

Johnston County

2018 Community Health Needs Assessment

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Johnston County Board of Commissioners

MAY 6, 2019

Overview of the Previous CHNA Process

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- Johnston County Public Health Department (4 year cycle)
- Johnston Health (3 year cycle)

PROCESS:

- Gather and review data
- Develop priority areas
- Devise and implement action plans
- Assess progress annually
- Utilize annual data to refine strategies

2014 – 2018 Focus Areas

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Johnston County

Public Health Department

- Access to Care (Medical and Behavioral Health)
- Obesity*
- Physical Activity and Nutrition*

*To address chronic diseases

Johnston Health

- Affordability and Accessibility
- Cancer
- Coronary Heart Disease
- Diabetes
- Mental Health and Suicide
- Physician Recruitment

CHNA 2018-19 Process

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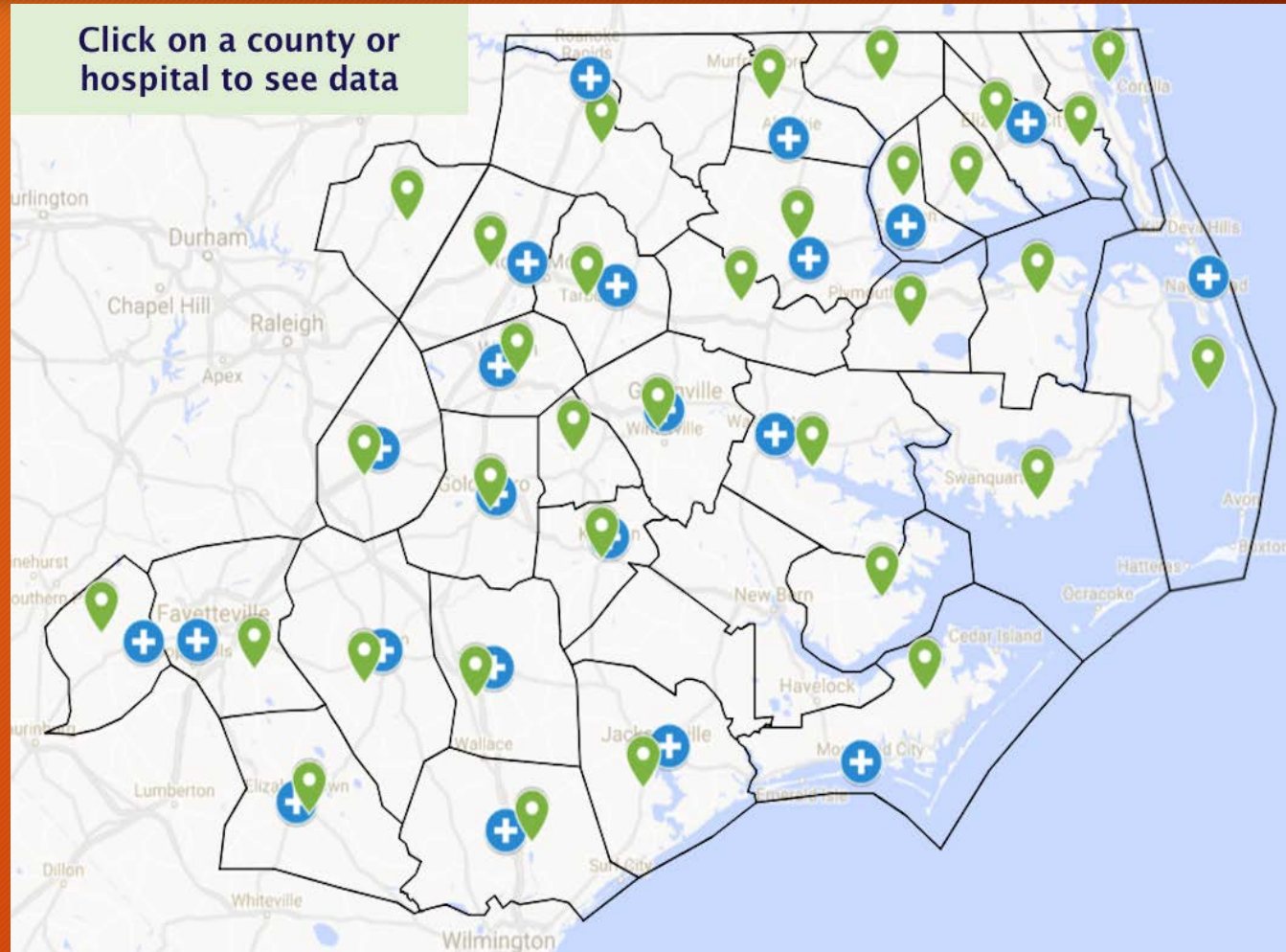
Johnston County Public Health Department and Johnston Health collaborating partners (Now on 3 year cycle)

- Additional Partners:

- ✓ Health ENC (Foundation for Health Leadership & Innovation)
- ✓ Conduent Healthy Communities Institute
- ✓ ECU Brody School of Medicine
- ✓ The Duke Endowment
- ✓ 33 eastern NC counties
- ✓ 45 organizations—22 hospitals, 21 health departments, 2 health districts
- ✓ Steering Committee

Eastern NC CHNA

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Johnston County Demographic Data

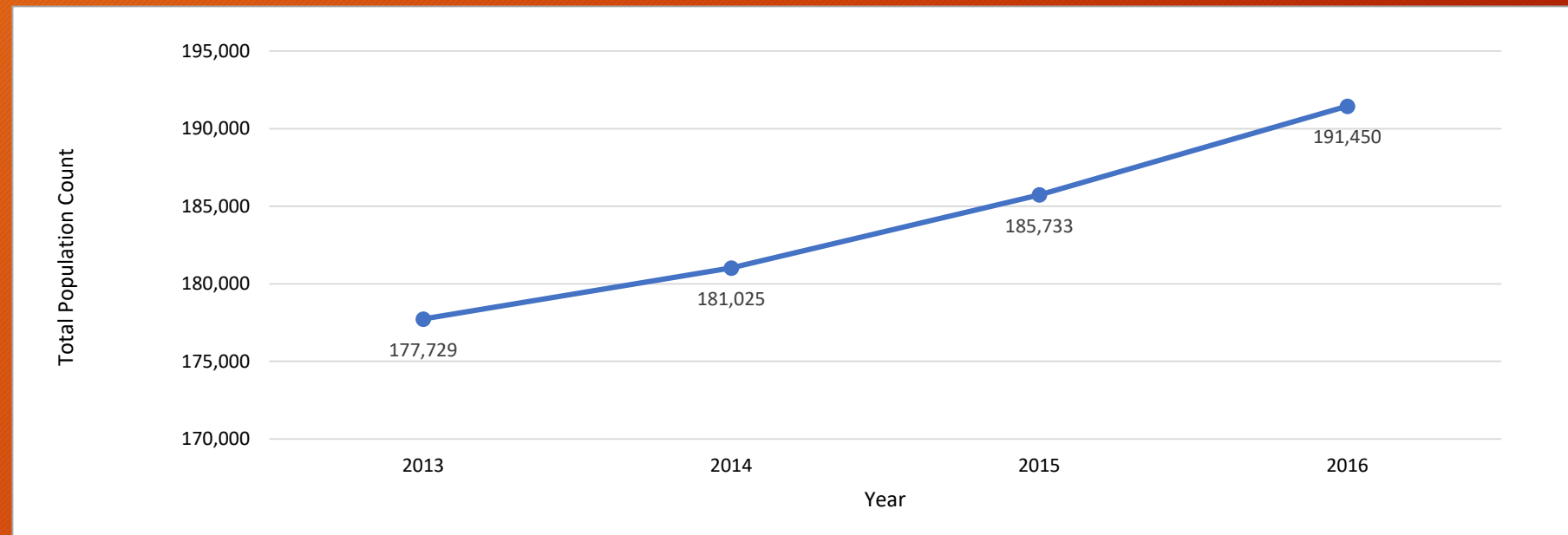
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Population

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According to the U.S. Census Bureau's 2016 population estimates, Johnston County has a population of 191,450 (Figure 9). The population of Johnston County has increased from 2013 to 2016.

