

# AdventHealth Palm Coast\*

## 2019 COMMUNITY HEALTH NEEDS ASSESSMENT



\*Memorial Hospital - Flagler, Inc. d/b/a AdventHealth Palm Coast

Approved by the Hospital Board on: November 14, 2019

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Extending the Healing  
Ministry of Christ



**AdventHealth**

# 2019 Community Health Needs Assessment

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This report was prepared by Debi McNabb, Director Community Benefit, Central Florida Division – North Region, with contributions from members of the AdventHealth Palm Coast Community Health Needs Assessment Committee representing health leaders in our community and AdventHealth Palm Coast leaders.

A special thanks to the Florida Department of Health in Volusia County and Flagler Cares for their expertise and support in the collection and analysis of the data.

We are especially grateful to all those who participated in our household surveys and key informant interviews. Their contributions made this report possible and lay the groundwork as we continue to fulfill our mission of *Extending the Healing Ministry of Christ*.

# 1. EXECUTIVE SUMMARY

## Goals

Memorial Hospital - Flagler, Inc. d/b/a AdventHealth Palm Coast will be referred to in this document as AdventHealth Palm Coast or “The Hospital”. AdventHealth Palm Coast in Palm Coast, FL, conducted a community health needs assessment in 2019. The goals of the assessment were to:

- Engage public health and community stakeholders including low-income, minority and other underserved populations
- Assess and understand the community’s health issues and needs
- Understand the health behaviors, risk factors and social determinants that impact health
- Identify community resources and collaborate with community partners
- Publish the Community Health Needs Assessment
- Use assessment findings to develop and implement a 2020-2022 Community Health Plan based on AdventHealth Palm Coast’s prioritized issues

## Community Health Needs Assessment Committee

In order to ensure broad community input, AdventHealth Palm Coast created a Community Health Needs Assessment Committee (CHNAC) to help guide the Hospital through the assessment process. The CHNAC included representation from the Hospital, public health experts, and the broad community. This included intentional representation from low-income, minority and other underserved populations.

The CHNAC met two times in 2018-2019. They reviewed the primary and secondary data, helped define the priority issues to be addressed by the Hospital, and helped develop the Community Health Plan to address the priority issues. *See Section 5 for a list of CHNAC members.*

## Data

AdventHealth Palm Coast collected both primary and secondary data. The primary data included a county health survey.

Secondary data sources included internal Hospital utilization data (inpatient and emergency department). This utilization data showed the top reasons for visits to AdventHealth Palm Coast over the past year. In addition, we utilized publicly available data from state and nationally recognized data sources. *See Section 7 for a list of data sources.*

Primary and secondary data was then compiled and analyzed in order to identify the top 8-12 aggregate issues from the various sources of data.

## Community Asset Inventory

The next step was a community Asset Inventory. This inventory was designed to help AdventHealth Palm Coast and the CHNAC to:

- Understand existing community efforts to address the 8-12 identified issues from aggregate primary and secondary data;
- Prevent duplication of efforts as appropriate. *See Section 9 for the Asset Inventory*

## Selection Criteria

Using the data findings and the Community Asset Inventory, the CHNAC prioritized the list of 8-12 issues.

The priority selection process was guided by clearly defined criteria to select the top issues to address. See *Section 10 for the Priority Selection Report*.

The priority selection criteria included:

### A. Health Priority Considerations

- Magnitude
- Severity
- Impact on Vulnerable Populations
- Trend Direction
- Comparison
- Relationship to other Issues
- Importance of the Issue

### B. Solution Considerations

- Efficacious Intervention
- Community Readiness
- Current Capacity
- Economic Impact

## Priority Issues to be Addressed

The priority issues to be addressed include:

1. Adult Behavioral Health
2. Youth Behavioral Health
3. Cardiovascular Diseases and Diabetes (and Healthy Eating and Physical Activity)
4. Mothers and Children Under Age 5
5. Family Violence

See *Section 11-12 for an explanation of priority issues which were chosen as well as those not chosen*.

## Approvals

On November 14, 2019, the AdventHealth Palm Coast Board approved the Community Health Needs Assessment findings, priority issues and final report. A link to the 2019 Community Health Needs Assessment was posted on the Hospital's website as well as <https://www.adventhealth.com/community-health-needs-assessments> prior to December 31, 2019.

## Next Steps

The CHNAC will work with AdventHealth Palm Coast to develop a measurable 2020-2022 Community Health Plan to address the priority issues. The plan will be completed and posted on the Hospital's website prior to May 15, 2020.

## **2. ABOUT: ADVENTHEALTH PALM COAST**

### **TRANSITION TO ADVENTHEALTH**

In January of 2019, every wholly-owned entity across our organization adopted the AdventHealth system brand. Our identity has been unified to represent the full continuum of care our system offers. Throughout this report, we will refer to our facility by AdventHealth Palm Coast. Any reference to our 2016 Community Health Needs Assessment in this document will utilize our new name for consistency.

AdventHealth Palm Coast in Palm Coast, FL is part of AdventHealth. With a sacred mission of Extending the Healing Ministry of Christ, AdventHealth is a connected system of care for every stage of life and health. More than 80,000 skilled and compassionate caregivers in physician practices, hospitals, outpatient clinics, skilled nursing facilities, home health agencies and hospice centers provide individualized, holistic care. A Christian mission, shared vision, common values and service standards focus on whole-person health, and commitment to making communities healthier.

### **About AdventHealth Palm Coast**

AdventHealth Palm Coast is part of AdventHealth, the nation's largest not-for-profit Protestant healthcare provider system with a mission to extend the healing ministry of Christ. AdventHealth Palm Coast has 99 licensed beds with 8,099 inpatient admissions in 2018. AdventHealth Palm Coast employs 1,011 team members, of which nearly 75 percent live in Flagler County. AdventHealth Palm Coast continues to grow with the community and is now comprised of the Hospital's main campus; Town Center Surgery, a freestanding outpatient center; Hospice and Home Care services; and the Parkway Medical Plaza that includes a walk-in clinic, laboratory, imaging and women's center and physician offices. A free-standing Emergency Room is planned for 2020 off Matanzas Woods Parkway in Palm Coast.

### **3. CHOOSING THE COMMUNITY**

AdventHealth Palm coast defined its community as its Primary Service Area (PSA) from which 82% of its patients come. This includes Flagler County and the zip codes 32110, 32137 and 32164.

# 4. COMMUNITY DESCRIPTION AND DEMOGRAPHICS

In order to understand our community and the challenges faced, AdventHealth Palm Coast looked at both demographic information for the service area population, as well as available data on social determinants of health. According to the Center for Disease Control and Prevention, Social determinants of health include conditions in the places where people live, learn, work, and play which affect a wide range of health risks and outcomes. A snapshot of our community demographics and characteristics is included below. *Secondary report data and methodology can be found in Appendix B.*

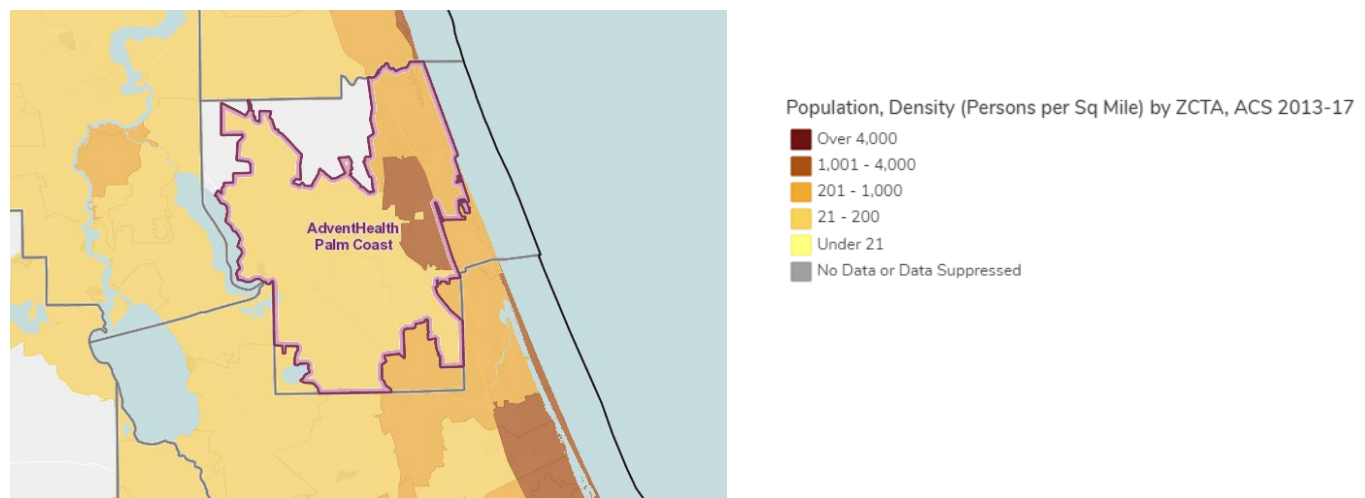
## Community Description

Flagler County, so named for Henry Morrison Flagler who built the Florida East Coast Railway, is on the east coast of the U.S. State of Florida. Flagler County encompasses 571 square miles in an area consisting of 485 square miles of land and 86 square miles of water in Northeast Florida. It is approximately 30 miles south of downtown Jacksonville with a diverse geography and culture. The Atlantic Ocean defines the eastern boundary of the county for 19 miles.

Flagler County is comprised of five municipalities - Beverly Beach, Bunnell, Flagler Beach, Marineland, and Palm Coast. The municipalities have incorporated about 48 percent of the land within Flagler County. The majority of the county's population lives in Palm Coast and the city of Bunnell has the largest land mass.

A total of 95,207 people live in the 431 square mile report area defined for this assessment according to the U.S. Census Bureau American Community Survey 2013-17 5-year estimates. The population density for this area, estimated at 220.7 persons per square mile, is greater than the national average population density of 90.88 persons per square mile.

The map below represents the service area where 82% of AdventHealth Palm Coast's patients come from.



**Source:** US Census Bureau, [American Community Survey](#). 2013-17.

Flagler County was home to 110,510 individuals in 2017. The largest city in Flagler County is Palm Coast with an estimated population of 86,516. The City of Bunnell is the county seat with 2,907 residents. Just over 18% of the population live in unincorporated Flagler County.

