

2018 – 2021 Community Health Needs Assessment



Table of Contents

Introductory Message	2
Overview of the 2018 - 2021 CHNA	3
Service Area Description for Allied Services Rehabilitation Hospital	7
Service Area Description for John Heinz Rehabilitation Hospital	10
Northeast Region: Secondary Data Profile	13
Demographic Analysis	18
Public Health Analysis	23
Access to Healthcare	24
Overall Health Status	30
Health Behaviors	31
Mortality	34
Chronic Diseases	36
Notifiable Diseases	43
Behavioral Health	46
Senior Health	53
Maternal and Infant Health	58
Key Informant Study Summary	67
Northeast Region Partner Forums Summary	69
Focus Group Research Summary	88
Prioritization of Community Health Needs	99
Evaluation of Impact from Prior CHNA Implementation Plan	100
Implementation Plan for 2018-2021	104
Board Approval	108
Appendix A: Public Health Secondary Data References	109
Appendix B: Key Informants	111
Appendix C: Community Partners	112
Appendix D. Community Health Assets	114

Introductory Message

July 11, 2018

Allied Services Integrated Health System is pleased to share the 2018 -2021 Community Health Needs Assessment (CHNA) & Implementation Plan for Allied Services Rehabilitation Hospital and John Heinz Rehabilitation Hospital. We hope you'll find its contents informative and useful.

During the 10-month CHNA process, we heard from many of our Northeastern Pennsylvania neighbors: human service and healthcare providers, nonprofit groups, civic and volunteer organizations, senior citizen groups, and others. Our final report incorporates their observations and insights regarding the region's health and socioeconomic challenges, resources and opportunities. We sincerely thank all who participated.

We take great pride in Allied Services' impact as the region's premier provider of post-acute healthcare services and as a major employer and economic contributor in Northeastern and Central Pennsylvania. The 2018 CHNA underscores the importance of all of these roles in building a healthier community for people of all ages. Our Implementation Plan leverages a variety of resources to address three high-priority community health needs:

- the prevention and management of chronic illnesses
- services to promote healthy aging, and
- improving access to healthcare.

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We invite you to visit <u>www.allied-services.org</u> to learn more about Allied Services. As always, we welcome your comments and questions.

William P. Conaboy, Esq.

President & Chief Executive Officer

Overview of the 2018 CHNA

A Collaborative Approach to Community Health Improvement

The 2018 CHNA was conducted in partnership with Allied Services Integrated Health System, Geisinger, and Evangelical Community Hospital. The study area included 19 counties across Central and Northern Pennsylvania which represent the collective service areas of the collaborating hospitals. To distinguish unique service areas among hospitals and foster cooperation with local community partners to impact health needs, regional research and reporting was developed.

The collaborating health systems agreed that by coordinating efforts to identify community health needs across Central and Northeastern Pennsylvania, the health systems would conserve community resources while demonstrating leadership in convening local community partners to address common priority needs.

Best practices in community health improvement demonstrate that fostering "collective impact" is among the most successful ways to affect the health of a community. Collective impact is achieved by committing a diverse group of stakeholders toward a common goal or action, particularly to impact deep rooted social or health needs.

By taking a collaborative approach to the CHNA, Allied Services Integrated Health System, Geisinger, and Evangelical Community Hospital are leading the way to improve the health of communities in Central and Northern Pennsylvania. The following pages describe the process and research methods used in the 2018 CHNA and the findings that portray the health status of the communities we serve and outline opportunities to work with our community partners to advance health among all residents across our service areas.

CHNA Leadership

The 2018 CHNA was overseen by a Planning Committee of representatives from each health system as well as a Regional Advisory Committee of representatives from each hospital. CHNA committee members are listed below.

CHNA Planning Committee

Tracey Wolfe, Vice President, Medicine Institute, Geisinger; Executive Leader Allison Clark, Community Benefit Coordinator, Community Affairs, Geisinger; Project Manager Joni Fegan, Strategic Planning Manager, Geisinger Holy Spirit

Gregory Lilly, Administrative Fellow, Geisinger

Barb Norton, Allied Services Integrated Health System

Sheila Packer, Director Community Health and Wellness, Evangelical Community Hospital

Phyllis Mitchell, Vice President Corporate Communications, Geisinger

Lisa Baumann, Director Competitive Grants, Geisinger Health Plan

CHNA Regional Advisory Committee

Dave Argust, Vice-President, Financial Services, Allied Services Integrated Health System Renee Blakiewicz, Administrative Director, Geisinger Community Medical Center Julie Bordo, Operations Manager, Geisinger Wyoming Valley Medical Center/Geisinger South Wilkes-Barre

Brian Ebersole, Senior Director of Springboard Health

Olive Herb, RN Care Coordinator, Geisinger Jersey Shore Hospital

Allison Hess, Associate Vice President, Geisinger Health and Wellness

Kristy Hine, Associate Vice President, Geisinger Lewistown Hospital

Corinne Klose, Associate Vice President of Operations and Special Projects, Geisinger Shamokin Area Community Hospital

Daniel Landesberg, Administrative Director, Geisinger Wyoming Valley Medical

Center/Geisinger South Wilkes-Barre

Lisa Makara, Geisinger Bloomsburg Hospital

Adam Robinson, Geisinger Medical Center/Geisinger Shamokin Area Community Hospital Tamara Persing, Vice President/Chief Nursing Officer, Evangelical Community Hospital Nadine Srouji, MD Medical Director, Value-Based Care & Bundling, Geisinger Holy Spirit Medical group

Kirk Thomas, Chief Administrative Officer, Geisinger Lewistown Hospital

Brock Trunzo, Digital Marketing Producer, Geisinger Jersey Shore Hospital

Skip Wieder, Volunteer, Geisinger, United Way

Barbara Zarambo, Geisinger Community Medical Center

Randy Zickgraf, Director Tax Services, Geisinger

Community Engagement

Community engagement was an integral part of the 2018 CHNA. Webinars were held in October and November 2017 to announce the onset of the CHNA and encourage broad participation across the region. Throughout October and November 2017, a Key Informant Survey was sent to approximately 1,000 representatives of health and human service organizations, religious institutions, civic associations, businesses, elected officials and other community representatives. Partner Forums were held throughout the region in January 2018 to

bring together these partners to review research findings and provide feedback on the most pressing community health needs. In March and April 2018, focus groups with seniors were held to better understand challenges and opportunities to improving health among high risk populations. Public information is planned for Fall 2018 to present CHNA findings and Implementation Plans to the public and to invite dialogue about community health needs.

CHNA Methodology

The 2018 CHNA was conducted from September 2017 to April 2018 and used both primary and secondary research to illustrate and compare health trends and disparities across the region. Primary research was 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. Focus groups and interviews were used to collect in-depth insight from health consumers representing medically underserved or high risk populations. Existing data sources including public health statistics, demographic and social measures, and healthcare utilization were collected and analyzed to identify health trends across hospital service areas.

Specific research methods included:

- > An analysis of statistical health and socioeconomic indicators from across the region
- > A Key Informant Survey with 113 community leaders and representatives
- > Six regional Partner Forums with community based organizations to identify community health priorities and facilitate collaboration toward community health improvement
- > Twelve Focus Groups with seniors to examine preferences, challenges and opportunities to accessing and receiving healthcare
- > Prioritization of community health needs to determine the most pressing health issues on which to focus community health improvement efforts

The 2018 CHNA built upon the hospitals' previous CHNAs and Implementation Plans. The CHNA was conducted in a timeline to comply with IRS Tax Code 501(r) requirements to conduct a CHNA every three years as set forth by the Affordable Care Act (ACA). The research findings will be used to guide community benefit initiatives for the hospitals and engage local partners to address identified health needs.

Prioritized Community Health Needs

In assessing the health needs of the community, Allied Services and its CHNA partners solicited and received input from persons who represent the broad interests of the communities served by each hospital, including those with expertise in public health, representatives of medically underserved, low income, and minority populations, and other community stakeholders who brought wide perspectives on community health needs, existing community resources to meet those needs, and gaps in the current service delivery system. Through facilitated dialogue and a series of criteria-based voting exercises, the following health issues were prioritized as the most significant health needs across the region on which to focus health improvement efforts over the coming three-year cycle.

> Chronic Disease Prevention and Management

- Services to Seniors
- Access to Care

To direct community benefit and health improvement activities, Allied Services created an Implementation Plan to address these identified health priorities.

Board Approval

A full report of the CHNA along with the Implementation Plan were presented to the Allied Services Board of Directors for review and approval in July of 2018. The Board and leadership of Allied Services is committed to making the required resources available to activate the plan.

Research Partner

Baker Tilly was engaged as the research partner for the CHNA. Baker Tilly assisted in all phases of the CHNA including project management, quantitative and qualitative data collection, small and large group facilitation and report writing.

Baker Tilly's CHNA Team provided multi-discipline expertise in public health and statistical analytics, qualitative research design, community health planning, and IRS Code 501(r) compliance.

The Baker Tilly team has worked with more than 100 hospitals and thousands of their community partners across the nation to assess health needs and develop actionable plans for community health improvement.

2018 CHNA Research and Planning Team

Julius Green, CPA, JD, Tax Exempt Practice Leader Colleen Milligan, MBA, CHNA Project Manager Catherine Birdsey, MPH, Research Manager Brittany Blau, MPH, Research Consultant Jessica Losito, MS, Research Consultant Andrew Malinow, PhD, Director, Healthcare Consulting Keith Needham, MS, Research Consultant

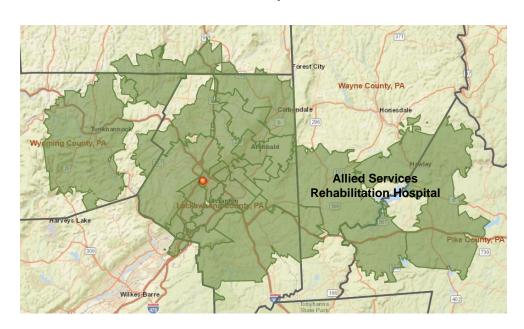
Service Area Description for Allied Services Rehabilitation Hospital

Population Overview

Allied Services Rehabilitation Hospital primarily serves residents in 25 zip codes spanning Lackawanna, Luzerne, Pike, Wayne and Wyoming Counties in Pennsylvania. The 2017 population of the service area is 259,584 and is projected to increase 0.2% by 2022.

Allied Services Rehabilitation Hospital Service Area

Zip Codes 18403, Lackawanna 18407, Lackawanna 18411, Lackawanna 18414, Lackawanna 18426, Pike 18428. Pike 18433, Lackawanna 18434, Lackawanna 18436, Wayne 18444, Lackawanna 18446, Wyoming 18447, Lackawanna 18452, Lackawanna 18504, Lackawanna 18505, Lackawanna 18507, Lackawanna 18508, Lackawanna 18509, Lackawanna 18510, Lackawanna 18512, Lackawanna 18517, Lackawanna 18518, Lackawanna 18519, Lackawanna 18641, Luzerne 18657, Wyoming



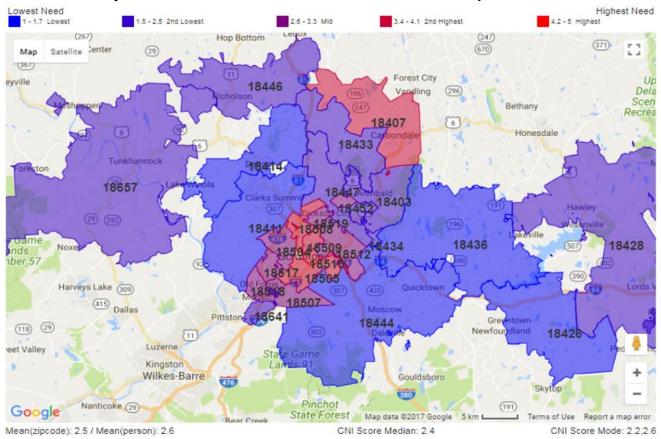
2017 Population	% Growth from 2010	% Growth by 2022
259,584	0.4%	0.2%

Zip code of residence is one of the most important predictors of health disparity; where residents live matters in determining their health. The Community Need Index (CNI) was developed by Dignity Health and Truven Health Analytics to illustrate the potential for health disparity at the zip code level. The CNI scores zip codes on a scale of 1.0 (low need) to 5.0 (high need) based on 2015 data indicators for five socio-economic barriers:

- Income: Poverty among elderly households, families with children, and single femaleheaded families with children
- > Culture/Language: Minority populations and English language barriers
- > Education: Population over 25 years without a high school diploma
- Insurance coverage: Unemployment rate among population 16 years or over and population without health insurance
- > Housing status: Householders renting their home

The weighted average CNI score for Allied Services Rehabilitation Hospital's 25 zip code service area is 2.6, indicating moderate overall community need. Five of the six zip codes with a score greater than 3.0 are in Scranton. Scranton is a designated Medically Underserved Area.

Community Needs Index for Allied Services Rehabilitation Hospital's Service Area



The following table analyzes social determinants of health contributing to zip code CNI scores. Zip codes are shown in comparison to their respective county and the state, and are presented in descending order by CNI score. Cells highlighted in yellow are more than 2% points *higher* than the county statistic. Exception: English speaking cells are more than 2% points *lower* than the county statistic.

Scranton zip codes have the highest CNI scores, indicating the greatest community need. The scores are highest (3.8) in zip codes 18505, 18508, and 18510. Zip code 18407, Carbondale has the highest CNI score outside of Scranton City and one of the highest poverty rates. Zip code 18452, Peckville also has a higher poverty rate and a moderate CNI score.

Social Determinants of Health Indicators by Zip Code

	Black/ African American	Hispanic / Latino	English Speaking (only)	HHs in Poverty	Unemp- loyment	Less than HS Diploma	Without Health Insurance	CNI Score
Lackawanna County	3.2%	7.4%	91.1%	14.2%	5.4%	9.4%	7.9%	
18510 (Scranton)	7.3%	11.1%	78.6%	23.3%	5.4%	13.9%	8.9%	3.8
18505 (Scranton)	7.5%	20.8%	81.2%	20.0%	6.4%	13.4%	12.6%	3.8
18508 (Scranton)	5.6%	14.0%	84.3%	18.4%	8.7%	14.7%	11.3%	3.8
18509 (Scranton)	6.7%	9.0%	90.9%	21.7%	5.5%	11.7%	7.8%	3.4
18407 (Carbondale)	1.3%	4.2%	97.1%	16.5%	8.2%	10.5%	7.5%	3.4
18504 (Scranton)	4.5%	11.4%	90.2%	16.3%	6.5%	12.7%	10.8%	3.2
18519 (Scranton)	1.5%	6.4%	93.4%	14.4%	4.6%	7.3%	7.5%	2.8
18507 (Moosic)	1.4%	5.8%	93.5%	11.7%	3.4%	12.7%	8.2%	2.8
18452 (Peckville)	1.4%	3.2%	85.1%	20.3%	4.5%	7.3%	7.3%	2.6
18518 (Old Forge)	1.5%	4.5%	95.2%	13.8%	7.1%	8.3%	5.8%	2.6
18517 (Taylor)	1.0%	6.3%	93.3%	10.5%	4.6%	7.7%	12.0%	2.6
18512 (Scranton)	1.4%	3.4%	95.0%	10.1%	5.2%	6.0%	7.1%	2.6
18434 (Jessup)	1.0%	2.8%	93.1%	15.3%	3.2%	7.8%	7.4%	2.4
18403 (Archbald)	1.6%	1.9%	95.3%	15.2%	5.4%	7.2%	5.3%	2.2
18447 (Olyphant)	1.6%	3.7%	94.0%	12.5%	3.9%	6.6%	5.4%	2.2
18433 (Jermyn)	1.2%	2.5%	96.7%	10.2%	5.7%	7.0%	7.5%	2.0
18411 (Clarks Summit)	1.3%	2.5%	94.8%	5.5%	3.1%	4.4%	3.5%	1.6
18414 (Dalton)	0.6%	1.9%	96.0%	8.7%	4.0%	4.9%	5.3%	1.4
18444 (Moscow)	0.7%	2.6%	97.0%	7.0%	3.3%	7.3%	6.4%	1.4
Luzerne County	4.6%	11.2%	90.3%	15.0%	5.6%	10.4%	8.5%	
18641 (Pittston)	0.9%	2.9%	96.8%	11.3%	4.9%	7.9%	5.4%	2.2
Pike County	6.1%	11.3%	88.5%	9.2%	8.7%	8.4%	9.3%	
18428 (Hawley)	2.3%	5.8%	92.2%	10.1%	6.1%	7.3%	9.6%	2.0
18426 (Greentown)	1.1%	5.0%	94.3%	12.6%	7.2%	2.9%	10.2%	1.6
Wayne County	3.6%	4.8%	94.3%	11.4%	4.3%	10.1%	8.4%	
18436 (Lake Ariel)	1.7%	3.9%	96.0%	6.5%	5.1%	8.2%	6.4%	1.4
Wyoming County	1.1%	2.0%	97.6%	11.4%	4.8%	8.3%	8.7%	
18446 (Nicholson)	0.4%	1.6%	98.4%	12.4%	5.3%	11.7%	9.5%	2.2
18657 (Tunkhannock)	0.7%	1.2%	97.5%	11.5%	4.2%	7.1%	8.4%	1.8
Pennsylvania	11.2%	7.4%	89.4%	12.9%	6.2%	10.1%	8.8%	

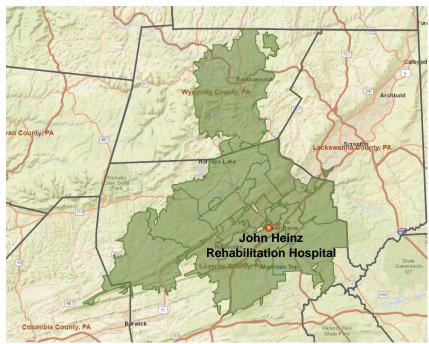
Service Area Description for John Heinz Rehabilitation Hospital

Population Overview

John Heinz Rehabilitation Hospital primarily serves residents in 16 zip codes spanning Luzerne and Wyoming Counties in Pennsylvania. The 2017 population of the service area is 232,824 and is projected to decrease 0.8% by 2022.

John Heinz Rehabilitation Hospital Service Area

Zip Codes
18612, Luzerne
18621, Luzerne
18634, Luzerne
18640, Luzerne
18641, Luzerne
18643, Luzerne
18644, Luzerne
18651, Luzerne
18655, Luzerne
18657, Wyoming
18702, Luzerne
18704, Luzerne
18705, Luzerne
18706, Luzerne
18707, Luzerne
18708, Luzerne



Service Area Population Growth

2017 Population	% Growth from 2010	% Growth by 2022
232,824	-0.8%	-0.8%

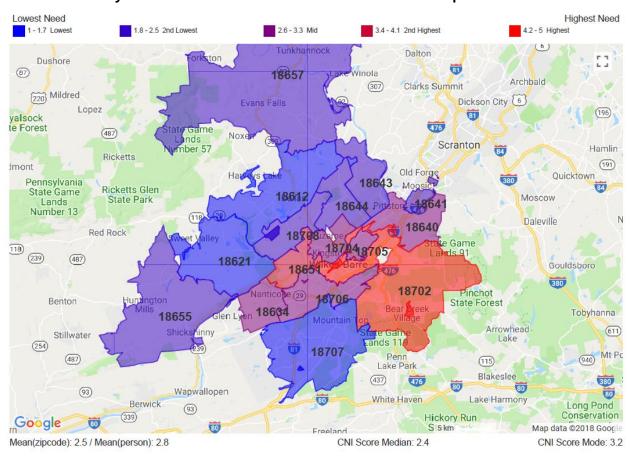
Zip code of residence is one of the most important predictors of health disparity; where residents live matters in determining their health. The Community Need Index (CNI) was developed by Dignity Health and Truven Health Analytics to illustrate the potential for health disparity at the zip code level. The CNI scores zip codes on a scale of 1.0 (low need) to 5.0 (high need) based on 2015 data indicators for five socio-economic barriers:

- > Income: Poverty among elderly households, families with children, and single femaleheaded families with children
- > Culture/Language: Minority populations and English language barriers
- > Education: Population over 25 years without a high school diploma

- Insurance coverage: Unemployment rate among population 16 years or over and population without health insurance
- Housing status: Householders renting their home

The weighted average CNI score for the hospital's 16 zip code service area is 2.8, indicating moderate overall community need. Zip code 18702, Wilkes-Barre has the highest score, followed by 18651, Plymouth. Both areas are designated as Medically Underserved Areas.

Community Needs Index for John Heinz Rehabilitation Hospital's Service Area



The following table analyzes social determinants of health contributing to zip code CNI scores. Zip codes are shown in comparison to their respective county and the state, and are presented in descending order by CNI score. Cells highlighted in yellow are more than 2% points *higher* than the county statistic. Exception: English speaking cells are more than 2% points *lower* than the county statistic.

Populations in 4 of the 15 Luzerne County service area zip codes have higher poverty rates in comparison to the county. Populations in Wilkes-Barre have some of the highest poverty rates. Zip code 18702, Wilkes-Barre also has a higher population of Black/African American and/or Hispanic/Latino residents. The populations are historically considered underserved by health and social services.

Social Determinants of Health Indicators by Zip Code

	Black/ African American	Hispanic / Latino	English Speaking (only)	HHs in Poverty	Unemp- loyment	Less than HS Diploma	Without Health Insurance	CNI Score
Luzerne County	4.6%	11.2%	90.3%	15.0%	5.6%	10.4%	8.5%	
18702 (Wilkes-Barre)	13.3%	17.3%	88.1%	23.9%	6.1%	14.0%	11.1%	4.2
18651 (Plymouth)	4.8%	5.4%	97.0%	17.9%	5.8%	11.0%	8.4%	3.4
18634 (Nanticoke)	2.2%	4.7%	96.7%	19.3%	6.1%	11.1%	8.8%	3.2
18706 (Wilkes-Barre)	4.0%	5.3%	96.3%	17.1%	5.4%	8.2%	7.3%	3.2
18704 (Kingston)	3.8%	5.5%	94.7%	15.1%	4.6%	7.0%	9.0%	3.2
18705 (Wilkes-Barre)	4.2%	8.8%	91.8%	14.4%	6.8%	10.4%	7.9%	3.2
18640 (Pittston)	2.1%	3.7%	96.8%	14.3%	6.5%	10.3%	7.3%	2.8
18643 (Pittston)	1.3%	2.3%	97.5%	11.9%	4.4%	8.2%	5.6%	2.4
18644 (Wyoming)	0.9%	1.4%	96.4%	10.4%	4.0%	5.9%	6.9%	2.4
18655 (Shickshinny)	0.5%	2.3%	97.2%	12.2%	5.2%	11.4%	8.4%	2.2
18641 (Pittston)	0.9%	2.9%	96.8%	11.3%	4.9%	7.9%	5.4%	2.2
18708 (Shavertown)	13.1%	4.3%	92.7%	8.1%	2.4%	8.4%	5.2%	2.2
18612 (Dallas)	0.8%	1.7%	96.9%	8.8%	4.3%	4.9%	4.9%	1.6
18621 (Hunlock Creek)	0.5%	1.7%	98.8%	7.6%	5.5%	9.3%	7.6%	1.4
18707 (Mountain Top)	1.5%	3.5%	93.7%	4.7%	4.0%	3.9%	4.2%	1.2
Wyoming County	1.1%	2.0%	97.6%	11.4%	4.8%	8.3%	8.7%	
18657 (Tunkhannock)	0.7%	1.2%	97.5%	11.5%	4.2%	7.1%	8.4%	1.8
Pennsylvania	11.2%	7.4%	89.4%	12.9%	6.2%	10.1%	8.8%	

Northeast Region: Secondary Data Profile

The Northeast Region is comprised of three counties and is served by five of the CHNA collaborating hospitals, including Allied Services Rehabilitation Hospital and John Heinz Rehabilitation Hospital.

Northeast Region Service Area Counties

- > Lackawanna County
- > Luzerne County
- > Wayne County

CHNA Collaborating Hospitals Serving the Northeast Region

- > Geisinger South Wilkes-Barre
- Seisinger Wyoming Valley Medical Center
- > Geisinger Community Medical Center
- > Allied Services Rehabilitation Hospital
- > John Heinz Rehabilitation Hospital

Secondary Data Profile Summary

Secondary data, including demographic and public health indicators, were analyzed for the Northeast Region to better understand community drivers of health status, health and socio-economic trends, and emerging community needs. Data were compared to state and national benchmarks, as available, to identify areas of strength and opportunity for the region.

All reported demographic data were provided by ESRI Business Analyst, 2017 and the US Census Bureau, American Community Survey, unless otherwise noted. Health data were compiled from secondary sources including the Pennsylvania Department of Health, the Centers for Disease Control and Prevention (CDC), the Behavioral Risk Factor Surveillance System (BRFSS), the University of Wisconsin County Health Rankings & Roadmaps program, among other sources. A comprehensive list of data sources can be found in Appendix A.

Public health data were analyzed for a number of health issues, including access to care, health behaviors and outcomes, chronic disease prevalence and mortality, mental health and substance abuse and maternal and child health. This section provides a summary of the data findings. Full analysis of the demographic and public health measures follows this summary.

The Northeast Region population is primarily White, but increasingly diverse. The White population as a percentage of the total population is declining in all counties, while Black/African American and Hispanic/Latino populations are growing. The demographic shift is a statewide trend. Minority populations are the only growing demographic in Pennsylvania. The Hispanic/Latino population is one of the fastest growing demographic groups; Luzerne County is projected to experience the greatest increase in the population by 2022.

Pennsylvania fares better than the nation on most economic indicators. PA residents are less likely to live in poverty, have a similar unemployment rate as the nation's average and are more likely to have attained at least a high school diploma.

Within the Northeast Region, residents in all counties have a lower median household income than the state and the nation, and residents in Lackawanna and Luzerne Counties have higher poverty rates, particularly among children. All three counties have a similar unemployment rate to the state and the nation, and a similar percentage of residents who have attained less than a high school diploma.

Racial and ethnic minority groups like Black/African American or Hispanic/Latino residents are more likely to be impacted by poorer socioeconomic factors, including poverty, unemployment or education attainment. Poverty is one of the biggest drivers of disparity, particularly in Lackawanna and Luzerne Counties. Poverty rates among minority populations are double the rates among Whites. Socioeconomic disparity contributes to worse health outcomes. Because population counts for minority residents across the region are low, health disparities are primarily evidenced by state and national trends.

Areas of Strength for the Northeast Region:

- > <u>Health Insurance Coverage Health Insurance Coverage</u>: The percentage of uninsured residents declined for all counties. All counties have a lower uninsured rate when compared to the state and the nation for their respective data years.
- Dental/Mental Health Provider Rate: Provider rates per 100,000 population increased for all counties from the FY2016 CHNA.
- Health Outcomes: Wayne County has a higher (better) health outcomes ranking from the FY2016 CHNA. A leading indicator of health outcomes is premature death; the county has a lower premature death rate than the state and the nation.
- Smoking/Chronic Lower Respiratory Disease: Adult smoking rates declined for every county from the FY2016 CHNA. All counties have a lower CLRD death rate compared to the state and the nation.
- Senior Health: Senior Medicare Beneficiaries have similar or lower rates of Alzheimer's disease, asthma, cancer, depression, diabetes, heart failure, and stroke compared to the state and the nation. Beneficiaries in all counties are just as likely or more likely to receive diabetes and mammogram screenings compared to the state and the nation.
 - > Note: Wayne County has the lowest Alzheimer's disease prevalence rate, but a higher rate of death due to the disease.