Figure 9. Total Population (U.S. Census Bureau)

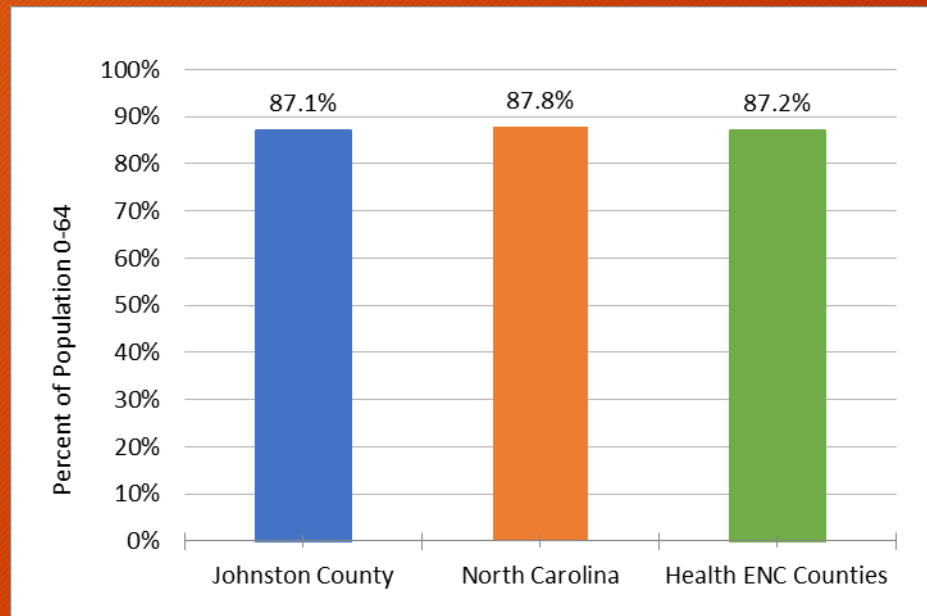


Health Insurance

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Figure 40 shows the percent of people aged 0-64 years old that have any type of health insurance coverage. The rate for Johnston County, 87.1%, is similar to the rate for North Carolina (87.8%) and the Health ENC region (87.2%). Nearly 13% of the population in Johnston County is uninsured.

Figure 40. Persons with Health Insurance (Small Area Health Insurance Estimates, 2016)

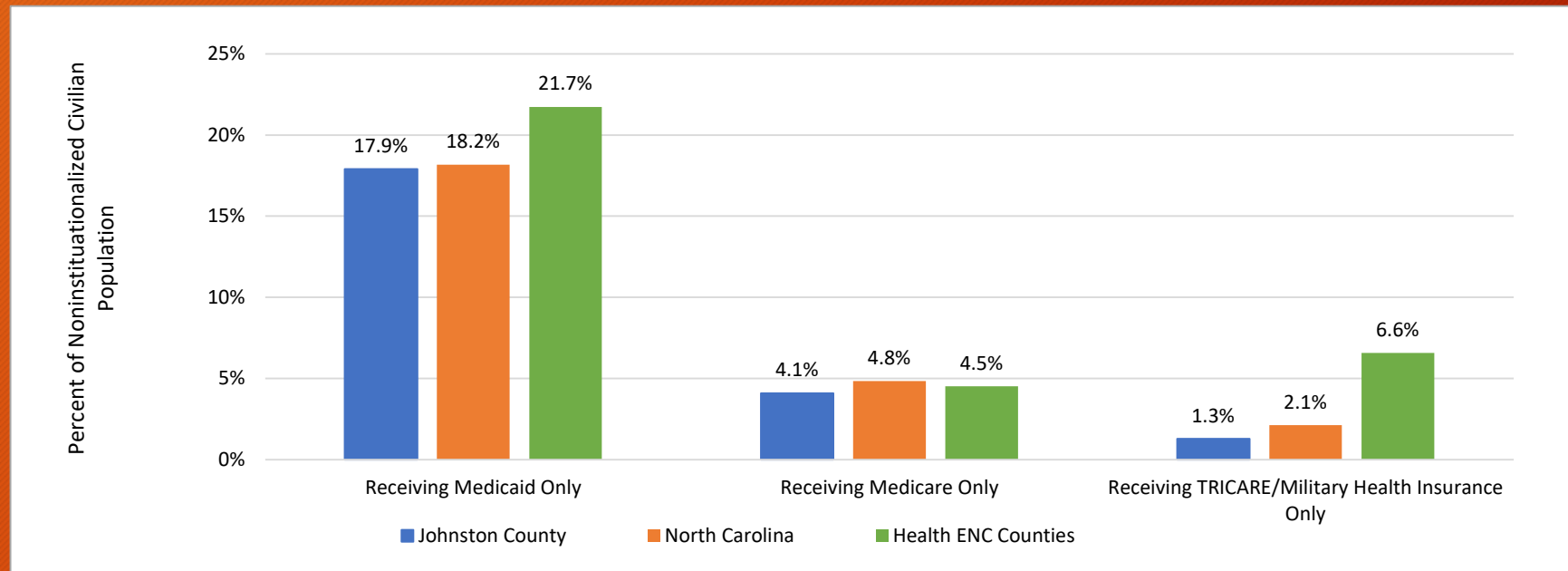


Health Insurance

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Figure 41 shows the percent of the population only receiving health insurance through Medicaid, Medicare, or military healthcare (TRICARE). Johnston County has a lower percent of people receiving Medicaid (17.9%) than North Carolina (18.2%) and Health ENC counties (21.7%). The percent of people receiving Medicare is also lower in Johnston County (4.1%) when compared to North Carolina (4.8%) and Health ENC counties (4.5%). Similarly, the percent of people receiving military health insurance is lower in Johnston County (1.3%) than in North Carolina (2.1%) and Health ENC counties (6.6%).

Figure 41. Persons Only Receiving Health Insurance through Medicaid, Medicare or Military Healthcare (American Community Survey, 2012-2016)