## 2017 City Population

2017 POPULATION BY CITY		
City	Estimate	Percent
Beverly Beach	400	0.4%
Bunnell	2,907	2.6%
Flagler Beach	4,985	4.4%
Marineland	17	0.0%
Palm Coast	86,516	74.5%
Unincorporated Flagler County*	15,685	18.1%
<b>TOTAL Flagler County</b>	<b>110,510</b>	<b>100.0%</b>

Source: U.S. Census Bureau

\*Calculated by subtracting total of city populations from county population

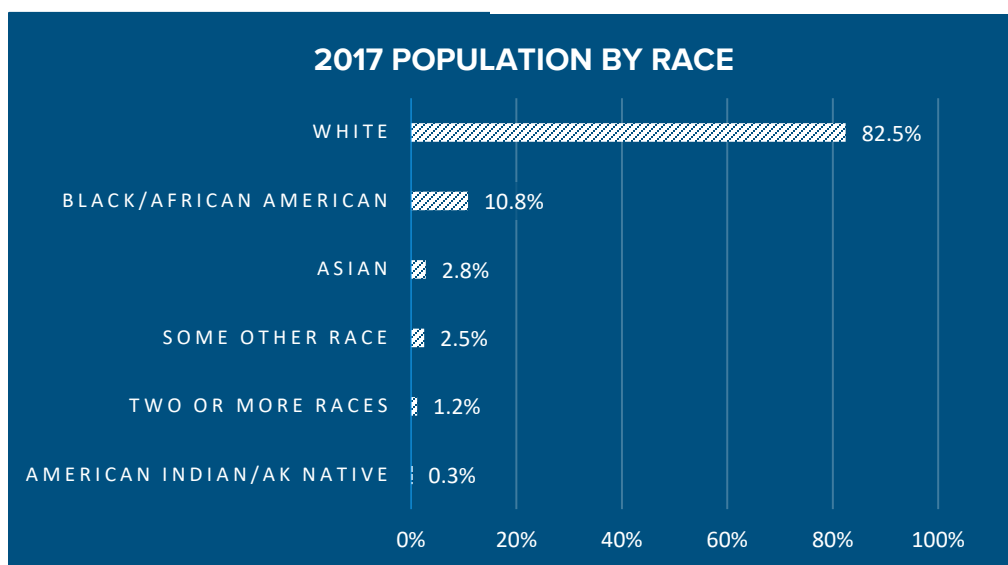
## Community Demographics

2017 POPULATION BY GENDER		
Gender	Estimate	Percent
Male	53,251	48.2%
Female	57,259	51.8%
Total	110,510	100.0%

Source: U.S. Census Bureau, 2017 American Community Survey 1-Year Estimates

2017 POPULATION BY ETHNICITY		
Ethnicity	Estimate	Percent
Hispanic/Latino	11,546	10.4%
Not Hispanic/Latino	98,964	89.6%
Total	110,510	100.0%

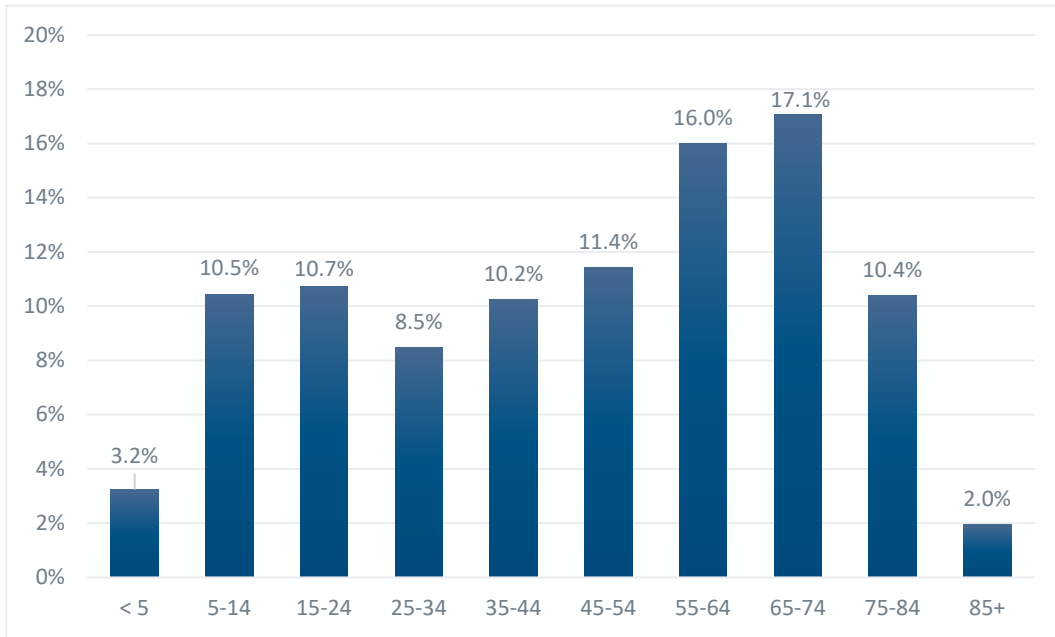
Source: U.S. Census Bureau, 2017 American Community Survey 1-Year Estimates



Source: U.S. Census Bureau, 2017 American Community Survey 1-Year Estimates

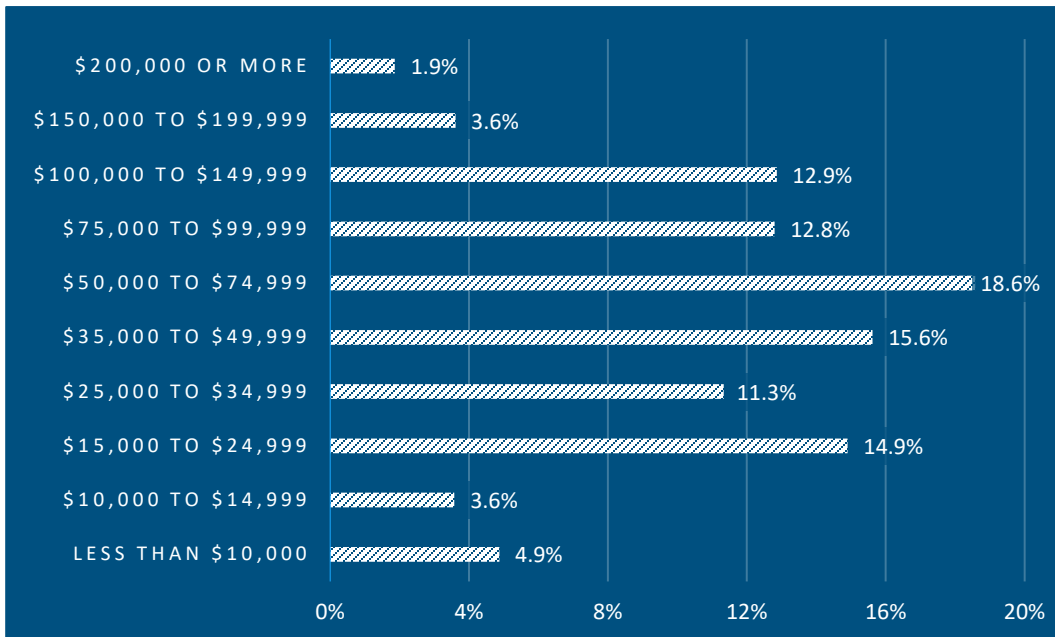


## 2017 Population by Age Group



Source: U.S. Census Bureau, 2017 American Community Survey 1-Year Estimates

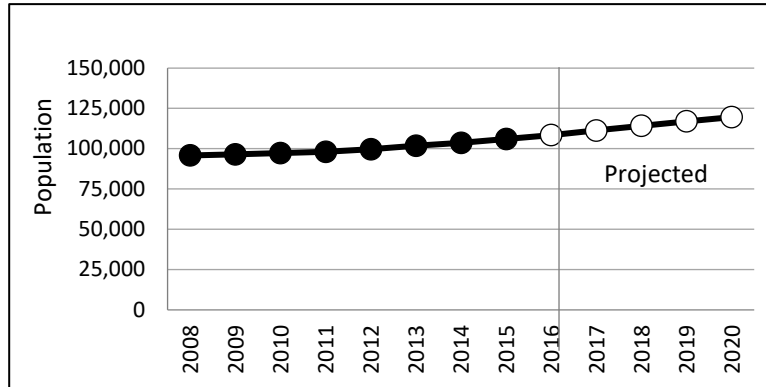
## 2017 Household Income Brackets



Source: U.S. Census Bureau, 2017 American Community Survey 1-Year Estimates

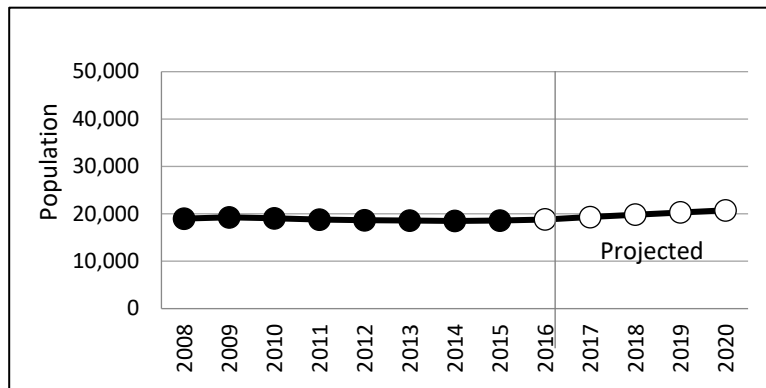
# Population Trends

## Flagler General Population



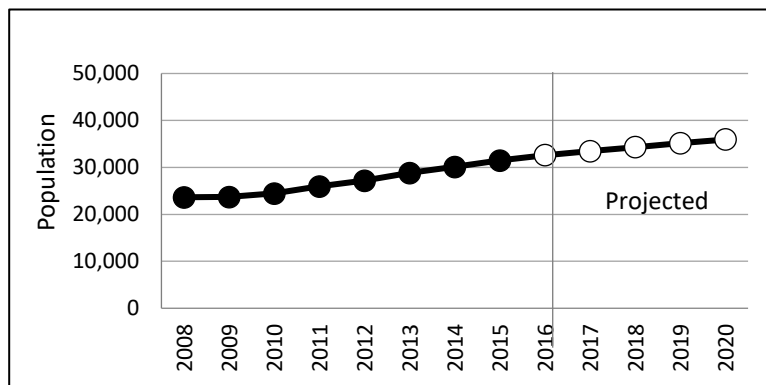
Source: Florida CHARTS, The Florida Legislature, Office of Economic and Demographic Research

