

# **2016 Community Health Needs Assessment**





Candor. Insight. Results.

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# **Our Commitment to Community Health**

Westerly Hospital serves the entire community with family-centered medical care that's leading edge, yet respectful, compassionate, and accountable to our patients. As an anchor institution, or leading economic engine in the community, Westerly Hospital is committed to the people it serves and the communities they live in.

Westerly Hospital's Community Benefits programs and services provide treatment, and promote health and healing as a response to identified community needs such as:

- > Free and discounted care to those unable to afford it.
- > Care to low-income beneficiaries of Medicaid and other indigent care programs.
- Services designed to improve community health and increase access to health care.

Examples of Community Benefit programs at Westerly Hospital include cardiac rehabilitation and cardiac risk factor reduction programs, diabetes education and support groups, internship opportunities for nursing and allied health professionals, community education programs, and financial counseling and arthritis exercise classes.

To guide our Community Benefits and health improvement efforts across the community, Westerly hospital participated in a statewide comprehensive Community Health Needs Assessment (CHNA), led by the Hospital Association of Rhode Island (HARI) and its member hospitals. The CHNA was conducted from June 2015 to June 2016. The 2016 CHNA builds upon our hospital's previous CHNA conducted in 2013. The assessment was conducted in a timeline to comply with requirements set forth in the Affordable Care Act (ACA), as well as to further our commitment to community and population health.

#### Westerly Hospital's Mission

Compassionately Provide a Superior Standard of Community Health Care Across Generations.

# Westerly Hospital's Vision

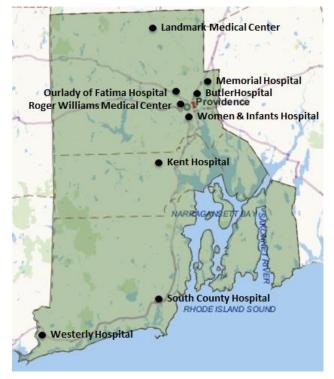
To be the Hospital of choice for Physicians, Employees, and Patients.

# 2016 CHNA Overview: A Statewide Approach to Community Health Improvement

Westerly Hospital participated in a statewide Community Health Needs Assessment (CHNA) led by the Hospital Association of Rhode Island (HARI) and its member hospitals. Through a coordinated statewide effort, HARI and its hospital members worked with the Rhode Island Department of Health and local community partners to collect health data, gather feedback on regional and local health needs, and develop coordinated plans to address priority health needs across the state.

# **2016 CHNA Partners:**

- > The Hospital Association of Rhode Island
- Care New England Health System: Butler Hospital; Kent Hospital; Memorial Hospital of Rhode Island; Women & Infants Hospital of Rhode Island
- > CharterCARE: Our Lady of Fatima Hospital; Roger Williams Medical Center
- > Landmark Medical Center
- > South County Health
- > Westerly Hospital



#### Map of Rhode Island CHNA Partner Hospitals

# **Research Methodology**

Quantitative and qualitative methods, representing both primary and secondary research, were used to illustrate and compare health trends and disparities across Rhode Island and within individual hospital service areas. Primary research methods were used to solicit input from key community stakeholders representing the broad interests of the community, including experts in public health and individuals representing medically underserved, low-income, and minority populations. Secondary research methods were used to gather existing statistical data to identify community health trends across geographic areas and populations.

Specific research methods:

- > A Secondary Data Profile comprising indicators for each county and hospital service area compared to state and national benchmarks
- An analysis and comparison of Hospital Discharge Data including emergency room, observation, and inpatient usage
- > Partner Forums with key representatives in each of the three counties served by the CHNA partners
- > Focus Groups with behavioral health consumers and English and Spanish-speaking Latino/a residents

# Leadership

The 2016 HARI CHNA was overseen by a Steering Committee of representatives from HARI and each member hospital as follows:

Liz Almanzor, Finance Director, Hospital Association of Rhode Island Otis Brown, CharterCARE Laurel Holmes, Westerly Hospital Carolyn Kyle, Landmark Medical Center Gina Rocha, Hospital Association of Rhode Island Alex Speredelozzi, Care New England Kellie Sullivan, Care New England Stephany Valente, Care New England Cynthia Wyman, South County Hospital

Ex officio: Michael Souza, President, Hospital Association of Rhode Island Ana Novais, Rhode Island Department of Health

#### **Research Partner**

Baker Tilly assisted in all phases of the CHNA including project management, quantitative and qualitative data collection, report writing, and development of the Implementation Strategy. Baker Tilly's expertise ensured the validity of the research and assisted in developing an Implementation Plan to address the highest health needs across the Westerly Hospital service area.

# Alignment with Public Health

The CHNA Steering Committee actively sought feedback and coordinated research and planning efforts with the Rhode Island Department of Health (RI DOH) to ensure statewide efforts for community health improvement were aligned. In addition to cross-communication between the RI DOH and the CHNA Steering Committee, efforts were made to coordinate local research with the RI DOH Health Equity Zones (HEZ). Health Equity Zones receive funding through a RI DOH initiative with the CDC to address health disparities. Partner forums, focus groups and planning were conducted in coordination with and inclusion of the HEZ partners.

# **Community Engagement**

Community engagement was a key component of the 2016 HARI CHNA. The CHNA included wide participation of public health experts and representatives of medically underserved, low income, and minority populations. The RI DOH and HEZ partners were included throughout the process to collect insights and provide access to underserved populations. A full listing of agencies represented in the CHNA research and planning is listed in Appendix A.

# **Prioritization of Community Health Needs**

The HARI Steering Committee correlated quantitative and qualitative data from the 2016 CHNA and compared with findings from the 2013 CHNA and RI DOH Community Health Improvement Plan to define statewide health priorities. In line with the 2013 CHNA and the RI DOH, the following community health issues were identified as statewide priorities.

- > Behavioral Health
- > Chronic Disease: Diabetes & Heart Disease
- > Maternal & Child Health

# **Development of a Community Health Improvement Plan**

Each CHNA partner hospital developed an Implementation Plan that outlined the priority area(s) the hospital/health system would address and a three year action plan to align community benefit activities with community health needs.

# **Board Approval and Adoption**

The Westerly Hospital Board of Director adopted the 2016 CHNA Final Report and Implementation Plan on August 29, 2016. The documents are widely available to the public via the Westerly Hospital website and the HARI <u>RhodelslandHealthcarematters.org</u> portal.

# **Westerly Hospital Service Area**



Westerly Hospital serves the following zip codes, primarily in Washington County, RI:

02804 Ashaway, RI 02807 Block Island, RI 02812 Carolina, RI 02813 Charlestown, RI 02832 Hope Valley, RI 02833 Hopkinton, RI 02891 Westerly, RI 02894 Wood River Junction, RI 06355 Mystic, CT 06359 North Stonington, CT 06372 Old Mystic, CT 06378 Stonington, CT 06379 Pawcatuck, CT 06388 West Mystic, CT 02808 Bradford, RI 02892 W. Kingstown, RI 02898 Wyoming, RI 06339 Ledyard, CT 06340 Groton, CT

# **Population Overview**

The population across Westerly Hospital's service area is primarily White although more racially and ethnically diverse than the surrounding Washington County, but less so than the state. The median age of residents is higher than the state, as is the median household income. In aggregate, Black/African American and Hispanic/Latino residents have a lower median income than Asian or White residents.

	Westerly Hospital Service Area	Washington County	Rhode Island	
White	87.6%	92.9%	79.8%	
Asian	3.5%	2.0%	3.3%	
Black or African American	3.1%	1.3%	5.9%	
Hispanic or Latino (of any race)	5.9%	3.2%	14.1%	
Median Age	42.5	43.7	40.1	
Median Income	\$69,658	\$72,267	\$56,945	

#### **2015 Population Overview**

Source: The Nielsen Company, 2015

# Westerly Hospital Service Area Demographics

The following section outlines key demographic indicators related to the social determinants of health within Westerly Hospital's service area. Social determinants of health are factors within the environment in which people live, work, and play that can affect health and quality of life, and are often the root cause of health disparity. Healthy People 2020 defines a health disparity as "a particular type of health difference that is closely linked with social, economic, and/or environmental disadvantage." All reported demographic data are provided by <sup>©</sup> 2015 The Nielsen Company.

# Language Spoken at Home

The languages spoken in the service area mimic the racial characteristics. Approximately 91% of residents speak English. Less than 3% speak Spanish as their primary language. Another 3.5% speak an Indo-European language.

# **Financial and Occupation Demographics**

Westerly Hospital's service area encompasses 48,949 housing units, 67.8% are owneroccupied and 32.2% are renter-occupied. The median home value for owner-occupied units is \$283,711, which is lower when compared to Washington County (\$320,447), but higher when compared to Rhode Island (\$252,604).

The median household income in Westerly Hospital's service area is \$69,658; however, income varies notably by race and ethnicity. The median income for Blacks/African Americans and Hispanics/Latinos is \$46,300 and \$54,676 respectively. The same disparity in income is seen across Rhode Island.

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	Westerly Hospital Service Area	Washington County	Rhode Island	
White	\$70,887	\$73,748	\$61,419	
Black or African American	\$46,300	\$28,681	\$36,627	
Asian	\$81,102	\$61,679	\$55,406	
Hispanic or Latino (of any race)	\$54,676	\$63,271	\$33,970	
Total Population	\$69,658	\$72,267	\$56,945	

#### 2015 Population by Median Household Income

Approximately 70% of service area residents age 16 years or over are in the workforce and 4.8% are unemployed, which is lower than the state and national averages (6.4% and 5.5% respectively). The majority of residents in the workforce are for-profit private workers (65.1%) and hold white collar positions (61.8%). Residents are most likely to work in office/administrative support (12.7%), management (10.4%), and sales (10%).

# **Education Demographics**

Education is the largest predictor of poverty and one of the most effective means of reducing inequalities. In Westerly Hospital's service area, 8.2% of residents 25 years or over have less than a high school diploma, 29.4% have a high school diploma, and 34.4% have at least a bachelor's degree. Residents in the Westerly Hospital service area have lower education attainment compared to all Washington County residents, but have higher education attainment than the state average.

	Westerly Hospital Service Area	Washington County	Rhode Island
Less than a high school diploma	8.2%	7.7%	14.5%
High school graduate	29.4%	23.5%	27.5%
Some college or associate's degree	28.0%	25.6%	26.8%
Bachelor's degree or higher	34.4%	43.2%	31.2%

#### 2015 Overall Population by Educational Attainment

Hispanic/Latino residents in the Westerly Hospital service area have notably lower educational attainment. Approximately 18% do not have a high school diploma and 23.3% obtain a bachelor's degree or higher. Greater disparities exist when compared to Washington County.

#### 2015 Hispanic/Latino Population by Educational Attainment

	Westerly Hospital Service Area	Washington County	Rhode Island
Less than a high school diploma	17.7%	16.2%	37.1%
High school graduate	28.5%	16.8%	29.3%
Some college or associate's degree	30.5%	29.5%	22.2%
Bachelor's degree or higher	23.3%	37.5%	11.4%

\*Educational attainment is not available for Blacks/African Americans or other racial groups

# Poverty

The percentage of all residents living in poverty within the Westerly Hospital service area is 8.4%; 14.1% of which are children. Poverty among children in the Westerly service area is higher than Washington County by 3.7% points, but lower than the state.

# Social Determinants of Health by Zip Code

In addition to reviewing socio-economic statistics for a population as whole, it is valuable to view demographics at the zip code level to identify geographical trends that can impact population health. Select factors are outlined below for zip codes across the Westerly Hospital service area to identify potential health disparities.