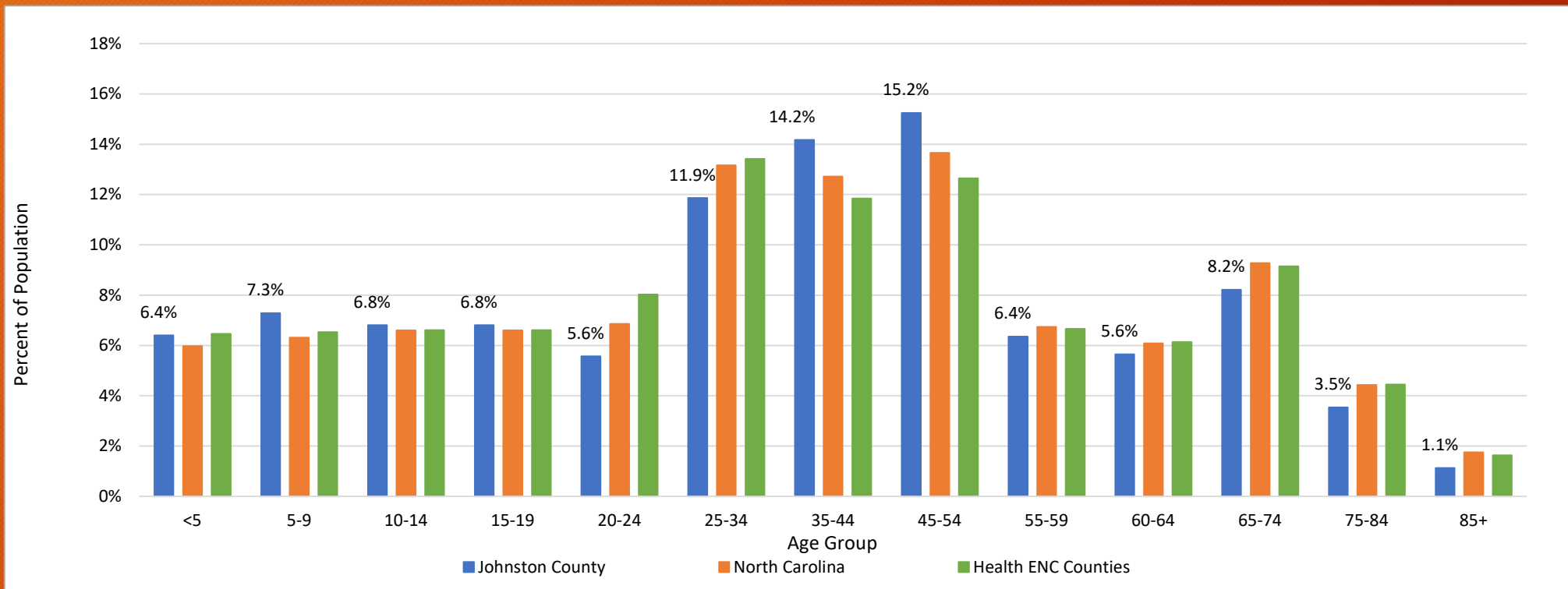


Age

10

Overall, Johnston County residents are slightly younger than residents of North Carolina and the Health ENC region. Figure 11 shows the Johnston County population by age group. The 45-54 age group contains the highest percent of the population at 15.2%, while the 35-44 age group contains the next highest percent of the population at 14.2%.

Figure 11. Population by Age (U.S. Census Bureau, 2016)

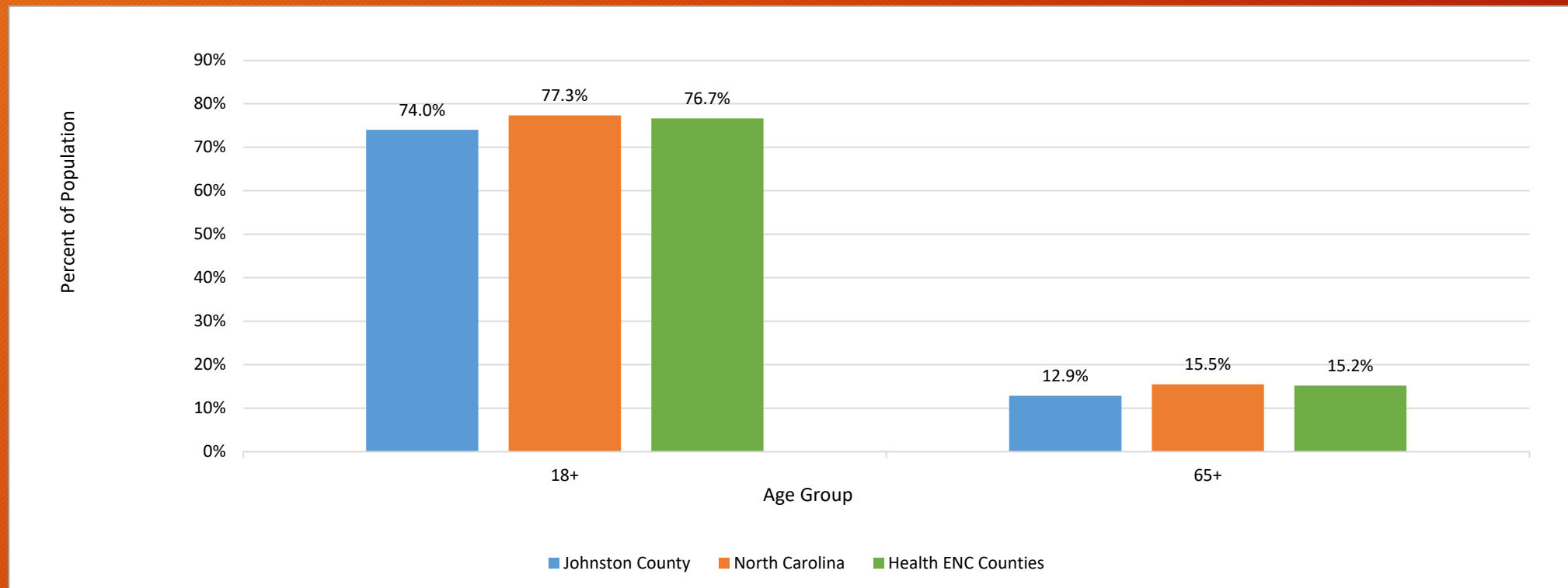


Age

11

People 65 years and older comprise 12.9% of the Johnston County population, compared to 15.5% in North Carolina and 15.2% in the Health ENC counties (Figure 12).

Figure 12. Population 18+ and 65+ (U.S. Census Bureau, 2016)

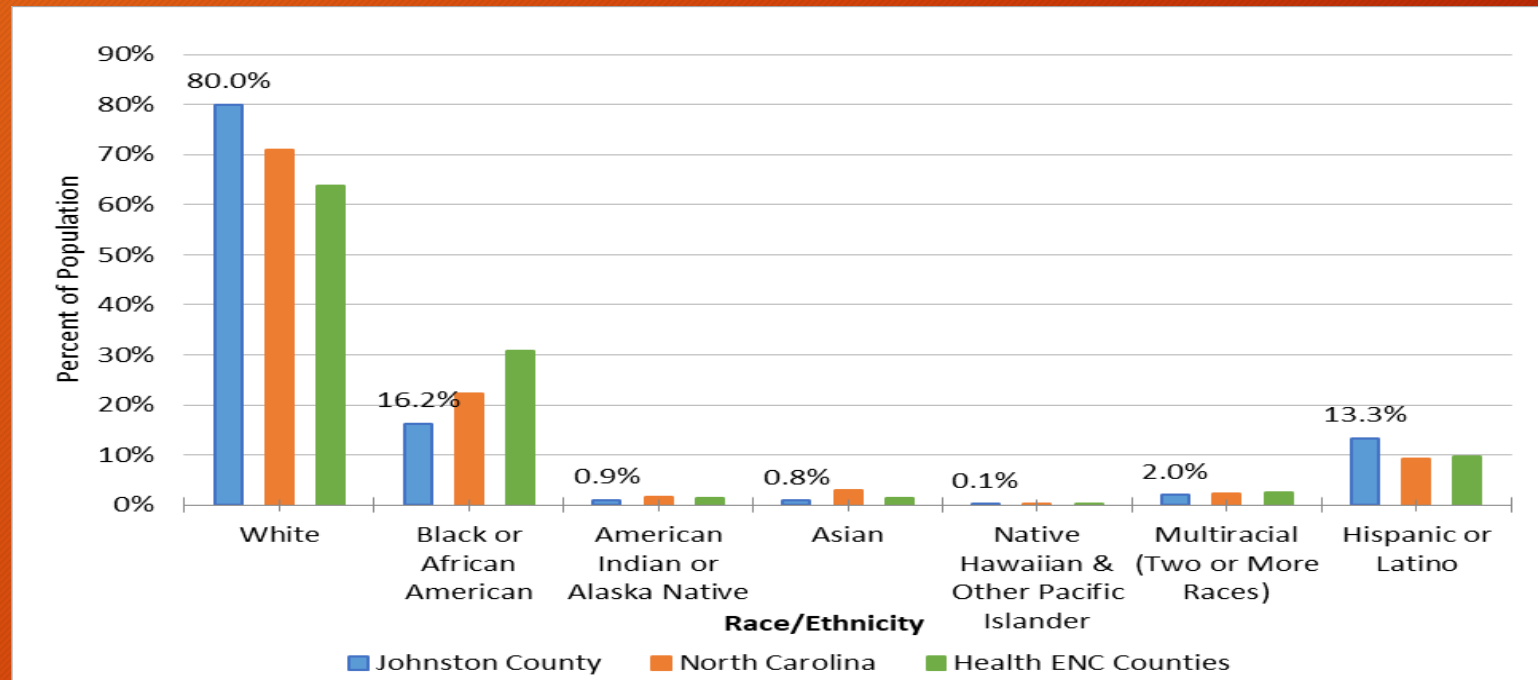


Race/Ethnicity

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Figure 14 shows the racial and ethnic distribution of Johnston County compared to North Carolina and Health ENC counties. The proportion of residents that identify as White is larger in Johnston County (80.0%) as compared to North Carolina (71.0%) and Health ENC counties (63.8%). Johnston County has a smaller share of residents that identify as Black or African American (16.2%) when compared to North Carolina (22.2%) and Health ENC counties (30.7%). The Hispanic or Latino population comprises 13.3% of Johnston County, which is a larger proportion than the Hispanic or Latino population in North Carolina (9.2%) and Health ENC counties (9.6%).