## Flagler Population Under 18



Source: Florida CHARTS, The Florida Legislature, Office of Economic and Demographic Research

## Flagler Population 65 and Over



Source: Florida CHARTS, The Florida Legislature, Office of Economic and Demographic Research

DATA INDICATOR	DESCRIPTION	AdventHealth Palm Coast SERVICE AREA	FLORIDA AVERAGE
Poverty <sup>1</sup>	% Population in Poverty (Below 100% FPL)	13.8%	15.46%
Unemployment Rate <sup>2</sup>	Unemployment Rate	7.70%	3.3%
Violent Crime <sup>3</sup>	Violent Crime Rate (Per 100,000 Pop.)	265.0	472.1
Population with No High School Diploma <sup>1</sup>	% Population Age 25+ with No High School Diploma	8.2%	12.42%
Insurance <sup>4</sup>	Uninsured Adults-% Without Medical Insurance	17.82%	18.44%
Insurance <sup>4</sup>	Uninsured Children-% Without Medical Insurance	8.02%	6.58%
Food Insecurity Rate <sup>5</sup>	Food Insecurity Rate	17.20%	16.2%
Population with Low Food Access <sup>6</sup>	% Population with Low Food Access	54.13%	25.7%
Use of Public Transportation <sup>1</sup>	% Population Using Public Transit for Commute to Work (Age 16+)	0.30%	2.0%
Alcohol Consumption <sup>7</sup>	Estimated Adults Drinking Excessively (Age-Adjusted Percentage)	15.6%	17.10%
Tobacco Usage <sup>7</sup>	% Population Smoking Cigarettes (Age-Adjusted)	28.20%	18.9%

**Data Indicator Sources:** <sup>1</sup> US Census Bureau, [American Community Survey](#). 2013-17. <sup>2</sup> US Department of Labor, [Bureau of Labor Statistics](#). 2019 - June. <sup>3</sup> Federal Bureau of Investigation, [FBI Uniform Crime Reports](#). Additional analysis by the [National Archive of Criminal Justice Data](#). Accessed via the [Inter-university Consortium for Political and Social Research](#). 2019. <sup>4</sup> US Census Bureau, [Small Area Health Insurance Estimates](#). 2016. <sup>5</sup> [Feeding America](#). 2017. <sup>6</sup> US Department of Agriculture, Economic Research Service, [USDA - Food Access Research Atlas](#). 2015. <sup>7</sup> Centers for Disease Control and Prevention, [Behavioral Risk Factor Surveillance System](#). Accessed via the [Health Indicators Warehouse](#). US Department of Health & Human Services, [Health Indicators Warehouse](#). 2006-12.

# 5. COMMUNITY HEALTH NEEDS ASSESSMENT COMMITTEE

A Community Health Needs Assessment Committee (CHNAC) was formed to help AdventHealth Palm Coast conduct a comprehensive assessment of the community. The CHNAC communicated regularly and met twice throughout 2018-2019.

## Representation

The committee included representation from the hospital, public health officials and the broad community as well as representation from low-income, minority and other underserved populations. Members were strategically chosen, who represented organizations that serve low income, minority, and underserved populations. Each organization also has specific strategies in place to create access for vulnerable populations. Current CHNAC members are listed below.

## COMMUNITY MEMBERS

Name	Title	Organization	Description of Services	Low-Income	Minority	Other Underserved Populations
Laura Spencer	CEO	Azalea Health, Federally Qualified Health Center	Affordable, high quality health care including medical, dental, and mental health as well as prescriptions	x	x	x
Barbara Revels	President	Coquina Construction	Business leaders providing real estate and construction services to Flagler County			
Mark Jones	CEO	Community Partnership for Children	Family preservation services, case management, foster care, many therapeutic services, adoption, and mentoring	x	x	x
Bob Snyder	Health Officer	Florida Department of Health-Flagler	Public health; Works to protect, promote and improve the health of all people in Volusia through integrated state, county and community efforts.	x	x	x
Gretchen Smith	Communications Man./PIO	Florida Department of Health-Flagler	Public health; Works to protect, promote and improve the health of all people in Volusia through integrated state, county and community efforts.	x	x	x

## COMMUNITY MEMBERS

Name	Title	Organization	Description of Services	Low-Income	Minority	Other Underserved Populations
Dr. Bickel	President of the Board of Directors	Flagler Cares	A broad, county-wide initiative to expand the safety net for our citizens in need, to build a coordinated system of social, financial and health services, and to decrease societal and personal costs by providing services as efficiently as possible	x	x	x
Chuck Puckett	Circuit 7 Community Development Administrator	Department of Children and Families	Child protection, food stamps, Medicaid	x	x	x
DJ Lebo	CEO	Early Learning Coalition of Flagler & Volusia	Early learning programs, VPK, school readiness	x	x	x
Peggy Hengeveld	Board Chair	Flagler Free Clinic	Free clinic, primary care	x	x	x
Donald O'Brien	County Commission Chair	County of Flagler	County government, representing all of Flagler County	x	x	x
Jerry Cameron	County Administrator	County of Flagler	County government, representing all of Flagler County	x	x	x
Lynette Shott	ED of Community & Student Engagement	Flagler County Schools	K12 education for all Flagler County students	x	x	x
Trish Giaccone	CEO	Family Life Center	Domestic violence, Sexual violence, Primary prevention youth education, and support group services	x	x	x
Sharon Warriner	Grant Writer, Business Development	Halifax Health	Community hospital serving members of Volusia and Flagler County since 1928	x	x	x

## COMMUNITY MEMBERS

Name	Title	Organization	Description of Services	Low-Income	Minority	Other Underserved Populations
Beau Falgout	Assistant City Manager	City of Palm Coast	City government, representing Palm Coast	x	x	x
Larry Newsom	City Manager	City of Flagler Beach	City government, representing Flagler Beach	x	x	x
Dr. Alvin Jackson	City Manager	City of Bunnell	City government; representing Bunnell	x	x	x
Courtney Edgcomb	President	United Way of Volusia-Flagler	Partners with community to invest in the building blocks for a better life by supporting education, financial stability, and healthy lives	x	x	x
Chet Bell	Management Consultant	SMA Healthcare	Provides Substance abuse and mental health services	x	x	x
Ivan Cosimi	Chair	Volusia/Flagler Behavioral Health Consortium (Chair)	Help increase access to behavioral health services for children, adults and families	x	x	x
Jeff White	Executive Director	Volusia/Flagler Coalition for the Homeless	Partners and provides oversight for community agencies who provide direct services to the homeless and those at risk of homelessness.	x	x	x

## ADVENTHEALTH PALM COAST MEMBERS

In addition to community members, the CHNAC included representation from AdventHealth Palm Coast. The below Hospital team members were part of the Leadership team.

The following individuals provided leadership and expertise throughout the process:

- **Deborah McNabb**, Community Benefits Director, AdventHealth Central Florida Division.  
Leads community benefit activities in region
- **Russell Mariott**, Executive Director of Marketing, AdventHealth Central Florida Division.  
Regional marketing
- **Steven Jenkins**, Vice President of Strategy & Marketing, AdventHealth Central Florida Division-North  
Regional strategy and marketing
- **Wally DeAquino**, COO, AdventHealth Palm Coast  
Hospital Chief Operating Officer
- **Lauren Dye**, Marketing & Network Development Director, AdventHealth Palm Coast  
Community Benefit

## 6. PUBLIC HEALTH

Public health was represented throughout the Community Health Needs Assessment. Leaders from the Florida Department of Health-Flagler County actively participated on the CHNAC. Additionally, the Florida Department of Health in Volusia County Office of Planning and Performance Management staff were responsible for administering the County Health Survey, collecting secondary data and creating data graphs, tables and maps for the countywide CHNA document.

The following individuals provided leadership and expertise throughout the process:

### Florida Department of Health-Flagler County:

- **Robert Snyder**, Health Officer
- **Gretchen Smith**, Communications Manager/PIO

### Florida Department of Health in Volusia County:

- **Patricia Boswell**, Health Officer, chaired the Steering Committee
- **Dr. Thomas Bryant III**, Director of Planning and Performance Management, oversaw the primary and second data collection
- **Marisol Bahena**, Human Services Analyst, prepared secondary data for publication
- **Lynn Kennedy**, Community Health, assisted with the review of all secondary data
- **Dr. Lauren Husband**, Director, Health Equity & Community Engagement, facilitated focus groups



# 7. PRIMARY AND SECONDARY DATA SOURCES

## Primary Data

- a. Community surveys: A primarily Internet-based county health survey was implemented that included 31 questions about quality of life, community health concerns, and social determinants of health. In Volusia and Flagler counties, 3,692 individuals completed the survey, including 966 Flagler residents.

## Secondary Data

- a. Hospital Utilization Data: Top 10 inpatient and Emergency Department diagnoses by payer. This information was provided by Regional Accounting, AdventHealth Central Florida Division – North Region. *See Appendix C for utilization data.*
- b. Collaboration Data: Publicly available population-level health data was collected and organized into 12 health issues with assistance from the Florida Department of Health in Volusia County Office of Planning and Performance Management. The data was analyzed, and a summary of the data was presented as Indicators of Concern for each health issue. This summary included a review of data trends, county and state comparison and magnitude of impact.
- c. The Engagement Network: In addition to the local data collection process, data was sourced from the Engagement Network. This is a national platform produced by the Center for Applied Research and Engagement Systems (CARES) at the University of Missouri. The Engagement Network hosts a national Map Room with 15,000+ data layers, a Community Health Needs Assessment reporting tool with 80+ health-related indicators and a hub network with 30+ partner organizations using CARES technology.

## Data Sources

The majority of the CHNA data was pulled directly from the Florida Department of Health **Florida Health CHARTS** system that is an assemblage of data from over 25 programs and agencies. The specific sources listed below were included in the CHNA process.