	Black/ African American	Hispanic/ Latino	English Speaking	All People in Poverty	Children (<18) in Poverty	Single Female Households w/ Children	Unemploy- ment	Less than HS Diploma
02891 Westerly	1.1%	4.1%	89.4%	10.9%	19.1%	9.8%	6.5%	13.5%
02808 Bradford	1.4%	2.0%	94.0%	10.7%	14.8%	11.2%	4.0%	14.9%
02807 Block Island	0.7%	4.3%	96.5%	10.2%	23.1%	6.3%	5.3%	3.4%
02813 Charlestown	0.4%	2.2%	96.8%	9.8%	18.3%	6.0%	4.2%	6.8%
02898 Wyoming	0.4%	2.4%	97.9%	9.0%	34.5%	5.2%	5.3%	9.5%
02894 Wood River Junction	0.4%	3.1%	97.8%	8.5%	0.0%	5.5%	4.9%	8.6%
02833 Hopkinton	0.5%	3.8%	96.8%	5.1%	0.0%	4.3%	2.4%	4.8%
02832 Hope Valley	0.4%	2.3%	97.1%	4.2%	8.8%	5.4%	2.8%	8.1%
02892 West Kingstown	1.0%	2.3%	95.7%	3.5%	0.0%	3.9%	5.2%	8.4%
02804 Ashaway	0.9%	2.8%	96.9%	3.3%	0.0%	7.3%	2.3%	9.3%
02812 Carolina	0.5%	1.4%	97.9%	0.5%	0.0%	4.4%	5.4%	9.5%
Total Service Area (SA)	3.1%	5.9%	91.4%	8.4%	14.1%	8.8%	4.8%	8.2%
Washington County	1.3%	3.2%	93.4%	8.9%	10.4%	7.6%	4.7%	7.7%
Rhode Island	5.9%	14.1%	79.0%	13.6%	19.5%	12.1%	6.4%	14.5%

# Social Determinants of Health Indicators by Zip Code

Color Coding Guide
Within 1% points of the Total SA
More than 1% point higher than the Total SA
Exception: English Speaking cells are more than 1% point lower than Total SA

# Statistical Health Data for the Westerly Hospital Service Area

# Background

Publicly reported health statistics were collected and analyzed to display health trends and identify health disparities across the service area. The following analysis primarily uses data available from the RhodelslandHealthcareMatters.org, an interactive data site developed through collaboration of the Hospital Association of Rhode Island, its members, and the Rhode Island Department of Health. A listing of all public health data sources can be found in Appendix B.

Given the HARI CHNA collaborative and that much of Westerly Hospital's service area is located in Washington County, RI, public health data focuses on Washington County, RI. State and national standards, when referenced, are drawn from the same source as the county statistic to which it is compared. Data from Westerly Hospital's 2013 CHNA, including Behavioral Risk Factor Surveillance System (BRFSS) data, are also incorporated to provide trending analysis. Note that BRFSS data represent Westerly Hospital's specific Rhode Island service area, not all of Washington County.

Healthy People 2020 (HP 2020) goals are national goals created by the U.S. Department of Health and Human Services to set a benchmark for all communities to strive towards. Healthy People goals are updated every ten years and progress is tracked throughout the decade. Comparisons to Healthy People 2020 goals are included where applicable.

# **Access to Health Services**

Ninety-two percent of Washington County adults (ages 18 to 64 years) have health insurance. The percentage is higher than both the Rhode Island average (89.6%) and the national average (83.7%), and represents an increase from 2013 (89.8%). Adults

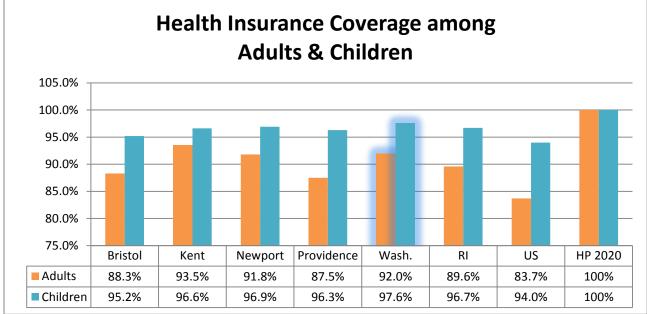
ages 25 to 34 years are the least likely to be insured (84.4%).

Healthy People 2020 Goal = 100% of adult and children insured

The percentage of children with health insurance (97.6%) is also above the state and national averages of 96.7% and 94%

Washington County = 92% adults; 97.6% children insured

respectively. The percentage remained steady from 2013 (97.9%). The Healthy People 2020 goal is 100% of all adults and children be insured by 2020.

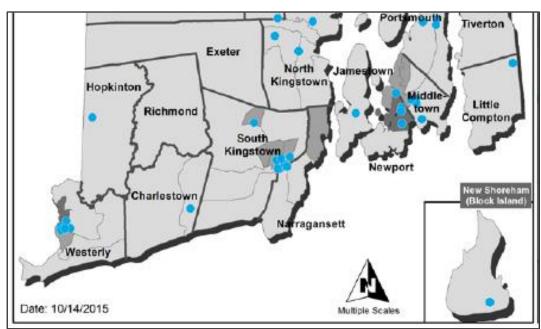


Source: American Community Survey, 2014\* \*Bristol data represents the averages of 2011-2013 data

Westerly Hospital's 2013 CHNA BRFSS study showed that 13% of adults in its service area could not see a doctor due to cost barriers. The state and national percentages were 15.8% and 17% respectively.

# Access to Primary Care

A total of 803 primary care physicians were identified in Rhode Island in 2014; however, based on their total number of hours worked per week, full-time equivalents equated to 602.7 physicians and a ratio of one physician for every 1,718.1 Rhode Islanders. The following figure and table illustrate the location of primary care practices (n=341) layered over population density and the primary care physician ratio by town.



Primary Care Providers in and around Washington County, 2014

Source: Rhode Island Department of Health Statewide Health Inventory, 2015

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Town	Ratio	Town	Ratio
Charlestown	9,776.3	Narragansett	1,901.4
Hopkinton	2,905.0	South Kingstown	1,212.9
North Kingstown	2,877.1	New Shoreham	836.0
Westerly	2,051.9		

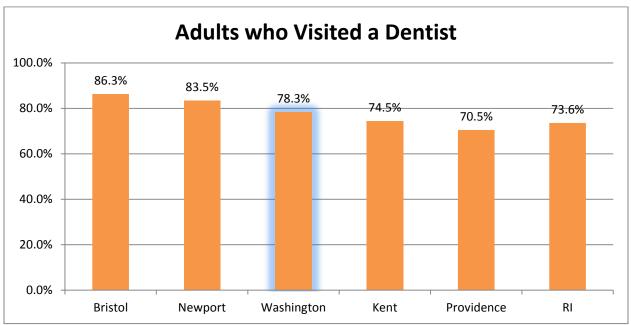
#### Primary Care Physician Ratio by Washington County Town

Source: Rhode Island Department of Health Statewide Health Inventory, 2015

In Rhode Island in 2014, 81% of primary care practices saw at least one Medicaid patient, but less than 20% of practices had a patient population that was at least 30% covered by Medicaid.

## Access to Dental Care

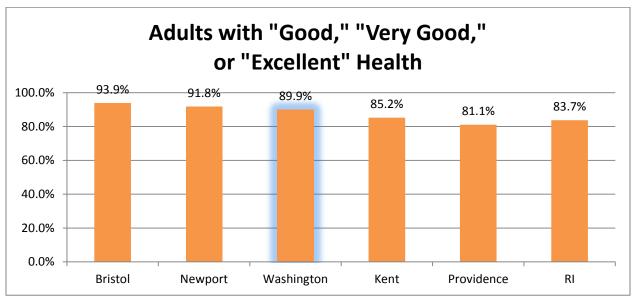
The dental provider rate in Washington County (52 per 100,000) is the second lowest among all five counties and lower than the state rate (61 per 100,000). However, 78.3% of adults in Washington County report visiting a dentist, which is higher than the state average. The percentage is not comparable to past years of data due to changes in methodology.



Source: Behavioral Risk Factor Surveillance System, 2010 & 2012

# **Overall Health Status**

Overall health status is measured by self-reported indicators, life expectancy, and premature death. Approximately 90% of Washington County adults report having good, very good, or excellent health. The percentage is higher than the state average and increased from 87.9% in 2011. Adults report an average of 3.1 days of poor physical over a 30 day period, which is lower than Rhode Island (3.5) and the nation (3.7).



Source: Behavioral Risk Factor Surveillance System, 2010 & 2012

Life expectancy in Washington County is among the highest in Rhode Island and equates to 77.4 years for males and 82.6 years for females. Life expectancy for males remained the same from the 2009 report, but life expectancy for females increased slightly from 82.4 years.

Premature death measures the years of potential life lost or years of death before age 75. Washington County has one of the lowest premature death rates in Rhode Island (4,939.3 per 100,000). The rate is also lower when compared to the national average of 6,622 per 100,000. Washington County life expectancy is higher than both RI and the nation. The premature death rate is lower than both RI and the nation.

	Bristol	Kent	Newport	Provid.	Wash.	RI	US
Life Expectancy							
Males	77.7	76.3	78.1	76.3	77.4	76.7	75.0
Females	82.6	80.6	82.9	81.2	82.6	81.4	79.8
Premature Death	3,890.9	6,458.2	4,729.9	6,124.2	4,939.3	5,808	6,622

#### Life Expectancy & Premature Death per 100.000

Source: Institute for Health Metrics and Evaluation, 2010 & County Health Rankings, 2010-2012

# **Health Behaviors**

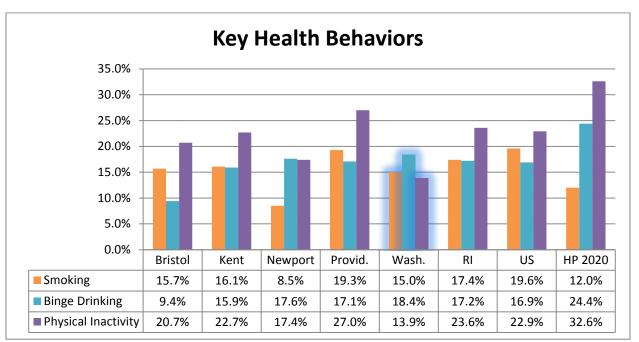
Individual health behaviors, including smoking, excessive drinking, physical inactivity,

Washington County adults smoke less and are more physically active compared to the state and nation and obesity, have been shown to contribute to or reduce the chance of disease. The prevalence of these health behaviors is illustrated below, compared to Rhode Island and national averages and the Healthy People 2020 goals.

Washington County adults are among the least likely to smoke and are the most physically active in Rhode Island. The percentage of smokers decreased by 1.1 points, and physical inactivity decreased by 6.3 points, since 2011.

The percentage of binge drinkers in Washington County decreased from the 2011 CHNA report of 19.2% to 18.4%. It is the highest in the state and higher than the nation, but is within the Healthy People 2020 guidelines.

More Washington County adult residents report binge drinking



Source: Behavioral Risk Factor Surveillance System, 2010 & 2012

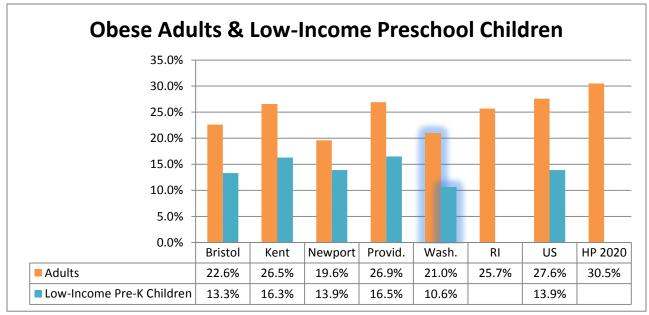
# **Overweight and Obesity**

The percentage of overweight and obese adults and children is a national epidemic. In

Washington County, 61.2% of adults are overweight or obese and 21% are obese. The percentages decreased by 1.5 and 2.6 points respectively, and are lower than state and national averages.

Approximately 11% of low-income preschool children in

Washington County are obese. The percentage is the lowest in the state, lower than the national average of 13.9%, and decreasing from the 2013 CHNA finding of 11.1%. The children represented by this indicator are ages 2 to 4 years and participate in federally funded health and nutrition programs. Data for this age group is not available for the state of Rhode Island or Healthy People 2020.



Source: Behavioral Risk Factor Surveillance System, 2010 & 2012 & US Department of Agriculture, 2009-2011

\*Obesity data for low-income Pre-K children is not available for Rhode Island or Healthy People 2020

Overweight and obesity are also affected by access to nutritious food. In Washington County, 12.1% of all residents and 18.7% of children were food insecure in the last

year. Food insecurity is defined as being without a consistent source of sufficient and affordable nutritious food. The percentages in Washington County are the second lowest in Rhode Island and lower than the nation, but increasing. The percentage of food

Food insecurity in Washington County is among the lowest in the state, but increasing

Fewer adults and children

are overweight or obese in

Washington County than

the state and nation

insecure residents increased by 0.5 points, while the percentage of food insecure children increased by 1.4 points.