Figure 14. Population by Race/Ethnicity (U.S. Census Bureau, 2016)

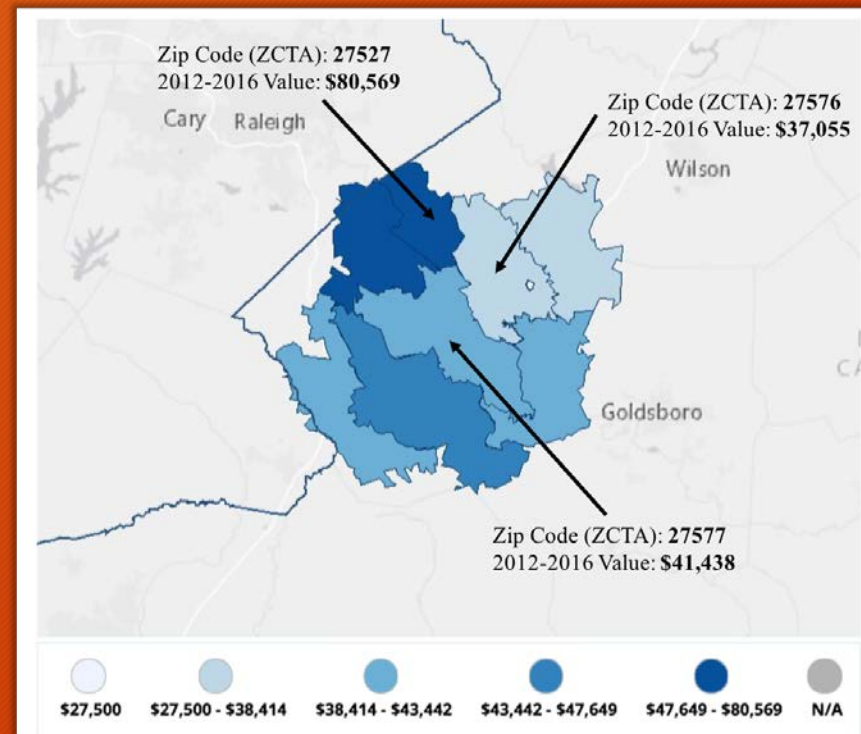


Income

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Within Johnston County, the median household income varies. For example, zip code 27527 has a median household income of \$80,569, while zip code 27576 has a median household income of \$37,055 (Figure 19).

Figure 19. Median Household Income by Zip Code (American Community Survey, 2012-2016)

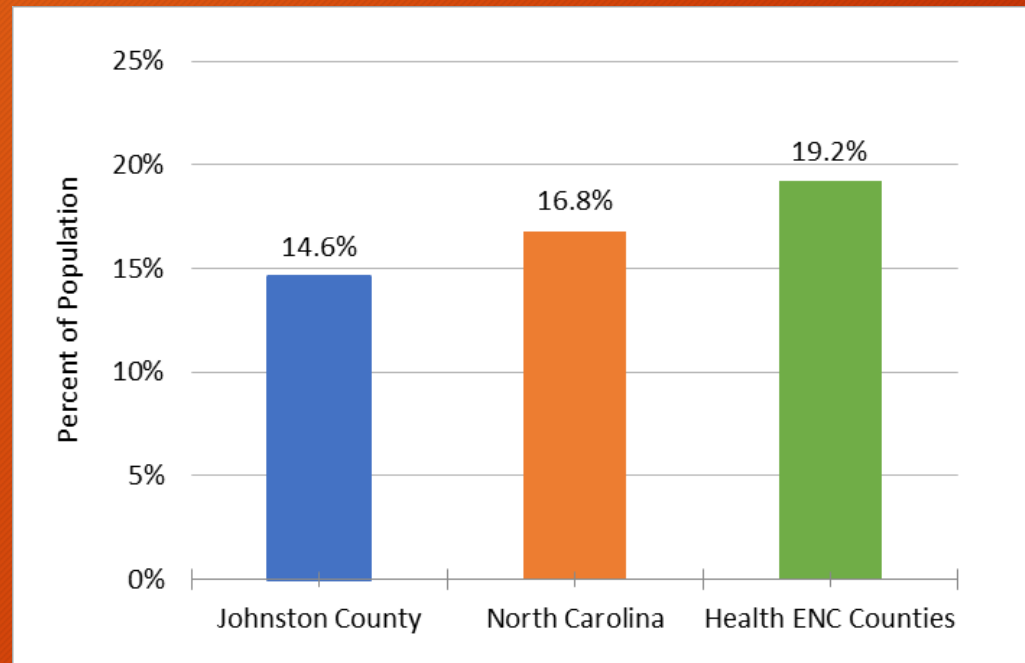


Poverty

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As seen in Figure 20, 14.6% percent of the population in Johnston County lives below the poverty level, which is lower than the rate for North Carolina (16.8% of the population) and the Health ENC region (19.2%).

Figure 20. People Living Below Poverty Level (American Community Survey, 2012-2016)



Johnston County Health Rankings

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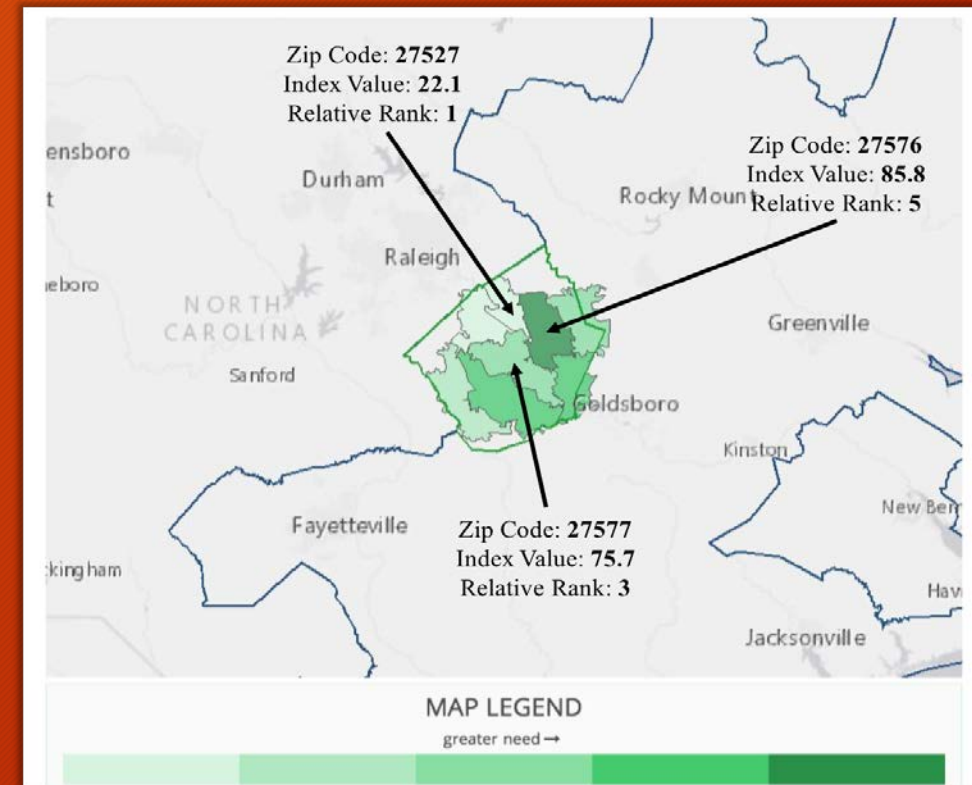
		2010	2011	2012	2013	2014	2015	2016	2017	2018
Health Outcomes		32	24	27	30	28	32	28	21	17
	Morbidity	52	44	45	30	34	35	32	25	20
	Mortality	18	12	19	29	29	37	27	15	16
Health Factors		50	52	43	38	39	40	47	34	39
	Health Behaviors	67	78	77	77	76	71	51	38	49
	Clinical Care	96	85	67	77	79	85	82	76	79
	Social and Economic Factors	23	24	18	17	16	18	16	15	16
	Physical Environment	58	49	84	33	45	36	62	81	91