<b>SOURCE</b>	<b>LINK(S)</b>
<b>American Health Resource Files</b>	<a href="https://data.hrsa.gov/topics/health-workforce/ahrf">https://data.hrsa.gov/topics/health-workforce/ahrf</a>
<b>Baker Act Reporting Center, University of South Florida</b>	<a href="https://www.usf.edu/cbcs/baker-act/">https://www.usf.edu/cbcs/baker-act/</a>
<b>Centers for Disease Control (CDC)</b>	<a href="http://www.cdc.gov/">http://www.cdc.gov/</a>
<b>Dartmouth Atlas Project</b>	<a href="https://www.dartmouthatlas.org/">https://www.dartmouthatlas.org/</a>
<b>Feeding America, Map the Meal Gap</b>	<a href="https://map.feedingamerica.org/">https://map.feedingamerica.org/</a>
<b>Florida Agency for Health Care Administration</b>	<a href="http://www.ahca.myflorida.com">www.ahca.myflorida.com</a>
<b>Florida Department of Children and Families</b>	<a href="http://www.myflfamilies.com">www.myflfamilies.com</a> , <a href="http://centerforchildwelfare.fmhi.usf.edu/">http://centerforchildwelfare.fmhi.usf.edu/</a> Florida Safe Families Network Data Mart/Data Registry Florida Youth Substance Abuse Survey <a href="https://www.myflfamilies.com/service-programs/samh/prevention/fysas/">https://www.myflfamilies.com/service-programs/samh/prevention/fysas/</a>
<b>Florida Department of Education</b>	<a href="http://www.fldoe.org">www.fldoe.org</a> Education Information & Accountability Services; Office of Early Learning; Office of Safe Schools
<b>Florida Department of Elder Affairs</b>	<a href="http://elderaffairs.state.fl.us/">http://elderaffairs.state.fl.us/</a>
<b>Florida Department of Health</b>	<a href="http://www.floridahealth.gov">www.floridahealth.gov</a> , <a href="http://www.flhealthcharts.com">http://www.flhealthcharts.com</a> Bureau of Epidemiology; Bureau of HIV/AIDS; Bureau of Immunization; Bureau of STD Prevention and Control; Bureau of TB & Refugee Health; Bureau of Vital Statistics; Division of Medical Quality Assurance; Florida Behavioral Risk Factor Surveillance System; Florida Department of Health Physician Workforce Surveys; Florida Youth Tobacco Survey; Office of Injury Prevention; WIC and Nutritional Services
<b>Florida Department of Highway Safety and Motor Vehicles</b>	<a href="http://www.flhsmv.gov">www.flhsmv.gov</a>
<b>Florida Department of Juvenile Justice</b>	<a href="http://www.djj.state.fl.us">www.djj.state.fl.us</a>
<b>Florida Department of Law Enforcement</b>	<a href="http://www.fdle.state.fl.us">www.fdle.state.fl.us</a>
<b>Merlin, Florida's Web-Based Reportable Disease Surveillance System</b>	<a href="http://www.floridahealth.gov">http://www.floridahealth.gov</a>
<b>Shimberg Center for Housing Studies, Florida Housing Data Clearinghouse</b>	<a href="http://flhousingdata.shimberg.ufl.edu/">http://flhousingdata.shimberg.ufl.edu/</a>

<b>SMA Healthcare</b>	<a href="https://smahealthcare.org/">https://smahealthcare.org/</a>
<b>University of Florida, Drug-Related Outcomes Surveillance and Tracking System (FROST)</b>	<a href="https://frost.med.ufl.edu/">https://frost.med.ufl.edu/</a>
<b>University of Miami (FL) Medical School, Florida Cancer Data System</b>	<a href="https://fcds.med.miami.edu/inc/welcome.shtml">https://fcds.med.miami.edu/inc/welcome.shtml</a>
<b>University of South Florida, Baker Act Reporting Center</b>	<a href="https://www.usf.edu/cbcs/baker-act/">https://www.usf.edu/cbcs/baker-act/</a>
<b>U.S. Bureau of the Census</b>	<a href="http://www.census.gov">http://www.census.gov</a> American Community Survey, American Community Survey 1-year estimates, American Community Survey 5-year estimates; County Business Patterns
<b>U.S. Department of Labor, Bureau of Labor Statistics</b>	<a href="http://www.bls.gov">http://www.bls.gov</a>
<b>Volusia County Schools</b>	<a href="http://myvolusiaschools.org">http://myvolusiaschools.org</a>
<b>Volusia/Flagler County Coalition for the Homeless</b>	<a href="http://www.vfcch.org/">http://www.vfcch.org/</a>

## 8. COMMUNITY COLLABORATION

The Flagler County Community Health Needs Assessment is the product of a countywide collaborative process. Four community organizations, AdventHealth Palm Coast, Flagler Cares, Florida Department of Health-Flagler County and Halifax Health provided financial resources for the CHNA process and served as a Steering Committee throughout 2018-2019. In addition to the Steering Committee, a Leadership Team (serving as the CHNAC) was formed and included leaders from key community organizations. Nearly all the Leadership team members represented low-income, minority and underserved populations.

The Leadership Team reviewed all the data and prioritized the key issues according to intensity of the need, current initiatives around the issue, and the potential for future collaboration. *See CHNAC membership list in Section 5.*

### Funders

- **AdventHealth Palm Coast**, operating a hospital system in Flagler County
- **Flagler Cares**, collective impact nonprofit facilitating the process
- **Florida Department of Health-Flagler**, the county's public health department
- **Halifax Health**, operating a hospital system in Volusia County

### Other Coalition Partners

- **Flagler Cares**, a nonprofit organization, facilitated the Community Health Needs Assessment process in Flagler County through a consulting contract funded by the four CHNA partners

## 9. DATA SUMMARY

### Primary and Secondary Data: High Level Findings

Once all primary and secondary data was collected, this was then analyzed and categorized into top 8-10 priorities per source of data. These results are listed by source in the tables below.

Top 8-10 Priorities determined from Community Surveys					
1	Mental Health problems	5	Child Abuse/Neglect	9	Violence
2	Addiction	6	Motor Vehicle Crash Injuries	10	Environmental Health
3	Homelessness	7	Cancer		
4	Unemployment	8	Domestic Violence		

Top 8-10 Priorities determined from Hospital Emergency Department Data					
1	Urinary tract infection, site not specified	5	Acute upper respiratory infection, unspecified	9	Acute bronchitis, unspecified
2	Unspecified abdominal pain	6	Headache	10	Noninfective gastroenteritis and colitis, unspecified
3	Chest pain, unspecified	7	Low back pain		
4	Essential (primary) hypertension	8	Bronchitis, not specified as acute or chronic		

Top 8-10 Priorities determined from Hospital Inpatient Admission Data					
1	Laparoscopic Cholecystectomy	5	Transurethral Procedures	9	Extracranial Procedures
2	Hernia Procedures Except Inguinal & Femoral	6	Acute Myocardial Infarction, Discharged Alive	10	Septicemia or Severe Sepsis
3	Nonspecific Cerebrovascular Disorders	7	Postoperative & Post-Traumatic Infections		
4	Traumatic Stupor & Coma, Coma <1 Hr	8	Stomach, Esophageal & Duodenal Procedures		

Top 8-10 Priorities determined from Secondary Data provided by Flagler County Collaborative CHNA					
1	Adult Behavioral Health	5	Healthy Eating and Physical Activity	9	
2	Youth Behavioral Health	6	Mothers and Children Under Age 5	10	
3	Cardiovascular Diseases	7	Family Violence		
4	Diabetes	8	Social and Economic Issues		

## Primary and Secondary Data: Aggregate Community Health Needs

The Flagler County CHNA Leadership Team utilized an action-oriented decision framework to review information and data collected and to guide their dialogue leading to the identification of Priority Health Issues for action during the 2020-2022 implementation cycle. The framework included considerations for data review and analysis, potential implementation strategies for short and long-term action. Prioritization decisions were made through facilitated dialogue and group consensus.

Aggregate Community Health Needs				
	Priority Issue	Ethnic Group	Age Group	Specific Geographic Area
1	Adult Behavioral Health	all	adults	All of Flagler County
2	Youth Behavioral Health	all	youth	All of Flagler County
3	Cardiovascular Disease	All, minority overrepresentation	all	All of Flagler County, high poverty neighborhoods
4	Diabetes	All, minority overrepresentation	all	All of Flagler County, high poverty neighborhoods
5	Healthy Eating and Physical Activity	All	all	All of Flagler County, high poverty neighborhoods
6	Mothers and Children Under Age 5	All, uninsured, working poor	all	All of Flagler County, high poverty neighborhoods
7	Family Violence	All	all	All of Flagler County, high poverty neighborhoods
8	Social and Economic Issues	All, working poor and below poverty	all	All of Flagler County, high poverty neighborhoods

# 10. COMMUNITY ASSET INVENTORY

In order to help AdventHealth Palm Coast’s CHNAC determine the community health priorities where they could make a meaningful difference, the Hospital conducted a Community Asset Inventory related to the eight identified community health needs. The inventory was designed to help the CHNAC narrow the 10 needs to the top five priority issues. Appendix C includes the full Asset Inventory.

Through group dialogue individual items were aggregated as reflected below prior to completing the Community Asset Inventory:

Cardiovascular Disease & Diabetes (and Healthy Eating & Physical Activity): Inpatient Hospital data identified cardiovascular disease as one the top ED visit reasons. In addition, secondary data indicated cardiovascular disease, diabetes, and healthy eating and physical activity as top issues for the Hospital community. Due the direct correlation between health behaviors such as nutrition and activity, with prevention and treatment of chronic diseases, it was decided to combine these into one issue for the community asset inventory.

Availability of Health Resources: A general search for health resources was also added to the inventory to avoid duplication of services during the selection of priority issues.