Maternal and Child Health:

- > Teen Births: The teen birth percentage declined for all counties, but percentages for Lackawanna and Luzerne Counties exceed the state and the nation.
- > Low Birth Weight: The counties nearly meet the Healthy People 2020 goal for low birth weight among infants.

> Infant Death: The Luzerne County infant death rate meets the Healthy People 2020 goal.

Areas of Opportunity for the Northeast Region:

Health Insurance Coverage: Uninsured rates are higher among Blacks/African Americans and Hispanics/Latinos than Whites. Luzerne County has the largest minority population in the region and the greatest disparity in uninsured rates.

> Provider Rates:

- > Primary Care: All counties have a lower provider rate than the state and the nation. Geographic areas within Luzerne and Wayne Counties are designated as HPSAs for primary care.
- > Dental Care: Luzerne and Wayne Counties have a lower provider rate than the state and the nation. All three counties are HPSAs for dental care for low income populations.
- > Mental Health Care: All counties have a lower provider rate than the state and the nation. Wayne County is a HPSA for mental health care.
- Health Outcomes: Lackawanna and Luzerne Counties have lower (worse) health outcomes rankings from the FY2016 CHNA. A leading indicator of health outcomes is premature death; both counties have a higher premature death rate than the state and the nation.

> Obesity:

- More than one quarter of adults in the region are obese; adults in Lackawanna and Wayne Counties are more likely to be obese than adults across the state and the nation. Adults in all counties are more likely to be physically inactive.
- Obesity rates among students exceed state benchmarks. A contributing factor to youth obesity is food insecurity; children in the region are more likely to be food insecure when compared to the state and the nation.
- Top Causes of Death: Heart disease, cancer, and accidents are the top causes of death within the Northeast Region. Death rates due to heart disease and cancer are declining, but all counties have a higher rate of death compared to state and national benchmarks. Accidental death rates among Northeast Region counties exceed national benchmarks; death rates for Lackawanna and Wayne Counties also exceed the state.
- Diabetes: Adult diabetes prevalence increased for all counties from 2009 to 2013. All counties have a higher diabetes prevalence rate than the state, and a higher diabetes death rate than the state and the nation.

Notifiable Diseases:

> Chlamydia: All counties have a lower incidence rate compared to the state and the nation, but rates increased by more than 50 points from 2010 to 2016.

- > Lyme Disease: Lyme disease incidence increased across the region. Wayne County has the highest incidence rate and exceeds the state rate.
- > Child Lead Poisoning: Northeast Region children ages 0 to 2 are more likely than children across the state to test positive for lead poisoning, as measured by a blood lead level of 10 µg/dL or higher.

Mental Health and Substance Abuse:

- Suicide Death: The suicide death rate for all counties exceeds state and national benchmarks. Lackawanna and Luzerne Counties experienced a sharp increase in the number of suicides from 2014 to 2015.
- Mental and Behavioral Disorders Death: Lackawanna and Luzerne Counties have a higher mental and behavioral disorders death rate than the nation; the death rate is increasing.
- Excessive Drinking: Adults in the Northeast Region are just as likely to drink excessively compared to the state and the nation, but a higher percentage of driving deaths are due to DUI, particularly in Lackawanna and Luzerne Counties.

> Drug-Induced Deaths:

- Drug-induced deaths include drug overdoses and deaths from medical conditions resulting from chronic drug use. Lackawanna and Luzerne Counties have a higher death rate than the state and the nation; the rates increased over the past decade. Wayne County has a higher death rate than the nation; annual trends are not reported.
- Deaths due to drug-related overdoses increased for Lackawanna and Luzerne Counties; the counties are among the top 25% of Pennsylvania counties with regard to overdose death rates.
- Youth Indicators: Students in all reported grades in Luzerne County are more likely to be sad or depressed when compared to the state. Students in 10th and 12th grades in Lackawanna County are more likely to be sad or depressed. Tenth and 12th grade students in both counties exceed state benchmarks for alcohol and/or marijuana use.

> Senior Health:

- Fifty percent or more of senior Medicare Beneficiaries have high cholesterol and/or hypertension. Beneficiaries in Luzerne County have some of the highest rates of chronic disease overall and are more likely to manage four or more chronic conditions concurrently.
- All counties have a higher percentage of seniors who live alone compared to the state and the nation. The percentage of seniors who live alone increased in Luzerne and Wayne Counties.

Maternal and Child Health:

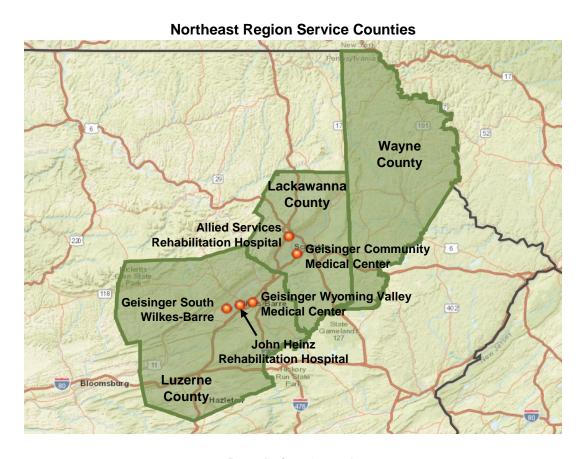
- Prenatal Care: Lackawanna and Luzerne Counties do not meet the Healthy People 2020 goal for the percentage of mothers receiving first trimester prenatal care. Black/African American and Hispanic/Latina mothers are the least likely to receive care.
- Smoking during Pregnancy: The percentage of mothers who smoke during pregnancy decreased, but no counties meet the Healthy People 2020 goal for the measure. White mothers are the most likely to smoke during pregnancy.
- > Breastfeeding: The percentage of mothers who breastfeed increased, but the counties do not meet the Healthy People 2020 goal for the measure. White and Black/African American mothers are the least likely to breastfeed.
- > Infant Death: The Lackawanna County infant death rate exceeds the state and the Healthy People 2020 goal. The rate has been variable over the past decade.

Full Report of Demographic Analysis

The following section outlines key demographic indicators related to the social determinants of health within the service counties. 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, or environmental disadvantage." All reported demographic data are provided by ESRI Business Analyst, 2017 and the US Census Bureau, American Community Survey.

Northeast Region Demographic Overview

The 2017 population of the Northeast Region is 589,689. Luzerne County comprises the largest portion of the population (54%), followed by Lackawanna County (37%). County populations are expected to remain stable with increases or decreases of approximately 1% by 2022.



Population Growth

	2017 Population	% Growth from 2010	% Growth by 2022
Lackawanna County	215,921	0.7%	0.6%
Luzerne County	320,999	0.0%	-0.5%
Wayne County	52,769	-0.1%	-0.8%

The Northeast Region population is primarily White, but increasingly diverse. The percentage of White residents decreased from 2010 to 2017, and is projected to decrease through 2022. The percentage of residents identifying as Black/African American and/or Hispanic/Latino is increasing. Consistent with the demographics of the service area, residents are more likely to speak English as their primary language when compared to the state and the nation.

Pennsylvania has a higher median age than the nation. The median age of the Northeast Region counties exceeds the state. Wayne County has the highest median age, exceeding the state median by 7 points.

2017 Population Overview

	Lackawanna County	Luzerne County	Wayne County	PA	US
White	89.0%	86.3%	92.9%	79.6%	70.2%
Black or African American	3.2%	4.6%	3.6%	11.2%	12.8%
Asian	2.5%	1.3%	0.6%	3.5%	5.6%
Hispanic or Latino (any race)	7.4%	11.2%	4.8%	7.4%	18.2%
Speak English Only*	91.1%	90.3%	94.3%	89.4%	79.0%

^{*}Data are reported for 2011-2015.

2010-2022 Population Change by Race/Ethnicity

	White		Black/ Ame		Hispanic	or Latino		
	2010	2022	2010	2022	2010	2022		
Lackawanna County	92.0%	86.1%	2.5%	3.9%	5.0%	9.4%		
Luzerne County	90.7%	82.9%	3.4%	5.7%	6.7%	14.2%		
Wayne County	94.2%	91.7%	3.1%	4.2%	3.4%	6.1%		

2017 Population by Age

	Lackawanna	Luzerne	Wayne	PA	US			
	County	County	County	1.7	03			
Under 14 years	15.5%	15.0%	13.3%	16.8%	18.6%			
15-24 years	12.8%	12.2%	9.9%	13.2%	13.3%			
25-34 years	12.1%	12.0%	11.1%	12.5%	13.8%			
35-54 years	24.5%	25.5%	26.2%	13.7%	6.6%			
55-64 years	14.3%	14.4%	16.8%	14.1%	12.9%			
65+ years	20.6%	20.6%	22.5%	18.1%	15.6%			
Median Age	43.3	44.1	47.9	41.3	38.2			

Economic indicators vary across the region. Lackawanna County mirrors the nation for residents living in poverty, despite having a lower median household income. Luzerne County has the lowest median household income in the region; residents are more likely to live in poverty and receive food stamp benefits. Wayne County has the highest median household income in the region; residents are the least likely to live in poverty or receive food stamp benefits.

Northeast Region counties have a more prominent blue collar workforce and a lower or comparable unemployment rate compared to the state and the nation. Wayne County has the lowest unemployment rate and the highest percentage of blue collar workers.

2017 Median Household Income and 2011-2015 Poverty/Food Stamp Status

	Lackawanna County	Luzerne County	Wayne County	PA	US
Median Household Income	\$50,000	\$47,843	\$52,942	\$56,184	\$56,124
People in Poverty	14.8%	15.8%	12.9%	13.5%	15.5%
Children in Poverty	21.8%	27.2%	19.0%	19.2%	21.7%
Households with Food Stamp/SNAP Benefits	14.2%	16.4%	11.6%	12.9%	13.2%

2017 Population by Occupation and Unemployment

	Lackawanna County	Luzerne County	Wayne County	PA	US
White Collar Workforce	59.0%	57.0%	53.0%	60.0%	61.0%
Blue Collar Workforce	41.0%	43.0%	47.0%	40.0%	39.0%
Unemployment Rate	5.4%	5.6%	4.3%	6.2%	5.5%

Homeownership is a measure of housing affordability and economic stability. Householders in all service counties are more likely to own their home when compared to the nation; households in Wayne County are also more likely to own their home when compared to the state. Wayne County has a higher median household income and higher median home value when compared to the state and the nation.

2017 Population by Household Type

	Lackawanna County	Luzerne County	Wayne County	PA	US
Renter-Occupied	36.0%	34.0%	21.0%	32.3%	37.3%
Owner-Occupied	64.0%	66.0%	79.0%	67.7%	62.7%
Median Home Value	\$158,701	\$135,423	\$198,014	\$182,727	\$207,344

Education is the largest predictor of poverty and one of the most effective means of reducing inequalities. Across all counties, the percentage of residents attaining less than a high school diploma is on par with the state and lower than the nation. Residents are more likely to have a high school diploma than a bachelor's degree or higher when compared to both the state and the nation.

2017 Population (25 Years or Over) by Educational Attainment

	Lackawanna County	Luzerne County	Wayne County	PA	US
Less than a High School Diploma	9.4%	10.4%	10.1%	10.1%	12.6%
High School Graduate/GED	33.2%	34.0%	36.4%	31.2%	23.4%
Bachelor's Degree or Higher	27.6%	22.8%	21.1%	30.3%	31.0%

Across the Northeast Region, Black/African American and Hispanic/Latino residents are impacted by poorer social determinants of health when compared to Whites. The following table profiles poverty, unemployment, and educational attainment by race and ethnicity.

2011-2015 Social and Economic Differences by Race and Ethnicity

People in Poverty							
	Lackawan	na County	Luzerne	County	Wayne County		
	Count	Percentage	Count	Percentage	Count	Percentage	
White	25,549	13.4%	38,362	13.8%	5,870	12.6%	
Black/African American	2,448	42.1%	4,919	48.3%	111	20.3%	
Hispanic/Latino	4,660	38.2%	9,540	35.9%	278	19.0%	
		Unem	ployment Rate	Э			
	Lackawanna County		Luzerne	Luzerne County		County	
	Count	Percentage	Count	Percentage	Count	Percentage	
White	10,880	6.6%	17,194	7.1%	3,232	7.9%	
Black/African American	957	21.4%	1,621	17.7%	98	5.7%	
Hispanic/Latino	859	10.8%	2,963	16.3%	187	11.3%	
		Bachelor's	Degree or H	igher			
	Lackawan	na County	Luzerne County		Wayne County		
	Count	Percentage	Count	Percentage	Count	Percentage	
White	36,983	26.1%	46,143	21.9%	7,394	20.4%	
Black/African American	253	7.8%	697	10.1%	97	6.6%	
Hispanic/Latino	712	12.1%	1,095	8.4%	131	9.9%	

Northeast Region Special Population Groups

Zip code 18472, Waymart, home to a State Correctional Institution and US Penitentiary, has a higher population of Black/African American and Hispanic/Latino residents, which may impact overall diversity percentages for Wayne County.

The following table identifies state and federal prison facilities within the Northeast Region, and corresponding demographic data for the facility's zip code of origin, to analyze potential drivers of racial and ethnic diversity.

State and Federal Prison Facilities and Racial/Ethnic Demographics

		Inmate	Zip Code Demographics		County Demographics	
Prison Facility*	Location	Population	Black/African American	Hispanic/ Latino	Black/African American	Hispanic/ Latino
State Correctional Institution, Dallas	18612, Dallas (Luzerne County)	2,155	0.8%	1.7%	4.6%	11.2%
State Correctional Institution, Hunlock Creek	18621, Hunlock Creek (Luzerne County)	1,123	0.5%	1.7%	4.6%	11.2%
State Correctional Institution, Waymart	18472, Waymart (Wayne County)	1,554	17.5%	10.4%	3.6%	4.8%
US Penitentiary Canaan	18472, Waymart (Wayne County)	1,479	17.5%	10.4%	3.6%	4.8%

Source: Federal Bureau of Prisons and Pennsylvania Department of Corrections

Full Report of Public Health Statistical Analysis

Public health data were analyzed across a number of health issues, including access to care, health behaviors and outcomes, chronic disease morbidity and mortality, mental health and substance abuse trends, and maternal and child health measures.

Data were compiled from secondary sources including the Pennsylvania Department of Health, the Centers for Disease Control and Prevention (CDC), the Behavioral Risk Factor Surveillance System (BRFSS), the University of Wisconsin County Health Rankings & Roadmaps program, among other sources. A comprehensive list of data sources can be found in Appendix A.

Public health data focus on county-level reporting; zip code data is provided as available. Public health data for the service counties are compared to state and national averages and Healthy People 2020 (HP 2020) goals, where applicable, to provide benchmark comparisons. Healthy People is a U.S. Department of Health and Human Services health promotion and disease prevention initiative. Healthy People provides science-based, 10-year national objectives for improving the health of all Americans.

Age-adjusted rates are referenced throughout the report to depict the burden of disease among residents. Age-adjusted rates are summary measures adjusted for differences in age distributions so that data from one year to another, or between one geographic area and another, can be compared as if the communities reflected the same age distribution.

The BRFSS is a telephone survey conducted nationally by the CDC to assess health-related risk behaviors, chronic health conditions, and the use of preventive services. BRFSS findings are reported by county or by region, as available. The regions reported in this assessment include:

- > Region 1: Lackawanna, Luzerne, and Wyoming Counties
- > Region 2: Pike, Monroe, Susquehanna, and Wayne Counties

Access to Healthcare

Northeast Region service counties received the following County Health Rankings for Clinical Care Access out of 67 counties in Pennsylvania. The rankings are based on a number of indicators, including health insurance coverage and provider access. All of the counties have a higher (worse) ranking compared to the 2014 rankings reported as part of the FY2016 CHNA.

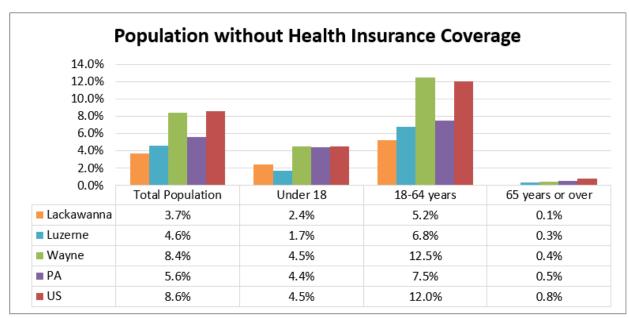
#26 Wayne County (#25 in 2014)
#30 Lackawanna County (#27 in 2014)
#37 Luzerne County (#28 in 2014)

Health Insurance Coverage

Fewer residents within the Northeast Region are uninsured when compared to the nation. The Wayne County uninsured rate exceeds the state rate; however, the county rate includes data years prior to the implementation of the Affordable Care Act individual mandate due to secondary data limitations.

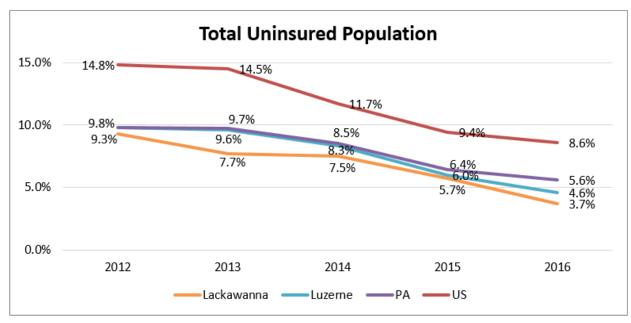
The uninsured rate declined in all service counties; less than 5% of people in Lackawanna and Luzerne Counties are uninsured

The percentage of uninsured residents declined in all counties; Lackawanna County experienced the greatest rate decline of 6 points from 2012 to 2016. However, counties do not meet the Healthy People 2020 goal of having 100% of all residents insured. Uninsured rates are highest among adults ages 18 to 64.

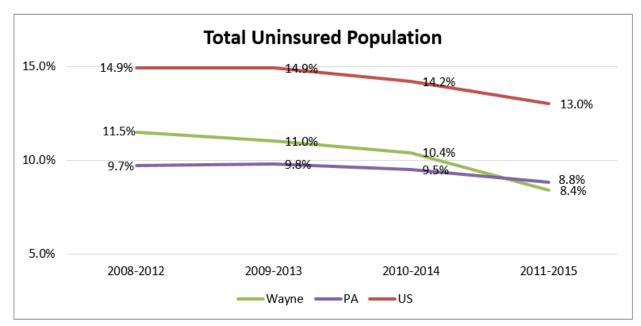


Source: American Community Survey, 2016 & 2011-2015

^{*}Wayne County data are reported for 2011-2015. All other data are reported for 2016.



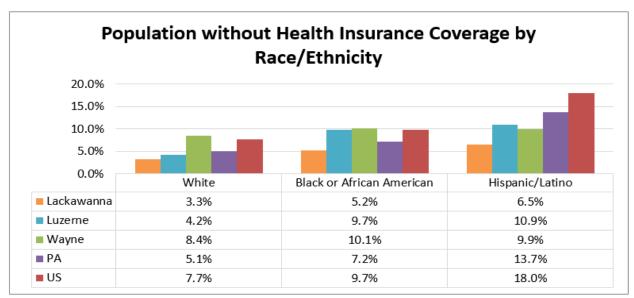
Source: American Community Survey, 2012-2016



Source: American Community Survey, 2008-2012 – 2011-2015

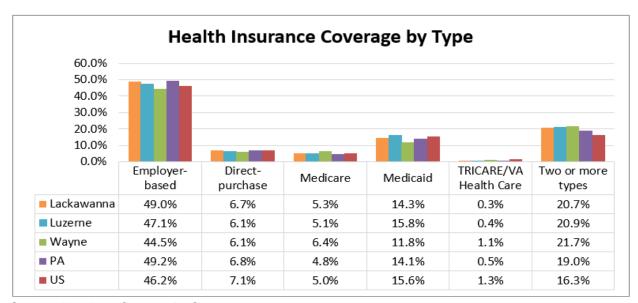
Uninsured rates are highest among Hispanic/Latino residents. Luzerne County has the largest Hispanic/Latino population in the region and the highest uninsured rate among the population. However, Hispanic/Latino uninsured rates among all counties are lower than state and national benchmarks.

Luzerne County has the largest Hispanic/Latino population and the highest uninsured rates among this population



Source: American Community Survey, 2016 & 2011-2015

The following graph depicts health insurance coverage by type of insurance. Residents in the Northeast Region are most likely to be covered by employer-based insurance, followed by a combination (private and/or public) of insurance types.



Source: American Community Survey, 2016 & 2011-2015

Provider Access

Provider rates are measured for primary, dental, and mental health care. In the following table, cells highlighted in green represent provider rates that increased from the previous reporting year. Cells highlighted in red represent provider rates that decreased from the previous reporting year. Provider rates are compared to rates reported in the 2014 County Health Rankings, a source for the FY2016 CHNA.

^{*}Wayne County data are reported for 2011-2015. All other data are reported for 2016.

^{*}Wayne County data are reported for 2011-2015. All other data are reported for 2016.

Across the region, dental and mental health care provider rates increased from the previous

reporting year. Lackawanna County had the greatest provider rate increases. However, all three counties are designated by the Health Resources & Services Administration as Health Professional Shortage Areas (HPSAs) for dental care for low income individuals. Wayne County is also designated as a HPSA for mental health care.

All three counties are designated as HPSAs for dental care; Wayne County is also a HPSA for mental health care

Primary care provider rates decreased or remained stable from 2011 to 2014. All three counties have a lower primary care provider rate than the state; the rate for Wayne County is 31 points lower than the state rate. The region is served by 15 Federally Qualified Health Centers, six are within Wayne County.

The primary care provider rate is lower in all three service counties compared to the state, however, the region is served by 15 FQHCs

Provider Rate Trends per 100,000* (Green = Increase of More than 2 Points; Red = Decrease of More than 2 Points)

	Primary Care		Denta	l Care	Mental Health Care	
	2011	2014	2012	2015	2014**	2016
Lackawanna County	75.6	73.8	66.7	72.7	112.2	131.7
Luzerne County	79.5	79.7	59.2	63.7	80.3	86.4
Wayne County	49.1	50.6	50.0	54.7	36.9	50.8
Pennsylvania	80.4	81.4	60.6	65.4	146.6	167.3
United States	73.8	75.8	60.1	65.8	189.0	200.0

Source: Health Resources & Services Administration, 2011-2015; Centers for Medicare and Medicaid Services, 2013-2016

Health Professional Shortage Areas

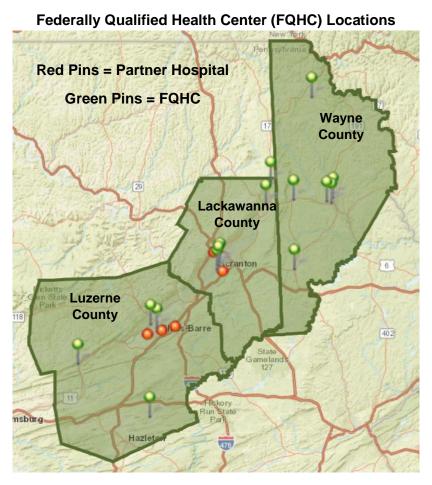
Geographic Area/Population	Primary Care	Dental Care	Mental Health Care
Lackawanna County (All)			
Low income population		X	
Luzerne County (All)			
Eastern Lycoming service	V		
area: Fairmount Twp.	^		
Low income population		X	
Wayne County (All)			X
Central Pike service area:	V		
Dreher and Lehigh Twp.	^		
Low income population		X	

Source: Health Resources & Services Administration, 2017

^{*}Providers are identified based on the county in which their preferred professional/business mailing address is located. Provider rates do not take into account providers that serve multiple counties or satellite clinics.

**Data are reported by the County Health Rankings (CHR). An error occurred in the method for identifying mental health providers in the 2014 CHR report. Data are shown for the 2015 CHR report (data year 2014).

Federally Qualified Health Centers, as defined by HRSA, "are community-based health care providers that receive funds from the HRSA Health Center Program to provide primary care services in underserved areas." They provide care services on a sliding fee scale based on patient ability to pay. The following map identifies the location of FQHCs within the region.



FQHC	Address
Lackawanna County	
Scranton Primary Health Care Center	959 Wyoming Ave., Scranton, 18501
Scranton Primary Health Care Center: Alder Street Family Medicine Clinic	425 Alder Street, Scranton, PA 18505
Scranton Primary Health Care Center: Lackawanna Collage Student Health Services	406 N. Washington Ave., Scranton, PA 18503
Wayne Memorial Community Health Centers: Carbondale Family Health Center	141 Salem Ave., Carbondale, 18407
Wayne Memorial Community Health Centers: McAndrew Family Health Center	111 Main St., Vandling, PA 18421
Luzerne County	
Rural Health Corporation of Northeastern Pennsylvania: Freeland Health Center	404 Ridge St., Freeland, 18224
Rural Health Corporation of Northeastern Pennsylvania: McKinney Homeless Clinic	39 East Jackson St., Wilkes-Barre, 18701

FQHC	Address
Luzerne County	
Rural Health Corporation of Northeastern Pennsylvania: Shickshinny Medical Center	26 North Main St., Shickshinny, 18655
Rural Health Corporation of Northeastern Pennsylvania: Valley Pediatrics	468 Northampton St., Edwardsville, 18704
Wayne County	
Wayne Memorial Community Health Centers: Hamlin Family Health Center	543 Easton Tpke., Lake Ariel, 18436
Wayne Memorial Community Health Centers: Gutherz Family Health Center	600 Maple Ave., Honesdale, 18431
Wayne Memorial Community Health Centers: Northern Wayne Family Health Center	412 Como Rd., Lake Como, 18437
Wayne Memorial Community Health Centers: Honesdale Family Health Center	Rte 6 & Maple Ave., Honesdale, 18431
Wayne Memorial Community Health Centers: Waymart Family Health Center	29 Woodland Ave., Waymart, 18472
Wayne Memorial Community Health Centers: Highland Physicians Family Health Center	1839 Fair Ave., Honesdale, 18431

Source: Pennsylvania Association of Community Health Centers & Health Resources & Services Administration

Routine Care

Health insurance coverage and provider rates impact the number of adults who have a primary care provider and receive routine care. The percentage of adults who receive routine checkups is increasing across the state and in both reporting regions. Adults in both regions are just as likely to consider cost as a barrier to receiving care.

Adults in Region 2, including Wayne County, are less likely to have a personal doctor or to have received a routine checkup within the past two years. Wayne County has a lower uninsured rate compared to the state and the nation, but the lowest primary care provider rate in the region.