Geographic Areas Affected by Focus Areas

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Table 7. SocioNeeds Index® (Conduent Healthy Communities Institute, 2018)

Zip Code	Index Value	Relative Rank
27576	85.8	5
27569	82.1	4
27524	79.2	4
27577	75.7	3
27542	73.2	3
27504	65.1	2
27520	28.3	1
27527	22.1	1

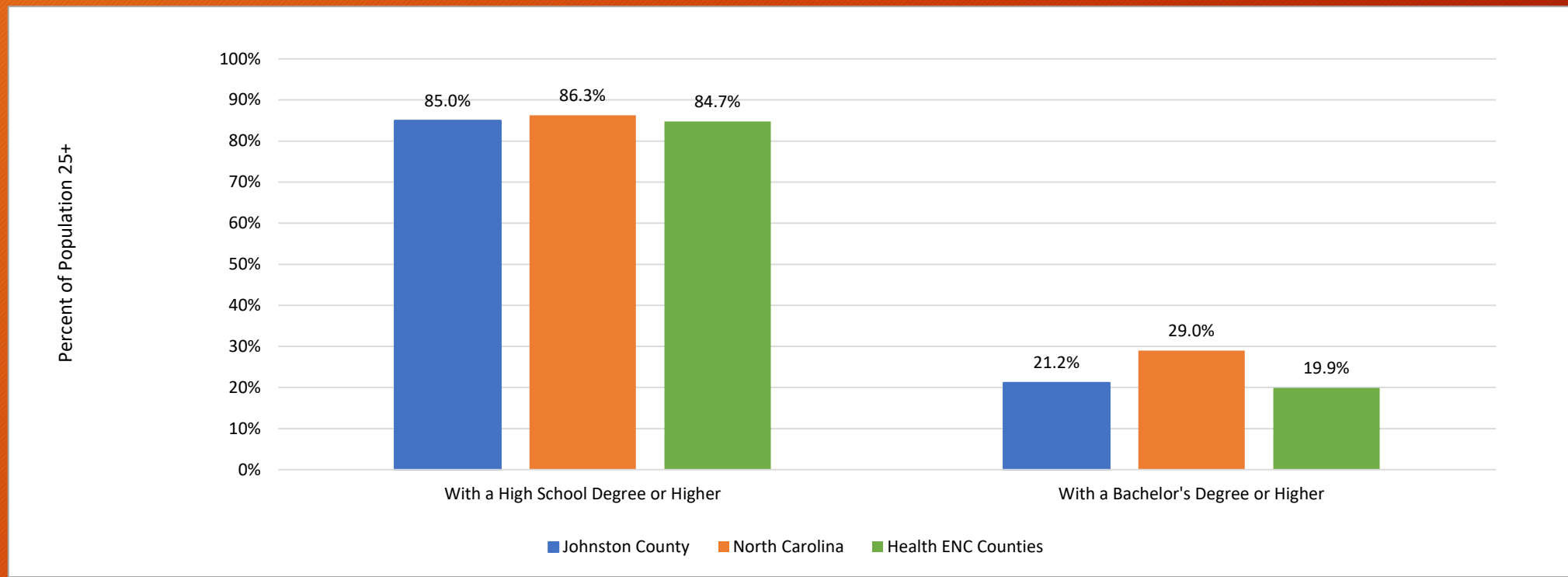


Educational Attainment

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Countywide, the percent of residents 25 or older with a high school degree or higher (85.0%) is slightly lower than the state value (86.3%) and slightly higher than the regional value (84.7%) (Figure 28). Higher educational attainment in Johnston County is lower than the state value and slightly higher than the regional value. While 29.0% of residents 25 and older have a bachelor's degree or higher in North Carolina, the rate drops to 21.2% in Johnston County and 19.9% in Health ENC counties (Figure 28).

Figure 28. People 25+ with a High School Degree or Higher and Bachelor's Degree or Higher (American Community Survey, 2012-2016)

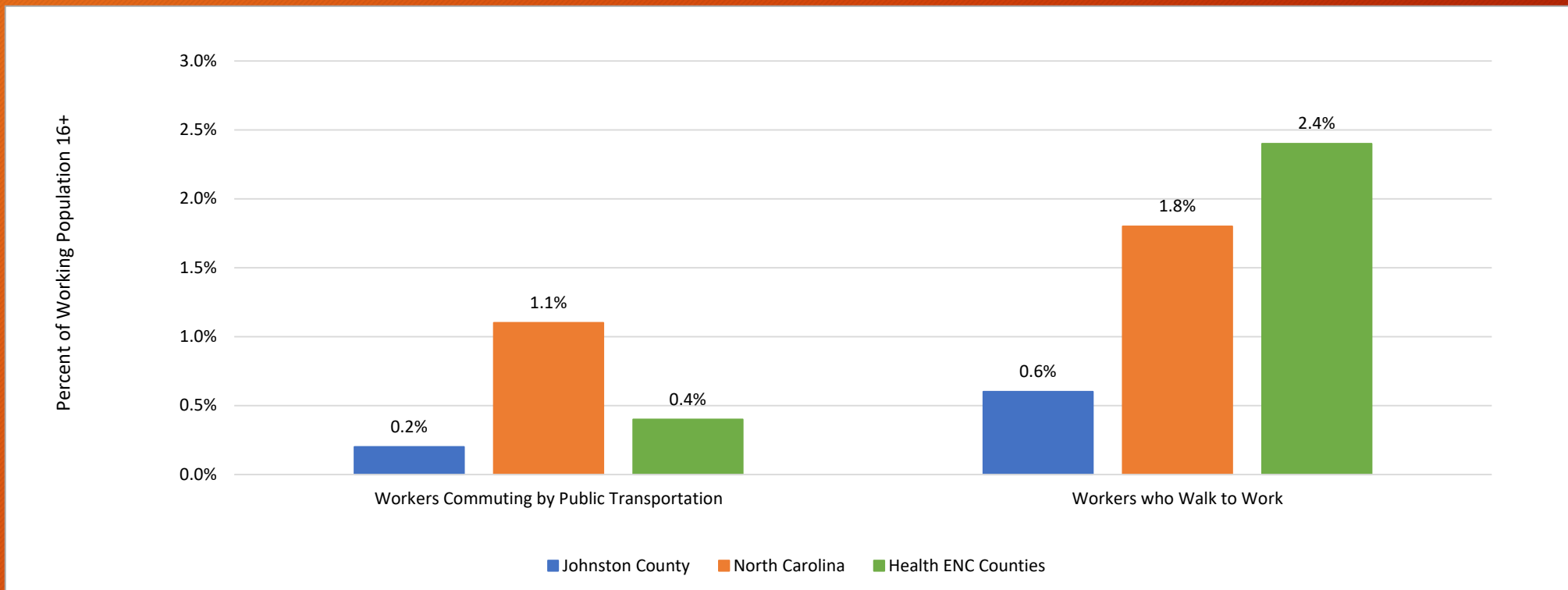


Transportation

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Countywide, 0.6% of residents walk to work, compared to the state value of 1.8% and the regional value of 2.4%. Public transportation is rare in Johnston County, with an estimated 0.2% of residents commuting by public transportation, compared to the state value of 1.1% and the regional value of 0.4% (Figure 32).