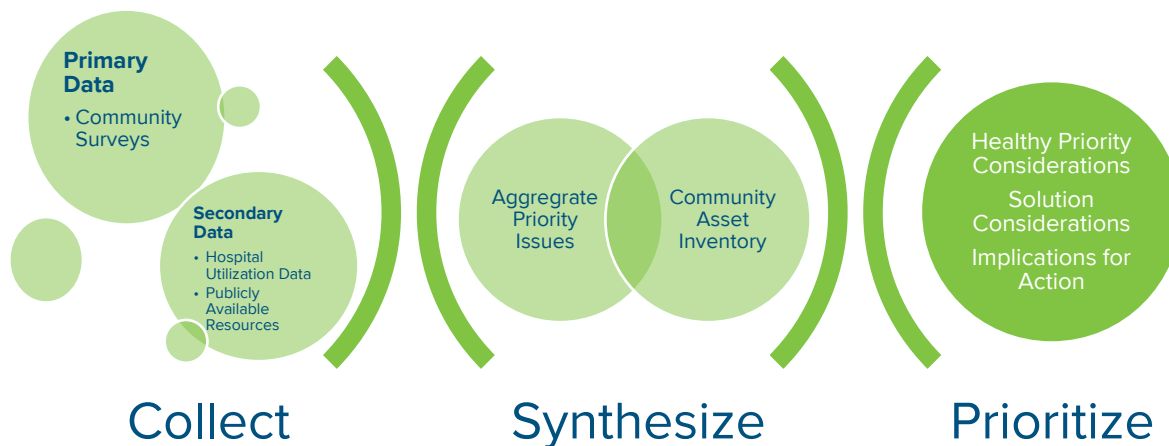
COMMUNITY ASSET INVENTORY		
Top Issues Defined by Primary/Secondary Data	Current Community Programs	Current Hospital Programs
<b>Adult Behavioral Health</b>	Behavioral Health Consortium Counseling Inpatient and outpatient SAMH programs Psychiatric programs	Lung Cancer screenings Tools to Quit Smoking Cessation classes
<b>Youth Behavioral Health</b>	Behavioral Health Consortium Counseling Inpatient and outpatient SAMH programs Psychiatric programs	Art of Healing Program – Art Gallery in ER Handmade quilts Morning Mile Scholarship Program that started in 2004
<b>Cardiovascular Diseases &amp; Diabetes (and Healthy Eating &amp; Physical Activity)</b>	5-2-1-0 (healthy eating & physical activity program) FQHC primary and specialty care Parks Playgrounds School Health Advisory Committee Trails	Community Care Laugh Your Heart Out Making Strides Water safety program for children
<b>Mothers and Children Under Age 5</b>	Kidcare health coverage Maternal and Women’s Health, case management School Readiness VPK WIC	Newborn education & Lactation education and tours

<b>Family Violence</b>	Child protection investigations Child welfare Domestic Violence programs Foster care Healthy Families	
<b>Social &amp; Economic Issues</b>	Delinquency programs Homelessness prevention and housing programs Multiple, family self-sufficiency, financial programs SHIP housing programs, other Snap, Medicaid	
<b>Availability of Health Resources</b>	211live.org health resources Free Clinic	Cancer Resource Center Cancer Survivor Day Celebrating Cancer survivors Support Groups



# 11. PRIORITY SELECTION

The Flagler County CHNA Leadership Team utilized an action-oriented decision framework to review information and data collected and to guide their dialogue leading to the identification of Priority Health Issues for action during the 2020-2022 implementation cycle.



## Prioritizing the Data

The framework included considerations for data review and analysis, potential implementation strategies for short and long-term action. Prioritization decisions were made through facilitated dialogue and group consensus.

PRIORITIZATION CRITERIA	
Health Priority Considerations	
<b>Magnitude</b>	What is the number of people affected by the issue?
<b>Severity</b>	What is the risk of morbidity and mortality associated with the issue?
<b>Impact on Vulnerable Populations</b>	Does the issue particularly impact vulnerable populations?
<b>Trend Direction</b>	Has the trend improved or worsened in the last five years?
<b>Comparison</b>	How does the county status compare to the state?

<b>Relationship to the other issues</b>	Does the issue affect other problems?
<b>Importance of the Issue</b>	How important is the issue to the community?
<b>Solution Considerations</b>	
<b>Efficacious Interventions</b>	Are there successful strategies to address this issue? Is there a positive cost-benefit to addressing the issue? How resource intensive are strategies to address the issue?
<b>Community Readiness</b>	How likely is the community to support strategies to address the issue?
<b>Current Capacity</b>	Does the community have existing resources and capacity to address the issue?
<b>Economic Impact</b>	What is the cost of NOT addressing the issue?
<b>Implications for Action</b>	
<b>Issues with Technical Fixes</b>	Issues that can be addressed by relatively straightforward policy or practice changes supported by a strong evidence base. <i>Examples: vaccinations, trauma informed care approaches</i>
<b>Complex Problems Requiring Complex Solutions</b>	Issues that call for long-term, complex, multi-sector interventions. <i>Examples: mental illness and substance abuse, interpersonal violence</i>
<b>Root Causes</b>	Issues that interact with each other in a vicious cycle, within and across generations and contribute to high-risk environments, unhealthy behaviors, injury, illness, and death. <i>Examples: poverty, crime</i>
<b>System-Level Barriers to Effective Action</b>	Issues that hinder effective action to improve health outcomes and the environment in which health outcomes develop. <i>Example: working ineffectively across sectors, systemic underfunding of interventions targeting social determinants of health</i>

# 12. PRIORITY ISSUES TO BE ADDRESSED

## Adult Behavioral Health

### Alcohol Use

- Binge drinking among Flagler adults is lower than in 2013 and lower than Florida percent.
- Alcohol-suspected motor vehicle crash deaths has increased and is higher than Florida rate
- Flagler's death rate is higher than Florida and the rate of death for Hispanics has increased.

### Smoking and Substance Misuse

- Flagler's death from Opioid overdoses has increased as has its use among individuals seeking treatment for addiction.
- The percent of Flagler women and black individuals using tobacco exceeds the Florida percent.

### Mental Health

- 9.3% of Flagler adults had 14 or more poor mental health days in the last month and 12.6% have a depressive disorder (both figures are lower than Florida)
- Flagler has the highest suicide rate in Florida and the rate is increasing.

## Youth Behavioral Health

### Alcohol Use

- Flagler Middle and High School students use alcohol at a slightly higher rate than Florida, but the rate has been decreasing since 2008. (same for binge drinking)

### Smoking and Substance Misuse

- Flagler Middle School students reported a higher rate of marijuana use than Florida and the trend increased between 2016 and 2018. Flagler High School students reported marijuana use increased from 2014-2018.
- Reported cigarette use among Flagler Middle and High School students has declined, but the High School rate is higher than Florida.
- The Middle and High School use of Vaporizers/E-cigarettes has increased since 2016 and far exceeds cigarette use among Middle and High Schoolers. (data only collected since 2016)

### Mental Health

- Flagler's suicide rate among youth age 12-18 is higher than Florida, peaking in 2013-15 (although a relatively small number/count)
- Flagler's K-12 Out of School Suspension rate is higher than Florida and has been increasing since 2014.

## Cardiovascular Diseases & Diabetes (and Healthy Eating & Physical Activity)

### Cardiovascular Diseases

- The Flagler death rate for heart failure is higher than Florida and highest for white individuals. Flagler hospitalization rates for Congestive Heart Failure are lower than Florida except among black individuals—that rate is higher. The coronary heart disease death rate is higher for men than women.
- The Flagler hospitalization rate for stroke is higher for black individuals than other groups. The Flagler death rate for stroke is increasing for Flagler and is increasing significantly for Hispanic individuals. The Flagler stroke death rate has been higher than Florida for the past three years.

### Diabetes, Physical Activity and Obesity

- The percent of adults with diabetes in 2016 is higher in Flagler than Florida.
- Over 70% of Flagler middle and high school students lack vigorous physical activity. The Flagler percent is better than Florida. 47% of Flagler adults are inactive or insufficiently active (Florida's percent is worse).
- The percent of adults who are obese increased in Flagler between 2013 and 2016.
- The Years of Potential Life Lost (YPLL) rate for Flagler County was higher than Florida for 4 of the 5 past years and increased from 2016 to 2017.

## Mothers and Children Under Age 5

### Mothers

- Births to Flagler mothers age 15-19 increased from 2015 to 2017 and the latest rate is higher than Florida.
- The Flagler rate of Bacterial STDs among women 15-34 has steadily increased since 2013.
- The rate of very low birth weight babies born to black Flagler women has increased since 2012 and exceeds the Florida rate. The rate of low birth weight babies born to black Flagler mothers is also higher than the Florida rate.
- Births to Flagler women with no prenatal care has steadily increased for black women since 2011 and increased in the last 3 years for white women and all women in Flagler.
- The percent of Flagler moms who initiated breastfeeding has been lower than Florida for the last 5 years. The percent of black moms who initiative breastfeeding is lower than all other groups.

### Children Under 5

- The percent of Flagler children “Ready for Kindergarten” is lower than Florida.
- The percent of Flagler children fully immunized has decreased from 2016 to 2018 and the Flagler percent was lower than Florida in 2017 and 2018.
- The Flagler rate of infant mortality for Hispanic babies has increased since 2011 and is higher than all other groups.

## Family Violence

- Flagler's Domestic Violence offense rate is higher than Florida.
- Flagler's child abuse rates for children age 5-11 exceeded Florida in 2014 to 2017 and the rate of children the same age experiencing sexual violence is higher than Florida and increasing.
- The number of Flagler infants, children age 1-5 and children age 12-17 in foster care has been increasing since 2012. The number of infants in foster care is higher than Florida since 2014.

See Flagler County Community Health Needs Assessment for additional priority issue data, [www.flaglercares.org/Flagler\\_CHNA.pdf](http://www.flaglercares.org/Flagler_CHNA.pdf)

# 13. PRIORITY ISSUES THAT WILL NOT BE ADDRESSED

## **Availability of Health Resources**

The data collected did not demonstrate significant negative trends or negative comparison to state data. Many access issues will be addressed as a component of other health priorities.

## **Social and Economic Issues**

Social and economic issues will be considered as a component of all priority indicators.

## 14. NEXT STEPS

The CHNAC will work with AdventHealth Palm Coast and other community partners to develop a measurable Community Health Plan for 2020-2022 to address the priority issues. For each priority, specific goals will be developed including measurable outcomes, intervention strategies and the resources necessary for successful implementation.