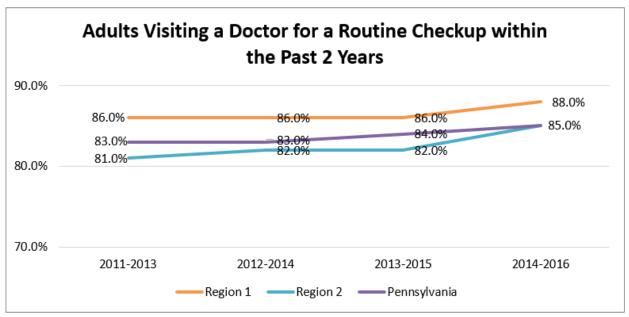
The percentage of adults receiving routine check-ups is increasing across the state

Wayne County has the lowest primary care provider rate in the region; Wayne County adults are among the least likely to have a regular doctor

Adult Health Care Access

	Does Not Have a Personal Doctor	Received a Routine Checkup within the Past 2 Years	Unable to See a Doctor within the Past Year due to Cost
Region 1: Lackawanna/ Luzerne/Wyoming	11%	88%	13%
Region 2: Pike/Monroe/ Susquehanna/Wayne	13%	85%	13%
Pennsylvania	14%	85%	12%

Source: PA Department of Health BRFSS, 2014-2016



Source: PA Department of Health, 2011-2013 - 2014-2016

Overall Health Status

Northeast Region service counties received the following County Health Rankings for Health Outcomes out of 67 counties in Pennsylvania. Health outcomes are measured in relation to premature death (before age 75) and quality of life. Lackawanna and Luzerne Counties have higher (worse) rankings compared to the 2014 rankings reported as part of the FY2016 CHNA. Wayne County has a lower (better) ranking.

2017 Health Outcomes County Health Rankings #17 Wayne County (#29 in 2014) #57 Lackawanna County (#56 in 2014) #62 Luzerne County (#57 in 2014)

Wayne County has the best health outcomes ranking in the region despite more prevalent health care access barriers. The county's premature death rate and the percentage of adults who self-report having "poor" or "fair" health status are lower than the state and the nation.

Luzerne County has the lowest health outcomes ranking in the region. The county has a higher premature death rate than the state and the nation and adults report a higher average of poor physical and mental health days. Lackawanna County also has a higher premature death rate despite fewer adults reporting poor health status.

Health Outcomes Indicators (Red = Higher Premature Death Rate than the State and the Nation)

	Premature Death Rate per 100,000	Adults with "Poor" or "Fair" Health Status	30-Day Average - Poor Physical Health Days	30-Day Average - Poor Mental Health Days
Lackawanna County	7,860	14.0%	3.5	3.8
Luzerne County	8,026	15.5%	3.8	3.9
Wayne County	6,589	13.9%	3.5	3.7
Pennsylvania	6,843	15.3%	3.5	3.9
United States	6,600	15.0%	3.6	3.7

Source: National Center for Health Statistics, 2012-2014; CDC BRFSS, 2015

Health Behaviors

Individual health behaviors include risk behaviors like smoking, excessive drinking, and obesity, or positive behaviors like exercise, good nutrition, and stress management. Health behaviors may increase or reduce the chance of disease. The prevalence of these health behaviors is provided below, with benchmark comparisons, as available.

Risk Behaviors

Adults in the Northeast Region counties have similar smoking rates when compared to the state and the nation, but do not meet the Healthy People 2020 goal. Lackawanna County has the

highest rate of adult smokers, exceeding the Healthy People 2020 goal by more than 7 points. Smoking rates decreased across the region from 2006-2012 (2014 County Health Rankings report) to 2015. Luzerne County had the greatest decline in adult smokers from 25% to 18%.

Adult smoking rates decreased in all counties from 2006-2012 to 2015, but still exceed the HP 2020 goal

Excessive drinking includes heavy drinking (2 or more drinks per day for men and 1 or more drinks per day for women) and binge drinking (five or more drinks on one occasion for men and four or more drinks on one occasion for women). Adults in all counties are just as likely to drink excessively compared to adults across the state and the nation. Excessive drinking rates declined in Lackawanna and Luzerne Counties, but increased slightly in Wayne County.

Health Risk Behavior Changes among Adults from the FY2016 CHNA to Present (Green = Decrease of More than 2 Points; Red = Increase of More than 2 Points)

	Smoking		Excessive	e Drinking
	2006-2012	2015	2006-2012	2015
Lackawanna County	23.1%	19.4%	23.5%	17.6%
Luzerne County	24.6%	17.7%	19.9%	18.0%
Wayne County	18.9%	17.0%	17.7%	18.1%
Pennsylvania	19.9%	18.1%	17.3%	18.1%
United States	18.1%	18.0%	15.0%	18.0%
Healthy People 2020	12.0%	12.0%	NA	NA

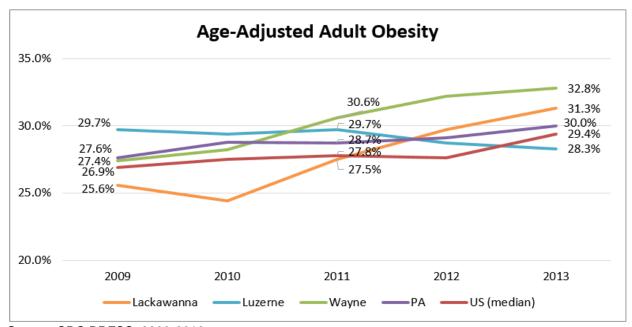
Source: CDC BRFSS*, 2006-2012 & 2015 & Healthy People 2020

Obesity

The percentage of obese adults and youth is a national epidemic. Across Pennsylvania and the nation, approximately 30% of adults are obese. Adults in Lackawanna and Wayne Counties are more likely to be obese when compared to the state and the nation, and

Approximately one-quarter to one-third of service county adults are obese

do not meet the Healthy People 2020 goal of 30.5%. The adult obesity percentage in Luzerne County is lower than state and national rates, but accounts for more than one-quarter of adults.



Source: CDC BRFSS, 2009-2013

Pennsylvania youth are screened for BMI as part of school health assessments. Data are

reported for students in grades K-6 and 7-12. As of the 2012-2013 school year, approximately 20% of youth in

Approximately 20% of service county youth are obese, a higher percentage than the state

^{*}A change in methods occurred in 2011 that may affect the validity of comparisons to past years.

^{*}A change in methods occurred in 2011 that may affect the validity of comparisons to past years.

the service counties are obese. Percentages in all counties exceed state benchmarks.

Overweight and Obesity among Students
(Red = Higher Overweight/Obesity Rate than the State by More than 2 Points)

`				•	
	Overweight		Obese		
	K-6 Grade	7-12 Grade	K-6 Grade	7-12 Grade	
Lackawanna County	19.9%	16.3%	20.8%	20.0%	
Luzerne County	17.6%	20.1%	19.2%	18.4%	
Wayne County	14.7%	15.6%	20.2%	21.4%	
Pennsylvania	22.0%	22.1%	16.4%	18.0%	

Source: PA Department of Health, 2012-2013

Food insecurity, defined as being without a consistent source of sufficient and affordable nutritious food, contributes to obesity rates. The overall population in the Northeast Region is

less likely to be food insecure when compared to the state and the nation. However, children are more likely to be food insecure. Children in Luzerne County are the most likely to be food insecure, exceeding state and national benchmarks by nearly 3 points. They are also the most likely to be eligible for free or reduced lunches in school.

Luzerne County children are more likely to be food insecure and eligible for free or reduced price lunches

Food Insecure Residents

	All Residents	Children
Lackawanna County	12.7%	18.9%
Luzerne County	12.8%	20.5%
Wayne County	11.2%	18.8%
Pennsylvania	13.1%	17.9%
United States	13.4%	17.9%

Source: Feeding America, 2015

Children Eligible for Free or Reduced Price Lunch

	Percent	
Lackawanna County	46.2%	
Luzerne County	57.9%	
Wayne County	46.5%	
Pennsylvania	45.6%	
United States	52.0%	

Source: National Center for Education Statistics, 2014-2015

Access to physical activity includes access to parks, gyms, pools, etc. Across the region, residents in Lackawanna County are the most likely to have access to physical activity opportunities and the least likely

Approximately one-quarter.

Approximately one-quarter.

Approximately one-quarter of Northeast Region adults are physically inactive, higher than state national benchmarks

to be physically inactive. However, adults in all of the

counties are more likely to be physically inactive when compared to the state and the nation.

Physical Activity

(Red = Lower Access and Higher Inactivity than the State and Nation by More than 2 Points)

	Access to Physical Activity	Physically Inactive Adults
Lackawanna County	91.9%	23.8%
Luzerne County	81.8%	28.2%
Wayne County	69.3%	24.8%
Pennsylvania	85.2%	23.1%
United States	84.0%	22.0%

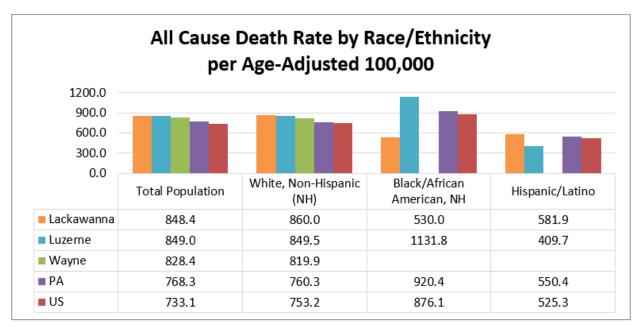
Source: Business Analyst, Delorme Map Data, ESRI, & US Census Tigerline Files, 2010 & 2014; CDC BRFSS, 2013

Mortality

The 2015 all cause age-adjusted death rate among Northeast Region counties is higher than state and national rates. Across the state and the nation, the death rate is highest among Blacks/African Americans. Blacks/African Americans in Luzerne County also have a higher death rate; Black/African

Northeast Region counties have a higher rate of death compared to the state and the nation

American deaths in Lackawanna and Wayne number less than 25 per county.



Source: CDC WONDER, 2015

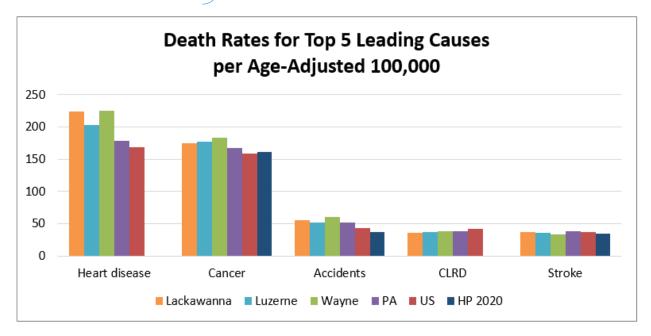
The top five causes of death in the nation, in rank order, are heart disease, cancer, accidents, chronic lower respiratory disease (CLRD), and stroke. The following chart profiles death rates for the top five causes by service county.

Northeast Region residents have a higher rate of death due to heart disease and cancer compared to state and national benchmarks Northeast Region residents have higher rates of death due to heart disease and cancer when compared to state and national benchmarks. Lackawanna and Wayne County death rates due to heart disease exceed the national rate by more than 50 points.

Pennsylvania overall has a higher death rate due to accidents than the nation. Accidental deaths include transport accidents, falls, accidental discharge of firearms, drowning, exposure to fire or smoke, and poisoning. Death rates among Northeast Region counties exceed the nation and the Healthy People 2020 goal; death rates for Lackawanna and Wayne Counties also exceed the state. Wayne County has the highest death rate, exceeding the Healthy People 2020 goal by 24 points.

Wayne County meets the HP 2020 goal for death due to stroke;
Lackawanna and Luzerne County nearly meet the goal

Northeast Region counties have a lower rate of CLRD and stroke death compared to the state and the nation. Wayne County meets the Healthy People 2020 goal for stroke death.



Source: CDC WONDER, 2015; Healthy People 2020

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. Approximately 7% of adults in the Northeast Region have been diagnosed with a form of heart

The heart disease death rate for all counties is decreasing, but exceeds the state and the nation

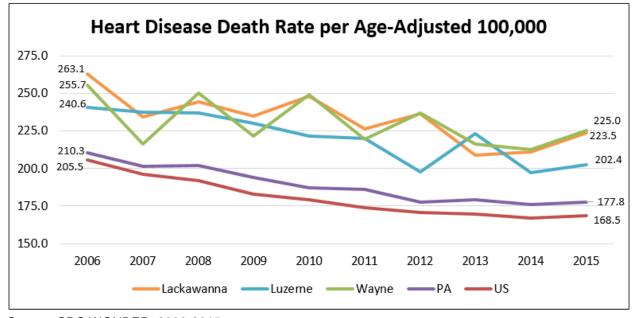
disease, similar to the state rate. Adults in the Northeast Region also have similar rates of heart attack and stroke when compared to the state.

Heart disease death rates decreased across the Northeast Region, but continue to exceed state and national rates. Lackawanna County experienced the greatest decline in death rates between 2006 and 2015 (40 points), followed by Luzerne County (38 points).

Heart Disease Prevalence among Adults

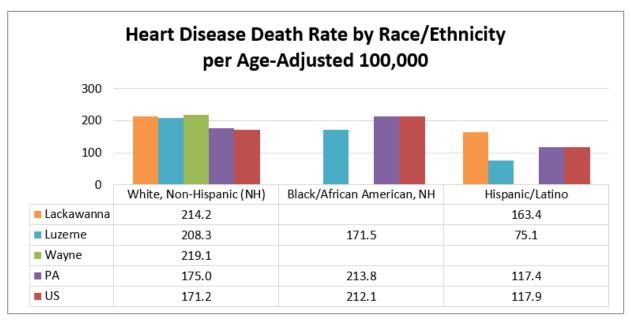
	Heart Disease	Heart Attack	Stroke
Region 1: Lackawanna/ Luzerne/Wyoming	7%	8%	4%
Region 2: Pike/Monroe/ Susquehanna/Wayne	7%	8%	5%
Pennsylvania	7%	7%	5%

Source: PA Department of Health, 2014-2016



Source: CDC WONDER, 2006-2015

Across the state and the nation, Blacks/African Americans have a higher heart disease death rate than Whites. Death rates among Blacks/African Americans in Lackawanna and Wayne Counties are not reported; the death rate for Luzerne County is based on a count of 27 deaths.



Source: CDC WONDER, 2013-2015

Coronary heart disease (CHD) is characterized by the buildup of plaque inside the coronary arteries. Pennsylvania and the nation meet the Healthy People 2020 goal for CHD death. Northeast Region counties have a higher rate of CHD death and do not meet the goal. Wayne County exceeds the goal by 37 points.

Northeast Region counties exceed the HP 2020 goal for CHD death, but meet or are within reach of the goal for stroke death

Several types of heart disease, including coronary heart disease, are risk factors for stroke. Wayne County meets the Healthy People 2020 goal for stroke death; Lackawanna and Luzerne Counties are within reach of the goal.

Coronary Heart Disease and Stroke Death Rates
(Green = Meets Healthy People 2020 Goal; Red = Higher than the State and the Nation)

	Coronary Heart Disease Death	Stroke Death per Age-
	per Age-Adjusted 100,000	Adjusted 100,000
Lackawanna County	105.1	37.5
Luzerne County	123.9	35.2
Wayne County	140.4	33.0
Pennsylvania	99.7	38.8
United States	97.2	37.6
HP 2020	103.4	34.8

Source: CDC WONDER, 2015

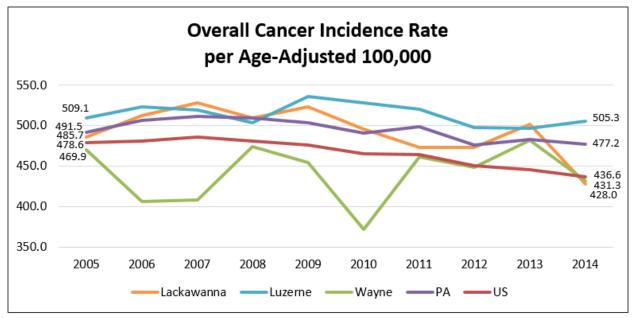
^{*}Death rates are reported as a 2013-2015 aggregate. Lackawanna and Wayne County data are limited due to low death counts.

Cancer

The cancer incidence rate for Pennsylvania is declining, but the current rate exceeds the national rate by 41 points. The Luzerne County incidence rate has been consistently high over

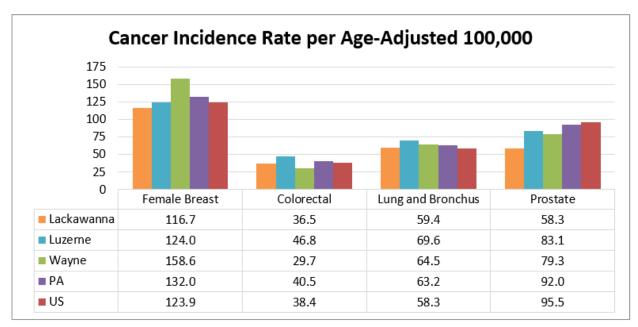
the past decade and is currently higher than the state rate. The Lackawanna County incidence rate is lower than the state rate due to a 74 point decline between 2013 and 2014. The county rate has historically been similar to the state rate. The Wayne County incidence rate is similar to the national rate, but the rate has been variable over the past decade.

Cancer incidence in Luzerne County is higher than the state rate, while incidence in Lackawanna and Wayne Counties is on par with the nation



Source: CDC National Program of Cancer Registries, 2005-2014; PA Department of Health, 2005-2014

Presented below are the incidence rates for the most commonly diagnosed cancers: breast (female), colorectal, lung, and prostate (male). Luzerne County has the highest overall cancer incidence rate; county incidence rates for colorectal and lung cancer exceed state and national rates. Wayne County also has a high incidence of female breast cancer, exceeding the state rate by 27 points.

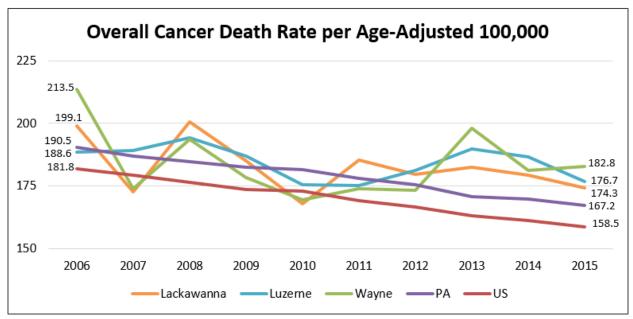


Source: CDC National Program of Cancer Registries, 2014; PA Department of Health, 2014 *The prostate cancer rate for Wayne County is reported for 2012-2014 due to a low count.

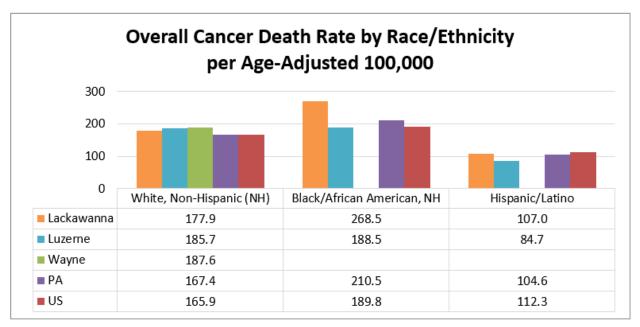
Cancer death rates among Northeast Region counties have been variable over the past decade, but generally declining. Current death rates exceed the state, the nation, and the Healthy People 2020 goal (161.4). Across the region, death rates are highest among Blacks/African Americans. Lackawanna County experiences the greatest disparity; the

Northeast Region counties have a higher rate of cancer death; rates are highest among Blacks/African Americans

death rate among Blacks/African Americans is 91 points higher than the rate among Whites.



Source: CDC Wonder, 2006-2015



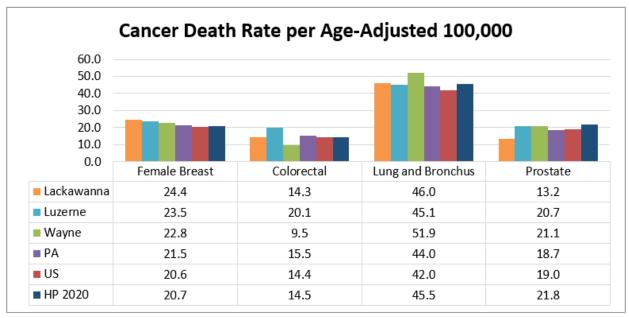
Source: CDC Wonder, 2013-2015

*Death rates are reported as a 2013-2015 aggregate. Lackawanna and Wayne County data are limited due to low death counts.

Presented below are the death rates for the most commonly diagnosed cancers. All three counties meet the Healthy People 2020 goal for death due to prostate cancer, but exceed the goal for death due to female breast cancer. Death rates

All Northeast Region counties meet the HP 2020 goal for prostate cancer, but exceed the goal for female breast cancer

are also higher for colorectal cancer in Luzerne County and lung cancer in Wayne County.



Source: CDC Wonder, 2013-2015

^{*}Death rates are reported as a 2013-2015 aggregate.

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 (COPD), emphysema, and asthma. Northeast Region counties have lower rates of death due to CLRD compared to state and national benchmarks

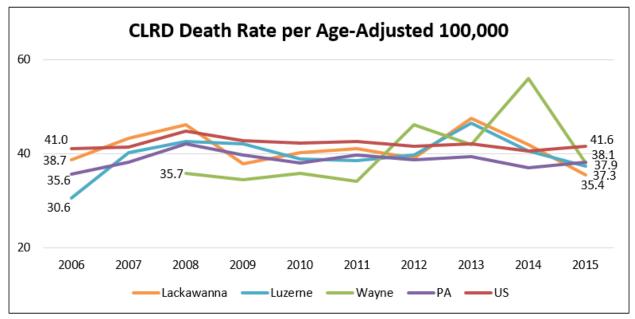
Reporting Region 2, which includes Wayne County, has a higher incidence of adults with asthma and COPD. However, all Northeast Region counties have a lower death rate due to CLRD when compared to the state and the nation. Death rates across the state and the nation have been stable; service county death rates varied over the past four years. Data by race and ethnicity are not reported due to low death counts.

Smoking cigarettes contributes to the onset of CLRD. All counties have similar adult smoking rates when compared to the state and the nation, but do not meet the Healthy People 2020 goal.

CLRD Prevalence among Adults

	Asthma Diagnosis (Current)	COPD Diagnosis (Ever)
Region 1: Lackawanna/ Luzerne/Wyoming	10%	8%
Region 2: Pike/Monroe/ Susquehanna/Wayne	15%	10%
Pennsylvania	10%	7%

Source: PA Department of Health, 2014-2016



Source: CDC Wonder, 2006-2015

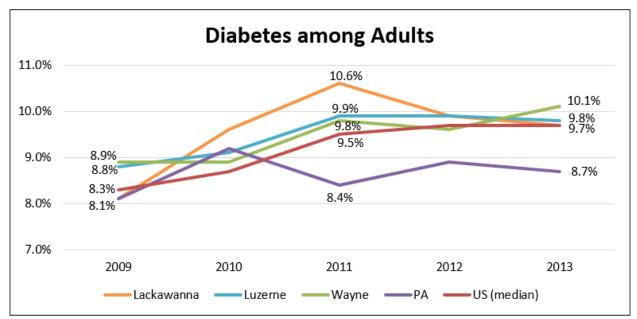
^{*}Wayne County death rates are not reported for 2006 and 2007 due to low annual death counts.

Diabetes

Diabetes is among the top 10 causes of death in the nation. According to the American Diabetes Association, diabetes and prediabetes affect more than 110 million Americans and cost \$332 billion per year. Diabetes can cause a number of serious complications. Type II diabetes, the most common form, is largely preventable through diet and exercise.

All of the counties experienced a sharp increase in adult diabetes prevalence from 2009 to 2011. Between 2011 and 2013, prevalence rates remained stable. Adults are more likely to have a diabetes diagnosis when compared to the state, but they have similar rates to the nation.

Approximately 10% of Northeast Region adults have diabetes, similar to the nation and higher than the state



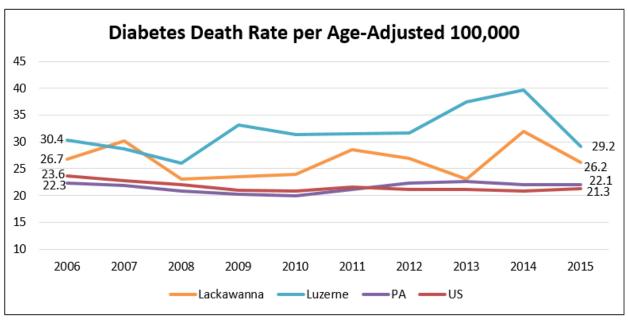
Source: CDC Diabetes Atlas & BRFSS, 2009-2013

The diabetes death rate among Northeast Region counties is higher than state and national rates. In Lackawanna and Luzerne Counties, the diabetes death rate has been variable, and 2015 death rates are similar to 2006 death rates. Wayne County year-over-year trends are not reported due to low death counts. The three year (2013-2015) aggregate death rate for the county is 25.1 per 100,000.

The diabetes death rate is higher in all service counties compared to the state and the nation

Across Pennsylvania and the nation, the diabetes death rate is highest among Blacks/African Americans and Hispanics/Latinos. Racial and ethnic data are not reported by Northeast Region county due to low death counts.

^{*}A change in methods occurred in 2011 that may affect the validity of comparisons to past years.



Source: CDC Wonder, 2006-2015

State and National Diabetes Death Rates by Race and Ethnicity

	White Death Rate	Black/African	Hispanic/Latino
Willie Dealii Nate		American Death Rate	Death Rate
Pennsylvania	21.0	34.6	26.5
United States	18.7	38.5	25.5

Source: CDC WONDER, 2013-2015

Notifiable Diseases

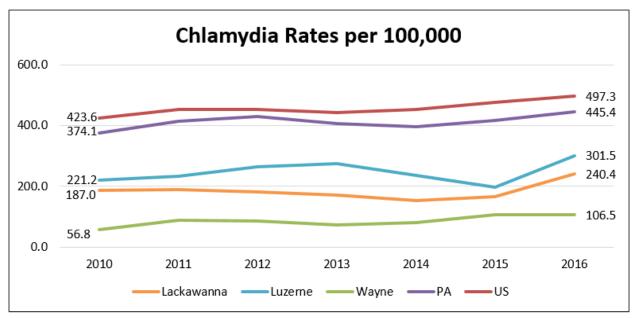
Sexually Transmitted Illnesses

Sexually transmitted illnesses (STIs) include chlamydia, gonorrhea, and HIV. The incidence of chlamydia in the Northeast Region is lower when compared to the state and the nation, but increasing. The incidence rate increased by 50 points or more in each county.

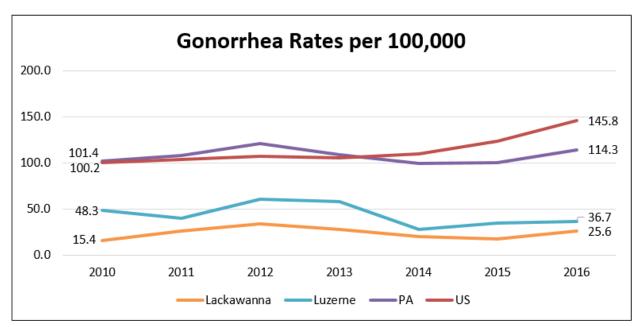
The incidence of chlamydia and gonorrhea in Northeast Region counties is lower when compared to the state and the nation. Chlamydia incidence is increasing.