Washington County also has a notably higher rate of fast food restaurants (0.77 per 1,000 residents) compared to grocery stores (0.25 per 1,000 residents).

r ercentage of rood insecure residents				
	All Residents	Children		
Bristol	11.9%	16.9%		
Kent	13.0%	20.0%		
Newport	13.5%	19.8%		
Providence	15.8%	23.7%		
Washington	12.1%	18.7%		
Rhode Island	14.4%	21.7%		
United States	15.1%	23.7%		

# Percentage of Food Insecure Residents

Source: Feeding America, 2013

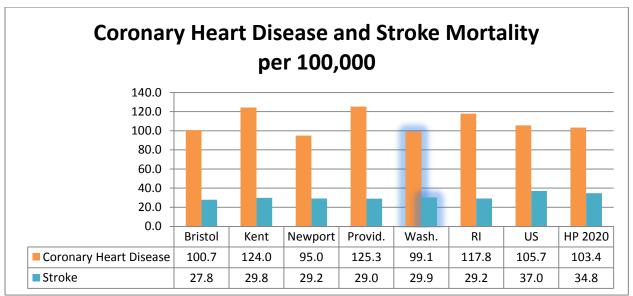
# **Chronic Diseases**

Chronic disease rates are increasing across the nation and are the leading causes of death and disability. Chronic diseases are often preventable through reduced health risk behaviors like smoking and alcohol use, increased physical activity and good nutrition, and early detection of risk factors and disease.

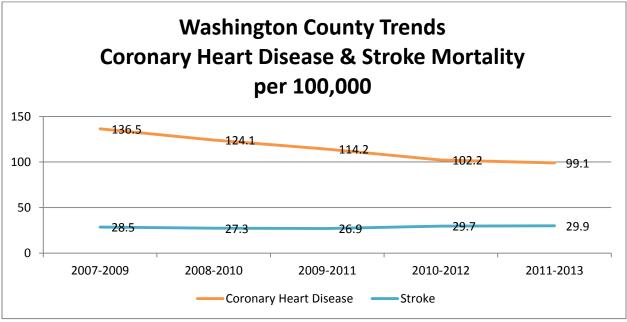
#### Heart Disease and Stroke

Heart disease is the leading cause of death in the nation. Washington County has one of the lowest mortality rates in The Washington County heart disease death rate is lower than the nation and among the lowest in the state

the state for coronary heart disease (99.1 per 100,000). The rate is lower than the state and the nation, and meets the Healthy People 2020 goal. In addition, the rate represents a decrease from the last report of 102.2 per 100,000.

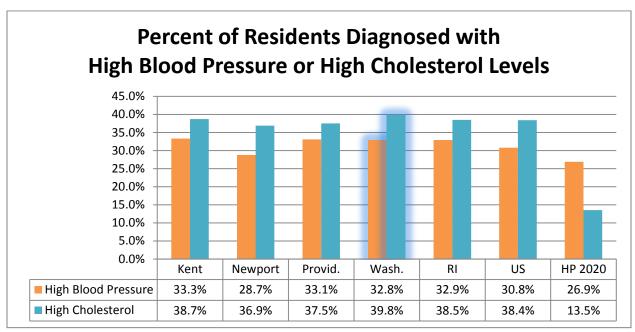


Source: Centers for Disease Control and Prevention, 2011-2013



Source: Centers for Disease Control and Prevention

Heart Disease is often a result of high blood pressure and high cholesterol, which can result from poor diet and exercise habits. The table below shows that Washington County is in line with the state and nation, but does not meet the Healthy People 2020 goals for high blood pressure and cholesterol.



Source: Behavioral Risk Factor Surveillance System, 2009 & 2011 \*Data for Bristol County is not available.

# Cancer

Cancer is the second leading cause of death in the nation behind heart disease. Cancer incidence rates are declining in Washington County for breast, colorectal, and prostate cancer; the incidence rate for lung cancer is increasing. Incidence rates for female breast cancer and prostate cancer in Washington County are among the highest in the state, while incidence rates for colorectal cancer and lung cancer are among the lowest in the state.

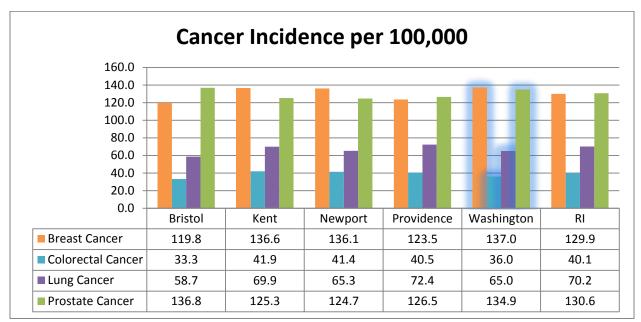
Cancer screenings are essential for early diagnosis and reducing cancer mortality. Colorectal cancer screenings are recommended for adults age 50 years or over. In Washington County, 84.7% of adults over 50 have had a colorectal cancer screening, the highest in the state. Mammograms are recommended for women age 50 years or over to detect breast cancer. Equal to the state, 83.5% of women in Washington County had a mammogram in the past two years.

	Banbon Bonbonningo	
	Colorectal Cancer	Mammogram in
	Screening	Past Two Years
Bristol	79.8%	87.2%
Kent	79.3%	82.6%
Newport	74.6%	83.4%
Providence	69.6%	83.2%
Washington	84.7%	83.5%
Rhode Island	74.7%	83.5%

#### **Cancer Screenings**

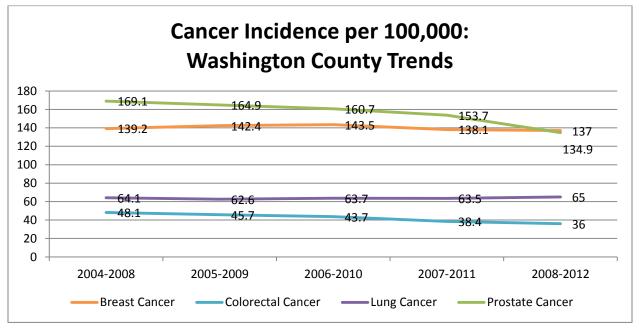
Source: Behavioral Risk Factor Surveillance System, 2010 & 2012

Presented below are the incidence and death rates for the most commonly diagnosed cancers: breast (female), colorectal, lung, and prostate (male).



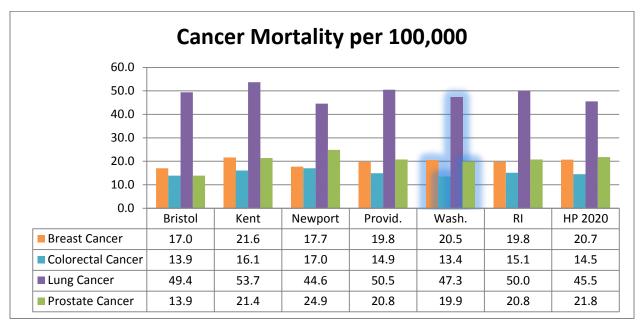
Source: National Cancer Institute, 2008-2012

Higher incidence rates can be linked to increased screenings. Breast cancer incidence is higher in Washington County although a similar percentage of women receive mammography screenings across the state. Fewer adults are diagnosed with colorectal cancer, although a higher percentage of residents are screened in Washington County.



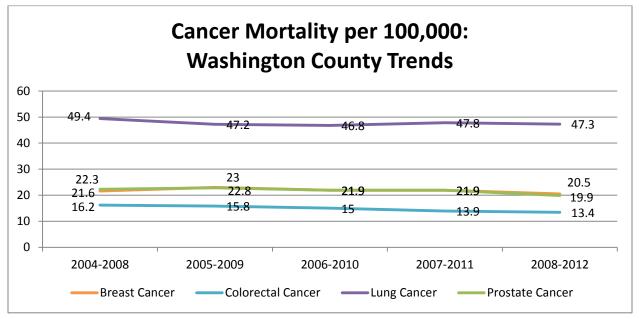
Source: National Cancer Institute

Cancer mortality rates in Washington County are generally lower than or equivalent to both the state and Healthy People 2020 goals.



Source: National Cancer Institute, 2008-2012

There are slightly more deaths due to breast cancer in Washington County, otherwise the mortality rate for cancer in Washington County is consistent with the state and the trends have remained steady or slightly declining. Lung cancer is the only rate that is higher than the Healthy People 2020 goal.



Source: National Cancer Institute

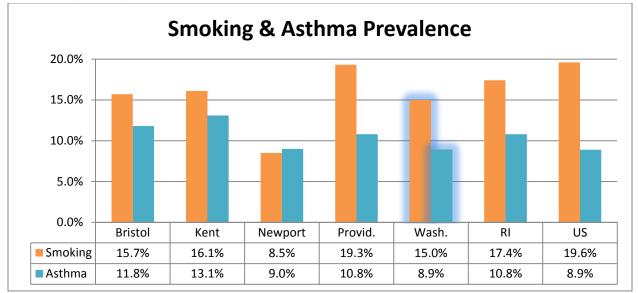
#### Chronic Lower Respiratory Disease

Chronic lower respiratory disease (CLRD) is the third most common cause of death in the nation. CLRD encompasses diseases like chronic obstructive pulmonary disorder, emphysema, and asthma.

Washington County adults have the lowest prevalence of asthma in the state (8.9%). The percentage is on par with the 2013 CHNA which reported 8.8% of adults have asthma.

More children in Westerly Hospital's service area have asthma compared to the nation

The 2013 Behavioral Risk Factor Surveillance System (BRFSS) study conducted in Westerly Hospital's service area found that 16.2% of children have asthma. The percentage is higher than the national BRFSS comparison (13.4%).



Source: Behavioral Risk Factor Surveillance System, 2010 & 2012

Smoking cigarettes contributes to the onset of CLRD. In Washington County, 15% of adults smoke cigarettes. Between 5% and 13% of high school students in Washington County report smoking.

	Cigarette Use				
School District	Middle School	High School			
Chariho Regional	1%	13%			
Narragansett	3%	9%			
North Kingstown	1%	5%			
South Kingstown	2%	8%			
Westerly	1%	8%			
Rhode Island	2%	9%			

2013-2014 Youth Cigarette Use in Washington County School Districts

Source: Rhode Island Kids Count Factbook, 2015

#### Diabetes

Diabetes is caused either by the body's inability to produce insulin or effectively use the insulin that is produced. Diabetes can cause a number of serious complications. Type II diabetes, the most common form, is largely preventable through diet and exercise.

Fewer Washington County adults have diabetes (7.3%) when compared to the state and the nation, but the percentage increased from 6.9% in the 2013 CHNA.

Diabetes prevalence and mortality in Washington County is lower compared to both the state and the nation, but both indicators increased from the 2013 CHNA

The diabetes mortality rate in Washington County

(14.1 per 100,000) is also lower than the state and the nation, but increased from the 11.3 per 100,000 in the 2013 CHNA.

