate declined to 43.7 at the time of the 2019 CHNA and 35.7 at the time of the 2022 CHNA.* 

# **COVID-19** Response

In 2020 and 2021, LMC's community resources were largely diverted to respond to emergent needs brought on by the COVID-19 pandemic. Landmark Medical Center supported the community throughout the pandemic, providing education and resources and hosting a hospital-based vaccination program. Specific outreach initiatives included:

- A hospital-based vaccination program for thousands of first responders, healthcare workers, and the community at large
- Partnership with local Emergency Medical Services in conducting community outreach and vaccination support
- Support for COVID outreach kits, back-to-school event, and family health fair hosted by Thundermist Health Center

Landmark Medical Center is more than just a community hospital. We take great pride in our patient care, not only in the treatment of specific illnesses, but in caring for the whole patient through a multidisciplinary approach. We are honored to be trusted partners who serve, give back and grow with our communities. To learn more about LMC's community health improvement work, visit <u>landmarkmedical.org</u>.



# 2022-2025 Community Health Improvement Plan

Landmark developed a three-year Community Health Improvement Plan (CHIP) to guide community benefit and population health improvement activities across their service area. The CHIP builds upon previous health improvement activities, while recognizing new health needs identified in the 2022 CHNA, a changing healthcare environment, and the impact of the COVID-19 pandemic.

Goals, objectives, and strategies from the 2022-2025 CHIP are outlined below. In developing the CHIP, Landmark sought to focus on upstream interventions to address social determinants of health and advance health equity for our communities.

# Priority Area: Behavioral Health

**Goal:** Strengthen and support community initiatives and healthcare services that increase behavioral health resources and address underlying barriers to equitable treatment access.

### Strategies:

- 1. Support, promote, and participate in community behavioral health awareness efforts.
  - Support the Woonsocket HEZ to develop and distribute community behavioral health resource guides
  - Support the Woonsocket HEZ to host resource fairs and other outreach events, targeting at-risk community residents
  - Host and participate in community education and outreach initiatives to increase awareness of substance use disorders and distribution of Narcan
- 2. Collaborate with community-based providers to assess behavioral health needs, facilitate service referrals, and coordinate care.
  - Support Serenity Center, a Community Care Alliance and HEZ initiative, providing peer recovery services, support groups, basic needs referrals, and health and wellness supports, among other services
  - Partner with Thundermist Health Center to facilitate warm handoff referrals
  - Support Child Friendly Woonsocket, a Rhode Island Foundation funded initiative led by the HEZ, to develop a data-driven strategy to build a resilient community that addresses the social and structural determinants of good mental health
  - Conduct standardized screening for mental health and substance use disorder among patients
  - Explore opportunities to improve access to medically-induced treatment for opioid addiction



- 3. Invest in workforce recruitment and retention of behavioral healthcare professionals.
  - Promote awareness of health and human services careers among middle school and high school students
  - Provide job shadowing, mentoring, training opportunities, targeting workforce development that reflects the multicultural and racial makeup of the community
  - Advocate for statewide behavioral health service delivery gaps and related policy initiatives

## Priority Area: Chronic Disease

**Goal:** Strengthen and support community initiatives and healthcare services that address underlying inequities in access to care and improve health outcomes.

### Strategies:

- 1. Invest in community services and programs that address equity in health and healthcare.
  - a. Partner with the Woonsocket HEZ to provide opportunities for racial equity education and community conversations
  - b. Support resident engagement in the Woonsocket HEZ and the development of community programs, leveraging Resident Advisors and Teen Ambassadors
  - c. Support Woonsocket HEZ initiatives to improve access to healthy foods, including community farmers markets, community gardens, and free produce distribution
  - d. Support the Higher Education Center of Northern Rhode Island to offer workforce development training and classroom space in downtown Woonsocket
  - e. Support Woonsocket Walks A City on The Move, a pedestrian walking plan to improve the walkability of Woonsocket
- 2. Invest in healthcare services that enhance access to care for underserved populations and promote whole-patient care.
  - Collaborate with primary care providers to identify and schedule patients who delayed preventive care during the pandemic
  - Continue telehealth to enhance care for patients who are homebound and/or experiencing access barriers
  - Explore opportunities for systemwide social determinants of health screening
  - Explore partnership opportunities with Uber, Lyft, and other rideshare programs to address transportation barriers
  - Provide case management services for all patients upon admission to assist them in navigating the healthcare system



- 3. Promote chronic disease education and care management best practices.
  - Conduct community education and outreach to promote screenings and facilitate linkages to care
  - Support the Diabetes Prevention Program in partnership with the Woonsocket HEZ
- 4. Invest in workforce recruitment and retention of primary and specialty care providers.
  - Promote awareness of health and human services careers among middle school and high school students
  - Provide job shadowing, mentoring, training opportunities, targeting workforce development that reflects the multicultural and racial makeup of the community
  - Continue recruitment and hiring practices and succession planning for primary and specialty care services