The incidence of gonorrhea in the Northeast Region is also lower when compared to the state and the nation. However, the rate is increasing in Lackawanna County, and has been variable in Luzerne County. Wayne County year-over-year trends are not reported due to low counts. The three year (2014-2016) aggregate incidence rate for the county is 7.8 per 100,000, lower than the state and the nation.

All service counties have a lower incidence of HIV compared to the state and the nation. A total of 133 cases of HIV occurred in all three counties between 2013 and 2016.



Source: CDC Sexually Transmitted Diseases, 2010-2016 & PA Department of Health, 2010-2016



Source: CDC Sexually Transmitted Diseases, 2010-2016 & PA Department of Health, 2010-2016

HIV Incidence Rate

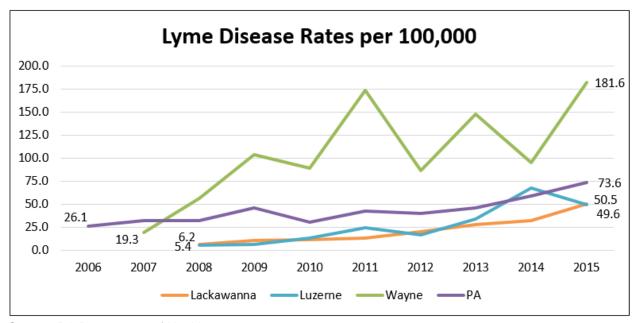
	2015 Crude Incidence	Cumulative 2013-2016
	Rate per 100,000	Incidence Count
Lackawanna County	5.2	45
Luzerne County	8.2	77
Wayne County	5.9	11
Pennsylvania	9.1	4,705
United States	12.3	NA

Source: CDC, 2015 & PA Department of Health, 2013-2016 & 2015

Lyme Disease

Lyme disease, according to the CDC, "is transmitted to humans through the bite of infected blacklegged ticks. Typical symptoms include fever, headache, fatigue, and a characteristic skin rash called erythema migrans. If left untreated, infection can spread to joints, the heart, and the nervous system." The northeast United States, from Virginia to Maine, is one of the primary geographic areas for infection.

The incidence of Lyme disease has increased steadily across the state and the region, particularly in the last three years. Wayne County has the highest Lyme disease incidence rate. Approximately 218 people in the county were infected between 2013 and 2015, accounting for 23% of all cases in the region.



Source: PA Department of Health, 2006-2015

Child Lead Screening and Poisoning

The CDC estimates that at least four million households have children living in them that are being exposed to high levels of lead. Lead exposure increases the risk for central nervous system damage, slowed growth and development, and hearing and speech problems.

The measure for high levels of lead exposure or lead poisoning was recently revised from 10 micrograms per decileter of blood ($\mu g/dL$) or higher to 5 $\mu g/dL$ of blood or higher. The Pennsylvania Department of Health reports blood lead levels based on the original measure. The following table depicts children between 0 and 6 years who have been tested for blood lead levels and who have lead poisoning.

Approximately one-fifth to one-quarter of children ages 0 to 2 in the Northeast Region are tested for lead poisoning. Children in Lackawanna County are less likely to be tested. Children ages 0 to 2 in all counties are more likely to have lead poisoning when compared to the state.

^{*}Lyme disease rates for 2006 and 2007 may not be reported due to low annual counts.

Lead Screening and Poisoning among Children 0 to 6 Years of Age

	Age Group	Percent Tested for	Percent with Blood
	Age Group	Lead Poisoning	Lead Levels ≥10 µg/dL
Lackawanna County	0-2 years	20.3%	3.8%
Lackawaiiia County	3-6 years	5.3%	1.8%
Luzorno County	0-2 years	24.1%	2.5%
Luzerne County	3-6 years	3.8%	2.0%
Wayna Caunty	0-2 years	26.0%	3.2%
Wayne County	3-6 years	4.2%	2.7%
Donnovlyonia	0-2 years	26.0%	1.8%
Pennsylvania	3-6 years	4.5%	2.4%

Source: PA Department of Health, 2014

Behavioral Health

Mental Health

The suicide rate is one measure of mental health status. The rate among Northeast Region counties exceeds state and national benchmarks. Luzerne County has the highest suicide rate, exceeding the Healthy People 2020 goal by

The suicide rate is higher in all Northeast Region counties compared to the state and the nation; Luzerne County has the highest rate with 70 suicides in 2015 alone

12 points. The suicide rate for the county has been variable over the past decade, but consistently above the Healthy People 2020 goal. The rate increased sharply between 2014 and 2015 due to a decade high number of suicide deaths (n=70). Luzerne County has the highest self-reported average of poor mental health days among adults.

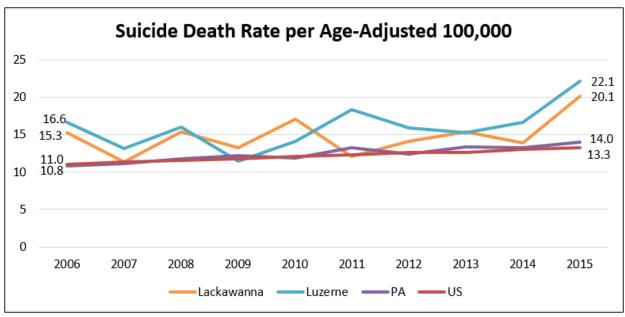
Mental and behavioral disorders span a wide range of disorders, including dementia, amnesia, Schizophrenia, phobias, and mood or personality disorders. The disorders are not induced by alcohol and other psychoactive substances, but they may result from substance abuse. The mental and behavioral disorders death rate is higher in Lackawanna and Luzerne Counties compared to the nation, and increasing. The death rate increased across Pennsylvania and the nation over the past decade.

Mental Health Measures

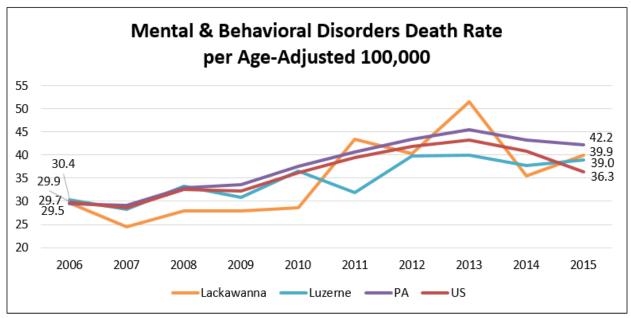
	30-Day Average - Poor Mental Health Days (Adults)	Suicide Rate per Age-Adjusted 100,000	Mental & Behaviors Disorders Death Rate per Age-Adjusted 100,000
Lackawanna County	3.8	20.1	39.9
Luzerne County	3.9	22.1	39.0
Wayne County	3.7	20.6	23.1
Pennsylvania	3.9	14.0	42.2
United States	3.7	13.3	36.3
HP 2020	NA	10.2	NA

Source: CDC BRFSS & WONDER, 2013-2015 & 2015 & Healthy People 2020

^{*}Suicide and mental and behavioral disorders death data for Wayne County are reported for 2013-2015 due to a low death count.



Source: CDC Wonder, 2006-2015



Source: CDC Wonder, 2006-2015

Substance Abuse

Substance abuse includes both alcohol and drug abuse. Adults in Northeast Region counties are just as likely to drink excessively compared to the state and the nation. However, a higher percentage of driving deaths in the region are due to driving under the influence (DUI).

Adults in the Northeast Region are just as likely to drink excessively compared to the state and the nation, but a higher percentage of driving deaths are due to DUI

Drug-induced deaths include all deaths for which drugs are the underlying cause, including drug overdoses and deaths from medical conditions resulting from chronic drug use. Pennsylvania

has a higher drug-induced death rate than the nation. The drug-induced death rate for

The drug-induced death rate is increasing across the Northeast Region; Lackawanna and Luzerne Counties had a decade high number of deaths in 2015

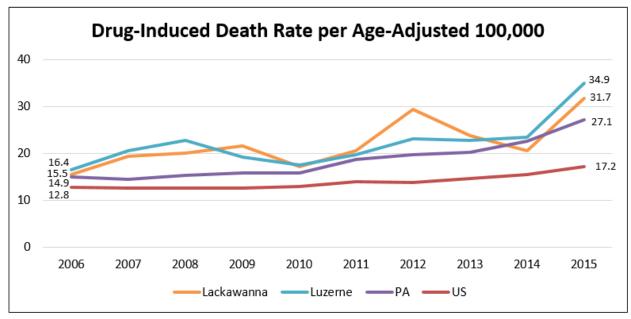
Lackawanna and Luzerne Counties exceeds the state rate by 5 points and 8 points respectively. The death rate increased in both counties over the past decade. Wayne County has a similar drug-induced death rate to the state; the rate is higher than the national rate and does not meet the Healthy People 2020 goal.

Substance Abuse Measures

	Excessive Drinking (Adults)	Percent of Driving Deaths due to DUI	Drug-Induced Death Rate per Age- Adjusted 100,000
Lackawanna County	17.6%	31.9%	31.7
Luzerne County	18.0%	41.7%	34.9
Wayne County	18.1%	39.5%	26.1
Pennsylvania	18.1%	32.0%	27.1
United States	18.0%	30.0%	17.2
HP 2020	NA	NA	11.3

Source: CDC BRFSS & WONDER, 2013-2015 & 2015; National Highway Traffic Safety Administration, 2011-2015; Healthy People 2020

^{*}The drug-induced death rate for Wayne County is reported for 2013-2015 due to a low death count.



Source: CDC Wonder, 2006-2015

Licensed drug and alcohol treatment providers in Pennsylvania that receive federal, state, or local funds from the Department of Drug and Alcohol Programs are required to report admission data to the Department. Providers that do not receive federal, state, or local funds are not required to report admission data, but may do so voluntarily. The following tables profile information from reporting providers.

Across the Northeast Region, there are 33 licensed drug and alcohol treatment facilities. The majority of facilities provide outpatient services. Outpatient services typically focus on individuals with mild addiction, providing education, counseling, and support.

The number of drug and alcohol treatment admissions declined in Lackawanna County, but increased in Luzerne and Wayne Counties from fiscal years 2013-2014 to 2014-2015. Individuals from Lackawanna County are also the least likely to be admitted for treatment more than once. Across all three counties, the majority of admissions are due to drug abuse.

Drug and alcohol treatment admissions increased in Luzerne and Wayne Counties; the majority of admissions across the region are due to drug abuse

Licensed Drug and Alcohol Treatment Facilities

	Total Facilities	Inpatient Non-Hospital	Inpatient Hospital	Partial Hospitalization	Outpatient Facilities
Lackawanna County	12	4	0	4	10
Luzerne County	17	8	0	4	10
Wayne County	4	1	0	0	3
Pennsylvania	721	177	14	125	575

Source: PA Department of Health, FY2014-2015

Admissions to State Supported Facilities

	Admissions			of Clients litted		of Clients ed Once	
	FY 13-14	FY 14-15	FY 13-14 FY 14-15		FY 13-14	FY 14-15	
Lackawanna County	1,364	1,054	1,039	862	78.4%	84.0%	
Luzerne County	857	923	548	603	58.8%	64.2%	
Wayne County	385	412	317	312	83.9%	72.8%	

Source: PA Department of Health, FY2013-2015

Primary Diagnosis on Admission to State Supported Facilities

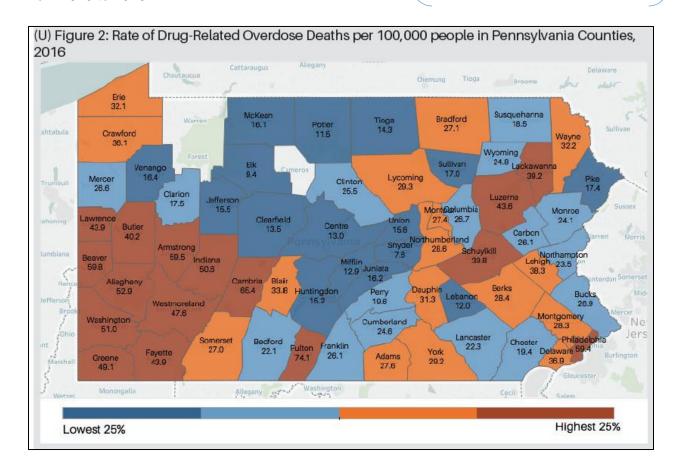
	Drug Abuse		Alcohol Abuse		Other*	
	FY 13-14	FY 14-15	FY 13-14	FY 14-15	FY 13-14	FY 14-15
Lackawanna County	57.9%	60.1%	40.8%	37.9%	1.3%	2.0%
Luzerne County	59.3%	59.9%	31.0%	25.0%	9.7%	15.1%
Wayne County	59.6%	58.7%	35.6%	37.2%	4.7%	4.2%

Source: PA Department of Health, FY2013-2015 *Includes family members receiving counseling

In 2016, the Drug Enforcement Administration, Philadelphia Division released a report analyzing overdose deaths in Pennsylvania. According to the report, 4,642 drug-related overdose deaths were recorded in the state for a rate of 36.5 per 100,000, an increase of 37% from 2015. The

following figure profiles the rate of drug-related overdose deaths by Pennsylvania county. Lackawanna and Luzerne Counties are among the top 25% of Pennsylvania counties with regard to overdose death rates; death rates and counts increased for both counties from 2015 to 2016.

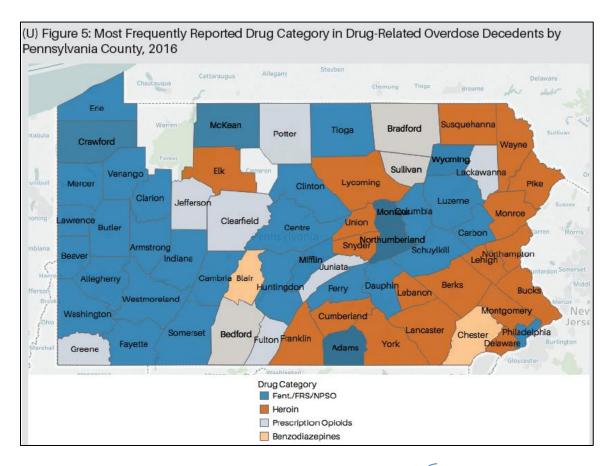
There were 4,642 drug-related overdose deaths in Pennsylvania in 2016; Lackawanna and Luzerne Counties rank among the top 25% of counties based on death rates



County Rankings by Rate of Drug-Related Overdose Deaths per 100,000 (2015 and 2016)

	2015					
	Rank	Death Rate	Death Count	Rank	Death Rate	Death Count
Lackawanna County	14	33.0	70	16	39.2	84
Luzerne County	18	29.8	95	13	43.6	140
Wayne County	8	35.2	19	21	32.2	17

Across Pennsylvania, fentanyl and heroin are the most commonly reported drug categories among drug-related overdose deaths. The most commonly reported drug categories for Northeast Region drug overdose deaths varied by county, as shown in the figure below.



Youth

Youth who consistently feel depressed or sad may be at risk for committing suicide. The following figures depict the percentage of students in grades sixth through twelfth who felt sad or depressed on most days during the past year. Students in all

A higher percentage of students in all reported grades in Luzerne County are consistently sad or depressed

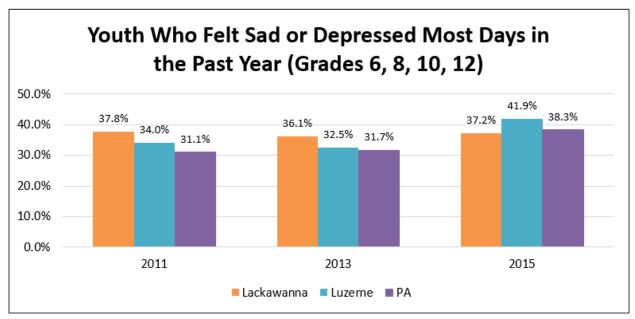
reported grades in Luzerne County are more likely to be sad or depressed when compared to the state. The percentage of sad or depressed students in the county increased 9 points from 2013 to 2015. In Lackawanna County, a higher percentage of tenth and twelfth grade students are sad or depressed when compared to the state.

Youth Who Felt Sad or Depressed on Most Days in the Past Year

	6 th	8 th	10 th	12 th
Lackawanna County	25.8%	34.6%	45.8%	45.6%
Luzerne County	36.6%	38.9%	46.0%	48.4%
Pennsylvania	33.9%	37.7%	40.6%	40.7%

Source: Pennsylvania Commission on Crime and Delinquency, 2015

^{*}Data are not reported for Wayne County.



Source: Pennsylvania Commission on Crime and Delinquency, 2011-2015

Alcohol and marijuana use is highest among students in grades tenth and twelfth. Tenth and

twelfth grade students in Lackawanna County have the highest use rates, but students in both Lackawanna and Luzerne Counties exceed the state benchmarks. A higher percentage of sixth and eighth grade students in Luzerne County also use marijuana when compared to the state.

Alcohol and marijuana use among tenth and twelfth grade students is higher in Lackawanna and Luzerne Counties compared to the state

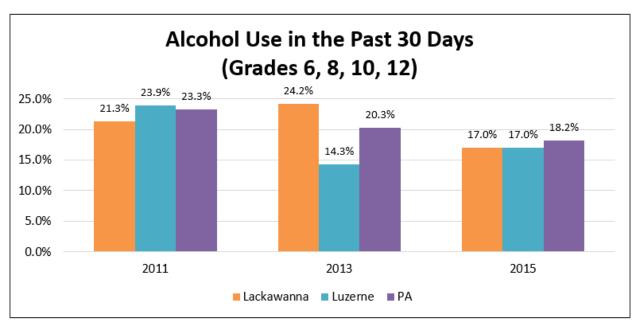
Youth Substance Abuse Measures

	6 th	8 th	10 th	12 th			
l	Used Alcohol in the Past 30 Days						
Lackawanna County	3.6%	6.5%	26.7%	42.1%			
Luzerne County	4.1%	8.6%	22.0%	41.5%			
Pennsylvania	3.3%	9.5%	22.3%	37.6%			
U:	sed Marijuana i	n the Past 30 D	ays				
Lackawanna County	0.2%	3.2%	18.4%	25.6%			
Luzerne County	1.3%	5.4%	13.4%	25.3%			
Pennsylvania	0.6%	3.8%	12.0%	20.8%			

Source: Pennsylvania Commission on Crime and Delinquency, 2015

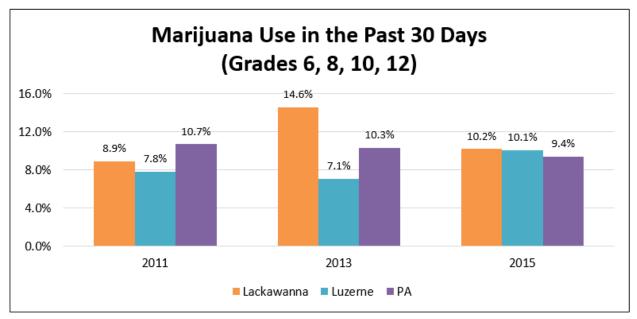
^{*}Data are not reported for Wayne County.

^{*}Data are not reported for Wayne County.



Source: Pennsylvania Commission on Crime and Delinquency, 2011-2015

^{*}Data are not reported for Wayne County.



Source: Pennsylvania Commission on Crime and Delinquency, 2011-2015

Senior Health

Seniors face a number of challenges related to health and well-being as they age. They are more prone to chronic disease, social isolation, and disability. The following sections highlight key health indicators for the region's senior population.

^{*}Data are not reported for Wayne County.

Chronic Conditions

The following table notes the percentage of Medicare Beneficiaries 65 years or over who have been diagnosed with a chronic condition. Cells highlighted in red represent percentages that are above state and national benchmarks by more than 2 points.

Medicare Beneficiaries (65+) in Luzerne County have a higher prevalence of chronic disease and are more likely to have 4 or more chronic conditions

Luzerne County Medicare Beneficiaries have the highest rates of chronic disease. Lackawanna County Beneficiaries also have higher rates of arthritis and hypertension.

Chronic Conditions among Medicare Beneficiaries 65 Years or Over (Red = Higher than the State and the Nation by More than 2 Points)

	Lackawanna County	Luzerne County	Wayne County	Pennsylvania	United States
Alzheimer's Disease	11.4%	10.9%	7.4%	11.8%	11.3%
Arthritis	38.7%	42.1%	33.8%	33.5%	31.3%
Asthma	8.3%	8.0%	7.8%	7.8%	7.6%
Cancer	9.9%	9.5%	9.8%	9.8%	8.9%
COPD	12.4%	13.5%	12.2%	11.0%	11.2%
Depression	15.2%	12.6%	10.8%	14.9%	14.1%
Diabetes	26.9%	27.4%	27.1%	26.5%	26.8%
Heart Failure	16.1%	15.9%	14.5%	14.7%	14.3%
High Cholesterol	53.0%	56.6%	52.3%	53.0%	47.8%
Hypertension	65.1%	66.4%	60.0%	61.0%	58.1%
Ischemic Heart Disease	32.2%	39.8%	31.5%	30.2%	28.6%
Stroke	5.0%	5.1%	4.5%	4.9%	4.2%

Source: Centers for Medicare & Medicaid Services, 2015

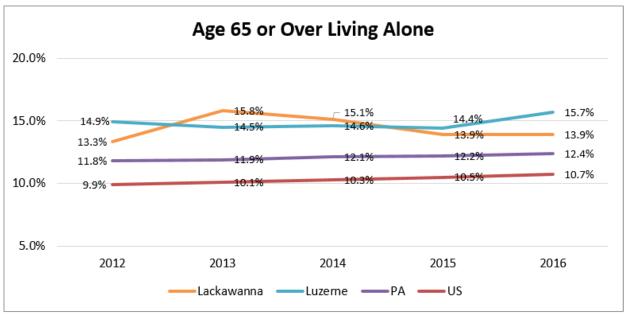
According to the CDC, "Among Medicare fee-for-service beneficiaries, people with multiple chronic conditions account for 93% of total Medicare spending." The table below notes the percentage of Northeast Region Medicare Beneficiaries by number of chronic conditions. Luzerne County exceeds the state and the nation for the percentage of Beneficiaries with four or more conditions.

Number of Chronic Conditions among Medicare Beneficiaries 65 Years or Over (Red = Higher than the State and the Nation by More than 2 Points)

(1104 - 11)	(Ned - Inglier than the otate and the Nation by more than 21 onto,							
	Lackawanna County	Luzerne County	Wayne County	Pennsylvania	United States			
0 to 1 condition	24.6%	23.9%	28.6%	28.5%	32.3%			
2 to 3 conditions	32.6%	29.8%	33.8%	31.1%	30.0%			
4 to 5 conditions	23.9%	25.3%	22.5%	22.9%	21.6%			
6 or more conditions	18.8%	20.9%	15.2%	17.6%	16.2%			

Source: Centers for Medicare & Medicaid Services, 2015

As seniors age, they are at risk for isolation due physical limitations and decreasing social circles. One indicator of isolation is the percentage of seniors age 65 or over who live alone. All Northeast Region counties have a higher percentage of seniors who live alone when compared to the state and the nation. The percentage of seniors who live alone increased in Luzerne and Wayne Counties.



Source: American Community Survey, 2012-2016

Regular screenings are essential for the early detection and management of chronic conditions. The following table analyzes diabetes and mammogram screenings among Medicare enrollees. Medicare enrollees in Lackawanna and Luzerne Counties have similar screening rates as the nation; Wayne County has higher screening rates than the state and the nation.

Chronic Disease Screenings among Medicare Enrollees

	Annual hA1c Test from a Provider (65-75 Years)	Mammogram in Past Two Years (67-69 Years)
Lackawanna County	84.1%	62.2%
Luzerne County	85.0%	61.6%
Wayne County	87.0%	66.3%
Pennsylvania	86.3%	64.8%
United States	85.0%	63.0%

Source: Dartmouth Atlas of Health Care, 2014

Assistance with Activities of Daily Living (ADLs)

Chronic conditions and related disabilities can lead to limitations in activities of daily living. Approximately 5% of older adults in Pennsylvania have difficulty dressing or bathing, 25% have difficulty walking or climbing steps, and 5% have difficulty with vision. The percentage of older adults having trouble dressing or bathing and walking or climbing in Reporting Region 1, including Lackawanna and Luzerne counties, is slightly higher compared to the state.

Adults 65 Years or Over Requiring Assistance with ADLs

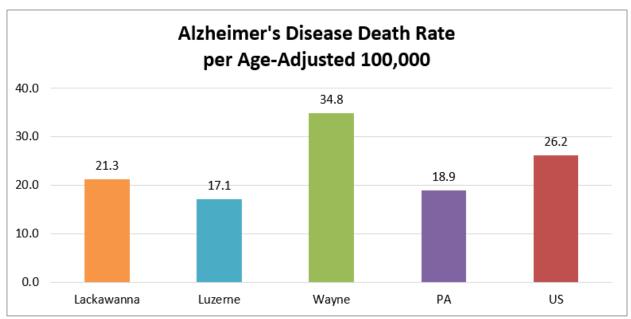
	Have Difficulty Dressing or Bathing	Have Serious Difficulty Walking or Climbing Stairs	Blind or Serious Difficulty Seeing, Even with Glasses
Region 1: Lackawanna/ Luzerne/Wyoming	8%	28%	4%
Region 2: Pike/Monroe/ Susquehanna/Wayne	5%	24%	6%
Pennsylvania	5%	25%	5%

Source: PA Department of Health BRFSS, 2014-2016

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."

Wayne County has the lowest percentage of Medicare Beneficiaries with Alzheimer's disease, but the county death rate due to the disease exceeds the state and the nation. Lackawanna and Luzerne County death rates are similar to the state.



Source: CDC Wonder, 2013-2015

Immunizations

Pneumococcal disease continues to be a leading cause of serious illness among older adults. According to the CDC, approximately 13,500 cases of invasive pneumococcal disease occurred among adults age 65 years or over in 2013. Approximately 20%–25% of the cases are potentially preventable with proper vaccination. Older adults in the Northeast Region are less likely to receive a pnuemonia vaccine when compared to the state.

Adults 65 Years or Over Who Received a Pneumonia Vaccination

	Ever Received a Pneumonia Vaccination
Region 1: Lackawanna/	670/
Luzerne/Wyoming	67%
Region 2: Pike/Monroe/	C40/
Susquehanna/Wayne	64%
Pennsylvania	72%

Source: PA Department of Health BRFSS, 2014-2016

Maternal and Infant Health

Total Births

The overall birth rate is highest in Lackawanna and Luzerne Counties. Births in all counties were primarily to White mothers. Luzerne County had the most births to non-White and Hispanic/Latino mothers.