Diabetes i revalence a mortanty					
	Diabetes	Diabetes Mortality			
	Prevalence	per 100,000			
Bristol	3.6%	11.3			
Kent	11.6%	16.1			
Newport	7.0%	11.9			
Providence	10.0%	17.0			
Washington	7.3%	14.1			
Rhode Island	9.8%	15.7			
United States	9.7%	21.3			

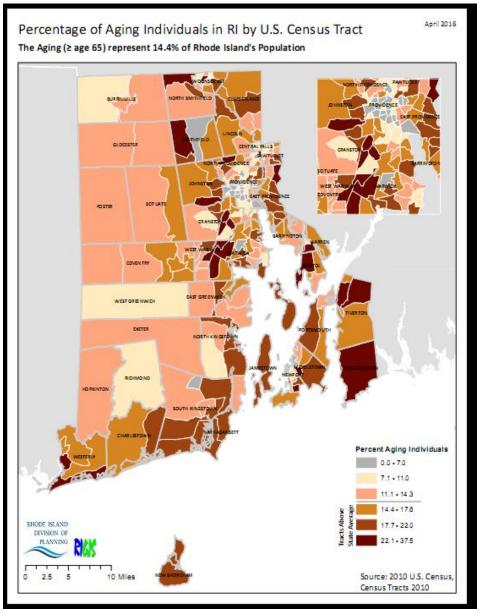
#### **Diabetes Prevalence & Mortality**

Source: Behavioral Risk Factor Surveillance System, 2010 & 2012 & Centers for Disease Control and Prevention, 2011-2013

# **Senior Health**

In 2010, Rhode Island had a senior (65 years or over) population of 152,000. By 2025, Rhode Island is projected to be a super-aging state, meaning more than one in five in the population will be 65 years or over. By 2030, the number of seniors is projected to increase to 247,000; Rhode Island will have the ninth highest percentage of adults 65 years or over in the nation and the highest percentage of adults 85 years or over.

In Washington County, New Shoreham is a designated super-aging place. The southern tier of the county, including Westerly, Charlestown, Narragansett, and parts of South Kingstown, also has a higher percentage of aging adults.



Source: Rhode Island Aging in Community, 2016

Seniors face a number of challenges related to health and well-being as they age. They are more prone to social isolation, poverty, and disability. The following table depicts indicators for each of these concerns for older Rhode Islanders, based on the 2014 American Community Survey.

	Percentage
Social Isolation	
Householders Living Alone	31.6%
Speak English Less than Well	9.4%
Widowed	26.3%
Poverty	
Income Less than \$30,000	42.0%
Income Less than 150% of Federal Poverty Level	20.0%
Homeowners with Housing Cost-Burden	39.0%
Households with non-Social Security Retirement Income	49.0%
Renters with Housing Cost-Burden	52.0%
With Disability	35.2%
Ambulatory	23.5%
Self-Care	7.3%

Source: Rhode Island Aging in Community, 2016

In 10 focus groups conducted by the Aging in Community Subcommittee with seniors in Rhode Island, the following key themes and needs were also highlighted:

- > Senior Centers are highly valued
- > Financial concerns exist now and into the future
- > Transportation is a huge concern
- > There is a need for information about services
- > There is a lack of affordable housing
- > Seniors face loneliness and "alone-ness"
- > Customer service within the state is perceived to be unfriendly
- > There is a lack of respect for seniors in society
- > Seniors want to contribute to the community/volunteer

# **Chronic Conditions**

Seniors are also more prone to chronic conditions. The following table notes the percentage of Medicare Beneficiaries 65 years or over who have been diagnosed with a chronic condition. The percentage of Medicare Beneficiaries in Washington County with a chronic condition is typically lower than or equivalent to the state and the nation.

	Bristol	Kent	Newport	Provid.	Wash.	RI	US
Alzheimer's Disease	11.6%	12.1%	10.7%	13.4%	12.1%	12.5%	11.4%
Asthma	5.1%	6.1%	4.3%	6.2%	4.9%	5.7%	4.3%
Cancer	10.9%	11.2%	10.8%	10.4%	10.4%	10.6%	9.1%
Depression	13.4%	16.1%	13.3%	16.0%	12.1%	15.0%	12.7%
Diabetes	24.0%	27.2%	23.4%	28.7%	22.4%	26.6%	27.4%
Hypertension	60.8%	65.2%	60.4%	65.4%	61.4%	63.9%	59.1%
High Cholesterol	54.8%	56.5%	51.6%	55.1%	52.8%	54.5%	48.0%
Coronary Heart Disease	26.5%	34.3%	27.0%	31.3%	30.3%	30.9%	31.1%
Stroke	3.6%	4.5%	4.6%	4.1%	3.6%	4.1%	4.1%

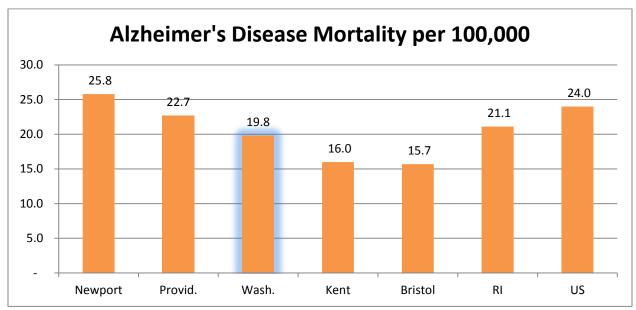
#### Chronic Conditions among Medicare Beneficiaries 65 Years or Over

Source: Centers for Medicare & Medicaid Services, 2012

#### Alzheimer's disease

According to the National Institute on Aging, "Although one does not die of Alzheimer's disease, during the course of the disease, the body's defense mechanisms ultimately weaken, increasing susceptibility to catastrophic infection and other causes of death related to frailty."

The age-adjusted death rate due to Alzheimer's disease in Washington County increased from 18.9 per 100,000 in the 2013 CHNA, but is still lower than the state and the nation.



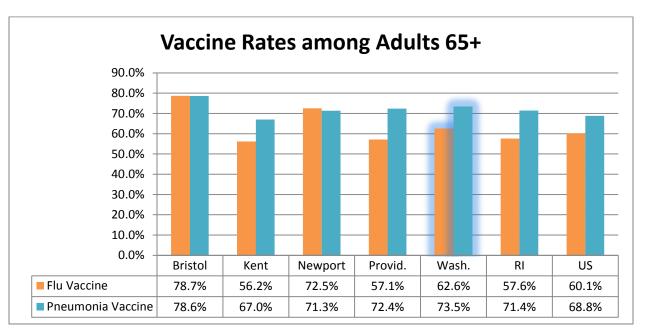
Source: Centers for Disease Control and Prevention, 2011-2013

#### Immunizations

The Advisory Committee on Immunization Practices recommends all individuals age six

months or older receive the flu vaccine. However, the vaccine is a priority for older adults. The flu vaccination rate increased from the 51.2% to 62.6% since the last CHNA. The pneumonia vaccine is also recommended for adults age 65 years or over. The pneumonia vaccination rate increased from 71.2% to 73.5% since the last CHNA.

Washington County senior vaccination rates for flu and pneumonia increased since the last CHNA.



Source: Behavioral Risk Factor Surveillance System, 2008, 2010, & 2012

# **Behavioral Health**

Behavioral health encompasses both mental health and substance abuse conditions. Diagnosis, treatment, and comorbidity with chronic diseases are having an increasing impact on residents, patients, and the healthcare system. According to the September 2015 *Rhode Island Behavioral Health Project Report* by Truven Health Analytics, Rhode Island children and adults experience poorer mental health and substance abuse outcomes than residents in other New England states. Adult residents in Rhode Island are more likely to be hospitalized for mental health and substance use disorders. The following section analyzes measures related to feelings of depression, mental health diagnoses, mental health deaths, and provider access in Washington County.

#### **Mental Health**

Washington County adults report an average number of 3.2 poor mental health days per 30-day period, which is in line with most other counties, the state, and the nation.

However, the 2013 CHNA found that 18.6% of adults have been diagnosed with a depressive disorder compared to 22% across the state and 16.8% across the nation. In addition, Washington County has the highest suicide rate (13.9 per 100,000) in Rhode Island. The rate is higher than the nation, exceeds the Healthy People

Washington County has the highest suicide rate in Rhode Island; it increased since the 2013 CHNA

2020 goal, and increased from the 2013 CHNA (11.5 per 100,000). Suicide in Washington County was declining, but experienced a sharp increase during the most recent 2011-2013 reporting cycle.

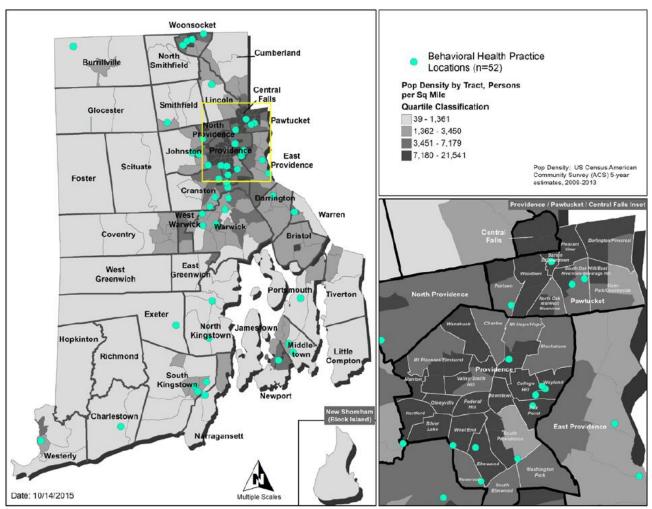
	Poor Mental	Suicide per	Mental Health		
	Health Days	100,000	Provider Ratio		
Bristol	2.9	N/A	541:1		
Kent	4.0	10.5	397:1		
Newport	3.0	11.0	354:1		
Providence	3.7	9.1	257:1		
Washington	3.2	13.9	366:1		
Rhode Island	3.6	10.2	298:1		
United States	3.4	12.5	529:1		
HP 2020	N/A	10.2	N/A		

#### **Mental Health Measures**

Source: Behavioral Risk Factor Surveillance System, 2010 & 2012 & Centers for Disease Control and Prevention, 2011-2013 & County Health Rankings, 2012

## **Behavioral Health Providers**

There are 52 licensed behavioral health clinics in Rhode Island. In 2014, the median number of patients seen across all clinics was 566. The following figure illustrates the location of the clinics layered over population density.



Source: Rhode Island Department of Health Statewide Health Inventory, 2015

Behavioral health providers are most available in Providence and Kent Counties. A full list of Behavioral Health providers in Washington County is included in Appendix C.

## Substance Abuse

Substance abuse includes both alcohol and drug abuse. In Washington County, 18.4%

of adults report binge drinking, 43.8% of driving deaths are due to alcohol-impaired driving, and the drug poisoning death rate is 13.2 per 100,000. The percentage of binge drinkers is the highest in the state and higher than the nation, although within the Healthy People 2020 guidelines. The measure decreased from 19.2% in 2011. The percentage of deaths due to alcohol-impairment remained steady since the last reporting and exceeds the state and the nation. The rate of drug poisoning deaths

Binge drinking and DUI deaths are among the highest in the state and exceed the nation.

Drug poisoning deaths increased 2.6 points.

increased 2.6 points from 10.6 per 100,000 during years 2004 to 2010.

	Binge Drinking	Percent of Driving Deaths due to DUI	Drug Poisoning Deaths per 100,000
Bristol	9.4%	28.6%	11.7
Kent	15.9%	47.3%	18.9
Newport	17.6%	50.0%	10.3
Providence	17.1%	38.0%	17.5
Washington	18.4%	43.8%	13.2
Rhode Island	17.2%	41.4%	16.4
United States	16.9%	30.6%	N/A
HP 2020	24.4%	N/A	N/A

#### **Substance Abuse Measures**

Source: Behavioral Risk Factor Surveillance System, 2010 & 2012 & County Health Rankings, 2006-2012 & 2009-2013

The *Rhode Island Behavioral Health Project Report* reported that Rhode Island residents have the highest rate of death due to narcotics and hallucinogens in comparison to other New England states. The rate is also higher than the national average. In addition, residents are more likely to be hospitalized for mental and substance use disorders and have unmet mental health care needs in comparison to other New England states. The hospitalization rate is 26% higher than Massachusetts (second highest in New England) and 150% higher than Vermont.

#### Youth Behavioral Health

An increasing number of youth are affected by behavioral health issues. *Rhode Island Kids Count* reported that in 2013, 2,737 youth were hospitalized across five hospitals with a primary diagnosis of mental disorder. The number of hospitalizations represents an increase of 53% from 2003. The report identified the top diagnoses for inpatient care as depressive disorders (41%), bipolar disorders (38%), anxiety disorders (12%), and adjustment disorders (5%). Rhode Island adolescents age 12 to 17 years are more likely to have major depressive episodes, and young adults age 18 to 24 years are more

likely to have serious psychological distress, when compared to other New England states and the nation.