Evidence based strategies will be reviewed to determine the most impactful and effective interventions. For each goal, a review of policies that can support or deter progress will be completed with consideration of opportunities to make an impact. The plan will be reviewed quarterly with an annual assessment of progress. A presentation of progress on the plan will also be presented to the Hospital board annually.

A link to the Community Health Plan will be posted on [AdventHealth.com](http://AdventHealth.com) prior to May 15, 2020.

## **15. WRITTEN COMMENTS REGARDING 2016 NEEDS ASSESSMENT**

We posted a link to the most recently conducted 2016 CHNA and most recently adopted 2017-2019 implementation strategy on our Hospital website as well as AdventHealth.com prior to May 15, 2017 and have not received any written comments.

# 16. REVIEW OF STRATEGIES UNDERTAKEN IN THE 2017 COMMUNITY HEALTH PLAN

AdventHealth Palm Coast conducts an annual evaluation of the progress made from the implementation strategies from the Community Health Plan. The evaluation is reported to the IRS in Form 990. The following is a summary of progress made on our most recently adopted plan.

## Priority 1: Adult Behavioral Health

**2016 Description of the Issue:** According to the 2000+ respondents of the Volusia/Flagler Community Health Survey, Behavioral Health related issues were the top three unhealthy behaviors Flagler County residents were most concerned about (Drug Abuse 51.9%, Alcohol Abuse 44.4% and, Mental Health/Stress 36%). Flagler's suicide rate was higher than the state rate and has increased in recent years. Alcohol-suspected motor vehicle crash deaths in Flagler were significantly higher than the state in 2012-14 (9.3 per 100,000). The percentage of Flagler residents who self-reported being current smokers was 20.6% --also significantly higher than the Florida percentage. The percentage of Flagler residents who reported having "poor mental health days" on 14 or more of the past 30 days was 11.4% (the rate was higher for women and individuals earning less than \$25,000 per year).

**2019 Update:** AdventHealth Palm Coast implemented two strategies focused on Adult Behavioral Health: Smoking Cessation Classes and Low Dose CT screenings for Lung Cancer. Since 2017, 148 adults completed smoking cessation education classes and 213 individuals were screened through the Low Dose CT program.

## Priority 2: Youth Behavioral Health

**2016 Description of the Issue:** In 2012-14 the Flagler suicide rate was 8.4 per 100,000—higher than the state rate of 4.9. Despite a decline in high school students using alcohol in the last 30 days, Flagler's rate has been consistently higher than the state rate with 30.6% of high schoolers reporting alcohol use. Flagler County rates for smoking and marijuana use are also consistently higher than the state rate.

**2019 Update:** AdventHealth Palm Coast implemented one prevention-oriented strategy focused on school-aged youth in partnership with the American Diabetes Association. Morning Mile, a program designed to encourage physical activity among youth, was initiated during the 2017-18 school year. Increased physical activity is a proven strategy to improve both physical and mental health and 68 students participated in the program to date.

## Priority 3: Cardiovascular Diseases/Diabetes & Healthy Eating & Physical Activity

**2016 Description of the Issue:** The Flagler age-adjusted rate for heart failure deaths increased over the years reported and was higher than the Florida rate—Flagler's rate was 14 per 100,000. In 2013, the percentage of Flagler adults self-reporting that they had ever been told they had high blood cholesterol was 35.3%, higher than the Florida percentage. The age-adjusted diabetes death rate for Flagler County (23.5 per 100,000) increased over the reported year and was consistently higher than the Florida rate. Regular physical activity and healthy eating can help people manage their weight as well as reduce their risk for chronic disease. The percentage of Flagler adults who self-reported eating five or more servings of fruits and vegetables per day was 17.1%—lower than the Florida percentage in 2013. 45.2 percent of Flagler adults reported being inactive or insufficiently active in 2013.

**2019 Update:** AdventHealth Daytona Beach implemented several distinct strategies focused on these priorities. CREATION Health, an eight-week, faith-based wellness plan with lifestyle seminars and training based on 8 principles: choice, rest, environment, activity, trust, interpersonal relations, outlook and nutrition, was provided to 120 individuals since 2017. Educational seminars were provided to 1,226 individuals and outreach events reached over 3,600. Free health screenings were provided to 735 individuals since 2017. Community Care, a community-



based care coordination program for high risk patients with a history of preventable ED visits and inpatient admissions, served 122 individuals.

## **Priority 4. Mothers and Children Under Age 5**

2016 Description of the Issue: The Flagler rate for births with adequate prenatal care increased and was consistently above the Florida rate. The percent of births to mothers who smoked during pregnancy (12.1%) has been consistently higher in Flagler than the rest of the state. Fewer mothers-initiated breastfeeding in Flagler than in the state (76.7% vs. 84.2%). The rate of children in school readiness programs in Flagler County decreased by almost 25% and was lower than the Florida rate for the last 5 years. Access to health insurance coverage is one of the biggest root causes contributing to a lack of prenatal care and poor birth outcomes. In 2013, only 86.3% of Flagler adults had some type of health care coverage and only 70.6% reported having a personal doctor.

2019 Update: To address access to health care services, AdventHealth Palm Coast provide free access to newborn education and lactation education courses. 61 individuals have participated since 2017.

# APPENDIX A: PRIMARY DATA SURVEY & PRIMARY DATA RESULTS

## County Health Survey 2019

### Methodology

The 2019 County Health Survey in Volusia and Flagler Counties relied primarily on an Internet-based survey (which was collected using Survey Monkey) to reach as many respondents as possible within the limits of the project budget. The online survey was available in English and Spanish via [www.countyhealthsurvey.com](http://www.countyhealthsurvey.com). Paper surveys, also available in Spanish and English, were utilized to reach individuals without convenient access to the Internet and were manually entered. The survey was open from January to March 2019. There were 3,692 completed surveys: 2,722 internet surveys and 970 paper surveys.

The online and paper surveys were promoted and distributed through email communication, community meetings, postings on various websites, social media posts and promotional items and paper surveys made available at partner's places of business.

The 31-question survey included questions regarding perceived quality of life and health of the community, health concerns, barriers to health care, use of health care, health care needs and demographic information.

Survey respondents were asked "where is your permanent residence?" and of the 3,668 completed surveys:

- 2,608 reported that they lived in Volusia county (70.5%)
- 966 reported that they lived in Flagler county (26.3%)
- 102 reported that they lived in another Florida county (2.8%)
- 7 reported that they lived outside of Florida and 9 provided no response to the question (0.4%)

**Only the 966 Flagler respondents are included in this presentation of survey results.**

### Limitations

**Convenience Sampling:** A convenience sampling methodology was used for the 2019 Community Health Survey. The convenience sampling process is a non-probability sampling technique that relies on the collection of data from populations within easy reach of the researcher. In this case, community agencies were asked to promote the survey with their customers, staff and other stakeholders. This method was selected for ease and budget restrictions. Convenience sampling is much different from a random sampling methodology where the survey population is randomly sampled to gain responses from every population subset.

**Limitations and Cautions with Convenience Sampling:** Convenience sampling can lead to the under-representation or over-representation of particular groups within the sample. This was the case with the 2019 Community Health Survey for several subsets of the Flagler County population including males and individuals ages 18-24. It is important to understand that convenience samples do not produce representative results because of the inherent biases. The results presented here cannot be considered representative of the entire population.

**WE WANT TO HEAR FROM YOU!**

Take a short survey regarding HEALTH  
in Flagler & Volusia Counties



Hover your smart phone camera over  
the symbol to the right or visit:  
[countyhealthsurvey.com](http://countyhealthsurvey.com)



**Limitations of Internet Surveys:** Although paper surveys were made available, the survey process relied primarily on the Internet survey. Internet surveys tend to underrepresent lower-income, less educated and minority households.

## Community Health Survey Respondent Demographics

Age	Flagler	
	Number	Percent
Less than 18	3	0.3
18-24	46	4.8
25-34	77	8.0
35-44	153	15.8
45-54	217	22.5
55-64	220	22.8
65+	150	15.5
No response	100	10.4
<b>Total</b>	<b>966</b>	<b>100.0</b>

Race Identification <i>Race: Which group do you most identify with? (Check ONE selection)</i>	Flagler	
	Number	Percent
Asia	3	0.3
Black/African American	59	6.1
Hawaiian Native/ Pacific Islander	1	0.1
Mixed Race	27	2.8
Native American/ Alaskan Native	7	0.7
Other Race	32	3.3
White/Caucasian	740	76.6
No response	97	10.0
<b>Total</b>	<b>966</b>	<b>100.0</b>

Ethnic Identification <i>Ethnicity: Which group do you most identify with? (Check ONE selection))</i>	Flagler	
	Number	Percent
Hispanic/Latino	63	6.5
Not Hispanic/Latino	762	78.9
No response	141	14.6
<b>Total</b>	<b>966</b>	<b>100.0</b>

Gender	Flagler	
	Number	Percent
Female	719	74.4
Male	149	15.4
No Response	98	10.1
<b>Total</b>	<b>966</b>	<b>100.0</b>

Marital Status	Flagler	
	Number	Percent
Single	170	17.6
Married	555	57.5
Divorced	102	10.6
Widowed	40	4.1
No response	99	10.2
<b>Total</b>	966	100.0

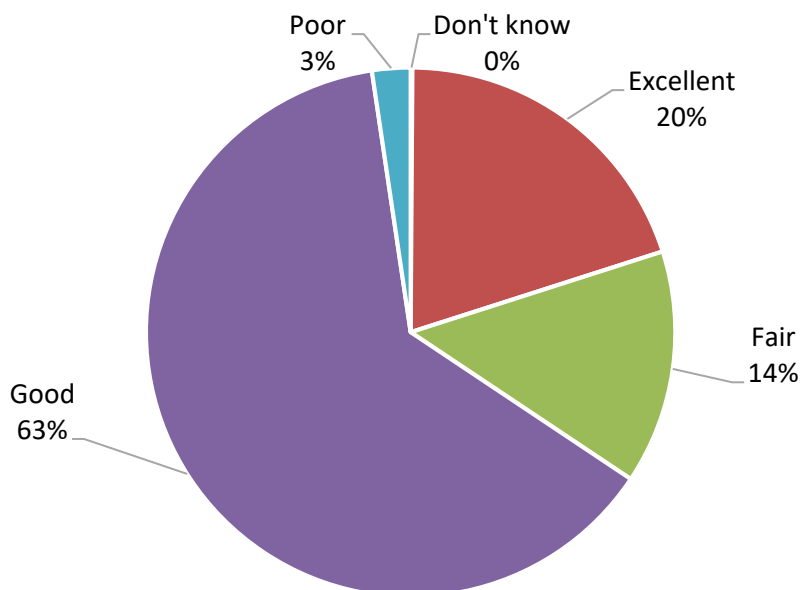
Education <i>Education: Please check the highest level completed: (Check ONE selection)</i>	Flagler	
	Number	Percent
Elementary/Middle School	1	0.1
High school diploma or GED	95	9.8
Technical/Community College	113	11.7
4-year College/ Bachelor's degree	255	26.4
Graduate/Advanced degree	203	21.0
Some college	193	20.0
No Response	106	11.0
<b>Total</b>	966	100.0