2015 Births by Race and Ethnicity

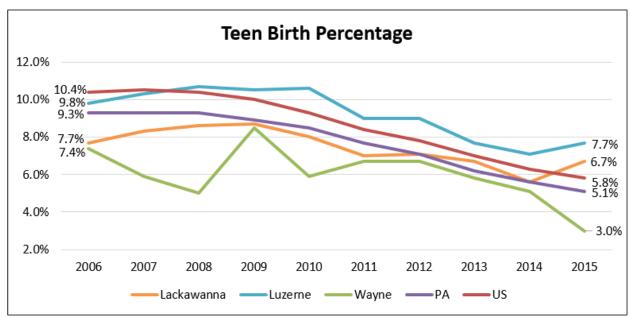
	Total Births	Birth Rate per 1,000	White Birth Count	Black/African American Birth Count	Hispanic/ Latino Birth Count
Lackawanna County	2,201	20.1	1,764	92	276
Luzerne County	3,168	19.7	2,303	209	666
Wayne County	403	16.8	376	5	20

Source: PA Department of Health, 2015

Teen Births

The percentage of births to teenagers is declining in all counties. However, both Lackawanna and Luzerne Counties saw an increase in teen births from 2014 to 2015, and current percentages exceed state and national benchmarks. Wayne County had the greatest decline in teen births over the past decade. The current teen birth percentage is the lowest in the region and lower than state and national percentages.

The percentage of births to teenage mothers is declining in all counties; Wayne County has a lower percentage than the state and the nation



Source: CDC National Vital Statistics System, 2006-2015 & PA Department of Health, 2006-2015

Prenatal care should begin during the first trimester to ensure a healthy pregnancy and birth. The percentage of mothers in the Northeast Region who receive first trimester

Lackawanna and Luzerne
Counties do not meet HP 2020
goals for prenatal care, low
birth weight, smoking during
pregnancy, breastfeeding, or
preterm birth

has been variable over the past decade. Wayne County is the only county to meet the Healthy People 2020 goal. Mothers in Luzerne County are the least likely to receive first trimester prenatal care.

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. The low birth weight percentage across the state and the nation has been consistent over the past decade at approximately 8%. The percentages in Northeast Region counties have been variable. All counties nearly meet the Healthy People 2020 goal. Wayne County has historically met the goal, but the county experienced a rate increase from 2014 to 2015.

Wayne County meets the HP 2020 goal for prenatal care and has the highest percentage of non-smoking and breastfeeding mothers Mothers in Northeast Region counties are more likely to smoke during pregnancy and give birth prematurely and less likely to breastfeed when compared to the state. The counties do not meet Healthy People 2020 goals for the measures. Rates for smoking and breastfeeding improved across the region from 2006 to 2015. Preterm birth rates have been variable over the past decade. Current rates are similar to rates in 2006.

Across the Northeast Region, Black/African American and Hispanic/Latina women are more likely than White women to have adverse maternal and child health outcomes. They do not

meet the Healthy People 2020 goal for first trimester care by as much as 22 points. Black/African American women have higher rates of low birth weight and preterm infants and lower rates of breastfeeding. Hispanic/Latina women in Luzerne County are also more likely to deliver preterm infants.

Black/African American and Hispanic/Latina women have worse maternal and child health outcomes than White women

White mothers are more likely to smoke during pregnancy. In Luzerne County, 23% of White mothers smoke during pregnancy. White mothers in Luzerne County are also less likely to breastfeed when compared to Black/African American and Hispanic/Latina mothers.

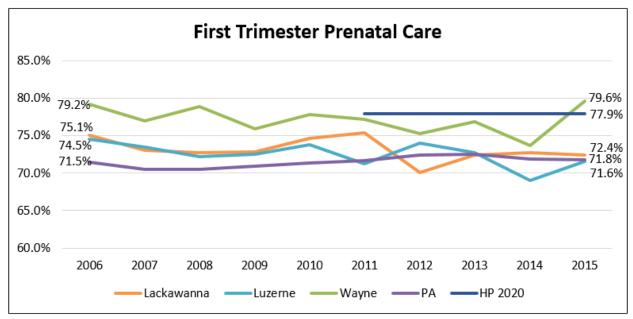
Maternal and Child Health Indicators by Race and Ethnicity

	Lackawanna County	Luzerne County	Wayne County	Healthy People 2020 Goal	
		h First Trimester (Care		
Total Population	72.4%	71.6%	79.6%		
White	75.4%	75.2%	NA	77.9%	
Black/African American	60.4%	55.3%	NA	11.970	
Hispanic/Latina	60.9%	63.9%	NA		
	Low Bir	rth Weight Infants			
Total Population	8.5%	8.1%	8.9%		
White	7.8%	6.7%	NA	7.8%	
Black/African American	10.9%	13.0%	NA	1.070	
Hispanic/Latina	7.2%	9.0%	NA		
	Non-Smoking N	Nothers during Pre	egnancy		
Total Population	80.4%	80.6%	81.6%		
White	78.5%	76.6%	NA	98.6%	
Black/African American	80.4%	84.4%	NA	90.0%	
Hispanic/Latina	91.7%	92.6%	NA		
	Ві	reastfeeding			
Total Population	67.9%	67.0%	74.2%		
White	67.1%	64.5%	NA	81.9%	
Black/African American	60.4%	65.7%	NA	01.970	
Hispanic/Latina	74.4%	78.0%	NA		
Preterm Births					
Total Population	10.8%	10.3%	12.2%		
White	10.3%	9.4%	NA	9.4%*	
Black/African American	NA	10.1%	NA	9.470	
Hispanic/Latina	9.1%	12.5%	NA		

Source: PA Department of Health, 2015 & Healthy People 2020

^{*}The HP 2020 goal for preterm birth was revised in 2017 from 11.4% to 9.4%.

^{**}Indicators by race and ethnicity are only reported for counties with more than 20 births among minority populations.



The following municipalities within each county do not meet the Healthy People 2020 goal for mothers receiving first trimester prenatal care (77.9%) by more than 3 points. Municipalities are presented in ascending order by percentage of mothers receiving first trimester prenatal care.

Municipalities That Do Not Meet the Healthy People 2020 Goal (77.9%) for Mothers Receiving First Trimester Prenatal Care by More Than 3 Points

Lackawanna Co	ounty	Luzerne Cou	Luzerne County Wayı		у
Municipality	%	Municipality	%	Municipality	%
Clifton Twp.	59.3%	Wilkes-Barre City	59.1%	Lehigh Twp.	67.1%
Scranton City	62.0%	Shickshinny Boro.	59.4%	Cherry Ridge Twp.	67.7%
Carbondale Twp.	65.4%	Hazleton City	60.5%	Mount Pleasant Twp.	67.9%
Carbondale City	65.5%	Edwardsville Boro.	61.2%	Oregon Twp.	69.0%
Madison Twp.	66.3%	Plymouth Boro.	64.7%	Palmyra Twp.	70.0%
		West Hazleton			
La Plume Twp.	66.7%	Boro.	65.0%	Hawley Boro.	70.1%
Ransom Twp.	66.7%	Harveys Lake Boro.	65.1%	Salem Twp.	71.0%
Taylor Boro.	67.9%	Pringle Boro.	65.2%	Lake Twp.	71.4%
Dalton Boro.	70.2%	Freeland Boro.	65.3%	Dyberry Twp.	72.7%
Old Forge Boro.	71.8%	Newport Twp.	68.0%	Manchester Twp.	73.0%
Fell Twp.	72.3%	Pittston City	69.8%	Dreher Twp.	74.1%
Newton Twp.	72.4%	Wilkes-Barre Twp.	69.9%	Paupack Twp.	74.7%
Moscow Boro.	74.2%	Black Creek Twp.	70.1%		
Covington Twp.	74.7%	Larksville Boro.	70.4%		
		Hanover Twp.	70.7%		
		Nanticoke City	70.8%		

Source: PA Department of Health, 2011-2015

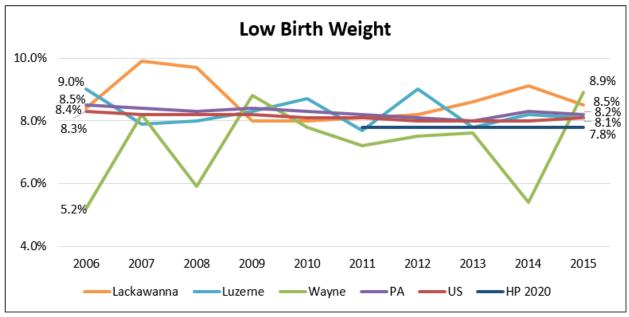
^{*}Only municipalities with more than 20 reported births are included.

Municipalities That Do Not Meet the Healthy People 2020 Goal (77.9%) for Mothers Receiving First Trimester Prenatal Care by More Than 3 Points (cont'd)

Luzerne County						
Municipality	%					
Lake Twp.	70.9%					
Nescopeck Boro.	70.9%					
Hazle Twp.	71.6%					
Union Twp.	71.6%					
Kingston Boro.	71.7%					
Jenkins Twp.	71.9%					
Fairmount Twp.	72.1%					
Salem Twp.	72.3%					
Hunlock Twp.	73.3%					
Ashley Boro.	73.5%					
Luzerne Boro.	73.7%					
Plains Twp.	74.2%					
Huntington Twp.	74.4%					
Sugarloaf Twp.	74.6%					
Dorrance Twp.	74.7%					
Wyoming Boro.	74.8%					

Source: PA Department of Health, 2011-2015

^{*}Only municipalities with more than 20 reported births are included.



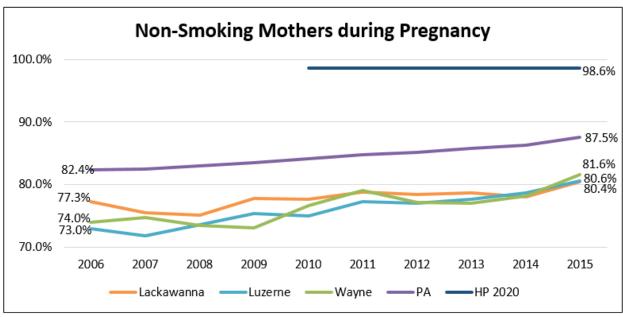
The following municipalities within each county do not meet the Healthy People 2020 goal for low birth weight babies (7.8%) by more than 3 points. Municipalities are presented in descending order by percentage of low birth weight babies.

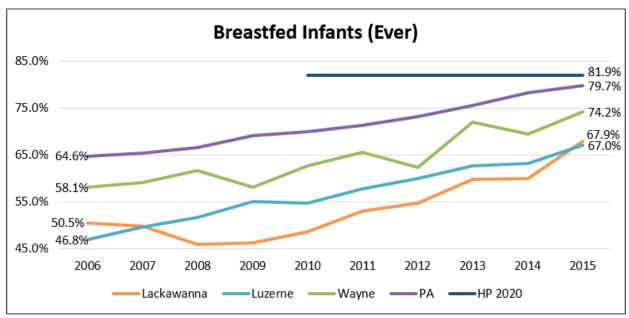
Municipalities that Do Not Meet the Healthy People 2020 Goal (7.8%) for Low Birth Weight Babies by More Than 3 Points

Lackawanna Co	na County Luzerne County Wayne Cou		Wayne Cour	nty	
Municipality	%	Municipality	%	Municipality	%
Madison Twp.	14.5%	Shickshinny Boro.	15.6%	Clinton Twp.	14.1%
Vandling Boro.	14.3%	Black Creek Twp.	14.9%	Cherry Ridge Twp.	12.9%
Carbondale City	12.5%	Larksville Boro.	14.2%	Lehigh Twp.	12.7%
Carbondale Twp.	11.5%	Plymouth Twp.	13.8%	Preston Twp.	12.1%
Archbald Boro.	11.2%	Conyngham Boro.	12.2%	Sterling Twp.	11.1%
Dickson City Boro.	10.9%	Lake Twp.	10.9%	Waymart Boro.	10.7%
Taylor Boro.	10.1%				

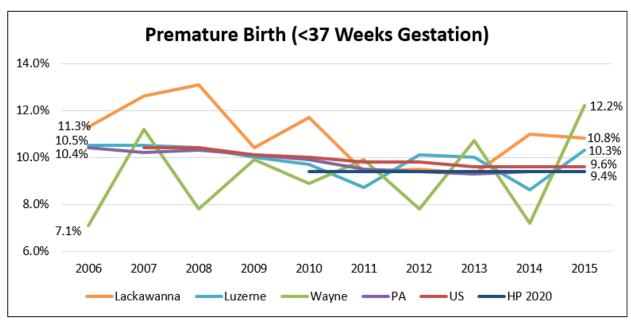
Source: PA Department of Health, 2011-2015

^{*}Only municipalities with more than 20 reported births are included.



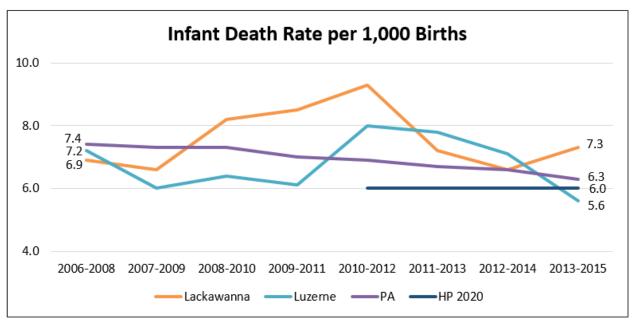


Source: PA Department of Health, 2006-2015 & Healthy People 2020



Maternal and child health indicators and disparities impact infant death rates. Death rates for Lackawanna and Luzerne Counties have been variable over the past decade. Luzerne County meets the Healthy People 2020 goal for infant death, but Lackawanna County exceeds both the goal and the state benchmark. The Wayne County death rate is not reported due to low death counts. Between 2006 and 2015, the county had a total of 42 infant deaths.

Death rates by race and ethnicity are reported for Luzerne County. The death rate per 1,000 births is 22.1 among Blacks/African Americans compared to 3.5 among Whites and 9.2 among Hispanics/Latinas. The Black/African American death rate accounts for 13 deaths between 2013 and 2015.



Source: PA Department of Health, 2006-2015 & Healthy People 2020 *Data for Wayne County are not reported due to low death counts.

Key Informant Study Summary

The Key Informant Survey was conducted with 36 community leaders representing diverse populations across the Northeast Region. The most commonly served populations by key informants are shown in the table below.

Populations Served by Key Informants

	Percent of Informants*	Number of Informants	
Not Applicable (Serve all populations)	50.0%	18	
Seniors/Elderly	38.9%	14	
Families	36.1%	13	
Uninsured/Underinsured	33.3%	12	
Children/Youth	30.6%	11	
Low income/Poor	30.6%	11	
Men	27.8%	10	
Women	27.8%	10	

^{*}Key informants were able to select multiple counties. Percentages may not add up to 100%.

Fifty percent of key informants "disagree" that the community is healthy. When asked what health conditions and factors contribute to poor health among residents, informants identified the following top needs:

Top Health Conditions

- > Substance abuse
- > Overweight/Obesity
- > Cancers

Top Contributing Factors

- > Ability to afford health care
- > Drug/Alcohol use
- > Health habits

Informants acknowledged the impact of social determinants, particularly affordable care and poverty, on the top contributing factors to health conditions. "High copays and deductibles are preventing patients from seeking care in a timely manner." "Poverty/low-income makes it hard to afford or access comforts for daily stress besides unhealthy foods, tobacco use, and alcohol use." "Patients comment on not being able to afford meat and eating pasta instead."

Behavioral health providers were identified as the most needed resource in the community; 81% of key informants disagree that there is a sufficient number. A lack of providers, as well as stigma and social isolation, contribute to mental health and substance abuse conditions among residents. "Social isolation and lack of social support among the young and seniors is driving poor mental health, violence, substance abuse." "With the area being a small, close community, people feel like they can't be anonymous. People will talk if they do seek out drug, alcohol, or mental health services."

Approximately 17% to 22% of informants disagree that residents have a regular primary care provider and can access a medical specialist when they need care. The top barriers to accessing health care services are a lack of bilingual providers, transportation for appointments,

and providers that accept Medicaid/Medical Assistance. Informants also noted that residents may not seek regular care because they "feel healthy". Potentially related to residents not feeling like they need to go the doctor is lack of awareness or emphasis of preventive health measures.

Social determinants of health impact the ability of individuals to access health care and maintain healthy lifestyles. The majority of key informants rated social determinants within the community as "average." Health and health care, including access to care, health literacy, etc., was rated the highest by informants (2.8 out of 5). Economic stability, including poverty, employment, etc., and neighborhood/built environment, including access to healthy food, quality of housing, etc., were rated the lowest by informants (2.6 out of 5).

"The biggest challenges to improving the area are the relatively low incomes and the many small municipalities that can't afford public services or large-scale improvements. Because of the small scale of municipalities there is limited capacity for healthy public policies or public health education (fluoridation for example, or bike safety programs at local parks) - only one municipality has a health department."

Key informants were asked to share what resources are missing in the community that would help residents optimize their health. The top identified missing resources were transportation, mental health services, and health and wellness education and programs. "[A] lack of public transportation still brings the area down from good to average as people struggle to get to grocery stores/markets or even doctors since everything is spread out." "Individuals are not aware of the care they should be receiving, or have little access to receiving it for an affordable price. There is also a huge gap in behavioral health services for all ages."

When asked how local and regional health care providers can better engage community members to achieve optimal health outcomes, informants made recommendations focused on advocacy; prevention; improved health care access; health literacy; and community partnerships to address needs. The following are recommendations by informants:

- > Advocate to legislators for better health insurance policies
- > Emphasize prevention through health promotion education and outreach both in the clinical and community setting
- > Improve access to behavioral health providers
- > Improve transportation options for medical appointments
- > Promote health literacy among all age groups
- > Promote multi-sector efforts to improve community health through partnership, funding, and joint initiatives
- > Publish clinic locations and hours to improve access to appointments

Northeast Key Informant Study Summary

Background

A Key Informant Survey was conducted with community representatives to solicit information about health needs and disparities among residents. Key informants were asked a series of questions about their perceptions of health needs in the community, health drivers, barriers to care, and recommendations for community health improvement.

The survey was conducted with 113 key informants across the 19 county service area, 36 informants serve the Northeast Region. Half of the informants serve all population groups. The most commonly served special population groups are seniors/elderly, families, and uninsured/underinsured. A list of community organizations represented by key informants, and their respective role/title, is included in Appendix B.

Northeast Region Counties Served by Key Informants

	Percent of Informants*	Number of Informants
Luzerne County	88.9%	32
Lackawanna County	83.3%	30
Wayne County	52.8%	19

^{*}Key informants were able to select multiple counties. Percentages may not add up to 100%.

Populations Served by Key Informants

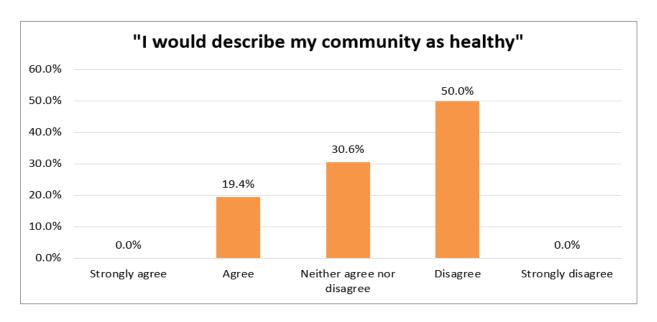
	Percent of Informants*	Number of Informants		
Not Applicable (Serve all populations)	50.0%	18		
Seniors/Elderly	38.9%	14		
Families	36.1%	13		
Uninsured/Underinsured	33.3%	12		
Children/Youth	30.6%	11		
Low income/Poor	30.6%	11		
Men	27.8%	10		
Women	27.8%	10		
Disabled	25.0%	9		
Hispanic/Latino	13.9%	5		
Black/African American	11.1%	4		
Homeless	11.1%	4		
LGBTQ+ community	11.1%	4		
Immigrant/Refugee	8.3%	3		
American Indian/Alaska Native	2.8%	1		
Asian/Pacific Islander	2.8%	1		
Other**	2.8%	1		

^{*}Key informants were able to select multiple counties. Percentages may not add up to 100%.

^{**}Other response: Persons with mental illness

Community Health Needs

Fifty percent of informants "disagree" that their community is healthy, less than 20% of informants "agree" that their community is healthy. When asked what health conditions are affecting residents, informants stated that substance abuse is the top concern for the region, followed by overweight/obesity and cancer. Mental health conditions are also a concern for the region; 18% of informants stated they are among the top three conditions affecting residents.



Health Conditions Affecting Residents

Ranking	Condition	Informants Selecting as the Top (#1)	Informants Selecting as a Top 3 Health Concern	
		Health Concern	Percent	Count
1	Substance abuse	25.0%	14.8%	16
2	Overweight/Obesity	19.4%	18.5%	20
3	Cancers	13.9%	11.1%	12
4	Diabetes	11.1%	8.3%	9
5	Mental health conditions	8.3%	17.6%	19
6	Disability	5.6%	1.9%	2
7	Other*	5.6%	2.8%	3
8	Alzheimer's disease/Dementia	2.8%	3.7%	4
9	Heart disease and stroke	2.8%	8.3%	9
10	Infectious disease	2.8%	0.9%	1
11	Respiratory disease	2.8%	1.9%	2
12	Tobacco use	0.0%	3.7%	4
13	Autism	0.0%	1.9%	2
14	Dental problems	0.0%	1.9%	2
15	Domestic violence	0.0%	1.9%	2
16	Motor vehicle crash injuries	0.0%	0.9%	1

^{*}Other responses: Chronic conditions, disabilities that interfere with activities of daily living, physical rehabilitation

Key informants identified the ability to afford health care as the top contributing factor to health conditions.

"High copays and deductibles are preventing patients from seeking care in a timely manner."

Other top contributing factors, including drug/alcohol abuse and health habits, are also impacted by affordable services.

"Poverty/low-income makes it hard to afford or access comforts for daily stress besides unhealthy foods, tobacco use, and alcohol use."

"Patients comment on not being able to afford meat and eating pasta instead."

Contributing factors to mental health and substance abuse conditions are a lack of providers, stigma, and lack of social support. Specific comments from respondents highlight the issues:

"[A] lack of mental health providers is also a contributing factor in the community for mental health conditions. With the area being a small, close community, people feel like they can't be anonymous."

"Social isolation and lack of social support among the young and seniors is driving poor mental health, violence, substance abuse."

Informants highlighted the interrelatedness of contributing factors and the impact of social determinants of health.

"So many [issues] are interrelated. Lack of transportation, educational training beyond high school for a better paying job, and poor parenting skills are paramount problems."

"It has become clear as the number of uninsured have declined, new challenges have arisen. Working on transportation, it has become evident, there is much work to be done in educating folks as to what is available within their area..."

"It is clear that [residents] do not know what their insurance covers and how to navigate the healthcare systems."

Top Contributing Factors to Conditions Affecting Residents

	<u> </u>			
Ranking	Contributing Factor	Informants Selecting as the Top (#1)		Selecting Contributor
J	Ğ	Contributor	Percent	Count
1	Ability to afford health care	19.4%	15.7%	17
2	Drug/Alcohol use	13.9%	7.4%	8
3	Health habits	13.9%	13.9%	15
4	Health literacy	11.1%	8.3%	9
5	Environmental quality	8.3%	4.6%	5
6	Poverty	8.3%	8.3%	9
7	Other*	8.3%	5.6%	6
8	Availability of healthy food options	5.6%	1.9%	2
9	Health insurance	5.6%	4.6%	5
10	Education attainment	2.8%	2.8%	3
11	Office hours for health providers	2.8%	0.9%	1
12	Social support	0.0%	9.3%	10
13	Lack of preventive health care	0.0%	4.6%	5
14	Transportation	0.0%	3.7%	4
15	Availability of health and wellness programs	0.0%	2.8%	3
16	Number of health care providers available in the community	0.0%	2.8%	3
17	Stress	0.0%	2.8%	3

^{*}Other responses: Opportunities for inclusion for the disabled, marketing of unhealthy foods, lack of exercise, the need for education and resource referrals among pre-diabetics to prevent diabetes, the need for more domestic violence resources for abusers.

Health Care Access

Key informants were asked to rate the availability of health services within the region. The following table depicts their responses on a scale of (1) "strongly disagree" to (5) "strongly agree."

Access to a regular primary care provider, medical specialists, and vision care received the highest overall mean scores, indicating greater availability within the community. However, the services are still considered limited in the region. Approximately 17% to 25% of informants "disagree" that they are available to residents.

Informants were least likely to agree that there is a sufficient number of mental health/behavioral health and bilingual providers. Transportation to medical appointments and the number of providers accepting Medical/Medical Assistance are also top concerns for the region.

Access to Health Care Services

	Strongly Disagree	Disagree	Neither agree nor disagree	Agree	Strongly Agree	Mean Score
Residents have a regular primary care provider/doctor/practitioner that they go to for health care.	0.0%	16.7%	30.6%	47.2%	5.6%	3.42
Residents can access a medical specialist (i.e. Cancer, Cardiovascular, Neuroscience, etc.) when they need care.	0.0%	22.2%	27.8%	47.2%	2.8%	3.31
Residents can receive vision care when they need it.	2.8%	22.2%	25.0%	47.2%	2.8%	3.25
Residents can receive dental care when they need it.	2.8%	27.8%	22.2%	44.4%	2.8%	3.17
Providers in the community are culturally sensitive to race, ethnicity, cultural preferences, etc. of patients.	8.6%	22.9%	48.6%	17.1%	2.9%	2.83
There are a sufficient number of providers that accept Medicaid/Medical Assistance in this community.	19.4%	25.0%	33.3%	22.2%	0.0%	2.58
Residents have available transportation (public, personal, or other service) for medical appointments and other services.	2.8%	52.8%	33.3%	11.1%	0.0%	2.53
There are a sufficient number of bilingual providers in this community.	19.4%	58.3%	16.7%	5.6%	0.0%	2.08
There are a sufficient number of mental/behavioral health providers in the community.	33.3%	47.2%	11.1%	8.3%	0.0%	1.94

Key informants were then asked to identify the primary reasons that individuals who have health insurance do not receive regular care to maintain their health. Approximately one-third of informants stated that the top reason is that individuals feel healthy and don't need to go to the doctor. Potentially related to residents not feeling like they need to go the doctor is respondents' acknowledgement that individuals lack an awareness or emphasis of preventive health measures. The inability to afford care is the third most common reason for not seeking services.