In 2014, 151 youth across Washington County were hospitalized for a psychiatric diagnosis. The majority of youth resided in North Kingstown and Westerly. In addition, 113 youth emergency mental health evaluations were conducted at Westerly Hospital and 88 were conducted at South County Hospital. South County Hospital evaluations included after hours services not provided by the Department of Behavioral Health.

	Number of Hospitalizations			
North Kingstown	67			
Westerly	40			
South Kingstown	27			
Narragansett	17			

Source: Truven Health Analytics, 2015

In 2013, 14% of Rhode Island high school students reported attempting suicide and there were 916 emergency department visits and 406 hospitalizations among youth 13 to 19 years for suicide attempts. A total of 24 youth in Bhada Jaland diad due to suiside between 14% of Rhode Island high school students reported attempting suicide

of 24 youth in Rhode Island died due to suicide between 2009 and 2013.

Substance abuse is affecting more youth in Rhode Island. The following table depicts substance abuse data among middle and high school students by town in Washington County. In general, adolescents age 12 to 17 years in Rhode Island have higher rates of illicit drug use when compared to other New England states and the nation.

2013-2014 Touth Substance Abuse in Washington County School Districts								
	Alcoho	ol Use	Marijuana Use		Prescription Drug Use		Cigarette Use	
School	Middle	High	Middle	High	Middle	High	Middle	High
District	School	School	School	School	School	School	School	School
Chariho Regional	3%	26%	3%	33%	3%	12%	1%	13%
Narragansett	6%	32%	7%	38%	4%	13%	3%	9%
North Kingstown	2%	20%	2%	28%	2%	11%	1%	5%
South Kingstown	5%	24%	8%	29%	3%	11%	2%	8%
Westerly	4%	21%	6%	31%	3%	10%	1%	8%
Rhode Island	6%	26%	7%	34%	3%	12%	2%	9%

# 2013-2014 Youth Substance Abuse in Washington County School Districts

Source: Rhode Island Kids Count Factbook, 2015

Maternal and Child Health

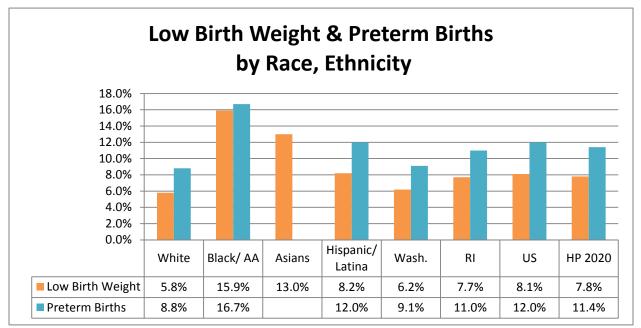
## Prenatal & Infant Health

Maternal and child health is measured by a number of indicators, including low birth weight and preterm births. Low birth weight is defined as a birth weight of less than 5 pounds, 8 ounces. It is often a result of premature birth, fetal growth restrictions, or birth defects.

White mothers in Washington County are less likely to have a low birth weight baby, while Asian/ Pacific Islander and Black/African American mothers are more than twice as likely to have low birth weight babies. Hispanic/Latina Black/African American mothers are more than twice as likely to have low birth weight babies or preterm births

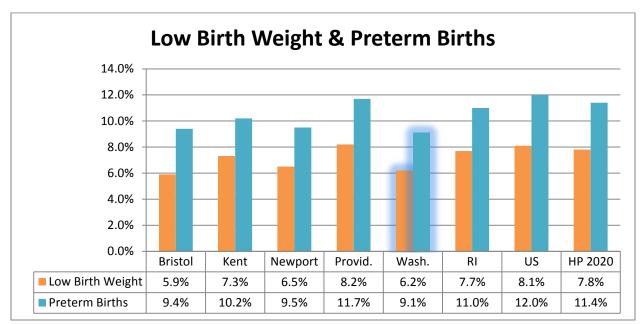
mothers are also more likely to have low birth weight babies than White counterparts.

Premature births are births that occur earlier than the 37<sup>th</sup> week of pregnancy. They often lead to infant death. Black/African American mothers in Washington County are almost twice as likely to have preterm babies than White mothers. Hispanic/Latina mothers are also more likely to have preterm births. Preterm birth rates are not available for Asian/Pacific Islander.



Source: Health Indicators Warehouse, 2007-2013

\*Preterm birth data is not available for Asians/Pacific Islanders



Source: Health Indicators Warehouse, 2007-2013

*Rhode Island Kids Count* published additional indicators contributing to infant health. These indicators are presented below for towns within Washington County.

	Total Births	Births per 1,000 Girls 15-19 years	Delayed Prenatal Care*	Exclusively Breast Fed at discharge	Preterm Births	Infant Mortality per 1,000 Births
Charlestown	269	16.6	NA (n=14)	81%	NA (n=30)	NA**
Exeter	257	11.4	NA (n=22)	77%	NA (n=12)	0.0
Hopkinton	357	15.6	NA (n=28)	79%	NA (n=32)	0.0
Narragansett	405	3.1	NA (n=34)	77%	NA (n=41)	NA**
New Shoreham	55	NA (n=2)	NA (n=3)	83%	NA (n=5)	0.0
North Kingstown	992	9.0	8.7%	75%	5.7%	NA**
Richmond	369	11.2	NA (n=22)	83%	NA (n=32)	NA**
South Kingstown	947	2.4	7.9%	78%	8.8%	NA**
Westerly	1,030	21.5	7.2%	78%	9.1%	NA**
Rhode Island	55,169	21.0	12.8%	64%	10.7%	6.6

#### 2009-2013 Infant Health by Maternal Characteristics and Town

Source: Rhode Island Kids Count Factbook, 2015

\*Percentage of mothers initiating prenatal care in the second or third trimester; NA represents too few cases to report a percentage

\*\*The number of infant deaths is less than 5

According to *Rhode Island Kids Count,* in 2013 76 babies were diagnosed with Neonatal Abstinence Syndrome (NAS). The equivalent rate is 72 per 100,000 births and is nearly double the 2006 rate of 37.2 per 100,000 births.

#### Immunizations

The Advisory Committee on Immunization Practices recommends that all individuals age six months or older receive the flu vaccine. However, the vaccine is considered a priority for children ages six months to four years. The 2013 CHNA found that 58.7% of children under 18 years in Providence County received a flu vaccine. The statewide average was 73.2%.

In addition, the Advisory Committee on Immunization Practice recommends a series of vaccinations for all children age 19 months to 35 months. The series includes diphtheria, tetanus, polio, measles, etc. *Rhode Island Kids Count* reported that 82% of Rhode Island children received the full series of vaccinations, the best in the nation. The report also found that 95% to 98% of kindergarten students received the five immunizations required for school entry.

# Westerly Hospital Utilization Data Analysis

# Background

Westerly Hospital discharge data related to chronic diseases and behavioral health was analyzed across the emergency room, observation, and inpatient settings to determine usage trends related to key community health needs. The data were correlated with public health statistics and socio-economic measures to determine if there were utilization patterns among high risk populations and to improve outcomes for patients.

The claims data was provided by Truven Health Analytics and all analyses were performed by Baker Tilly. Due to availability, inpatient data is based on fiscal years 2013 and 2014 and observation and emergency room data are based on fiscal year 2014.

Inpatient Cases Combined visits FY 2013 and FY2014	Emergency Visits FY2014	Observation (not admitted) FY2014
6,135	18,787	199

The hospital utilization data was considered in conjunction with demographic data to more fully understand the needs across Westerly Hospital's service area. It is important to consider public health data with the hospital utilization data as in a given year much of the population will not have contact with any of the hospital's departments. Therefore, their health concerns are not measured by health provider utilization data.

The following section reports utilization findings and compares local hospital data with a state average. The Rhode Island State Hospital average includes all hospitals in Rhode Island except specialty hospitals (Butler Hospital, Bradley Hospital, Hasbro Children's Hospital, and Women & Infants Hospital). After a careful review of the data it was decided a three percentage point difference from the Rhode Island average warranted hospital attention. This standard was used throughout all analyses.

## **Chronic Conditions**

The following table illustrates utilization by zip code across six chronic conditions: Asthma, Behavioral Health (BH), Congestive Heart Failure (CHF), Chronic Obstructive Pulmonary Disorder (COPD), Diabetes, and Hypertension (HTN). The data represent the percentage of chronic disease cases originating from residents who reside in each zip code. The condition may not be the primary reason for the visit, or the primary diagnosis code, but it is listed on the patient's record as an existing condition. The data are presented in order of zip codes with the highest percentages of chronic disease usage.

Zip Code	Asthma	BH	CHF	COPD	Diabetes	HTN
02891 Westerly	47%	52%	53%	52%	48%	51%
06379 Pawcatuck	15%	14%	15%	15%	13%	15%
02804 Ashaway	6%	5%	5%	5%	5%	5%
02832 Hope Valley	5%	5%	4%	5%	4%	5%
06359 North Stonington	4%	4%	4%	5%	5%	5%
06355 Mystic	3%	3%	6%	4%	6%	4%
02808 Bradford	6%	5%	3%	3%	4%	4%
02813 Charlestown	5%	4%	2%	2%	4%	4%
06378 Stonington	3%	3%	4%	3%	4%	3%
06340 Groton	1%	1%	2%	1%	2%	1%
02833 Hopkinton	1%	1%	1%	1%	1%	1%
02898 Wyoming	1%	1%	1%	1%	1%	1%
02894 Wood River Junction	1%	1%	0%	1%	1%	0%
02812 Carolina	0%	1%	0%	1%	1%	0%
06339 Ledyard	0%	0%	0%	0%	1%	1%
02892 West Kingstown	0%	1%	0%	0%	0%	0%

#### Zip Codes by Chronic Condition Prevalence across Emergency Room, Observation, and Inpatient Settings

Recognizing the relationship between social determinants of health and health status, the following table shows socioeconomic measures for the Rhode Island zip codes served by Westerly Hospital. Zip code 02891 (Westerly) has some of the highest utilization rates and poorest socioeconomic measures in the area. It is also the zip code in which Westerly Hospital is located, which likely contributes to higher utilization.

	Black/ African American	Hispanic/ Latino	English Speaking	All People in Poverty	Children (<18) in Poverty	Single Female Households w/ Children	Unemploy- ment	Less than HS Diploma
02891 Westerly	1.1%	4.1%	89.4%	10.9%	19.1%	9.8%	6.5%	13.5%
02808 Bradford	1.4%	2.0%	94.0%	10.7%	14.8%	11.2%	4.0%	14.9%
02807 Block Island	0.7%	4.3%	96.5%	10.2%	23.1%	6.3%	5.3%	3.4%
02813 Charlestown	0.4%	2.2%	96.8%	9.8%	18.3%	6.0%	4.2%	6.8%
02898 Wyoming	0.4%	2.4%	97.9%	9.0%	34.5%	5.2%	5.3%	9.5%
02894 Wood River Junction	0.4%	3.1%	97.8%	8.5%	0.0%	5.5%	4.9%	8.6%
02833 Hopkinton	0.5%	3.8%	96.8%	5.1%	0.0%	4.3%	2.4%	4.8%
02832 Hope Valley	0.4%	2.3%	97.1%	4.2%	8.8%	5.4%	2.8%	8.1%
02892 West Kingstown	1.0%	2.3%	95.7%	3.5%	0.0%	3.9%	5.2%	8.4%
02804 Ashaway	0.9%	2.8%	96.9%	3.3%	0.0%	7.3%	2.3%	9.3%
02812 Carolina	0.5%	1.4%	97.9%	0.5%	0.0%	4.4%	5.4%	9.5%
Total Service Area (SA)	3.1%	5.9%	91.4%	8.4%	14.1%	8.8%	4.8%	8.2%
Washington County	1.3%	3.2%	93.4%	8.9%	10.4%	7.6%	4.7%	7.7%
Rhode Island	5.9%	14.1%	79.0%	13.6%	19.5%	12.1%	6.4%	14.5%

#### Social Determinant of Health Indicators by Zip Code

Source: The Nielsen Company, 2015

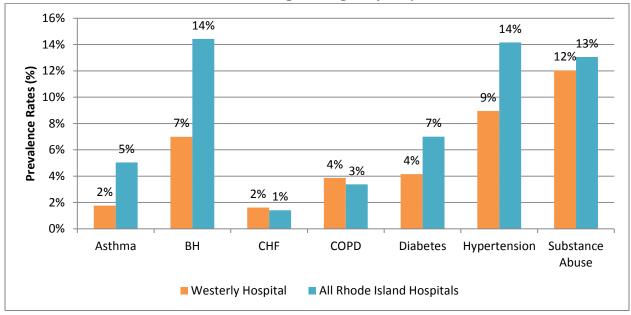
Color Coding Guide Within 1% points of the Total SA More than 1% point higher than the Total SA Exception: English Speaking cells are more than 1% point lower than Total SA

#### **Chronic Condition Prevalence among Hospital Patients**

The following graphs examine the prevalence of common chronic conditions among Westerly Hospital emergency room and inpatient settings. A data set comprising an average of all Rhode Island Hospitals (excluding specialty hospitals) is provided as a benchmark. The data includes any patient with a diagnosis for the chronic condition, whether the condition was the admitting diagnosis or not.