Employment Status	Flagler	
	Number	Percent
Employed full-time	529	54.8
Employed part-time	59	6.1
Unemployed	27	2.8
Self-Employed	37	3.8
Not seeking work	7	0.7
Retired	136	14.1
Home maker	23	2.4
Student	11	1.1
Other	39	4.0
No Response	98	10.1
<b>Total</b>	966	100.0

Annual Household Income	Flagler	
	Number	Percent
Less than \$10,000	42	4.3
\$10,000 to \$19,999	52	5.4
\$20,000 to \$29,999	94	9.7
\$30,000 to \$49,999	165	17.1
\$50,000 to \$74,999	190	19.7
\$75,000 to \$99,999	118	12.2
\$100,000 or more	168	17.4
No Response	137	14.2
<b>Total</b>	966	100.0

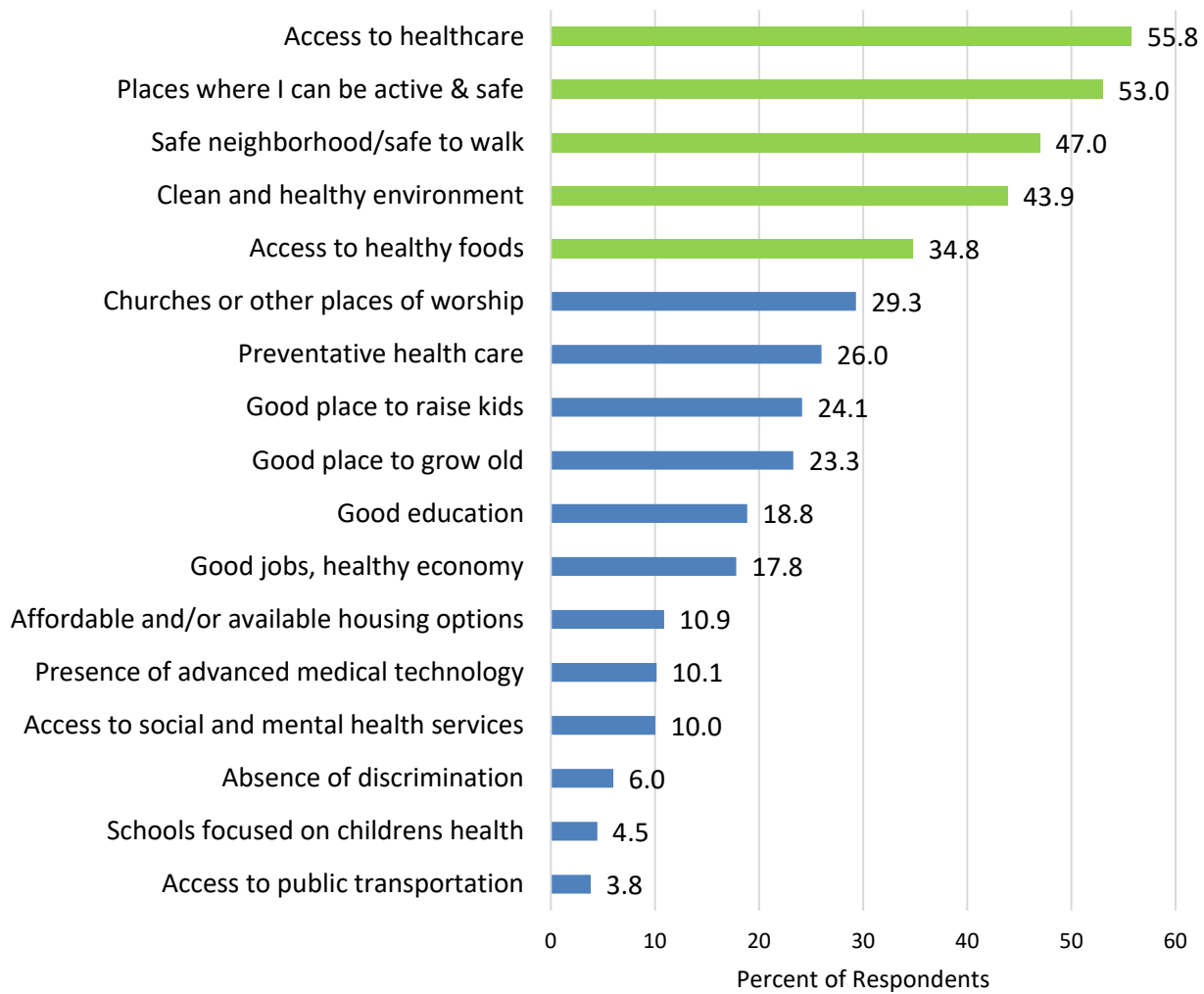
## Overall Health

Survey Question: How do you rate your overall health?



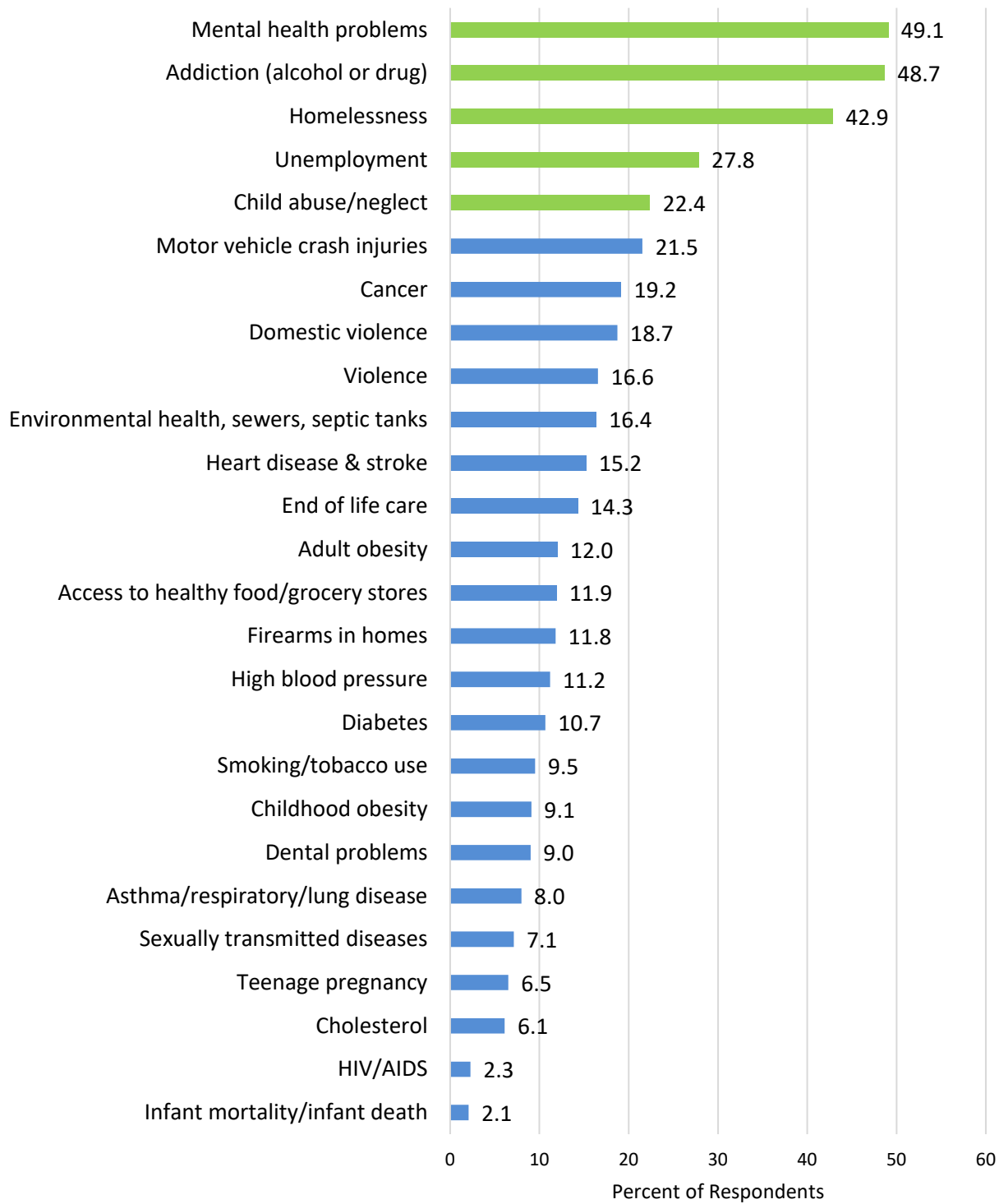
## Things that Allow YOU to be Healthy Where You Live

Survey Question: Check up to 5 things that allow YOU to be healthy where you live