Primary Reason Individuals with Insurance Do Not Receive Regular Care

Ranking	Reason	Informants Selecting as the Top (#1)	Informants Selecting as a Top 3 Reason	
		Reason	Percent	Count
1	Feel healthy ("Don't need to go to the doctor")	34.3%	26.9%	28
2	Awareness/Emphasis of preventive health measures	25.7%	17.3%	18
3	Unable to afford care (copays, deductibles, prescriptions, etc.)	22.9%	21.2%	22
4	Limited office hours of providers (no weeknight/weekend office hours)	8.6%	8.7%	9
5	Fear of diagnosis, treatment	2.9%	11.5%	12
6	Lack of transportation to access health care services	2.9%	2.9%	3
7	Providers not accepting insurance/new patients	2.9%	5.8%	6
8	Lack of providers available in the community	0.0%	2.9%	3
9	Other	0.0%	2.9%	3

"Other" reasons insured individuals do not receive medical care

- "Lack of primary care physicians and long waiting times to get into specialists."
- "Many providers do not participate in Medicaid or ration the number of Medicaid patients
 accepted; The State's administration of Medicaid does not facilitate enrollment or provider
 participation. Private insurers "game" the system in their handling of claims, lack of
 transparency, and superficial and self-serving approach to care coordination." "Not sure what
 provider to go to"
- "Time to make and get to an appointment conflicts with other activities, fear of potential future costs, distrust of doctors/health establishment"

Social determinants of health impact the ability of individuals to access health care and maintain healthy lifestyles. Key informants were asked to rate social determinants of health in the community, including economic stability, education, health and health care, neighborhood and built environment, and social and community context, on a scale of (1) "very poor" to (5) "excellent."

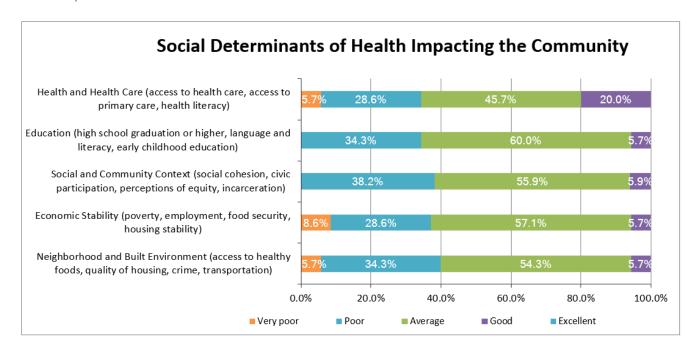
The majority of key informants rated social determinants as "average." Health and health care was rated the highest with an average rating of 2.80. However, 34% of informants stated it is "poor" or "very poor." Informants cited concerns related to health literacy, health care navigation, affordability, and lack of public transportation.

Economic stability and neighborhood and built environment were rated the lowest by key informants with an average rating of 2.60. Informants cited concerns related to low incomes, affordability of basic needs, and transportation.

"The biggest challenges to improving the area are the relatively low incomes and the many small municipalities that can't afford public services or large-scale improvements. Because of the small scale of municipalities there is limited capacity for healthy public policies or public health education (fluoridation for example, or bike safety programs at local parks) - only one municipality has a health department."

The Northeast Region covers a large geographic area spanning urban and rural communities. Lack of public transportation between communities impacts residents' ability to receive services.

"[A] lack of public transportation still brings the area down from good to average as people struggle to get to grocery stores/markets or even doctors since everything is spread out."



Ranking	Social Determinant of Health	Mean Score
1	Health and Health Care	2.80
2	Education	2.71
3	Social and Community Context	2.68
4	Economic Stability	2.60
4	Neighborhood and Built Environment	2.60

- "People in the community have better access to healthcare and are used to seeking it out since Geisinger has been here so long, but many of them suffer from poor health literacy."
- "For many folks, access to healthcare may not seem like an issue, but when I work within the trenches and hear on a regular basis that folks can't get appointments with their PCPs"
- "The local area still maintains a stigma about folks that are of a different culture and color."
- "There is a very significant lack of understanding and training as it relates to dementia in the local provider and healthcare community. While our constituents may have access to care, they have limited access to quality care capable of responding to their needs."

Community Resources

Key informants were asked to share what resources are missing in the community that would help residents optimize their health. Two-thirds of informants identified the need for transportation options. Transportation was identified as being "particularly difficult in rural areas" and challenging for "the physically disabled." Mass transportation, taxis, and Uber services are limited. More than half of the informants identified the need for mental health services and health and wellness education and programs.

"Individuals are not aware of the care they should be receiving, or have little access to receiving it for an affordable price. There is also a huge gap in behavioral health services for all ages."

Missing Resources within the Community to Optimize Health

Ranking	Resource	Percent of Informants	Number of Informants
1	Transportation options	67.6%	23
2	Mental health services	64.7%	22
3	Health and wellness education and programs	52.9%	18
4	Substance abuse services	47.1%	16
5	Community Clinics/Federally Qualified Health Centers (FQHC)	38.2%	13
6	Healthy food options	38.2%	13
7	Multi-cultural or bilingual health care providers	35.3%	12
8	Outlets for physical activity (parks, rec centers, gyms, walking trails, etc.)	23.5%	8
9	Child care providers	20.6%	7
10	Dental care	20.6%	7
11	Specialty care services	20.6%	7
12	Home health care services	17.6%	6
13	Primary care services	11.8%	4
14	Other	11.8%	4
15	Housing	8.8%	3
16	Vision care	8.8%	3

- "We need more and better ways to reach all parents to improve family communication skills and support, as well as overall nutrition, health and wellbeing education. We also need more support for families dealing with disabled and ill seniors or other family members, especially if they don't qualify for Medicare or Medicaid."
- "Volunteers in Medicine provides medical, dental, behavioral health, lab testing, radiologic testing, and specialty services at no charge to the low income population. We are filling the gap as a safety net provider to those that would otherwise have no access to affordable care. We are in need of bilingual volunteers and there is always a need for additional specialty care. For example, colonoscopies and neurology."
- "The number one thing missing in the community is sustained community capacity to prioritize, plan and accomplish multi-sector projects. Many communities with local health departments are able to use staff to engage municipal departments- parks and rec, transportation, code enforcement- and partners like the YMCA and school districts and transit- to create long lasting healthy community change, like bike lanes, community gardens, improved street lighting, etc."
- "I have a list of over 50 folks who have contacted me to tell me that they cannot access their Primary Care Provider and getting into a specialty appointment is taking months. Local PCP offices are sending many folks to urgent care since their offices do not have enough medical staff."
- "There are a lot of healthcare providers in the area but the long wait lists for visits, especially to specialists, can deter people from seeking care."
- "Home Health and In-Home Personal Care programs should be funded to take on a wider role in ongoing care for the chronically ill, individuals with disabilities."
- "Dental and Vision [services] are considered by some to be optional when it is integral in taking care of your health. Coverage for dental and vision[services] should be included in all health care plans to include Medicare and Medicaid."

Key informants were asked for open-ended feedback regarding how local and regional health care providers can better engage community members to achieve optimal health outcomes. Informants made the following recommendations:

- > Advocate to legislators for better health insurance policies
- > Emphasize prevention through health promotion education and outreach, and integration of health services into local stores, schools, churches, community centers
- > Improve access to behavioral health providers
- > Improve transportation options for medical appointments
- > Promote health literacy among all age groups
- > Promote multi-sector efforts to improve community health through partnership, funding, and joint initiatives
- > Publish clinic locations and hours to improve access to appointments

To determine existing resources within the community and opportunities for collaboration, key informants were asked to share information about health and wellness programs or initiatives that their organization offers now or plans to provide in the future.

- Advantage Home Health Services: Advantage designed a specialized chronic care/caregiver model of care Striving Together Achieving Results (STAR) as well as health and wellness programs for independent living and assisted living facilities to improve caregiver training and patient engagement.
- Alzheimer's Association: Each chapter offers five core services to support individuals with Alzheimer's and their families: information and referral; care consultation; support groups; safety services; and education. Some chapters offer special programs for people living with early-onset Alzheimer's, rural and/or multicultural outreach, care coordination services, and training programs for families and professionals.
- > <u>Jewish Family Service of Northeastern Pennsylvania</u>: Offer self-improvement and personal growth workshops to provide tools, strategies and experiences for healthy living
- > LiveWell Luzerne/Wilkes-Barre Family YMCA:
 - Chronic disease prevention programs: Diabetes, pulmonary and cardiac
 - Food n' Fun at the Park A partnership with the City of Wilkes-Barre to provide daily free meals and health promotion programming
 - Imagination Playground at local events
 - Physical Activity: Walk Wednesdays; Cycle Sundays; LifeStrong at the Y;
 Enhance Fitness; walking club (planned); onsite fitness classes and programs
 - Senior-Specific: Silver Sneakers, programs funded by the Area Agency for Aging
 - Superparks Fight the StressMonster! (superparks.org)
- > Penn State Extension: Offer multiple programs for youth and families
- > <u>Pennsylvania Psychiatric Leadership Council</u>: Developing a plan to recruit and retain psychiatrists in rural PA

Northeast Region Partner Forums Summary

As part of the 2018 CHNA, six Partner Forums were conducted across the 19 county service area, one each within the South Central and Western Regions and two within the Central and Northeast Regions. The objective of the forums was to share research to date and solicit feedback from community representatives. Participants were asked to share insight on priority health needs, underserved populations, existing community resources to address health needs, and gaps in services. The forum also served as a platform to identify opportunities for collaboration to address health needs.

Northeast Region Partner Forum Logistics

January 25, 2018, 2-4:30 pm Genetti Manor, Dickson City, Lackawanna County 47 Attendees

January 31, 2018, 2-4:30 pm Geisinger Wyoming Valley Medical Center, Wilkes-Barre in Luzerne County 33 Attendees

Participants from the following counties were invited to the Northeast Region Partner Forums.

- Lackawanna County
- > Luzerne County
- > Wayne County

A list of forum attendees and their respective organizations is included in Appendix C.

Northeast Region Partner Forum Findings

A total of 80 people representing a diverse mix of community organizations attended the Northeast Region Partner Forums. According to these participants, the cumulative ranking of health concerns in the Northeast Region are 1) substance abuse; 2) mental health care; 3) access to care; 4) healthy lifestyles; 5) maternal and child health; 6) chronic disease management; 7) oral health; and 8) community violence. It is worthwhile to note that in rating the health issues, the criterion of "scope" and "severity" tended to be rated higher while "ability to impact" was ranked lowest. The voting and follow-up discussion illuminated the complexities of these issues and myriad of factors that influence our efforts to improve outcome measures for health needs.

The prevalence of substance abuse and mental health care conditions is increasing across the region. Partners identified adolescents/young teens, patients with comorbid behavioral health conditions, and older adults as being the most underserved by community behavioral health services. They recommended prevention initiatives to reduce initiation of substance use among youth, additional behavioral health services to diagnose and treat conditions, and specialized services for older adults and individuals with coexisting conditions, including case management.

Partner Forum participants made recommendations to improve the accessibility of behavioral health services, including improving medical appointment transportation options, offering childcare services during appointments, and offering evening/in-home appointments. Other recommendations focused on improving social support and reducing stigma for individuals in recovery, and their families.

Stigma was identified as one of the top barriers to seeking and receiving behavioral health care services. Mental health care counseling and medication assisted treatment for opioid addiction are some of the most stigmatized services. Other barriers to accessing services include insurance coverage and out of pocket costs.

Access to care was identified as the top two health concern for the Northeast Region. According to partners, there are a number of organizations addressing access to care issues within the community, but their services are not coordinated. Partners recommended cross-agency case management to improve access to care, care coordination, and outcomes for patients. Partners also recommended professional networking opportunities and provider-based coalitions to improve awareness of services among organizations.

Several population groups were identified as underserved by health care services, including children with behavioral health issues, homeless, housing insecure families, seniors, and residents with limited English proficiency. Participants recommended home and community based services to better care for these populations, and identified Community Health Assistants, Community Health Workers, and Social Workers as potential partners. They also recommended that providers partner with patients to identify natural community supports (friends, family, churches) to improve health care compliance and promote health.

Transportation is a key barrier to accessing health and social services. Public transportation is available, but it does not serve all communities. Transportation for people with disabilities and Medical Assistance is also available, but there are barriers to accessing the services, including awareness, application assistance, and the need for advance scheduling. The COLTS bus system was identified as a potential partner for improving transportation within the region.

Healthy lifestyles and chronic disease management were identified as the top three health concerns for the Northeast Region. According to partners, the region lacks infrastructure and environmental factors that promote community-wide health. They recommended community coalitions and activism to address public health policies and local neighborhood planning and development. Partners identified local hospitals as potential community conveners to engage municipalities to address healthy infrastructure, including bike lanes, sidewalks, and parks in low income neighborhoods.

Partners also identified the need to increase awareness of available healthy lifestyle programs and services. They recommended partnering with media sources to advertise available services, and incorporating resources into medical waiting rooms and discharge planning for patients. Resources need to be culturally sensitive and available in multiple languages.

Partners discussed health and social service needs for specific chronic condition patients. The following patient populations were identified as underserved:

- > Alzheimer's disease patients: There is a need for more at-home, personal, and respite care services for patients and their families.
- > Arthritis patients: The region lacks medical and non-medical pain management treatment services for arthritis patients.
- > Cancer patients: Cancer patients require regular treatment, which can exacerbate access to care barriers related to transportation and cost (e.g. copays).
- > Diabetes patients: Specialty health care and disease management resources are limited within the region, particularly for gestational diabetes and undocumented residents.
- > Heart disease patients: Black/African American and Hispanic/Latino residents were identified as being underserved by heart disease prevention/healthy lifestyle programs.
- Obese children: Childhood obesity primarily affects low income and minority populations. Participants recommended community partnerships to deliver groceries to residents in food deserts, and offer physical activity opportunities to youth and their families.

Maternal and child health, including prenatal and postnatal years, was identified as the top four health concern for the region. Social determinants of health play a key role in the health of Northeast Region children, especially in Lackawanna and Luzerne Counties. A higher percentage of children are from low income and minority groups; these groups are less likely to achieve in school or have appropriate access to care. Education, in particular, is one of the biggest drivers of lifelong health status. Participants recommended programs to improve pre-K enrollment for low income and minority children. They also recommended mobile health clinics to operate in underserved communities and parenting programs to support healthy youth development.

Prioritization Process

The CHNA research findings to date, which included secondary data analysis and Key Informant Survey results, were provided to participants in advance of the forum and formally presented to attendees. Questions about the data were encouraged and clarified. At the conclusion of the data presentation, a list of six health topics were presented to the group to consider as the top health needs in the community. Participants were asked to offer suggestions for additional health needs not captured on the list. Discussion ensued about factors that impact health and subcategories within each of the health categories. Ultimately, the participants agreed that the following health issues accurately represent the top health concerns for their communities:

Identified Community Health Needs (in alphabetical order)

Lackawanna County

- Access to Care/Barriers to Services
- > Chronic Disease Management
- > Healthy Lifestyles
- Maternal & Child Health
- > Mental Health Care
- > Oral Health
- > Substance Abuse

Luzerne County

- > Access to Care
- > Chronic Disease Management
- > Dental Care
- > Healthy Lifestyles/infrastructure
- Maternal & Child Health
- > Mental Health Care
- > Community Violence
- > Substance Abuse

To prioritize these health issues, participants were asked to rank the health issues by rating each need on a scale of 1 (low) to 4 (very high) for the following criteria:

- > Scope (How many people are affected?)
- > Severity (How critical is the issue?)
- > Ability to Impact (Can we achieve the desired outcome?)

Participants used their smart phones or paper ballots to rate each health issue. Voting results were compiled and shared with the participants as depicted in the following tables.

Priority Health Need Rankings – Lackawanna County Partner Forum Rankings are based on a score of 1 (low) to 4 (very high)

Overall Ranking	Identified Health Need	Scope of the Issue	Severity of the Issue	Ability to Impact the Issue	Overall Score
1	Substance Abuse	3.6	3.6	2.5	9.8
2	Access to Care/Barriers to Services	3.4	3.2	2.4	9.0
3	Mental Health Care	3.3	3.3	2.4	9.0
4	Healthy Lifestyles	3.0	2.9	2.7	8.6
5	Chronic Disease Management	2.8	2.7	2.5	8.1
6	Maternal & Child Health	2.3	2.4	2.4	7.2
7	Oral Health	2.4	2.2	2.2	6.8

Priority Health Need Rankings – Luzerne County Partner Forum Rankings are based on a score of 1 (low) to 4 (very high)

Overall Ranking	Identified Health Need	Scope of the Issue	Severity of the Issue	Ability to Impact the Issue	Overall Score
1	Substance Abuse	3.6	3.4	2.6	9.6
2	Maternal & Child Health	3.2	3.1	2.9	9.2
3	Healthy Lifestyles/ Infrastructures	3.2	3.0	2.8	9.1
4	Mental Health Care	3.4	3.0	2.6	9.0
5	Access to Care	3.2	3.0	2.6	8.9
6	Chronic Disease Management	2.6	2.7	2.7	8.0
7	Dental Care	2.4	2.4	2.3	7.1
8	Community Violence	2.5	2.6	1.9	6.9

Small Group Discussion

Participants were divided into small groups based on their areas of expertise, knowledge or interest in each of the health issues. Worksheets were provided to each group to capture discussion topics and small group discussion was facilitated.

Participants were asked to consider the following questions to identify community assets, missing resources, underserved populations and recommendations for hospitals to address these health issues.

Existing Community Resources

- What organizations are working on these issues?
- > What resources exist in the community that can help impact this issue?
- > Are there models of success or innovative partnerships around this issue?

Underserved Populations

- > What populations are most at risk or underserved related to these issues?
- What barriers keep people from accessing services?

Missing Resources

- What do residents need to help them address this issue?
- What additional services could help improve health around this issue?
- What community inputs will be required?
- What partners could help?

The following section summarizes key findings from the small group discussion focusing on the top three identified health needs. 'The issues of substance abuse and mental health care and

healthy lifestyles and chronic disease management were discussed collectively. A list of assets according to health issue and as identified by the participants is included in Appendix B.

Substance Abuse and Mental Health Care

Substance abuse was ranked as the top health concern in both Northeast Region Partner Forums and the Key Informant Survey. Mental health care was also ranked among the top identified health needs, both as a standalone issue and as a coexisting condition with substance abuse. The prevalence of substance abuse and mental health conditions is increasing across the region, underscoring the shortage of resources to meet community need.

Partner Forum participants identified the following services as missing in the community related to Substance Abuse and Mental Health Care:

Missing Service for SUD or MH	Suggested Partner(s) for Services
Childcare for households receiving treatment	Families of overdose death patients
Evidence-based prevention education	Churches, religious organizations, non-
Evidence-based prevention education	clinical therapy providers
Flexible appointments (evening hours/in-home)	Current providers
Intensive outpatient substance abuse treatment for	
individuals who cannot afford money or time for	Retail pharmacies
inpatient treatment	
Information and awareness about where to find	Food banks; create a centralized
services	website for available services
Social support with religious and non-religious	Peer recovery specialists, mobile social
options for the recovery community	support app for community members in
options for the recovery community	recovery, drug-free housing providers
Stigma reduction education	High schools
Support services for employers and family	Police departments
members of addicted individuals	1 once departments
Transportation to appointments	Public transportation providers, shared
	ride services

Participants also discussed barriers for residents to access available services for substance abuse and mental health. Stigma is one of the top barriers, particularly for individuals seeking mental health care counseling and medication assisted treatment. Medication assisted treatment is considered to be a gold standard for the treatment of opioid addiction, but it is criticized by some for its use of "drugs" to treat chemical dependency. Other barriers include insurance coverage and costs. Participants recommended partnership with holistic providers to offer affordable, non-clinical treatment options.

The following populations were viewed by the participants as being underserved by the current substance abuse and mental health care system.

- Adolescents/Young teens: There is a need for youth prevention initiatives to reduce initiation of substance use, and treatment options for both mental health care and substance abuse. Minority youth populations particularly experience disparities.
- > Patients with mental health conditions and substance abuse comorbidities: Comorbidities can worsen or exacerbate symptoms and outcomes. Participants said there is a lack of services to simultaneously diagnose and treat coexisting conditions.
- Older adults: There is a need for more health care options to diagnose and treat behavioral health care conditions among seniors. Services are needed within the community setting, as well as assisted living and long-term care facilities. Participants recommended using care navigators to assist providers and consumers in identifying and obtaining services.

Access to Care

A multitude of organizations provide diverse services within the community. However, participants thought the social service network was "uncoordinated" and providers were "isolated" from each other. Participants said that organizations typically serve a specific population and do not participate in cross-agency care coordination. "Everybody is guarding their piece of the pie." Partners recommended using central case management to connect patients with services across the community. Networking opportunities or coalitions among health and social service providers were suggested to promote inter-agency communication and collaboration.

Participants listed the following populations as having the greatest challenges in accessing services across the health and social service system, and needed services.

- Children with behavioral health issues: The community lacks specialized treatment providers for children with mental health care and substance abuse issues, particularly providers that accept public health insurance.
- > Homeless individuals: Partners identified the need for safe and private places to provide care for the homeless. The homeless population is also in need of health and social service case management. The Visiting Nurses Association may be a possible partner.
- Housing insecure families: Parents or caregivers may forego needed health and social services out of fear that their children will be taken out of the home due to housing instability. -
- Opioid addiction treatment: The community lacks treatment centers and wrap-around community services to support the recovery community.

- Pediatric dentistry: Participants recommended partnering with local technical schools to provide services by dental hygiene students. They also recommended a mobile dental clinic to serve low income communities.
- Primary/Specialty care: There is a lack of both primary and specialty care providers, particularly providers who accept public health insurance. Participants recommended partnering with local medical schools to provide services by students.
- Residents with limited English proficiency: There is a need for qualified interpreters and bilingual providers to serve an increasingly diverse community population.
- > Seniors: Social isolation among seniors can contribute to lack of care coordination and medical compliance. Seniors without local caregivers are particularly at risk.

Partners recommended home and community based services to better care for underserved populations. "We need more people who can touch patients more frequently than we can." Partners identified Community Health Assistants, Community Health Workers, and Social Workers as potential partners for providing the services. They also recommended partnering with patients to identify natural community supports (friends, family, churches, etc.) to improve health care compliance and promote health.

Transportation is a key barrier to accessing available health care services. The COLTS bus system was identified as a potential partner for improving transportation options. COLTS offers several programs including the Special Efforts Accessibility Transportation System (SEATS) for people with disabilities and the Medical Assistance Transportation Program (MATP) to assist individual with Medical Assistance get to medical appointments. Barriers to accessing the COLTS system are awareness of the programs, obtaining an application, and the need for advance scheduling.

Healthy Lifestyles and Chronic Disease Management

Chronic conditions are the leading cause of death and disability across the nation. Participants identified the importance of community infrastructure and environmental factors for the promotion of healthy lifestyles and chronic disease prevention. "It's easier for people to be healthy when it's built into the community and they don't have to make a conscious decision to do it."

Participants recommended community coalitions and activism to address public health policies and local neighborhood planning and development. Community residents and leaders should engage municipalities to collectively advocate for safe neighborhoods and healthy community infrastructure, including bike lanes, sidewalks, parks in low income neighborhoods, etc. Partners identified the opportunity for local hospitals to act as community conveners to drive change, and for hospital employees to volunteer time to policy and government committees.

Participants also recommended a partnership with higher education institutions to engage students in health advocacy to help make local municipalities aware of health policies and

plans, and to develop future community leaders. Leadership Wilkes-Barre and other leadership development organizations are potential partners in this type of initiative.

Participants identified the need to increase awareness of available services to promote healthy lifestyle. They recommended partnering with media sources to promote available programs, parks, trails, etc. They also recommended that resources for healthy lifestyle behaviors be incorporated into medical waiting rooms and discharge planning for patients. Resources would need to be culturally sensitive and available in multiple languages.

Participants discussed health and social service needs for patients with specific chronic conditions. The following patient populations were identified as underserved by current local services.

- Residents diagnosed with Alzheimer's disease: There is a need for more at-home, personal, and respite care services for patients and their families. A partner for addressing the needs of patients is the Alzheimer's Association.
- Residents diagnosed with Arthritis: The region lacks medical and non-medical pain management services for patients. A non-medical example provided by partners is nutrition education. Certain diets like the Mediterranean style have been shown to reduce arthritis symptoms.
- Residents diagnosed with Cancer: These patients require regular treatment, which can exacerbate access to care barriers related to transportation and cost (e.g. copays). The American Cancer Society and COLTS offer limited paratransit services.
 - Patients who receive bone marrow or stem cell transplantation were identified as especially underserved by local services. There is a lack of specialists in the region; most patients travel to Fox Chase Cancer Center in Philadelphia.
- Resident with Diabetes: Specialty healthcare for diabetes is limited within the region; patients travel to Geisinger Medical Center in Danville for services. Diabetes management resources related to healthy lifestyles are also limited. Women with gestational diabetes and undocumented residents were identified as particularly lacking services.
- > Residents with Heart Disease: Black/African American and Hispanic/Latino residents are most in need of culturally sensitive healthy prevention and lifestyle programs.
- Children who are obese: Childhood obesity is more prevalent among low income and minority populations. The populations are more likely to live in food desert neighborhoods and lack transportation options to travel to grocery stores. They are also less likely to have access to safe recreational facilities. Participants recommended a partnership between grocery stores and the Access program to deliver groceries to residents in food deserts. They also recommended partnering with YMCAs and schools to offer additional afterschool physical activity opportunities for youth and their families.

Maternal and Child Health

Maternal and child health was defined by partners to include pre-and post-natal care as well as child and adolescent health. The expansion of this definition was intended to highlight the opportunity to impact health early in life to "break the cycle" of poor health and improve health across the lifespan. Partners agreed that many "unhealthy adults start as unhealthy children."

Participants identified the social determinants of health as playing a key role in the health of Northeast Region children. The region, particularly Lackawanna and Luzerne Counties, has a higher population of low income and minority children. These children are less likely to excel in school, readily access care when needed, and they are more likely to have health issues. Childhood social determinants, especially education, can impact lifelong health status. Participants recommended programs to improve pre-K enrollment among low income and minority children, as well as after school engagement opportunities. Participants also recommended mobile health clinics to operate in underserved communities and parenting programs to support healthy development among youth.

Focus Group Research Summary

Background

As part of the 2018 CHNA, 12 Focus Groups were conducted in March and April 2018 within the CHNA hospitals' primary service areas. Focus Groups were conducted with seniors age 55 or older at local subsidized senior housing and senior centers. The objectives of the Focus Groups were to collect perspectives on individual and community-wide health issues, barriers and assets to accessing healthcare, preferences for healthcare delivery, and existing or needed community resources. A total of 137 people participated in the Focus Groups across the 19 county region. The following is a breakdown of the focus group locations and participants per region.

Central Region Focus Groups

Jersey Shore Senior Community Center, Jersey Shore, Lycoming County 10 Attendees

Lincoln Towers, Shamokin, Northumberland County 35 Attendees

Danville Area Community Center, Danville, Montour County 7 Attendees

Heritage House, Lewisburg, Union County 10 Attendees

Westminster Place at Bloomsburg, Bloomsburg, Columbia County 11 Attendees

Northeast Region Focus Group Dates

Daniel Flood Apartments, Kingston, Luzerne County 8 Attendees

Kingston Active Adult Center, Kingston, Luzerne County 13 Attendees

Linden Crest Apartments, Clarks Summit, Lackawanna County 4 Attendees

Abington Senior Community Center, Clarks Summit, Lackawanna County 8 Attendees

South Central Region Focus Group Dates

Susquehanna View Apartments, Camp Hill, Cumberland County 10 Attendees

Marysville-Rye Senior Center, Marysville, Perry County 13 Attendees

Western Region Focus Group Dates

Kish Apartments, Lewistown, Juniata County 8 Attendees

Unique Findings by Region

Central Region

- Outside of the Danville area, participants were less likely to agree that providers particularly specialty providers—are available close to home. Most travel to Danville for specialty care.
- > Seniors state they can generally get primary care appointments within one week if they are willing to see a P.A. The wait is upwards of two weeks if they want to see their physician.
- > Two groups brought up that Geisinger is closing adult dentistry services in Danville. They were concerned that the decision was "all about the money" and asked "Where else can we go for dental care?"
- Participants at the Danville Area Community Center were most aware of the Silver Circle program. A few had signed up for the program, but none were actively using services. They thought other health education programs were provided by Geisinger, but weren't aware of the programs or actively receiving information.