#### Chronic Disease among Emergency Room Patients

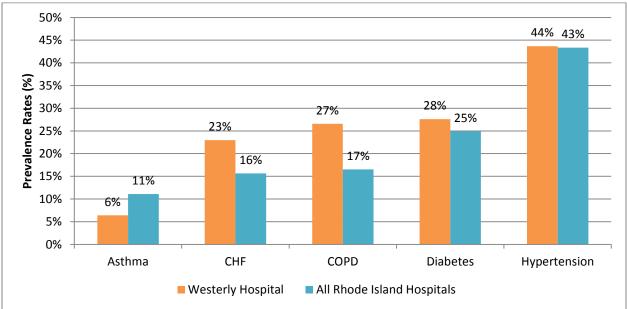
Patients treated at Westerly Hospital's emergency room have a lower prevalence of asthma, behavioral health issues, diabetes, and hypertension than the state average. The prevalence of CHF, COPD, and substance abuse is comparable to the RI average.



#### **Chronic Conditions among Emergency Department Patients**

#### Chronic Conditions among Inpatient Admissions

Patients admitted to Westerly Hospital have a higher prevalence of CHF, COPD, and Diabetes present upon admission compared to the average of all Rhode Island Hospitals. Moreover, 44% of all patients admitted to the hospital have hypertension.



**Chronic Conditions among Inpatient Admissions** 

# **Behavioral Health and Medical Comorbidities in the Inpatient Setting**

Inpatient data for all Rhode Island hospitals were analyzed in aggregate to identify behavioral health admissions across the state and to demonstrate local needs related to behavioral health inpatient care. There are no providers for inpatient behavioral health specialty care in Washington County, so it is important to identify the number of residents that must leave the community to receive care.

Among Westerly Hospital service area residents, during fiscal years 2013 and 2014 there were 771 inpatient admissions with behavioral health as the primary diagnosis. The following table identifies the number and percentage of total behavioral health admissions (may not be unique patient visits), by patient's zip code of residence. Behavioral health admissions include admissions to all hospitals within Rhode Island.

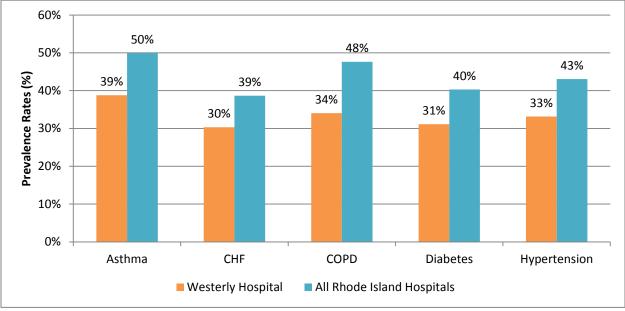
Residents from two zip codes account for approximately 64% of all behavioral health admissions across the Westerly Hospital service area; 48.5% occur from residents living in 02891 (Westerly). Westerly has some of the highest poverty rates and lowest educational attainment in the service area.

Patient Zip Code of Residence	Behavioral Health Admissions* within the Zip Code of Residence (not unique patients)	% of Total Behavioral Health Admissions in Westerly's Service Area (771 admissions/2yrs)
02891, Westerly, RI	374	48.51%
02813, Charlestown, RI	117	15.18%
02892, West Kingstown, RI	62	8.04%
02832, Hope Valley, RI	62	8.04%
06379, Pawcatuck, CT	32	4.15%
02804, Ashaway, RI	25	3.24%
02808, Bradford, RI	25	3.24%
02807, Block Island, RI	16	2.08%
02898, Wyoming, RI	14	1.82%
06340, Groton, CT	12	1.56%
02894, Wood River Junction, RI	10	1.30%

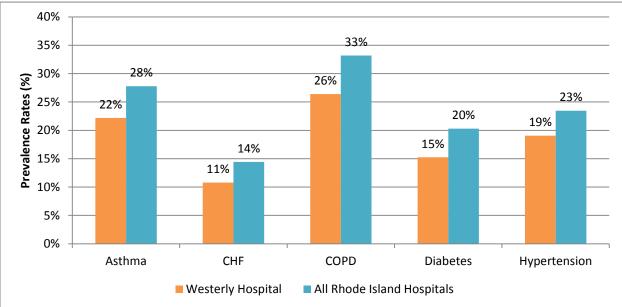
#### Behavioral Health Admissions Over Two Years (Oct 1, 2012-Sep 30, 2014)

\*Admissions to any Rhode Island hospital

Chronic conditions can be more difficult to manage if a patient also has a behavioral health and/or substance abuse diagnosis. The following charts show the prevalence of behavioral health and substance abuse diagnoses among patients admitted to the hospital with one or more of the top five chronic diseases: Asthma, CHF, COPD, Diabetes, and Hypertension.

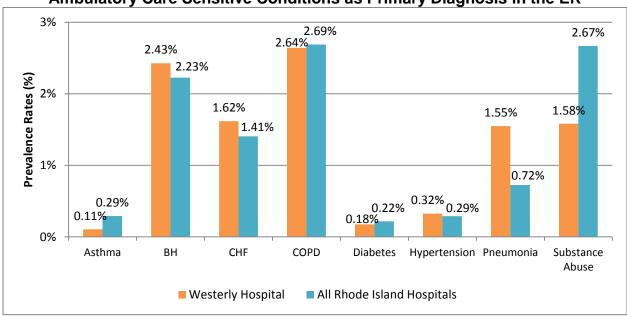


Behavioral Health Diagnoses among Patients with a Chronic Condition



Substance Abuse Diagnoses among Patients with a Chronic Condition

Ambulatory Care Sensitive Conditions in the Emergency Room Ambulatory care sensitive (ACS) conditions are conditions that can often be managed effectively in an outpatient setting with high quality primary care and should not result in hospitalization. The chart below shows select ACS conditions as the primary diagnosis in the ER.



Ambulatory Care Sensitive Conditions as Primary Diagnosis in the ER

Volumes related to these select ACS conditions make up a small percentage of ED volumes. Among these primary diagnoses in the ED, COPD and behavioral health diagnoses make up the highest volumes. While less than 300 cases over two years, it's worthwhile to note that twice as many patients are seen in Westerly's ED for pneumonia that the state average.

# **Washington County Partner Forum**

October 27, 2015, 5-7 pm Charlestown Police Department Community Room, 4901 Old Post Road, Charlestown

The objective of the forum was to solicit feedback from representatives of key stakeholder groups, facilitate collaboration to address community health needs, and align community health improvement efforts between the HARI CHNA, the Rhode Island Department of Health, and the local Health Equity Zones (HEZ).

#### **Partner Forum Participants:**

Bethany Gingerella, The Westerly Ambulance Blanche Higgins, Westerly Town Planning Brooke White, The Westerly Sun Christopher Ausura, Rhode Island Department of Health Cynthia Hall, Westerly Hospital Laurel Holmes, Westerly Hospital Greg Hindle, South County YMCA Jake Northup, South County YMCA Karen Da Cruz, Westerly Hospital & Lawrence + Memorial Healthcare Ken Richards, The Westerly Ambulance Mary Roda, Domestic Violence Resource Center of South County Michael Lichtenstein, Wood River Health Services Rich Leclerc, Gateway Healthcare/South Shore Center Rob Harrison, MD, Westerly Hospital Rupert Friday, Rhode Island Land Trust Council Russell Partridge, WARM Center Anna Pelchat, Westerly Hospital Sean Walsh, South County Community Action Susan Orban, South County Healthy Bodies, Healthy Minds Theresa Tanzi, Rhode Island House of Representatives Tina Spears, Rhode Island Parent Information Network Cynthia Wyman, South County Hospital

## **Facilitation**

An overview of the current CHNA research findings related to health needs and disparities in the community was presented to the partners. The partners were then divided by priority area for small group discussion based on the services their organization provides and/or the populations they serve. The subgroups discussed barriers to optimal health for residents, underserved populations, service delivery gaps, existing community assets, and opportunities for collaboration around the priority needs.

The small group discussion began with identification of existing community assets to address the priority area. Partners named specific organizations, programs, and individuals in the community, populations served, and partners that provide services in support of the identified need. Group participants were then presented with a set of questions aimed at identifying gaps in services and opportunities for collaboration to address the priority area. The questions included:

- > Are people aware of existing resources and services?
- > What barriers keep residents from accessing existing programs/services/ initiatives?
- > What populations are underserved or most at-risk?
- > What programs/services/initiatives could help reach this population?
- > Who are potential partners for outreach and service delivery?

An overview of the participants' responses to these questions and the identified community assets, grouped by priority area, follows.

## **Behavioral Health: Mental Health & Substance Abuse**

#### Barriers to Accessing Programs/Services/Initiatives

Participants thought that residents are generally aware of available services in the community, primarily as a result of good coordination among nonprofit providers. Many providers meet under the umbrella of the Basic Needs Network to share resources and identify and meet unmet needs. However, the following barriers still exist within the community when accessing services:

- > Transportation to services
- > Poor reimbursement rates for mental health services, particularly psychiatrists and home-based services, leading to fewer providers in the area
- > Lack of case management for behavioral health issues
- Stigma associated with receiving treatment and lack of acceptance within the community that behavioral health issues exist, inhibiting communication
- Lack of behavioral health services, particularly for children, medication management, psychiatry, and medication-assisted treatment for addiction
- > Lack of funding sources to help cover treatment costs for low-income individuals
- > Fear of what will happen to children/family members if individuals seek treatment

#### Underserved or Most At-Risk Populations

The partners agreed that populations within the community are at higher risk for developing behavioral health issues and are less likely to receive necessary interventions. These populations include:

- > Individuals with lower incomes
- > Domestic violence survivors
- > Patients with dual-diagnoses (mental health and substance abuse)
- > Adolescent and pediatric populations in need of psychiatric care
- > Homeless populations

#### Insight and Recommendations for Services to Meet the Needs of Underserved or At-Risk Populations

The participants shared the following recommendations that they thought could help meet the behavioral health needs of underserved or at-risk populations:

- Expansion of available prevention services in the community to reach individuals before they develop severe mental health issues
- Integrated care for primary and behavioral health care services, and promoting patient-centered medical homes
- Community education to reduce stigma surrounding behavioral health conditions and encourage individuals to seek services
- > Substance abuse treatment centers with Methadone and Suboxone

Identifying Collaborative Partners to Address Behavioral Health Needs Potential partners were identified in the community, including the local Substance Abuse Prevention Task Forces, Phoenix House, AdCare Rhode Island, the Department of Behavioral Healthcare, Development Disabilities & Hospitals, The Journey, and CODAC Behavioral Health Services.

Partners would like to see greater partnership among these organizations and others in the community to support and invest in integrated care models. Partners stated these models of care provide greater hope for recovery. Partners would also like to better demonstrate the need for services in the community by referencing the Rhode Island Behavioral Health Project Report by Truven Health Analytics which details supply, access, and demand across Rhode Island. Partners will use this report to support funding and program development.

#### **Chronic Disease: Prevention & Management**

Barriers to Accessing Programs/Services/Initiatives

Participants thought that residents were not aware of all of the services in the community aimed at chronic disease prevention and management. Organizations could do a better job disseminating information about existing resources. The partners recommended creating a "menu" of resources to be given to physicians to make referrals to community programs. Partners thought a paper document would be easiest to disseminate by physicians, but recognized paper would be difficult to keep up-to-date. Social media was suggested as another option to share information.