Figure 32. Mode of Commuting to Work (American Community Survey, 2012-2016)



Primary and Secondary Data Results

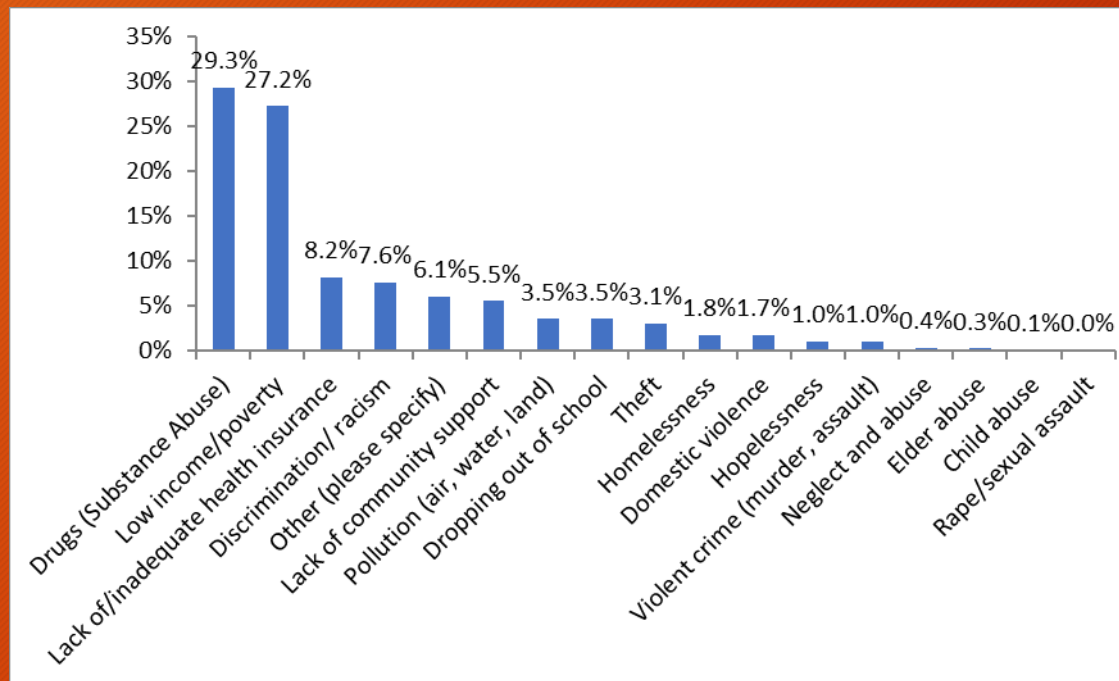
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Community Survey

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Figure 44 shows the list of community issues that were ranked by residents as most affecting the quality of life in Johnston County. Drugs/substance abuse was the most frequently selected issue and was ranked by 29.3% of survey respondents, followed by low-income/poverty. Less than 1% of survey respondents selected neglect and abuse, elder abuse, child abuse and rape/sexual assault as issues most affecting the quality of life in Johnston County.

Figure 44. Top Quality of Life Issues, as Ranked by Survey Respondents

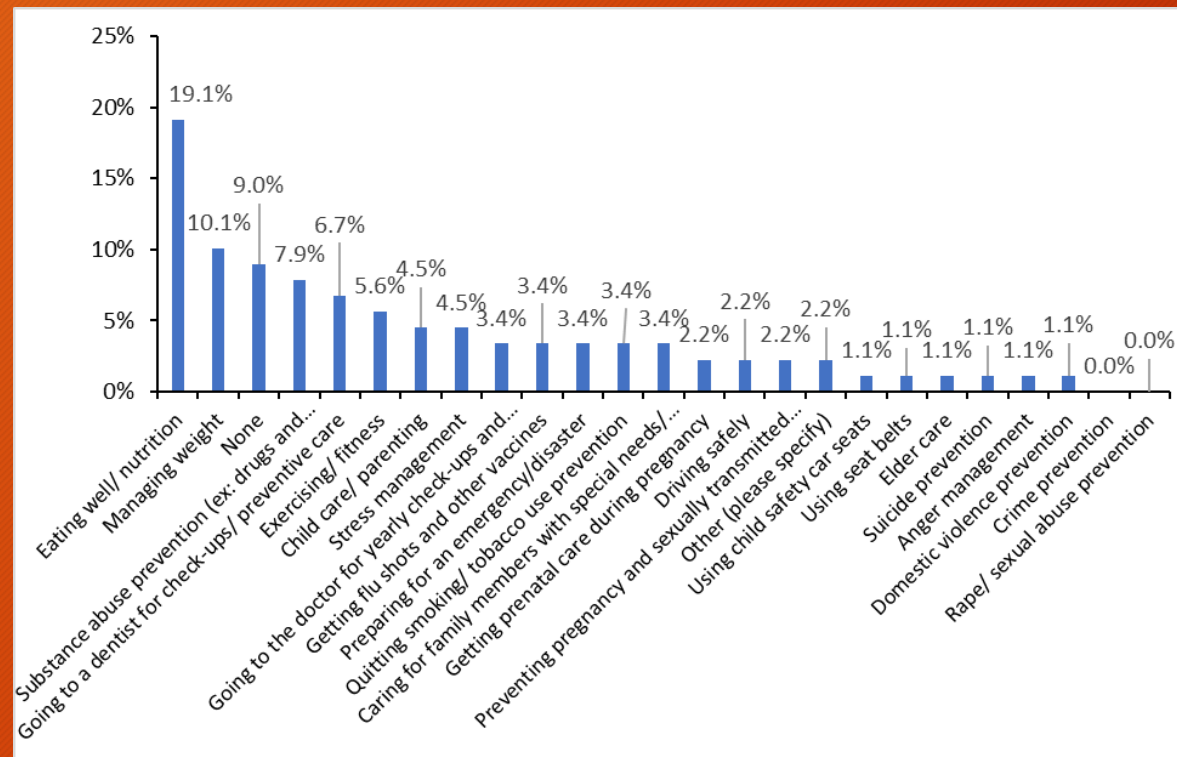


Community Survey

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Figure 49b shows a list of health behaviors that were ranked by residents as topics that Johnston County residents need more information about. Eating well/nutrition was the most frequently selected by Spanish survey respondents (19.1%).

Figure 49b. Health Behaviors that Residents Need More Information About, As Ranked by Survey Respondents-Spanish