Northeast Region

- More likely (along with South Central) to have access to primary and specialty care close to home.
- > While transportation was seen as an issue in all groups, those in the Northeast groups seemed most impacted by transportation needs. "When you don't drive, you are limited in everything." On demand and reliable, advance reservation ride shares for seniors were recommended.
- Only those in the Northeast groups mentioned having a difficult time understanding their medical bills. They would prefer itemized bills that show exactly what they are being charged.

South Central

- > These groups were more likely to say they had access to primary and specialty providers and multiple hospitals and health systems close to home.
- > The Marysville group was aware of changes to the local healthcare system including the emergence of UPMC. They have access to multiple hospitals and thought all were reputable. The biggest impact on their community has been the loss of provider practices.
- > While seniors generally felt safe in their community, they were keenly aware of the increase of drug abuse and crime.
- These groups were most willing to talk about mental health issues and to be forthcoming with experiences. The Susquehanna View Apartments experienced multiple suicides in recent years, which prompted residents there to be more aware of issues.
- > Participants in both groups were the least likely to consider transportation as a barrier to accessing services. Many still drove or used Rabbittransit vans. Bus stops were nearby to the Susquehanna View Apartments and accessible.

Western Region

Social isolation among seniors was prominently discussed among this group. Participants affirmed that there are few activities for seniors within the Kish Apartments and the larger community. Residents seek more community engagement and recommended that school groups, boy/girl scouts, and other groups visit or provide special events at Kish Apartments.

Common Discussion Themes

Where seniors live

The majority of participants have lived in their respective communities for most of their lives. Many recounted the ways in which the community had changed during their lifetime. About 20% of seniors in the groups had recently moved to the area to be closer to family as they aged. Nearly all participants living in apartments had downsized from a single-family home.

About 65% of focus group participants reside in senior apartments; 35% live in single family homes. Those seniors who participated in the focus groups held at senior centers were more likely to still own their home. Those who lived in a single family home included single and married individuals. Among those single seniors living in a house, most had family or other local support that checked on them and helped with needs. Those who were married seemed more confident in their ability to take care of their home, but also had local support when they needed it. Many had family, particularly adult children, living nearby.

Most participants who lived in apartments lived alone. Some had family members in the area, but many did not have family members that regularly visited them. These residents said that they "looked after one another," although some residents are "loners." Housing managers and social support staff also check in on residents regularly. Most participants valued these relationships and saw them as an important factor to choosing to live on their own rather than in a nursing home or personal care community. Participants recognized that social isolation is prevalent among their peers. Factors that increased isolation for residents included a lack of activities to engage residents, disability, and depression, often brought on by chronic conditions or loss of friends and family members.

"Most people are independent, but they need some help. We watch out for them."

"People are sick or have medical conditions; that's why you don't see them."

"Some residents don't leave their apartments, not even for the fire alarm."

"We have families, but they don't check in with us."

"We have formed a welcoming committee to introduce new residents and make them aware of the activities available."

The groups discussed the availability of senior housing and services to help seniors age in place within their communities. Participants thought that subsidized senior housing was more readily available, but affordable housing for middle-class seniors is lacking. Home care and home health services are prevalent in larger communities, but lacking in rural communities.

"It's hard to find help, even for someone to clean the house."

"I've looked into home care agencies, but I don't trust the caregivers."

"The Meadows (senior living community) is lovely, but it's expensive."

"There is community in the low-income apartment complexes. The middle class doesn't have options. What's next?"

Transportation Options

Approximately 75 percent of the focus group participants living in senior housing no longer drive, the other twenty-five percent living in senior housing owned a car and drove regularly. Driving prevalence was consistent with health status and activity level. Those who owned their home predominantly had cars and drove regularly.

Those that do not drive rely on public transportation and friends and family members to drive them. While some used the bus, reserved senior rideshares through Rabbittransit and County of Lackawanna Transit System (COLTs) were more commonly used. In communities where there was public transportation, there was typically a bus stop at the senior housing location, which residents found convenient. Seniors can ride the bus for free. Rabittransit provides reserved paratransit services in Adams, Columbia, Cumberland, Montour, Northumberland, Snyder, Union, Perry, and York Counties. Reservations must be scheduled by noon on the previous day and can be made up to two weeks in advance. Rides can be scheduled for any location within the service area. Pick up windows can be from 1-3 hours depending on other riders and destinations.

Those who had used the Rabbittransit service had differing opinions of the service. Some thought the service was inexpensive and helpful for disabled seniors. Others thought the services were inconvenient and unreliable due to the need for advanced scheduling, long wait-times for pick-ups or drop-offs, and missed stops. Some did not like that they were limited in how much groceries they could purchase by only what they could carry.

"The days I take Rabbittransit, I call my 'county tour' days. I just leave enough time for the ride."

"My mother is 96 years old. She can't wait 30 to 40 minutes for a bus. I just take her."

"Rabbittransit is convenient as long as it's not an emergency."

"Seniors can only carry a few bags at a time. Public transportation limits how much food you can buy."

"Sometimes I am late to my appointments or miss them because the van is late."

"Taxis are too expensive."

"We need 'old age Uber.""

"We're lucky to have Rabbittransit. I don't have another way to get around."

"When I schedule transportation, they give me a three-hour window for a pick-up time. I have to sit in the lobby to make sure I don't miss them."

Activities in the Community

Seniors in the focus groups were most likely to participate in activities within their housing complex or at the senior center. Likely, those that participated in the focus groups more frequently partook of these activities than seniors who did not participate in the focus groups, particularly within in the senior housing.

All of the senior apartments hosted onsite activities most days of the week. Activities ranged from bingo and games to exercise to health and wellness talks. While these activities occurred daily and many of the focus group attendees participated in these activities, there was still a sense of wanting more organized activities or things to do. Many said they wasted the day watching television, talking with friends, playing cards or "just watching the cars go by."

The Senior Centers offered daily activities, although hours of operation were limited. Most close by early afternoon. Activities at the senior centers were similar to the senior apartments including bingo and games, exercise, and health and wellness talks. Some senior centers also organized and helped prepare Meals on Wheels distribution. Others organized donations and provided free lunches for anyone in need to attend, including homeless.

Some focus group participants were active volunteers at their church, the local hospital, within the senior center, or at their senior housing. Those that are volunteers are very active in this capacity, listing dozens of activities they are involved with. Within all of the groups, fewer than 20 percent of participants were active at this level.

Participants were less likely to seek out other activities within the community, with the exception of those that participated in senior programs like Silver Circle, Silver Sneakers or other organized memberships. Awareness of these programs differed within the geographic locations of the focus groups with the Central and Northeast Regions being most aware of Silver Circle. Those individuals saw the program as being a good source of health information. Some took advantage of discounted exercise programs available to members.

At least half of participants in the sessions were familiar with the Silver Sneakers exercise and wellness program. Silver Sneaker members regularly went to a participating gym to exercise and for socialization. Silver Sneakers was highly regarded by members in the focus groups.

The participants thought Silver Circle and Silver Sneakers were good examples of seniororiented programs to encourage healthy eating and exercise. They encouraged more programs that focused on nutrition education, particularly for those with chronic conditions, and seniorfriendly physical activity. Water aerobics was specifically requested and not available in all communities.

"We have Geisinger, which is a real asset."

"Evan (Evangelical Community Hospital) has a lot of great outreach programs."
"Exercise makes me feel healthy. Silver Sneakers helped me get back on my feet."

"I felt great when I went to the gym. My arthritis stops me now."

"If I don't have company, I sit and watch TV all day."

"We need resources to support healthy aging."

Community and Individual Health

Participants had opposing opinions when asked if they would describe their community as "healthy." Those that affirmed their community as healthy, cited community assets like good healthcare, local universities, and a clean environment.

"People live a long time here. I think it has to do with the hard work ethic we all had."

Many remembered their communities as being healthier "when we were young." "You don't see as many children playing outside as you used to." Other participants noted that chronic conditions, particularly diabetes, are prevalent among local residents as well as a lack of emphasis on healthy behaviors.

"The community is average. We have a lot of the same conditions as other communities: heart disease, diabetes, cancer."

"You don't see children walking or playing on the sidewalks anymore. When we were young, we used to walk from one side of town to the other. We played all day at the playground or pool. You didn't come home until dinner. Now all the kids are on their screens inside and their parents are afraid to let them play alone."

"We are right on the edge of coal country and there are a lot of health issues here."

Asked about their own health, most described their health as "average" or in accordance with their age. "I'm as healthy as I can be at my age." Other participants said they struggled to maintain their health, primarily due to chronic conditions. "I have a lot of health issues. I take 31 pills per day." Participants attributed sedentary activity and poor diet as contributors to feeling unhealthy. Socialization and "activities that engage your mind" were seen by some as an important contributor to health.

"It's important to get outside and get around people, keep busy."

"The most exercise I get is walking from my apartment to the elevator."

Participants are knowledgeable of what constitutes a healthy diet, but the majority of individuals described their diet as unhealthy. The seniors named living alone or "only cooking for one or two" among the top barriers to eating healthy. Most primarily cook with a microwave or eat out. Other barriers to eating healthy were "discipline to not eat unhealthy foods" and the expense of "healthy" foods. Fruits and vegetables were considered "available but expensive." The region's agricultural heritage was by noted by some as a cornerstone to the "good nutrition we had growing up." "I eat a lot more processed food now than I ever cooked for my family."

For some their earlier food culture continues to influence what they eat today. Others have changed their diet because of a chronic condition, particularly diabetes. "I can't just eat what I used to anymore; I need to watch my sugar." Many struggle with knowing what foods are "okay to eat." "It's hard to know what you're getting at a restaurant." Some meet with a nutritionist that provides education and recommendations. Nutrition education and recommendations "to stretch food dollars" were requested by numerous focus group participants.

"Healthy food is expensive. The nutritionist tells me what to eat, but I can't."

"I don't cook as much anymore, we eat out. If you want to eat healthy, you have to cook."

"I eat frozen vegetables. They're cheaper, last longer, and they're just as good as fresh."

"I know what a healthy meal looks like; it's eating it that is hard."

"I would like diabetes education. I just take my insulin. I would like to know what's new and how I can take better care of myself."

"My husband was diagnosed with diabetes. We eat healthier now."

"We need healthy recipes that are easy to make for a single person."

"We need help to stretch our social security dollars to be able to buy healthy foods."

Participants get health information from a wide variety of sources. The primary sources are healthcare providers and the internet. Other sources include newsletters from the local health system or their health insurance plans, newspaper, TV, AARP, and senior centers. Bulletin boards or newsletters were seen as the best way to communicate health information, but some preferred email or Facebook. "I like having a link I can click on for more information."

Participants most likely seek information about their health conditions, including signs and symptoms and how to better manage chronic conditions. "I want to know if there are new treatments or something else that could help me."

Many participants noted the increased communication they received lately from their doctor and hospital. "They call you after your appointment to check in. They asked if I got my prescription and if I had any questions." "After my recent hospital stay I got calls from the hospital and my doctor office." These follow up calls were generally appreciated and seen as good practice.

Access to Care

All of the focus group participants had Medicare and about 40% qualified for Medicaid. A few participants experienced being uninsured prior to turning 65 years, typically when they were inbetween jobs. Asked how being uninsured impacted their health, participants stated that they either didn't go to the doctor or that they "just paid out-of-pocket." While many reflected on healthcare "costing a lot less back then," some still struggled to pay medical bills. A few participants had used free or reduced-cost clinics when they were uninsured and considered them to be an asset to the community.

"If you were uninsured, you just didn't go to the doctor."

"You just paid out-of-pocket if you were uninsured. You could afford to back then."

"I had a baby when I was uninsured. It was a long time ago, so it was only a couple of hundred dollars."

"When I finally got health insurance and was able to go to the doctor, he told me I had almost all of the risk factors for heart disease."

Despite all participants having health insurance, some still struggle to afford healthcare costs. "Prescriptions are the toughest." Some ask their providers to prescribe cheaper, generic prescriptions when possible. Others skip pills or cut pills in half to make them last longer and reduce costs.

Provider relationships

All of the participants had a regular healthcare provider that they see. About 70-80 percent have been with their doctor for a long time. Some have needed to change doctors when local practices closed or doctors left. Participants agreed that they want their provider to be close to their home. Most thought 10-20 minutes was acceptable. Negative perceptions increased as distance of providers (both primary care and specialists) increased.

Most chose their primary provider based on reputation and word of mouth from friends or family members. Referrals from another professional or conducting a phone or internet search were also commonly mentioned. Insurance is a key determinant in choosing a provider.

Participants had differing opinions on their preference for the level of their primary care provider. Most went to practices that employed both doctors and advanced practitioners. Fewer had practices with only doctors, which generally had one to three physicians.

About half of the participants prefer to see a physician rather than an advanced practitioner. Experience and education level were top reasons for their preference. Most of those who had seen an advanced practitioner had good experiences. Those that preferred to see advanced practitioners, noted "they are more personable," "more up-to-date on medical practices," and "easier to reach for follow-up questions." The majority of attendees that had experience with both physicians and advanced practitioners agreed that within the same practice they could get an appointment with a nurse or advanced practitioner sooner than with a physician.

"I have a doctor, but I can't get in to see him. If I want an appointment, it's with a P.A."

"I prefer a doctor generally, but the physician assistant can be more on the ball."

"I would rather see a doctor and have everything taken care of at once."

"I would rather see a P.A. They explain things to me. The doctor doesn't have time."

"If I'm paying for a doctor, I want to see a doctor."

"It doesn't matter to me who I see, but I would like to see my PCP once in a while. I have to schedule with him one year in advance."

The majority of participants have a good relationship with their healthcare provider. Participants described positive attributes as "someone who listens to me," "asks and answers questions," and "looks at me while we're talking." Participants also named quick service and follow-through as positive characteristics of a PCP office.

"My doctor explains everything to me. I can ask questions."

"My doctor shakes my hand and smiles."

Negative perceptions of providers included "he looks at the computer instead of me," "I feel rushed during the appointment," and "my doctor is always behind schedule." Difficulty with scheduling appointments and understanding medical bills also negatively impacts participants' perceptions of their PCP practice.

"I ask a question, but they're writing and not listening."

"I would like to receive an itemized bill that easily shows the fees I am being charged."

"My doctor tells me he'll see me in three months, but the schedule isn't out yet at reception. I have to remember to call back when the schedule is out."

"The wait for my appointment is terrible. I sometimes wait hours to see my doctor."

"When I call for an appointment, I'm told nothing is available and to call back later. You have to be your own advocate and assertive."

All participants have seen or are currently seeing a specialist provider. Participants in the South Central and Northeast Regions generally agreed that specialists are available and there are multiple providers to choose from. Participants in the Western and Central Regions were more likely to disagree that specialists are readily available, stating they travel to State College or Danville for care. Some rural communities in the Western and Central Regions have clinics with specialists that are available one day per month, but appointments are difficult to obtain in a timely manner. Specialty practices that were identified as missing or lacking in the community include, cardiology, dermatology, dentistry, endocrinology, otolaryngology, psychiatry, rheumatology, and urology.

The majority of participants in the focus groups understand the written instructions provided by their doctor. "They are easy to read and in plain English. The prescriptions, too." Those that navigate the appointment on their own feel most comfortable asking questions if they do not understand something. Many take notes during the appointment or rely on the "after visit printout" for follow-up needs. This group of seniors is more likely to use online resources like MyGeisinger for information and to communicate with their providers.

"I'm comfortable asking questions, but many people are not."

"I use MyGeisinger a lot to ask questions."

"If I don't understand, I tell them, 'Please speak English."

"My doctor asks me if I understand his instructions. I appreciate it."

About one-third of participants take someone with them to their medical appointments. Within this group about half prefer to have support to make sure they heard and understand the conversation. Some of these individuals record the conversation and/or have their companion take notes. The other half require a high level of assistance to get to the appointment and need assistance communicating with their provider. Patient advocates were recommended as a way to assist more fragile or elderly patients.

"I take somebody with me. Once I hear bad news, I stop listening."

"My son takes me to the doctor. I don't know what they talk about."

"I take notes. It's helpful to have something to walk away with from the appointment."

"We go to the doctor as a couple, one for the appointment and one to listen."

"I take my dad. Otherwise he wouldn't tell me what the doctor said."

Health Behaviors

Nearly all participants have been advised at some point by their healthcare provider to change a health behavior related to diet, exercise, or smoking. "Every time I see my doctor, he tells me to lose weight." Participants generally feel comfortable talking to their provider about lifestyle changes and view their provider as a trusted source for information. While participants have frequently received pamphlets or printed information, they generally agree that information alone is not enough for many to make a change. "Changing your behavior takes motivation and willpower." Some participants more readily made changes, while others didn't start to change their health behaviors until their daily activities were impacted. "People want to make changes on their terms." Support groups, follow up from their providers, and support of family and friends were named as ways that helped participants make a behavior change.

"Discipline is hard. I go to the nutritionist and she tries."

"I can't make a change overnight; I need to work at it a little at a time."

"If it's not broke, I don't fix it."

"I'm too old to change what I'm doing now."

"The doctor gives me instructions, but does anyone follow them?"

"I'm 98. The doctor said I should eat healthy. My son said I should eat anything I want!"

One area where the focus group participants were more likely to follow their providers' instructions was for health screenings. More than 90 percent of the participants followed their providers' guidance in receiving recommended health screenings. "The screenings are covered and it's better to catch it early." "I get my screening, whether I want to or not."

Pain and depression

About 50 percent of participants have been prescribed pain medication within the past few years by a healthcare provider. Participants said they received instructions on how to properly take their pain medication, most often from their pharmacist. In some cases, participants declined to fill the prescription or stopped taking the medication due to side effects, which were primarily dizziness or drowsiness. These individuals opted for over-the-counter pain medications. Participants were aware of alternative pain therapies such as exercise, but few individuals had tried the therapies.

"I had to cut back on my pain meds, they were too much. I'd rather feel alert."

"Therapies can be helpful, but insurance only pays for so much and it is a lot of travel and driving."

When asked about proper disposal of unused medications, the majority of participants stated that they had not received any instructions from their provider or their pharmacist. Some who knew about medication drop boxes at pharmacies and police stations had used these resources, while others flushed leftover medication in the toilet or kept it.

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"I had to sign a paper that I wouldn't sell or share my pain medication."
"I received a flyer from Geisinger on where to take my old medications."
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Participants said that loneliness, sadness, and depression are common among seniors. Nearly all attendees admitted to having these feelings some times. While participants were generally forthcoming in the focus group about their experiences or observations with depression, groups varied on their comfort level to talk openly about their feelings with their provider, family, or friends. Some groups concurred that they were comfortable talking to their provider about their "state of mind."

"I tell my doctor everything. We talk about it if I'm feeling depressed."

"My doctor asks me if I've been feeling sad or depressed. She wants to know."

"You can tell when someone's feeling down. They stay in their room. We check in on each other."

In more than half of the groups, participants said they were uncomfortable broaching the subject with their healthcare provider or admitting to having issues when asked. Those that avoid talking about feeling depressed gave different reasons.

"I deal with depression myself. I go for a walk, talk to people, or smoke a cigarette."

"My doctor asks me about depression every time I see him, but I wouldn't confide in him. I have friends I will talk to."

"Shame on me if I don't say anything to my doctor, but I need an established relationship."

"We were taught not to talk about our feelings."

"What's the use in talking about it, it doesn't change the situation."

Participants acknowledged that depression and other mental health issues are often not talked about. There is concern over "what people might think" or that "you can't manage on your own" and will "have to go to a nursing home." Others thought that more resources were needed to help seniors with mental health needs.

"Things spread. You have to be careful who you tell."

"We need education to identify conditions and available resources. Our families should be able to recognize changes and approach us."

"We need programs to help with stress management."

"They should post crisis numbers in the elevator and in the newsletter."

Prioritization of Community Health Needs

On February 15, 2018, the CHNA Regional Advisory Committee met to review research findings and partner input from the 2018 CHNA. Common themes had emerged throughout the research that were consistent across the service area (listing in alphabetical order):

- > Access to Care
- > Aging Services
- > Chronic Disease Management
- > Healthy Lifestyles
- Maternal and Child Health
- > Mental Healthcare
- Substance Abuse

Allied Services representatives were asked to review the data and to rate the hospitals' ability to impact each need, based on:

- 1. Relevance: How well does this need align with our core competencies or mission?
- 2. Effectiveness: Can we have a measureable impact on this issue?
- 3. Feasibility: Do we have resources, capacity, capabilities, support, etc. to address this need?

This discussion yielded the following list of priorities:

- Chronic Disease Prevention and Management (with a focus on increasing healthy habits)
- Services for Seniors
- > Access to Care
- > Behavioral/Mental Health
- > Maternal & Child Health

This approach was approved by Allied Services leadership for the purpose of developing the Implementation Plan.

Evaluation of Impact from Prior CHNA Implementation Plan

Background

In FY2016, Allied Services completed a Community Health Needs Assessment and developed a supporting three year Community Health Implementation Plan (CHIP) for FY2017-2019. The CHIP addresses identified health priorities for the areas served by Allied Services Rehabilitation Hospital and John Heinz Rehabilitation Hospital. The strategies implemented to address the health priorities reflect Allied Services' mission and commitment to improving the health and well-being of the community.

Guided by the findings from the FY2016 CHNA and input from key community stakeholders, leadership of Allied Services identified the following priorities for FY2017-2019:

- Senior Health
- > Health Care for Persons with Disabilities
- > Needs Related to Behavioral Health and Substance Abuse
- > Affordability of Care
- > Resource Awareness and Health Literacy

FY2017-2019 Evaluation of Impact

Allied Services developed and implemented a plan to address community health needs which leverages resources across the health system and the community. The following section highlights outcomes from the implemented action items.

CHNA Priority #1: Senior Health

Allied Services expanded communication and programming for older adults and providers of senior health and human services, in order to advance senior health, wellness, and safety. These initiatives imbedded Allied Services clinicians and caregivers into the community, and invited the public into the hospitals for low or no-cost wellness education and fitness programs. Social media and website messaging were also used to promote home safety and fall prevention, healthy eating, stroke prevention, in-home health/wellness services, and palliative care for chronic illness.

Specific accomplishments included:

- Nearly 400 community members took part in free screenings, outreach and informational sessions on fall prevention, advanced care planning, stroke prevention and recovery, Parkinson's fitness and caregiver strategies, and home safety. In addition, former patients and community members took part in monthly support groups for Stroke, Parkinson's, Multiple Sclerosis, Brain Injury, Amputation, Epilepsy, Lupus, and Spinal Cord Injury. These monthly meetings featured health professionals and consumer peers sharing information on new clinical/care approaches, symptom management, self-care and independent living.
- > More than 1,100 adults took part in low-cost/no cost wellness and fitness programs at Allied Services Rehab Hospital and Heinz Rehab Hospital. These programs promote fitness-for-

life. Customized programs were provided to address symptoms of Multiple Sclerosis, Arthritis, Parkinson's disease, and recovery from cancer, stroke, and joint replacement.

CHNA Priority #2: Health Care for Persons with Disabilities

Allied Services reached out to the community via in-person meetings, presentations, talks, and physician/provider meetings to increase awareness of inpatient and outpatient medical rehabilitation resources. The health system also coordinated with other community-based organizations to reduce identified barriers to care access.

- Allied Services participated in a regional effort spearheaded by the NEPA Alliance to develop GIS mapping of health resources (hospitals, outpatient clinics, federally-qualified healthcare centers). A regional Equitable Transportation Council will use this information to improve coordination and utilization of medical transportation resources across various sectors, including public transit, private carriers such as Lyft and Uber, and individual nonprofit transportation programs.
- Allied Services started the development of a community-based Palliative Care program to meet the needs individuals with serious chronic illness and related disabilities. Palliative Care is designed to increase comfort and quality of life, improving symptom management and care planning/coordination. Also, by preventing health emergencies and unnecessary or unwanted medical interventions, palliative care can reduce patient healthcare costs. The program is particularly appropriate for chronically ill patients who lack adequate family/caregiver support, those who have limited access to primary care providers, and those who have language barriers or poor health literacy.

CHNA Priority #3: Needs Related to Behavioral Health & Substance Abuse

The rising prevalence of mental illness and related substance abuse continues as a priority for healthcare providers and community health advocates. While not a provider of psychiatric/psychological services or addiction treatment, Allied Services is a leading area resource for health and wellness education and post-acute residential and community-based programs for adults with chronic mental illness.

- Allied Services' ThinkFirst program was presented to 325 middle school students in area schools. ThinkFirst is an evidence-based educational program created by the American College of Neurosurgeons. It stresses the life-changing consequences of bad health and lifestyle choices, covering a wide range of topics (e.g., the hazards associated with drug/alcohol use, distracted driving, and cycling, pedestrian and swimming safety). The program was presented by Allied Services/Heinz Rehab occupational therapists, assisted by young adult volunteers who shared their stories of recovery after life-changing accidents caused by distracted driving or driving under the influence of drugs/alcohol. ThinkFirst also builds students' understanding of the many challenges faced by persons with disabilities.
- > In cooperation with local school districts, Allied Services' Behavioral Health professionals organized four "JumpStart" program workshops for school-age teens and young adults who have been diagnosed with mental health and/or behavioral illnesses. The program, developed for Allied Services by consultants from the American Academy of Psych Rehab,

helps teens to bridge the gap between in-school and adult behavioral health services. JumpStart workshops help participants to develop personal, professional, and educational goals, and to actualize these goals through specific action steps and healthy behaviors. The program addresses a critical gap in the region's continuum of care for mental illness: the loss of care continuity when young adults with mental/behavioral health needs "age out" of in-school mental health services upon graduation. National behavioral health studies have shown that without continuing services and productive daily activities (continuing education, job training or employment) during the weeks immediately following high school graduation, students who have mental/behavioral health histories become especially vulnerable to mental health crises, substance abuse and other problem behaviors.

CHNA Priority #4: Affordability of Care

From its inception almost sixty years ago, Allied Services' has sustained its commitment to extending care, services, and opportunities to those most in need. In addition to its charity care services, Allied Services supports many healthcare, health education, and human services organizations. The health system also collaborates with area colleges and universities to host clinical training/internship opportunities for aspiring health professionals, helping to stem the critical shortage of physicians, nurses, and allied health professionals in northeastern Pennsylvania.