In addition to information sharing, partners listed the following barriers to accessing services in the community:

- > Convenience/timing for both physical activity and medical appointments
- > Out-of-pocket costs associated with health care
- > Lack of endorsement of programs and organizations from trusted providers
- > Transportation to get services
- > Life stressors that inhibit healthy behaviors
- > Lack of health care providers, particularly in primary care
- > Lack of program collaboration to support and complement existing organizations
- > Lack of acknowledgement of health issues by community members
- > Lack of simple and direct information; residents are overloaded with information

#### Underserved or Most At-Risk Populations

The partners agreed that populations within the community are at higher risk for developing chronic disease and are less likely to receive necessary interventions. The following populations are considered underserved or at-risk:

- > Middle/Working-class individuals and families
- > Poverty-stricken individuals
- > Single-parent households
- > Teenagers without adequate family support
- > Disparate neighborhoods within Washington County, including Westerly
- > Individuals with mental health comorbidities

#### Insight and Recommendations for Services to Meet the Needs of Underserved or At-Risk Populations

Participants shared the following recommendations that they thought could help meet the chronic disease health needs of underserved or at-risk populations:

- > A partnership between healthcare providers and the YMCA to provide postdischarge/post-rehab memberships to patients
- > A partnership between healthcare providers and the Rhode Island Land Trust Council to prescribe exercise and walking programs
- > Partnerships between healthcare providers and social service providers to create a redefined and expanded healthcare team
- > A community volunteer system to provide transportation to medical appointments

#### Identifying Collaborative Partners to Address Chronic Disease Needs

The following organizations within the community were identified as potential partners to address chronic disease, particularly among underserved and at-risk populations:

- School districts to promote healthy nutrition and physical activity behaviors among youth
- Colleges and universities to leverage student volunteers to staff community programs
- Health insurance providers as partners in education and chronic disease management
- > RI DOH to provide existing programs, funding, and data resources
- CurrentCare to promote medical record sharing across providers and improve care delivery and management
- > Rhode Island Public Transport Authority (RIPTA) to provide better transportation services throughout the county, particularly for medical appointments

### **Identified Community Assets**

Partner forum participants identified the following existing community resources.

Behavioral Health: Mental Health & Substance Abuse				
Existing Community Asset	Target Population(s) as Applicable			
AdCare Rhode Island	Individuals with Substance Abuse Needs			
Basic Needs Network	Individuals in Crisis			
CODAC Behavioral Health Services	Individuals with Beh Health conditions			
Department of Behavioral Healthcare, Development Disabilities & Hospitals	Individuals with Beh Health conditions			
Domestic Violence Resource Center of South County	Domestic/Dating Violence Survivors			
Family Care Community Partnership	Families with Children under 18 Years			
Gateway Healthcare	Psychiatric Crisis			
Peter Solomon, Pharmacist (Home-Based Consultation)	Seniors and other home-bound residents			
Phoenix House	Individuals with Substance Abuse conditions			
Rhode Island Parent Information Network	Children and Adults with Special Health Care Needs			
Society of St. Vincent de Paul	Individuals in Crisis and in Need of Food, Clothing, and Shelter			
South County Community Action Agency	Seniors			
South County Hospital	HEZ identified target populations			
South Shore Mental Health Center	Individuals with Beh Health conditions			
Substance Abuse Prevention Task Force	Youth			
The Journey	Adults in need of outpatient substance abuse treatment for opiate addiction			
WARM Center	Homeless, Impoverished, Food Insecure Individuals and Families			
Westerly Ambulance	Residents Needing Hospital or Emergency Medical Care			
Westerly Hospital	Individuals with Beh Health conditions			
Westerly Hospital Social Work Services	Hospital Patients			
Town of Westerly Planning Office	Prince Street Residents			

Chronic Disease: Prevention & Management				
Community Asset	Target Population(s) as Applicable			
Block Island Medical Center	Uninsured/Underinsured			
CurrentCare (Rhode Island Quality Institute)				
Employers				
Farmer's Markets				
Faith-Based Organizations				
Health Insurance Providers				
Healthy Places by Design				
Johnnycake Center of Westerly	Individuals Requiring Assistance with Basic Needs			
Libraries				
Local Chamber of Commerce				
Narragansett Indian Health Center	Narragansett Indian Tribe			
PACE	Seniors with Disabilities			
Rhode Island Department of Health				
Rhode Island Land Trust Council				
Rhode Island Public Transit Authority (RIPTA)				
Rhode Island State Parks & Recreation				
Senior Centers	Seniors			
School Districts	Students			
South County Hospital				
Substance Abuse Prevention Task Force				
Thundermist Health Center	Uninsured/Underinsured			
Universities				
Urgent Care				
Visiting Nurses Association				
WellOne Primary Medical & Dental Care	Uninsured/Underinsured			
Westerly Emergency Medical Services				
Westerly Hospital				
Wood River Health Services	Uninsured/Underinsured			
YMCA				

# **Focus Groups with Behavioral Health Consumers**

Two focus groups with behavioral health consumers and parents of adult and young children who use behavioral health services were held in the Washington County communities of Westerly and Wakefield in March 2016. The research objectives of the focus groups were to:

- 1) Understand community perception regarding behavioral health
- 2) Determine what behavioral health resources exist/are needed in the community
- 3) Define barriers to accessing services
- 4) Explore individual experiences associated with behavioral health conditions

Participants in both groups described a disjointed system with frustrating, and at times, overwhelming, barriers that keep residents from receiving timely, convenient, and supportive care. A deficiency of local services, education for key referral sources like primary care providers and schools, and lack of community awareness were among the top concerns.

Focus group participants had been accessing behavioral health services for themselves or their children for 10-40 years. They agreed that while some perceptions have improved over the years, access to resources and care have decreased in the community. Participants agreed that the resources parents go to first—primary care doctors and schools—are poorly lacking knowledge of the issues parents face and the means to help.

Some primary care providers will prescribe medications to manage mild anxiety or depression, but do not have the expertise or willingness to treat more complex or severe behavioral health cases. Participants agreed that psychiatrists that can manage prescription drug treatment are necessary along with regular counseling.

While still limited, counselors are more widely available than psychiatrists in Washington County. Psychiatrists, particularly for specialty care and child psychiatry, are rare in Washington County. Westerly is more limited in care options than Wakefield.

Many local practices are not accepting new patients. Those that are accepting patients limit what health insurance they accept and waiting times for appointments can be 8-12 weeks. Patients who do not have personal transportation are further limited by few public transportation options.

High turnover in providers and insurance changes mean that once a patient finds treatment, it may be short-lived. Without regular treatment and condition management, patients and their families turn to the hospitals' emergency rooms or law enforcement for immediate help in crisis situations.

There are no inpatient beds for behavioral health treatment in Washington County. Most patients travel to Providence to receive inpatient care at Butler Hospital or Hasbro Children's Hospital. In a crisis, adult patients may decide between going to the local Emergency Room or driving directly to Butler Hospital. Most agree that driving directly to Butler Hospital—if they can—is a better choice than going to the Emergency Room. "There's nothing they can do for you in ER. They do their best, but they are just waiting to find you someplace to go. If you drive to Butler, they'll have a bed for you."

Upon discharge from an inpatient stay, frequently there is a lack of care transition back to the community. Patients can be faced with a 6-8 week waiting time to see a psychiatrist for follow up care after discharge.

In the Westerly focus group, three out of seven participants had a family member who committed suicide within days of being discharged from inpatient care. One mother recounted the story of her son who killed himself during the time between his hospital discharge and follow-up appointment. "He was discharged with enough medication for a month and his appointment wasn't for eight weeks." After weeks of pleading for help from hospitals and providers, she was able to reduce the appointment wait time to six weeks and get a short-term prescription that she paid \$300 for out of pocket. "He had the classic signs of going through with a suicide; and nobody listened."

If patients are not ready to transition home, there are few housing options or other support services for adults and none for children. The local school districts are also limited in resources to support children transitioning back to school. Bradley School is the only alternative school option for children with developmental and behavioral health conditions with locations in Westerly and Wakefield Area.

Accessing behavioral health care is especially difficult for children. There are very few child psychiatrists in Washington County and no inpatient treatment. One parent moved her family to be closer to their preschool son during his treatment. Another mother needed to put her teenage son on the train to Providence for his appointments while she went to work. "It wasn't an optimal situation for a boy with anxiety, but it was the best we could do."

Residents are further limited to whom they can see by health insurance and costs. Medicaid, Medicare, and private insurance all have limited providers. Some in the group thought Medicaid provided the best behavioral health coverage, others thought many providers did not take Medicaid due to the low reimbursements. Some providers are not authorized to bill Medicare, so will not take patients with dual Medicaid/Medicare coverage. In focus groups with behavioral health providers during the 2013 CHNA, many providers acknowledged that they had stopped accepting both public and private insurance due to low reimbursement rates and an overabundance of paperwork. Some providers are self-pay only, and many families cannot afford to pay out-of-pocket for care.

Participants in both groups described a "subculture" where parents of children with behavioral health conditions form their own "resource network." "Because there's isn't much information out there, you basically have to learn on your own. The more you've been in the system, the more you know." Parents were quick to become advocates and share information with one another. "It's like a subculture. Once you've been there you can see others who are dealing with the same issues and they see you." "I asked for prayers for my son at church and wasn't sure how people would respond because we hadn't talked about his [behavioral health] condition before. Afterward, people came out of the woodwork to offer support and tell me about their experiences."

Asked if behavioral health was an important issue in the community, one person said, "I would have to say that mental health is not important to this community, because people don't talk about it. The only people talking about mental health are the ones who need [services.]" Another said, "People here don't want to think this is an issue in our town, but it is rampant." "The increase in heroin use is shedding light on mental health and substance abuse."

Focus Group participants were very familiar with existing resources in and around the community. Organizations like National Alliance on Mental Illness (NAMI) and OASIS Wellness and Recovery Center exist in Washington County and provide resources through support and advocacy, but funding is limited and both organizations are now run by volunteers. Thundermist Health Services and South Shore Mental Health Center are recognized providers that take most health insurance. While Thundermist recently built a new facility in Wakefield, South Shore recently closed its Wakefield location and only operates a Charlestown location in Washington County. (A list of behavioral health resources is included in Appendix C.)

In addition to the issues they shared about access to services, coordination of care, and community education, participants recommended that the healthcare system could make sweeping changes in how they treat behavioral health conditions. "If the entire medical community treated mental illness with the same respect and rigor that they would any other disease, they'd be able to identify it and treat it like any other condition."

# **Prioritization of Community Health Needs**

To gather feedback on prioritization, Westerly Hospital invited local health and human service providers and other community-based organizations to review research results from the CHNA and provide feedback on identified community health needs within the Greater Westerly community. The prioritization session brought together 19 community representatives who were asked to rate each need on a scale of 1 (low) to 4 (very high) using the following criteria:

- > Relevance: How important is the issue to our community?
- > Impact: What effect will addressing this issue have?
- > Feasibility: Can we take on the issue?

The following table depicts community health needs, in rank order by highest priority. Health needs were ranked based on an overall rating representing the sum of the three prioritization criteria and a maximum score of 12.

Ranking	Health Need	Relevance (maximum score of 4)	Impact (maximum score of 4)	Feasibility (maximum score of 4)	Overall Rating (maximum score of 12)
1	Mental Health	3.94	3.44	3.00	10.38
2	Substance Abuse	3.81	3.44	2.91	10.16
3	Chronic Disease Prevention and Management	3.25	3.25	3.25	9.75
4	Births to Teens	3.31	2.88	2.59	8.78
5	Breast and Prostate Cancer Incidence	2.69	2.75	2.94	8.38
6	Lung Cancer Incidence and Smoking	2.56	2.50	2.94	8.00

Dialogue following the ranking exercise led the group to recommend that the community should focus resources on addressing Behavioral Health. Recommendations were made to build upon existing initiatives, including the Washington County HEZ, to increase capacity related to behavioral health in the Greater Westerly community. As a leader for community health improvement planning, Westerly hospital intends to convene community partners to affirm and address the priority area(s) and align and coordinate efforts, with the goal of creating collective impact.