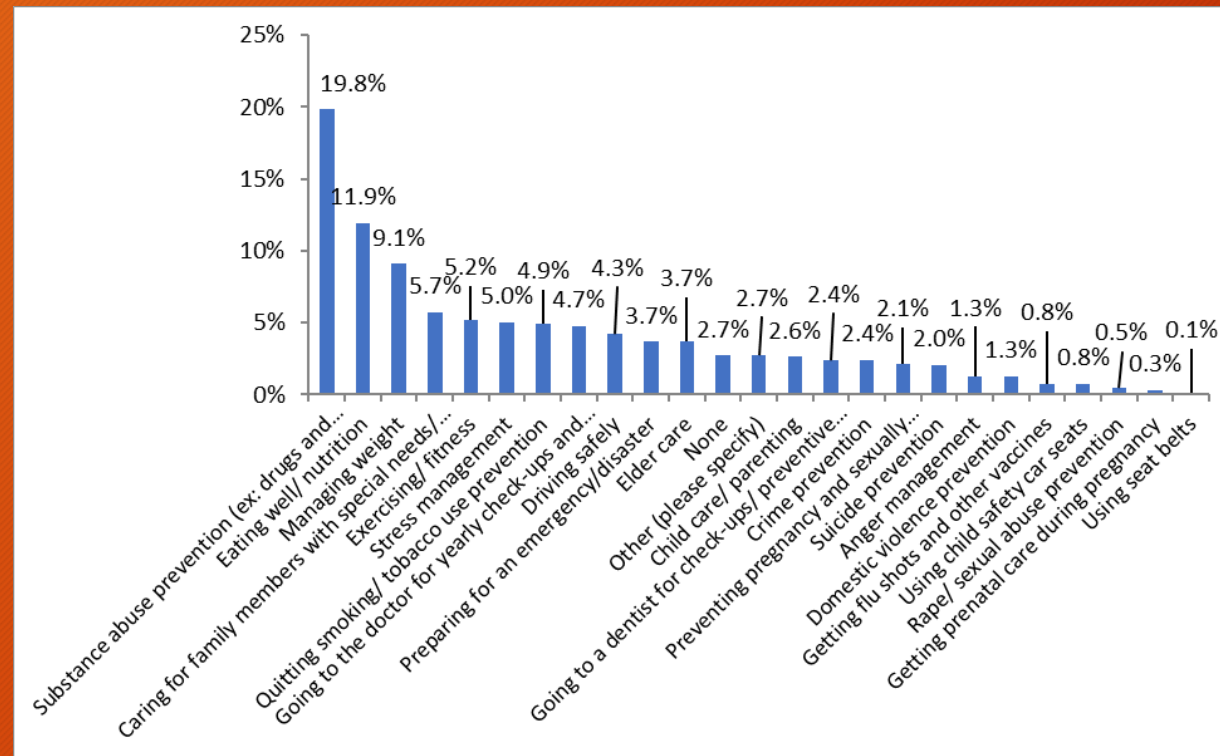


Community Survey

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Figure 49 a shows a list of health behaviors that were ranked by residents as topics that Johnston County residents need more information about. Substance abuse prevention was the most frequently selected issue by English survey respondents (19.8%).

Figure 49a. Health Behaviors that Residents Need More Information About, As Ranked by Survey Respondents-English



Focus Group Results by Topic Area

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Topic Area (Code) Frequency

- | | |
|---------------------------------|----|
| • Exercise, Nutrition, & Weight | 24 |
| • Economy | 18 |
| • Transportation | 12 |
| • Low-Income/Underserved | 12 |
| • Access to Health Services | 10 |

Primary Data Summary

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- 1151 surveys completed (1054 English; 97 Spanish)
Criteria for identifying top needs: Quality of Life*
 - Economy
 - Social Environment
 - Substance Abuse
- 4 Focus Groups (68 participants)
Criteria for identifying top needs: Challenges to achieving health; concerns or barriers in context of need*
 - Economy
 - Exercise, Nutrition, & Weight
 - Transportation

Secondary Data Summary

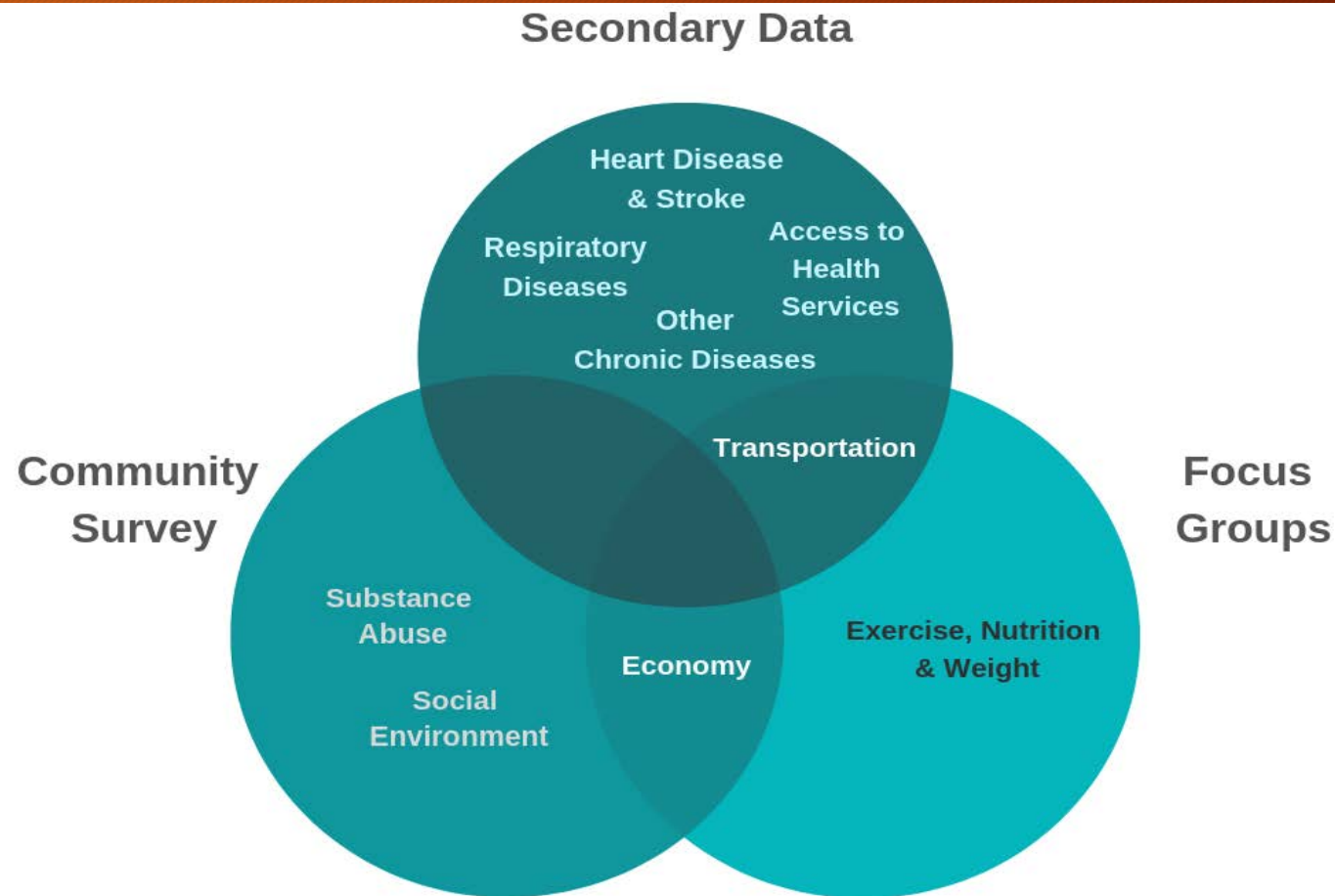
Table 8 shows the data scoring results for Johnston County by topic area. Topics with higher scores indicate greater need. Heart Disease & Stroke is the poorest performing health topic for Johnston County, followed by Access to Health Services, Respiratory Diseases, Other Chronic Diseases and Transportation.