- > Eighty-one (81) local undergraduate and graduate students participated in internship and clinical experiences in our hospitals. Their fields of study included physical therapy, occupational therapy, speech therapy, nursing, and healthcare administration. Informal "shadowing" opportunities were available throughout the year to younger students considering future health careers. Long term, these opportunities will help to reduce the shortage of health professionals in our region and, in turn, reduce barriers to care.
- > Two-hundred and thirty-five (235) Allied Services employees took part in companysponsored health and wellness initiatives (e.g., smoking cessation, weight management, exercise and stress management, wellness check-ups and testing, etc). By helping employees to stay healthy, these programs may help to control the harms and costs associated with employee illness/injury, health insurance, etc.

CHNA Priority #5: Resource Awareness and Health Literacy

Allied Services has worked to enhance its capacity to serve diverse patient groups by building a diverse and culturally-sensitive workforce, and ensuring that individuals who face barriers to care are aware of our services.

> Joint Commission "roadmap" best practices for healthcare employee language/cultural sensitivity were adopted in clinical and business settings, new staff orientation, mandatory annual staff competency education/testing ("Healthstream"), and patient information/education materials. During hospital admission, multi-language "pick lists" and other aids help non-English-speaking patients to quickly and easily communicate their language preference and to request interpretation services.

- In addition to traditional staff recruitment tools (print and broadcast advertising, job fairs, referral incentives), social media outlets such as Facebook and Twitter were a critical part of hospital staff recruitment efforts. Special recruitment outreach invitations were sent to 27 regional organizations that serve minority language/cultural groups, persons with disabilities, and employment training programs for displaced/unemployed workers.
- Targeted use of social media and affinity group sites allowed Allied Services to promote available resources across the community. The resources include services offered by Allied Services and community organizations for individuals with disabilities and/or age-associated illnesses. The health system regularly publicized opportunities for adaptive/ accessible sports programs, social programs for parents/siblings of children with special needs, and diagnosis-specific caregiver education programs. The target audience for the information represents not only our hospitals' typical patient populations, but also community groups that advocate for disability rights/universal accessibility, services for children with special needs and chronic illness, and mental health and addiction recovery groups.

Implementation Plan for 2018-2021

Community Health Priorities

The following Community Health needs were identified, and were prioritized by Allied Services' CHNA planning team:

Priority 1: Prevention and Management of Chronic Illness

- NEPA's prevalence of multiple chronic illnesses among seniors exceeds State and U.S. averages
- More than 25% of the region's adults are obese
- Heart disease, diabetes and cancer death rates exceed State and U.S. averages
- Community health leaders report that NEPA's chronically-ill are medically under-served
- Poor health literacy and lack of preventive health/wellness education contribute to poor health outcomes
- At-risk groups include older adults, persons with multiple chronic illnesses, and uninsured or under-insured persons

Priority 2: Services for Seniors

- Arthritis, Chronic Obstructive Pulmonary Disease (COPD), diabetes and ischemic heart disease are more prevalent among NEPA seniors, compared to U.S. and PA counterparts
- High regional prevalence of seniors who have multiple chronic illnesses (per Medicare data)
- High prevalence of seniors living alone
- Partners identified the need for more behavioral/mental health diagnosis and treatment options for seniors, both in community and residential care settings
- Key Informants reported that failure to understand importance of preventive care is a top reason the insured do not seek/receive care
- Partners identified social isolation among seniors as a contributor to poor care coordination and medical noncompliance

Priority 3: Access to Care

- NEPA has a lower ratio of primary care providers-to-population compared to other PA areas
- Key Informants report "inability to afford healthcare" as top contributor to poor health
- 23% of Key Informants cite the inability to afford co-pays/deductibles as top reason uninsured do not seek/receive care
- 22% of Key Informants disagree that "most residents have a regular primary care provider"; and 22% do not believe that "residents can access a medical specialist when needed"
- Health literacy was selected by Key Informants as the fourth leading cause of poor health
- Community Partners (health care providers, human service agencies) report that stigma is an important barrier to behavioral and mental health care-seeking and treatment
- 56% of Key Informants report that residents have inadequate access to medical transportation; transportation was identified as the top "missing resource"

Priority 4: Mental Health & Substance Abuse

- The rate of mental health care providers per population lags behind State and U.S. averages
- Mental Health services were identified as the second most important "missing resource" by 65% of Key Informants
- Community Partners identified as under-served in behavioral and mental health: Adolescents and young teens; patients with mental health and substance abuse co-morbidities; and older adults

Priority 5: Maternal & Child Health

- Percentage of births to teenagers is higher in NEPA compared to PA and US
- Lackawanna and Luzerne counties do not meet Healthy People 2020 (HP2020)goals for first trimester prenatal care, breastfeeding, or reducing the prevalence of low birth weight infants
- Region exceeds the HP 2020 goal for smoking during pregnancy
- Community Partner forums identified social determinants of health (especially education) as a significant driver of poor health among children.

These findings are addressed in the following CHNA Implementation Plan for 2018–2021.

The CHNA and Implementation Plan were adopted by the Board of Directors on July 11, 2018.



COMMUNITY HEALTH NEEDS ASSESSMENT (CHNA) IMPLEMENTATION PLAN ALLIED SERVICES REHABILITATION HOSPITAL JOHN HEINZ REHABILITATION HOSPITAL

July 1, 2018 - June 30, 2021

The following Implementation Strategies have been adopted to address the priority health needs that were identified by the CHNA. These plans reflect our assessment of each area's *relevance* to our core competencies and mission, the *potential impact and effectiveness* of possible intervention(s), and the *feasibility* of addressing the need based on our resources, capacity and capabilities.

Priority 1: Prevention and Management of Chronic Illness

Goal: Improve health literacy, health and wellness behaviors, especially among persons affected or at high risk of chronic disease

- 1. Increase participation in hospital-based health education, wellness and fitness programs by persons diagnosed or at-risk of chronic illness.
 - Involve 300 new participants in our health education and wellness programs
- 2. Provide health and self-care information to persons living with chronic illnesses.
 - Deliver targeted outreach and information to 300 stroke survivors and others living with chronic illnesses
- 3. Increase availability of off-campus health education, wellness and fitness programs
 - Explore partnerships with local fitness/recreation, health and community service organizations
- 4. Continue safety/accident prevention education programs for children to reduce risk of disabling injuries
 - Present ThinkFirst in-school safety education program to 600 school-age children

Priority 2: Services for Seniors

Goal: Improve health and wellness habits, medical compliance and safety of seniors, especially those affected or at-risk of chronic illness

- 1. Increase awareness of hospital and community health resources to aid seniors in maintaining health, managing chronic illness, staying healthy and safe at home
 - Assist 3600 seniors/persons with disabilities/chronic illnesses with information and referral to free/low-cost services, e.g., fitness and wellness programs, in-home health or personal care, assistive devices, home modifications, financial assistance programs
- 2. Provide one-to-one outreach and wellness evaluations to at-home seniors
 - Assist 324 seniors and persons with disabilities by providing at-home evaluations, referrals and resources to promote better health, safety and life quality

Priority 3: Access to Care

Goal: Reduce identified barriers to healthcare, including healthcare professional shortages, language barriers, and transportation for daily living, healthcare and employment needs

- 1. Contribute to the training, education and development of healthcare professionals to serve the region
 - Provide clinical experiences, internships, mentoring to 100 students of physical, occupational or speech therapies, nursing, medicine, social work and other critical healthcare professions
- 2. Ensure that individuals who face language/cultural barriers have ready access to services and health resources
 - Conduct targeted health and wellness outreach to 10 community-based groups/associations or nonprofit agencies that serve non-English-speaking communities
- 3. Continue participation in regional transportation improvement efforts
 - Continue participation in Coordinated Transportation, Ride-Sharing and NEPA Equitable Transportation Council

Priority 4: Mental Health & Substance Abuse

No Implementation Plan is proposed. Our hospitals do provide psychological and counseling services for medical rehabilitation patients. However, delivery of community-based mental health and substance abuse treatment programs is beyond our scope of work as a medical rehabilitation organization.

Allied Services Behavioral Health (a part of Allied Services Integrated Health System) is one of the region's leading providers of post-acute residential services, counseling and psychiatric rehab for adults who have experienced chronic mental illness. Populations served include adults, seniors and young adults.

Priority 5: Maternal & Child Health

No Implementation Plan is proposed. Allied Services is the region's leading provider of pediatric medical rehab services (physical, occupational, speech and pragmatic social programs) for children with disabilities, ages infant through adult. However, our rehabilitation hospitals do not provide maternity care or related counseling.

Board Approval

The 2018 Community Health Needs Assessment (CHNA) and Implementation Plan were approved by the Boards of Directors of Allied Services Rehabilitation Hospital and John Heinz Rehabilitation Hospital on July 11, 2018.

Appendix A: Public Health Secondary Data References

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Appendix B: Key Informants

A key informant survey was conducted with 36 community representatives. The organizations represented by key informants, and their respective role/title, included:

Abington Heights School District Advantage Home Health Services, LLC Allied Services Administration Allied Services Administration Allied Services Administration Admini	Key Informant Organization	Key Informant Title/Role
Advantage Home Health Services, LLC Allied Services Director, PFS Allied Services Director Physician Relations Allied Services Allied Services Director Allied Services Hospice Allied Services Hospice Alzheimer's Association AssuredPartners of Northeastern Pennsylvania Executive Vice President/Principal Executive Officer Geisinger AVP, Informatics Executive Director Clinical Nutrition Directory of Ambulatory Care Gaps & Best Practice Geisinger Systems Analyst Geisinger Geisinger Director Geisinger Geisinger Director Director Director, Patient Liaisons and Interpretive Services Services Director, Corporate Communications Exervices Geisinger Community Medical Center Stroke Program Coordinator Trauma Education/Injury Prevention Coordinator Geisinger Community Medical Center Geisinger Com		Superintendent
Allied Services Hospice Allied Services Hospice Allied Services Allied Services Allied Services Allied Services Allied Services Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Services Hospice Allied Service President Confered Allied Services Hospice Allied Services Hospice Allied Service Hospice Allied		
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Allied Services Hospice Director Physician Relations Allied Services Hospice Director Allied Services Hospice Alzheimer's Association Vice President AssuredPartners of Northeastern Pennsylvania Executive Vice President/Principal Geisinger Therapy supervisor Geisinger Manager Geisinger AVP, Informatics Geisinger Research Project Manager II Geisinger Senior Director Clinical Nutrition Directory of Ambulatory Care Gaps & Best Practice Geisinger Systems Analyst Geisinger Director Geisinger Director, Corporate Communications Geisinger Director, Corporate Communications Geisinger Community Medical Center Stroke Program Coordinator Geisinger Community Medical Center Coordinator Geisinger Community Medical Center Operations Manager Geisinger, CPIO Research Project Manager/Med Take Back Grey Medical Advocate, LLC Owner LiveWell Luzerne/Wilkes-Barre Family YMCA Healthier Communities Coordinator PA Psychiatric Leadership Council Senior Consultant Pagnotti Enterprises, Inc. Chief Financial Officer/Acting HR Director Serviced Chief Executive Officer Volunteers in Medicine Executive Director President Chief Executive Officer Volunteers in Medicine Executive Director	Allied Services	VP Home Care Services
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Allied Services Hospice Alzheimer's Association AssuredPartners of Northeastern Pennsylvania Geisinger Gei	Allied Services	Director Physician Relations
AssuredPartners of Northeastern Pennsylvania Geisinger Community Medical Center Geisin	Allied Services Hospice	
Pennsylvania Geisinger Geisinger Geisinger Manager Geisinger AVP, Informatics Geisinger Research Project Manager II Geisinger Directory of Ambulatory Care Gaps & Best Practice Geisinger Director Geisinger Geisinger Director, Patient Liaisons and Interpretive Services Geisinger Community Medical Center Geisinger Project Manager/Med Take Back Grey Medical Advocate, LLC Jewish Family Service of Northeastern Pennsylvania LiveWell Luzerne/Wilkes-Barre Family YMCA Northeast Suicide Prevention initiative PA Psychiatric Leadership Council Pagnotti Enterprises, Inc. Chief Financial Officer/Acting HR Director Penn State Extension Senior Extension Educator/Registered Dietitian Scranton Primary Health Care Center, Inc. Chief Executive Officer Volunteers in Medicine Executive Director	Alzheimer's Association	Vice President
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LiveWell Luzerne/Wilkes-Barre Family YMCA Healthier Communities Coordinator Northeast Suicide Prevention initiative President PA Psychiatric Leadership Council Senior Consultant Pagnotti Enterprises, Inc. Chief Financial Officer/Acting HR Director Penn State Extension Senior Extension Educator/Registered Dietitian Scranton Primary Health Care Center, Inc. Chief Executive Officer St. Joseph's Center President/ Chief Executive Officer Volunteers in Medicine Executive Director		Executive Director
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Penn State Extension Scranton Primary Health Care Center, Inc. St. Joseph's Center Volunteers in Medicine Senior Extension Educator/Registered Dietitian Chief Executive Officer President/ Chief Executive Officer Executive Director	•	
St. Joseph's Center President/ Chief Executive Officer Volunteers in Medicine Executive Director	Penn State Extension	Senior Extension Educator/Registered
St. Joseph's Center President/ Chief Executive Officer Volunteers in Medicine Executive Director	Scranton Primary Health Care Center, Inc.	
Volunteers in Medicine Executive Director		
	Wilkes-Barre Family YMCA	Healthy Community Coordinator

APPENDIX C: Community Partners

Name Organization

Sheila Abdo Jewish Family Services of Northeastern Pennsylvania

Helen Akhondi Geisinger
Sassan Akhondi Geisinger
Anthony Aquilina Geisinger
David Argust Allied Services

Kirsty Avery Geisinger Community Medical Center

Mike Avvisato Allied Services Kimberly Bankes Geisinger

Lisa Baumann Geisinger Health Plan

Jim Brogna Allied Services

William Browning Lackawanna Department of Human Services

Carmela Carr Geisinger

Ida CastroGeisinger Commonwealth School of MedicineSam CeccacciScranton Lackawanna Human Development Agency

Trudy Coleman Northeast Regional Cancer Institute

Brenda Conlon Saber Healthcare Group

Nicole Cruciani Northeast Regional Cancer Institute

William Dempsey Northeast Rehab

Brian Ebersole Geisinger
Theresa Gilhooley Geisinger
Robin Green Geisinger
Breanna Grzech Geisinger

Joseph Hollander Scranton Primary
Andy Hurchick St. Joseph's Center
Karen Kearney Allied Services
Paula Keenan Scranton Primary
Karin Machluf Penn State Scranton

Sabrina Maldonado Geisinger

Lynn McAllister FirstLight Home Care

Elizabeth McGuigan VNA Hospice and Home Health Stephanie Midgley Penn State University Student Nurse

Terrie Morgan The Times-Tribune
Barbara Norton Allied Services
Denise Rader Geisinger

Linda Rothermel SpiriTrust Lutheran

Christopher Rutt Geisinger

Karen Saunders Northeast Regional Cancer Institute

Jessica Sevecke Geisinger

LaTida Smith Moses Taylor Foundation

Megan Sobieski Geisinger Rachel Sweeney Geisinger

Karen Thomas Penn State Extension
Peter Tomasi FirstLight Home Care
Michelle Walsh Saber Healthcare Group

Alison Woody Geisinger
Kay Young Geisinger
Barb Zarambo Geisinger

Lisa Baumann Geisinger Health Plan Mary Belanchikj Penn State Nutrition Links

Julie Bordo Geisinger

Katrina Conrad Geisinger Health Plan Wellness

Alysha Davis Geisinger

Tamara M Dickey Geisinger Buckhorn
Mary Ehret Penn State Extension
Mary Erwine Erwine Home Health
Kimberly Follett Volunteers of America PA

Family Service Association of Northeastern

Rose Gallagher Pennsylvania

Michelle Gorey Wilkes-Barre Area School District

Damon Hamilton Geisinger

Bill Jones United Way of Wilkes-Barre

Terri Klinefelter Pennsylvania Office of Rural Health

Dawn Kolbicka Geisinger
Dan Landesberg Geisinger
Antoinette Lovecchio Geisinger

Jasmine Mena Bucknell University

Susan Mizenko Wyoming Valley Alcohol and Drug Services, Inc.

Andrea Myers Geisinger Medical Center Lori Nocito Leadership Wilkes-Barre

Barbara Norton Allied Services
Denise Rader Geisinger
Heather Rizzo Geisinger
Becky Ruckno Geisinger

Gail Petorak Geisinger Health

Michele Schasberger Wilkes-Barre Family YMCA

Phyllis Scott Geisinger

Michael Taluto Pennsylvania Department of Transportation

Kristen Topolski Volunteers of America PA

Patricia Wascavage Geisinger

Bill Wellock The Citizens' Voice

Richard Williams, Architect

Appendix D: Existing Community Assets to Address Community Health Needs

Information on Local Resources/Programs fo	r Seniors and Peor	ole with Disabilities
Apprise – free health insurance counseling for		https://www.aging.pa.gov/aging-
seniors in Pennsylvania	1-800-783-7067	services/insurance/Pages/default.aspx
		https://www.lackawannacounty.org/index.ph
		p/departmentsagencies/human-
Area Agency on Aging – Lackawanna County	570-963-6740	services/area-agency-on-aging
Area Agency on Aging – Luzerne County	570-822-1158	www.luzernecounty.org
		http://aging.waynecountypa.gov/149/Agency
Area Agency on Aging – Wayne County	570-253-4262	-on-Aging
Voluntary Action Center of NEPA, Scranton	570-347-5616	http://www.vacnepa.org/
Family Services Association of NEPA, Wilkes-		
Barre	1-800-829-1341	http://www.fsawv.org/
Pennsylvania 2-1-1 – all locations, 24/7	2-1-1	http://www.pa211.org/
WINFO Wayne County, Honesdale –		http://waynecountypa.gov/176/Information-
information and referral services	1-570-253-5986	Referral
Acute Care Hospitals		
Commonwealth Health System – Moses Taylor		https://www.commonwealthhealth.net/moses
Hospital, Scranton	570-770-5000	-taylor-hospital-commonwealth
Commonwealth Health System – Regional		https://www.commonwealthhealth.net/region
Hospital of Scranton, Scranton	570-770-3000	al-hospital-of-scranton-commonwealth
Commonwealth Health System – Wilkes-Barre		https://www.commonwealthhealth.net/wilkes
General Hospital, Wilkes-Barre	570-829-8111	-barre-general-hospital-commonwealth
		https://www.geisinger.org/patient-care/find-
Geisinger Community Medical Center,		a-location/geisinger-community-medical-
Scranton	570-703-8000	<u>center</u>
		https://www.geisinger.org/patient-care/find-
Geisinger South Wilkes-Barre, Wilkes-Barre	570-808-3100	a-location/geisinger-south-wilkes-barre
		https://www.geisinger.org/patient-care/find-
		a-location/geisinger-wyoming-valley-
Geisinger Wyoming Valley, Wilkes-Barre	570-808-7300	medical-center
Wayne Memorial Hospital, Honesdale	570-253-8100	www.wmh.org
Daily Living Supports for Seniors at Home	1	T
		https://www.lackawannacounty.org/index.ph
A A A	570 000 0740	p/departmentsagencies/human-
Area Agency on Aging – Lackawanna County	570-963-6740	services/area-agency-on-aging
Area Agency on Aging – Luzerne County	570-822-1158	www.luzernecounty.org
Anna Annau an Anina - Maria - Carat	E70 0E0 4000	http://aging.waynecountypa.gov/149/Agency
Area Agency on Aging – Wayne County	570-253-4262	-on-Aging
Alliad Caminas In Hans Co.	570 040 0040	https://www.allied-services.org/in-home-
Allied Services In-Home Care	570-348-2210	care/
Meals on Wheels Northeastern PA, Scranton	570-346-2421	http://www.mealsonwheelsnepa.com/
Manla an Mhanla Mhanni'r a Malla a 12'r a 1	F70 000 4000	https://www.mealsonwheelswyomingvalley.c
Meals on Wheels Wyoming Valley, Kingston	570-288-1023	<u>om/</u>
Hama dally and Mark Oracles W	E70 050 4000	https://waynecountypa.gov/423/Home-
Home-delivered Meal Service, Wayne County	570-253-4262	Delivered-Meal-Services
"Waiver" Services and Care Coordination –	4 055 550 0540	https://www.allied-services.org/waiver-
Allied Services	1-855-556-9546	coordination/

		http://uwlc.galaxydigital.com/volunteer/agenc
Serving Seniors, Inc., Scranton	570-344-3931	y/display/?agency_id=2426
Telespond Senior Services, Scranton	570-961-1950	http://telespond.org/
Exercise & Wellness Programs		
		https://www.allied-services.org/aronica-
Allied Services Rehab, Scranton	570-341-3051	wellness-center/
,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		https://www.allied-services.org/aronica-
Allied Services Heinz Rehab, Wilkes-Barre	570-830-2065	wellness-center/
Greater Carbondale YMCA	570-282-2210	https://greatercarbondaleymca.org/site/
Greater Scranton YMCA, Dunmore	570-342-8115	http://www.greaterscrantonymca.org/
· , · · · ·		https://www.hazletonymcaywca.org/index.ht
Hazleton YMCA-YWCA, Hazleton	570-455-2046	ml
Jewish Community Alliance, Wilkes-Barre	570-824-4646	https://jewishwilkes-barre.org/
Jewish Community Center, Scranton	570-346-6595	https://scrantonjcc.org/
Wayne County YMCA, Honesdale	570-253-2083	http://www.wcymca.com/
Wilkes-Barre YMCA	570-823-2191	http://www.wbymca.org/
	0.000000	
Free/Reduced Cost Clinics, Federally Qualifi	ed Health Centers	
		http://www.pachc.org/PA-Health-
Carbondale Family Health Center	570-282-2031	Centers/Find-a-Health-Center
		http://www.pachc.org/PA-Health-
McAndrew Family Health Center, Vandling	570-384-4711	Centers/Find-a-Health-Center
Andrew C. Mazza Memorial Health Center,		http://www.pachc.org/PA-Health-
Greenfield Township	570-282-5189	Centers/Find-a-Health-Center
Leahy Community Health and Family Center,		http://www.scranton.edu/academics/pcps/lea
University of Scranton	570-941-6112	hy/
Rural Health Corp. Freeland Health Center,		http://www.pachc.org/PA-Health-
Freeland	570-704-4232	Centers/Find-a-Health-Center
		http://www.pachc.org/PA-Health-
Rural Health Corp., Shickshinny Medical Ctr	570-542-4141	Centers/Find-a-Health-Center
D. salida ald. Oasa William Dassa	570 005 0744	http://www.pachc.org/PA-Health-
Rural Health Corp., Wilkes-Barre	570-825-8741	Centers/Find-a-Health-Center
Scranton Primary Health Care Center,	570 044 0547	http://www.pachc.org/PA-Health-
Scranton Primary Health Core Center Alder	570-344-3517	Centers/Find-a-Health-Center
Scranton Primary Health Care Center, Alder	570-344-9684	http://www.pachc.org/PA-Health-
Street Clinic, Scranton	370-344-9064	Centers/Find-a-Health-Center
Wayne Memorial Hamlin Family Health Center,	570 690 0065	http://www.pachc.org/PA-Health- Centers/Find-a-Health-Center
Hamlin Wayne Memorial Honesdale Family Health	570-689-9965	http://www.pachc.org/PA-Health-
Center, Honesdale	570-251-6672	Centers/Find-a-Health-Center
Wayne Memorial Northern Wayne Family	370-231-0072	
Health Center, Lake Como	570-798-2828	http://www.pachc.org/PA-Health- Centers/Find-a-Health-Center
Wayne Memorial Waymart Family Health	310-130-2020	http://www.pachc.org/PA-Health-
Center, Waymart	570-488-9770	Centers/Find-a-Health-Center
Genter, Wayman	370-400-3770	https://thewrightcenter.org/home/patientcare/
Wright Center for Primary Care, Clarks Summit	570-585-1300	locations/
wingin Contor for Fillinary Care, Clarks Sulfilling	370 303-1300	https://thewrightcenter.org/home/patientcare/
Wright Center Mid-Valley, Jermyn	570-230-0019	locations/
vingin Center wild-valley, Jennyn	310-230-0018	https://thewrightcenter.org/home/patientcare/
Wright Center for Primary Care, Wilkes-Barre	570-581-5283	locations/
Tringin Contor for Fillinary Care, Wilkes-Dalle	370 001 0200	https://thewrightcenter.org/home/patientcare/
Wright Center Old River Road, Wilkes-Barre	570-826-5023	locations/
Volunteers in Medicine, Wilkes-Barre	570-920-3023	http://www.vimwb.org/
volunteers in Medicille, Wilkes-Dalle	310-310-2004	IIIIP.// VV VV VV. VIIIIIVVD.UIG/

Health Education, Managing Chronic Illness		
Alzheimer's Foundation of America		https://alzfdn.org/
American Association of Retired Persons		https://www.aarp.org/
American Cancer Society		https://www.cancer.org/cancer.html
American Diabetes Association		http://www.diabetes.org/
American Heart Association		https://www.heart.org/en/
American Lung Association		http://www.lung.org/
Arthritis Foundation		https://www.arthritis.org/
Asthma & Allergy Foundation of America		http://www.aafa.org/
Leukemia & Lymphoma Society		http://www.lls.org/
National Alliance on Mental Illness		https://www.nami.org/
National Multiple Sclerosis Society		https://www.nationalmssociety.org/
National Stroke Association		http://www.stroke.org/
Northeast Regional Cancer Institute	1-800-424-6724	http://cancernepa.org/
Parkinson's Foundation		http://parkinson.org/
Susan G. Komen Greater PA (Breast Cancer)		https://komengreaterpennsylvania.org/
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Mental Health/Behavioral Health Services		
		http://theadvocacyalliance.org/Contact/conta
Advocacy Alliance, Scranton	1-877-315-6855	ct.html
		http://theadvocacyalliance.org/Contact/conta
Advocacy Alliance, Wilkes-Barre	570-822-7097	<u>ct.html</u>
		https://www.allied-services.org/behavioral-
Allied Services Behavioral Health Programs	570-346-9558	<u>health/</u>
Luzerne-Wyoming Counties Mental Health &		https://www.luzernecounty.org/466/Mental-
Developmental Services, Wilkes-Barre	570-825-9441	<u>Health-Developmental-Services</u>
Scranton Counseling Center	570-348-6100	http://www.scrantonscc.org/
		https://www.merakey.org/services-
Merakey, Carbondale	570-282-1732	behavioral-health.html
		https://www.merakey.org/services-
Merakey, Wilkes-Barre	570-820-6205	behavioral-health.html
NAMI Luzerne/Wyoming Counties	570-371-3844	https://namiluzernewyomingcounties.org/
Wayne County Office of Behavioral Programs,		
Honesdale	570-253-9200	https://waynecountypa.gov/
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Transportation, including Para-Transit	1	T
County of Lackawanna Transit – Medical	570 040 0004	letter//www.coltab.co.com/
transportation, senior discounts	570-346-2061	http://www.coltsbus.com/
Luzerne County Transportation	570-288-9356	http://www.lctabus.com/
Wayne County Transportation System	570-253-4280	https://waynecountypa.gov/218/Transportation