# Evaluation of Community Health Impact from 2013 CHNA Implementation Plan

The Community Health Implementation Action Plan for the Westerly Hospital service area was developed in 2013 following a Community Health Needs Assessment. The analysis of assessment results revealed gaps in Westerly Hospital programs and services in the following areas:

**Mental Health + Substance Abuse:** There were at that time no mental health and substance abuse services offered at WH.

**2013 Goal:** Improve mental health by increasing access to appropriate, quality mental health services, including substance abuse services

**Contributing Factors:** Lack of accessible mental health services; lack of or inadequate medical insurance; socioeconomics

#### **Strategies completed:**

- Convened stakeholder meetings to review identified community needs and develop an appropriate intervention plan. Behavioral health task force was created and meets regularly.
- Added an advance-practice registered nurse with psychiatric specialty to the emergency department team and primary care practice.
- Explored a community care team model for interdisciplinary case review.
- Reviewed and improved the safe management of behavioral health patients in Westerly Hospital as they await transition to specialized community services.

**Diabetes:** Although Westerly Hospital offers a diabetic support group and an education series to teach diabetes self-management, there are no other hospital- or community-based prevention efforts in place related to Diabetes.

**2013 Goals:** Increase the number of people that are aware of their risk; Increase diabetes selfmanagement education for people living with diabetes

**Contributing Factors**: sedentary lifestyles; shortage of safe places for recreation (particularly in urban settings); limited access to healthy food choices; food insecurity; lack of education about preparing healthy meals and eating healthy on a limited budget; lack of knowledge of risk factors

#### **Strategies completed:**

- Living with Diabetes Support Group meets monthly to teach participants diabetes self-management strategies
- Diabetes Education Series held 1-2 times per year, multiple sessions covering all aspects of the disease and self-management strategies. Fee reduced to a very modest amount to increase accessibility for all interested.
- Partnership with Ocean Community YMCA for periodic education events including healthy cooking demonstrations with a certified diabetes educator.
- Convened stakeholder meetings to review identified community needs and develop an appropriate intervention plan.

• Developed an education resource "menu" featuring diabetes support and education activities for distribution to primary care practices and throughout the hospital.

**Heart Disease:** Westerly Hospital offers community education activities that relate to heart disease but no other hospital- or community-based prevention efforts are in place.

**Goals:** Increase the number of women that are aware of their risk; Reduce heart disease through early identification, and early and appropriate treatment/management

**Contributing Factors:** sedentary lifestyles; shortage of safe places for recreation (particularly in urban settings); limited access to healthy food choices; food insecurity; lack of education on preparing healthy meals and eating healthy on a limited budget; lack of knowledge on risk factors

#### **Strategies completed:**

- Initiated *Strong Women* exercise program into teach safe use of weights to help prevent osteoporosis, maintain strength, and encourage overall health.
- Convened stakeholder meetings to review identified community needs and develop an appropriate intervention plan.
- Held *Heart Healthy Westerly* educational event to raise awareness and engage community activity.
- Developed and implemented the Risk Factor Reduction Program partnership with Ocean Community YMCA to intervene with people before a cardiac event.
- Continued Cardiac Rehabilitation program to intervene with people after a cardiac event.
- Developed an education resource "menu" featuring cardiac prevention and education activities for distribution to primary care practices and throughout the hospital.

# Westerly Hospital 2016-19 Implementation Plan for Community Health Improvement

## **Tackling Behavioral Health Needs in Our Community**

The 2016 CHNA revealed that our community is greatly challenged by behavioral health – mental health and substance abuse-related issued. From a lack of resources to treat mental health conditions to substance abuse addiction, behavioral health is a key health concern in our community. Because of the far-reaching effects of behavioral health on the overall health and quality of life for residents in our community, Westerly Hospital and the Westerly Area Health Improvement Collaborative have made a commitment to focus our community health improvement efforts on behavioral health over the next several years. While we remain committed to providing quality healthcare for all, and our ongoing work toward chronic disease prevention and cancer care will not stop, we will place a heightened emphasis on tackling behavioral health needs across our community.

To better understand the needs and resources associated with behavioral health, we solicited input from our community partners and residents through the CHNA research and community dialogue. Westerly Hospital has played a leadership role in South County *Healthy Bodies, Healthy Minds* (HBHM), a partnership with the Rhode Island Department of Health Health Equity Zone (HEZ) project to help all South County residents lead healthy lives.

In collaboration with the HBHM committee and other community partners, we will work toward our goal of improving behavioral health access and outcomes for all residents:

**Behavioral Health Goal Statement**: Improve outcomes for residents living with a behavioral health condition and their families.

#### **Objectives**:

- Increase access to appropriate, quality behavioral health services and improve self-management among patients
- Increase awareness of signs and symptoms of behavioral health conditions and community resources
- Increase early identification and screenings for behavioral health conditions in all care settings

In response to the 2016 CHNA, the Westerly Hospital Board of Directors has approved an Implementation Plan for the 2016-19 reporting cycle that includes a plan to address Behavioral Health as well as demonstrates our ongoing commitment to the priority areas identified in the CHNA.

# **Appendix A: Our Partners**

## HARI CHNA Steering Committee:

Liz Almanzor, Finance Director, Hospital Association of Rhode Island Otis Brown, CharterCARE Laurel Holmes, Westerly Hospital Carolyn Kyle, Landmark Medical Center Gina Rocha, Hospital Association of Rhode Island Alex Speredelozzi, Care New England Kellie Sullivan, Care New England Stephany Valente, Care New England Cynthia Wyman, South County Hospital

Ex officio: Michael Souza, President, Hospital Association of Rhode Island Ana Novais, Rhode Island Department of Health

## Washington County Partner Forum Participants:

Anna Pelchat, Westerly Hospital Bethany Gingerella, The Westerly Ambulance Blanche Higgins, Westerly Town Planning Brooke White, The Westerly Sun Christopher Ausura, Rhode Island Department of Health Cynthia Hall, Westerly Hospital Greg Hindle, South County YMCA Jake Northup, South County YMCA Kerin Da Cruz, Westerly Hospital & L&M Healthcare Ken Richards, The Westerly Ambulance Mary Roda, Domestic Violence Resource Center of South County Michael Lichtenstein, Wood River Health Services Rich Leclerc, Gateway Healthcare/South Shore Center Rob Harrison, MD, Westerly Hospital Rupert Friday, Rhode Island Land Trust Council Russell Partridge, WARM Center Sean Walsh, South County Community Action Susan Orban, South County Healthy Bodies, Healthy Minds Theresa Tanzi, Rhode Island House of Representatives Tina Spears, Rhode Island Parent Information Network

## Westerly Hospital Prioritization Sessions Participants:

Alicia Storey, Westerly Public Schools Ann Lain, Westerly Hospital Board of Directors Anna Pelchat, Westerly Hospital Bethany Gingerella, Westerly Ambulance Chris Smith, Westerly Hospital Christine Misto, Westerly Hospital Deborah Lamm, Westerly Hospital Board of Directors Fritz Eckel, citizen Jennifer Algiere, Westerly Hospital Joan McCrea, Westerly Hospital Joan Serra, Westerly Public Schools Kathleen Crook, L+M Healthcare Kelly Lee, PACE Rhode Island Larry Warner, Rhode Island Foundation Liz Pasqualini, The Jonnycake Center Maureen Tissiere, South County Community Action Michael Lichtenstein, Wood River Health Services Michaela Miceli, Westerly Hospital Nick Stahl, Westerly Hospital Patrick Hanley, Ocean Community YMCA Rachel Seery-Hersant, Pawcatuck Neighborhood Center Rob Harrison, MD, Westerly Hospital Ryan Girard, Adult Day Center of Westerly Stephen Greene, Westerly Hospital Board of Directors Susan Orban, South County Health; South County Healthy Bodies, Healthy Minds Susan Rosen, The Jonnycake Center

Tim Babcock, Ocean Community YMCA

# Appendix B: Statistical Health Data References

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# Appendix C: Behavioral Health Providers in Washington County

Group Practice Providers/Organizations	Address
AdCare Rhode Island/North Kingstown Outpatient	1950 Tower Hill Road, North Kingstown, 02852
Bradley School - South County & Westerly	South County: 4781 Tower Hill Rd, South Kingstown, RI 02879 & Westerly: 93 Tower Street, Westerly, RI 02891
C. Duarte & Associates Psychotherapy & Consultation	1130 Ten Rod Road, Building E., Suite 1010, North Kingstown, RI, 02852
Clinical Services of Rhode Island	49 South County Commons Way, Unit F6, South Kingstown, RI 02879
Delta Consultants, Inc.	24 Salt Pond Rd, Suite D4, Wakefield, RI 02879
Gateway Healthcare	55 Cherry Lane, South Kingstown, RI 02874
Integrative Practices	24 Salt Pond Rd, Suite B4, Wakefield, RI 02879
Inward Expressions, LLC	16 High Street, Brown Building, Office 6, Westerly, RI, 02891
Meadows Edge Recovery Center	580 Ten Rod Road, North Kingstown, RI, 02852
New England Center for Anxiety	43 Broad Street, Westerly, RI, 02891
Ocean State Psychotherapy	1130 Ten Rod Road, North Kingstown, RI, 02852
Rhode Island Cognitive Behavioral Therapy and Coaching (RICBT)	1130 Ten Rod Rd, Building E, North Kingstown, RI 02852
South County Child & Family Consultants	1058 Kingstown Rd, Wakefield, RI 02879
South County Hospital Behavioral Health Services	70 Kenyon Ave., Suite 326, Wakefield, RI, 02879
South Shore Mental Health Center	4705 Old Post Rd # A, Charlestown, RI 02813
Stonington Institute	618 Poquonnock Road, Groton, CT 06340
URI Couple & Family Therapy Clinic	University of Rhode Island, Kingston, RI, 02881
WellOne Medical/Dental/ Behavioral Health	308 Callahan Road, North Kingstown, Rhode Island, 02852

Independent Psychiatrists & Psychologists	Location
Brandon Krupp, MD	Charlestown
Teresa W. Greer, MD	Charlestown
Miriam Mazor, MD	Kingston
Sallyanne Lund, MD	Kingston
Arthur Parmentier, MD	Narragansett
Pamela Bennet, PMHCNS	North Kingstown
Hector Jaso, MD	Saundertown
Alexander Scagnelli MD PC	South Kingstown
Andrew Morris, MD	Wakefield
David Savitzky, MD	Wakefield
Deborah Duitch, MD	Wakefield
Jacob T. Abraham, MD	Wakefield

Independent Licensed Mental Health Counselors/Licensed Chemical Dependency Professionals	Location
Jennifer Brunell, MA, LMHC	Ashaway
Alexis Heitman, MA, LMHC, LCDP	Hope Valley
David Patrick Klapatch, LMHC	North Kingstown
Elaine R. Poncelet, LICSW, LCDP	North Kingstown
Frank Sorenson, Med, LCDP	North Kingstown
Jennifer Kneeland, MA, LMHC	North Kingstown
Jessica Martin, MA, CAGS, LMHC	North Kingstown
Joan Beckett, MBA, MA, CAGS, LMHC	North Kingstown
Judith Clarke-Jones, Med, LMHC	North Kingstown
Kelly K. Adams, LMHC, NCC	North Kingstown
Kenneth Beaupre, LMHC, MA, CAGS	North Kingstown
Kerri Gaffett-Spier, LMHC, LCDP, MA	North Kingstown
Kristen C. Marx, CAGS, LMHC	North Kingstown
Maria Sorensen, MA, LCDP, SAP	North Kingstown
Michael Connell, CAGS, LMHC, LCDP	North Kingstown
Rita Good, MS, LMHC	North Kingstown
Robert A. Richards, MS, CAGS, LMHC	North Kingstown
Sara B. Sprague, MA LMHC, CBE	North Kingstown
Cynthia Ann Barry, LICSW, ACSW, LCDP	Wakefield
Joseph Hyde, LMHC	Wakefield
Kathy Swink, MA, LMHC, CCMHC	Wakefield
Shelagh M. Stone, MA, LMHC	Wakefield
Joyce M. Elias, MA, LPC, LMHC	Westerly