Table 8. Secondary Data Scoring Results by Topic Area

Health Topic	Score
Heart Disease & Stroke	2.03
Access to Health Services	1.99
Respiratory Diseases	1.98
Other Chronic Diseases	1.92
Transportation	1.89

Data Synthesis

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High Scoring Areas of Need

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All High Scoring Topic Areas

- Access to Health Services*
- Economy
- Exercise, Nutrition & Weight
- Heart Disease & Stroke*
- Other Chronic Diseases*
- Respiratory Diseases*
- Social Environment
- Substance Abuse
- Transportation*

5 Highest Scoring Topic Areas

- Access to Health Services
- Heart Disease & Stroke
- Other Chronic Diseases
- Respiratory Diseases
- Transportation

Priority Setting

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Priority Setting Exercise Participants

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Behavioral Health Advisory Council

Community and Senior Services

Child Care Providers

Faith Network

Johnston County Schools Round Table

Johnston Health Cancer Committee

Johnston Health Leadership Team

JH Patient-Family Advisors

Network on Aging

Opioid Task Force

Public Health Leadership Team

Safety Net Collaborative

St. Marks A.M.E. Church

Truancy Intervention Partnership

Priority Setting Exercise Results

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Rankings differed from survey rankings in most areas. Prioritization participants provided higher rankings for transportation and access to health services than the initial survey. Substance abuse/mental health concerns was a top priority for the survey group and the prioritization participants. The following are the top priorities from the prioritization surveys:

1. Substance Abuse/Mental Health
2. Transportation
3. Access to health services
4. Heart Disease and Stroke
5. Exercise, Nutrition, and Weight
6. Other Chronic Diseases
7. Respiratory Diseases
8. Social Environment
9. Economy

Priority Setting Exercise Results

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Other areas of need listed:

- Affordable housing
- Community Education and knowledge about county resources
- Medication costs
- Senior Day Treatment Programs
- Access to healthy foods
- Cancer
- Other Chronic Diseases (Diabetes, COPD)

Selected Priority Focus Areas

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1. Access to Health Services
2. Mental Health/Substance Abuse
3. Heart Disease & Stroke
4. Respiratory Diseases
5. Transportation

Access to Health Services

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SCORE	ACCESS TO HEALTH SERVICES	MEASUREMENT PERIOD	UNITS	JOHNSTON COUNTY	NORTH CAROLINA	U.S.	HP2020	HEALTHY NC 2020	HIGH DISPARITY*	SOURCE
2.30	Dentist Rate	2016	dentists/ 100,000 population	22.5	54.7	67.4				5
2.30	Preventable Hospital Stays: Medicare Population	2014	discharges/ 1,000 Medicare enrollees	72.2	49	49.9				20
2.30	Primary Care Provider Rate	2015	providers/ 100,000 population	30.2	70.6	75.5				5
2.10	Mental Health Provider Rate	2017	providers/ 100,000 population	86.2	215.5	214.3				5
1.93	Adults with Health Insurance	2016	percent	82.7	84.9	88	100		Hispanic or Latino	1
1.93	Children with Health Insurance	2016	percent	94	95.5	95.5	100			1
1.80	Non-Physician Primary Care Provider Rate	2017	providers/ 100,000 population	60.6	102.5	81.2				5
1.73	Clinical Care Ranking	2018	ranking	79						5
1.48	Persons with Health Insurance	2016	percent	87.1	87.8		100	92		19

Mental Health

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SCORE	MENTAL HEALTH & MENTAL DISORDERS	MEASUREMENT PERIOD	UNITS	JOHNSTON COUNTY	NORTH CAROLINA	U.S.	HP2020	HEALTHY NC 2020	HIGH DISPARITY*	SOURCE
2.35	Depression: Medicare Population	2015	percent	19.1	17.5	16.7				4
2.10	Mental Health Provider Rate	2017	providers/ 100,000 population	86.2	215.5	214.3				5
1.80	Alzheimer's Disease or Dementia: Medicare Population	2015	percent	9.7	9.8	9.9				4
1.65	Poor Mental Health: Average Number of Days	2016	days	4	3.9	3.8		2.8		5
1.58	Age-Adjusted Death Rate due to Suicide	2012-2016	deaths/ 100,000 population	12	12.9	13	10.2	8.3		18
1.28	Age-Adjusted Death Rate due to Alzheimer's Disease	2012-2016	deaths/ 100,000 population	22.5	31.9	26.6				18
1.05	Frequent Mental Distress	2016	percent	12.2	12.3	15				5

Substance Abuse

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SCORE	SUBSTANCE ABUSE	MEASUREMENT PERIOD	UNITS	JOHNSTON COUNTY	NORTH CAROLINA	U.S.	HP2020	HEALTHY NC 2020	HIGH DISPARITY*	SOURCE
1.80	Adults who Smoke	2016	percent	17.8	17.9	17	12	13		5
1.65	Adults who Drink Excessively	2016	percent	18	16.7	18	25.4			5
1.43	Health Behaviors Ranking	2018	ranking	49						5

Heart Disease & Stroke

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SCORE	HEART DISEASE & STROKE	MEASUREMENT PERIOD	UNITS	JOHNSTON COUNTY	NORTH CAROLINA	U.S.	HP2020	HEALTHY NC 2020	HIGH DISPARITY*	SOURCE
2.50	Hyperlipidemia: Medicare Population	2015	percent	51.6	46.3	44.6				4
2.30	Ischemic Heart Disease: Medicare Population	2015	percent	35.7	24	26.5				4
2.00	Hypertension: Medicare Population	2015	percent	62.6	58	55				4
1.95	Atrial Fibrillation: Medicare Population	2015	percent	8	7.7	8.1				4
1.95	Heart Failure: Medicare Population	2015	percent	15.2	12.5	13.5				4
1.90	Stroke: Medicare Population	2015	percent	4.1	3.9	4				4
1.83	Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	2012-2016	deaths/ 100,000 population	41.9	43.1	36.9	34.8			18
1.80	Age-Adjusted Death Rate due to Heart Disease	2012-2016	deaths/ 100,000 population	199	161.3			161.5		18

Respiratory Diseases

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SCORE	RESPIRATORY DISEASES	MEASUREMENT PERIOD	UNITS	JOHNSTON COUNTY	NORTH CAROLINA	U.S.	HP2020	HEALTHY NC 2020	HIGH DISPARITY*	SOURCE
2.50	Asthma: Medicare Population	2015	percent	9.8	8.4	8.2				4
2.50	COPD: Medicare Population	2015	percent	15.7	11.9	11.2				4
2.43	Tuberculosis Incidence Rate	2014	cases/ 100,000 population	3.4	2	3	1			12
2.25	Age-Adjusted Death Rate due to Lung Cancer	2010-2014	deaths/ 100,000 population	56.4	50.7	44.7	45.5			8
1.95	Lung and Bronchus Cancer Incidence Rate	2010-2014	cases/ 100,000 population	76.1	70	61.2			Male	8
1.33	Age-Adjusted Death Rate due to Influenza and Pneumonia	2012-2016	deaths/ 100,000 population	15.9	17.8	14.8		13.5		18
0.90	Age-Adjusted Hospitalization Rate due to Asthma	2014	hospitalizations/ 10,000 population	67.2	90.9					11

Transportation

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SCORE	TRANSPORTATION	MEASUREMENT PERIOD	UNITS	JOHNSTON COUNTY	NORTH CAROLINA	U.S.	HP2020	HEALTHY NC 2020	HIGH DISPARITY*	SOURCE
2.50	Mean Travel Time to Work	2012-2016	minutes	29.4	24.1	26.1			Male	1
2.50	Solo Drivers with a Long Commute	2012-2016	percent	47.8	31.3	34.7				5
2.45	Workers who Walk to Work	2012-2016	percent	0.6	1.8	2.8	3.1		Other	1
2.20	Workers Commuting by Public Transportation	2012-2016	percent	0.2	1.1	5.1	5.5		20-24	1
1.90	Workers who Drive Alone to Work	2012-2016	percent	83.8	81.1	76.4			Female, Native Hawaiian or Other Pacific Islander, White, non-Hispanic	1
1.20	Households with No Car and Low Access to a Grocery Store	2015	percent	2.6						23
0.50	Households without a Vehicle	2012-2016	percent	4.4	6.3	9				1

Populations Most Impacted by Focus Areas

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Focus Area

- Access to health services
- Mental Health/Substance Abuse
- Heart Disease & Stroke
- Respiratory Diseases
- Transportation

Most Impacted Population

- Elderly, Disabled, Hispanic/Latino, Uninsured
- Teens, Young Adults
- Medicare population
- Medicaid population
- Rural areas and high socioeconomic index

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Timeline

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- March 28th Johnston Health Board Presentation
- April 2nd Submit CHNA with Focus Areas to DPH
- April 9th Johnston County Board of Health Presentation
- April - May Engage Partners/Develop Implementation Plans
- May 23rd Johnston Health Board Approval
- July 9th Johnston County Board of Health Approval
- September 3rd Deadline to Submit Implementation Plans to DPH

CHNA Contacts

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