# Priority Area: Maternal and Child Health

**Goal:** Reduce teen pregnancies and improve birth outcomes for mothers and babies.

### Strategies:

- 1. Increase access to comprehensive healthcare and family life education for teens.
  - Support the school-based health center (The Health Hut) at Woonsocket High School, providing family planning and contraception at no cost to students, among other services
  - Support youth-driven campaigns to address teen pregnancy and related health issues
- 2. Promote culturally and linguistically relevant maternal health education programs and services.
  - Provide newborn, childbirth, newborn, and breastfeeding classes for new parents
  - Partner with community organizations and statewide initiatives (e.g., Alliance for Innovation in Maternal Health (AIM)) to promote equitable birth outcomes for Black women and babies

## Next Steps

Landmark welcomes your partnership to meet the health and medical needs of our community. We know we cannot do this work alone and that sustained, meaningful health improvement requires collaboration to bring the best that each community organization has to offer. To learn more about Landmark's community health improvement work or to discuss ways in which we can partner together, please visit our website: landmarkmedical.org.



# Appendix A: Public Health Secondary Data References

Center for Applied Research and Engagement Systems. (2021). Map room. Retrieved from
https://careshq.org/map-rooms/
Centers for Disease Control and Prevention. (n.d.). BRFSS prevalence & trends data.
Retrieved from http://www.cdc.gov/brfss/brfssprevalence/index.html
Centers for Disease Control and Prevention. (2019). Diabetes data and statistics. Retrieved
from https://gis.cdc.gov/grasp/diabetes/DiabetesAtlas.html
Centers for Disease Control and Prevention. (2020). CDC wonder. Retrieved from
http://wonder.cdc.gov/
Centers for Disease Control and Prevention. (2020). Youth risk behavior surveillance system.
Retrieved from https://www.cdc.gov/healthyyouth/data/yrbs/index.htm
Centers for Disease Control and Prevention. (2021). National vital statistics system. Retrieved
from https://www.cdc.gov/nchs/nvss/index.htm
Centers for Disease Control and Prevention. (2021). PLACES: Local data for better health. Retrieved
from https://www.cdc.gov/places/
Centers for Disease Control and Prevention. (2021). United States cancer statistics: data visualizations.
Retrieved from https://gis.cdc.gov/Cancer/USCS/#/StateCounty/
Centers for Medicare & Medicaid Services. (2021). Chronic conditions. Retrieved from
https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and
Reports/Chronic-Conditions/CC_Main.html
County Health Rankings & Roadmaps. (2021). Rhode Island. Retrieved from
http://www.countyhealthrankings.org/
Dignity Health. (2021). Community need index. Retrieved from http://cni.dignityhealth.org/
Environmental Protection Agency. (2021). Interactive radon map. Retrieved from
https://www.epa.gov/radon/epa-map-radon-zones
Feeding America. (2021). Food insecurity in the United States. Retrieved from
https://map.feedingamerica.org/
Health Resources and Service Administration. (2021). HPSA find. Retrieved from
https://data.hrsa.gov/tools/shortage-area/hpsa-find
HousingWorks RI. (2021). 2021 Housing fact book. Retrieved from
https://www.housingworksri.org/Research-Policy/Publications-Reports/Fact-Books



Prevent Overdose RI. (2021). See the data. Retrieved from https://preventoverdoseri.org/see-the-data/

Rhode Island Coalition to End Homelessness. (2020). 2020 Point-in-time count. Retrieved from https://www.rihomeless.org/point-in-time

Rhode Island Department of Health. (n.d.). *Data*. Retrieved from https://health.ri.gov/data/

Rhode Island Department of Health. (2021). *Rhode Island COVID-19 response data*. Retrieved from https://ri-department-of-health-covid-19-data-rihealth.hub.arcgis.com/

Rhode Island Kids Count. (2021) *Policy briefs and special publications*. Retrieved from https://www.rikidscount.org/Data-Publications/Policy-Briefs-and-Special-Publications

Rhode Island Kids Count. (2021) *RI kids count factbook.* Retrieved from https://www.rikidscount.org/Data-Publications/RI-Kids-Count-Factbook

- Tufts Health Plan Foundation. (2020). 2020 Rhode Island healthy aging data report. Retrieved from https://healthyagingdatareports.org/rhode-island-healthy-aging-data-report/
- United States Bureau of Labor Statistics. (2021). *Local area unemployment statistics*. Retrieved from https://www.bls.gov/lau/

United States Census Bureau. (n.d.). *American Community Survey*. Retrieved from http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml

United States Department of Health and Human Services. (2010). *Healthy people 2030.* Retrieved from https://health.gov/healthypeople/objectives-and-data/browse-objectives