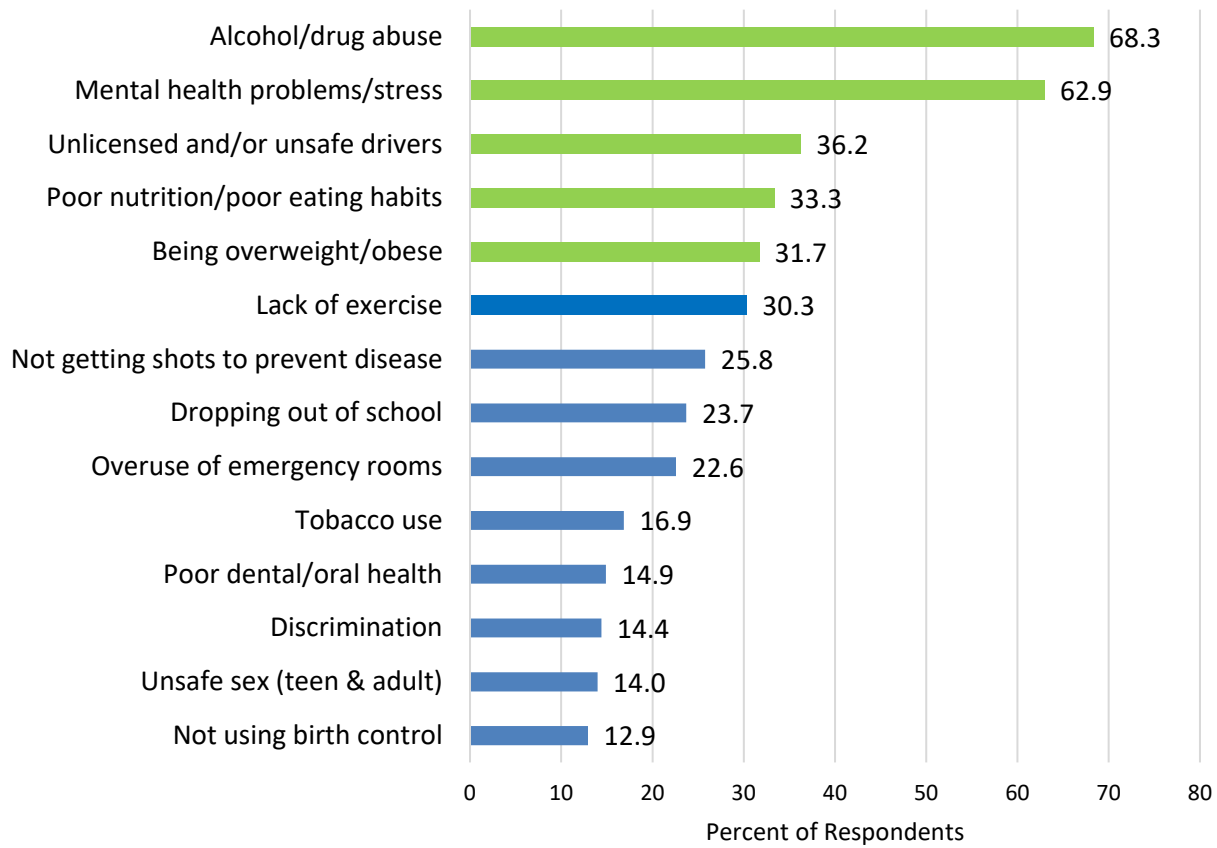
## Health Issues YOU are Most Concerned About

Survey Question: Check up to 5 health issues YOU are most concerned about in your county:



## Unhealthy Behaviors YOU are Most Concerned About

Survey Question: Check up to 5 unhealthy behaviors YOU are most concerned about in your county

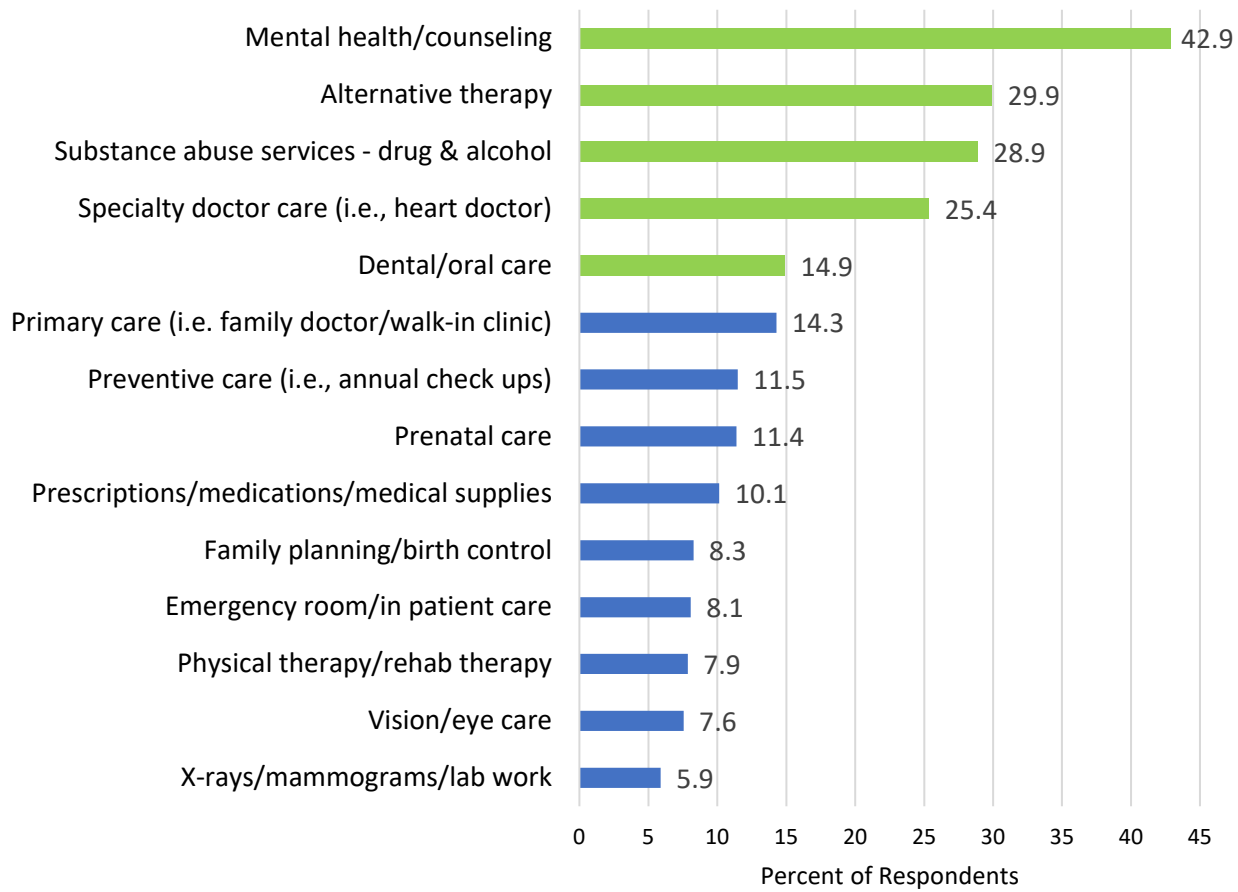




## Health Services that are Difficult to Obtain

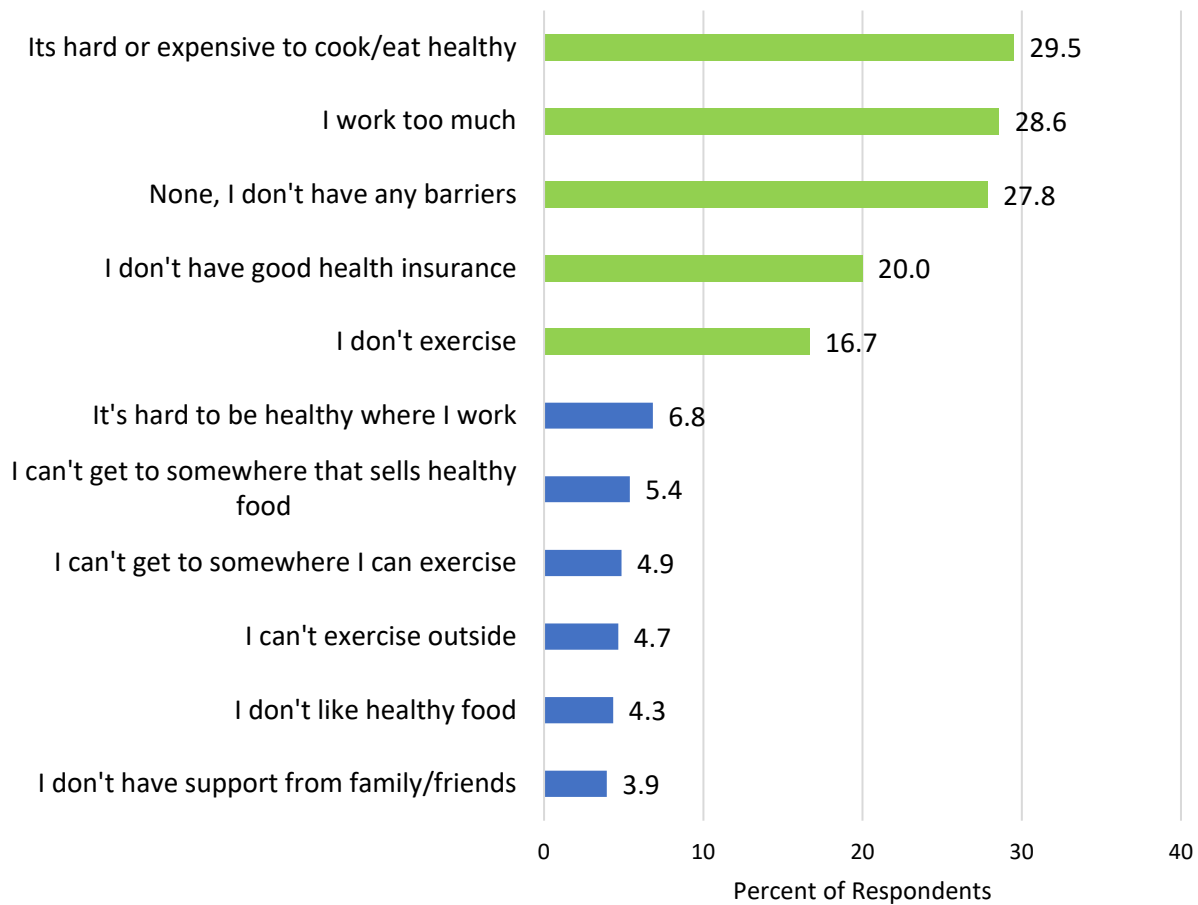
Survey Question: What health care services are difficult to obtain in your community?

(Check ALL that apply)



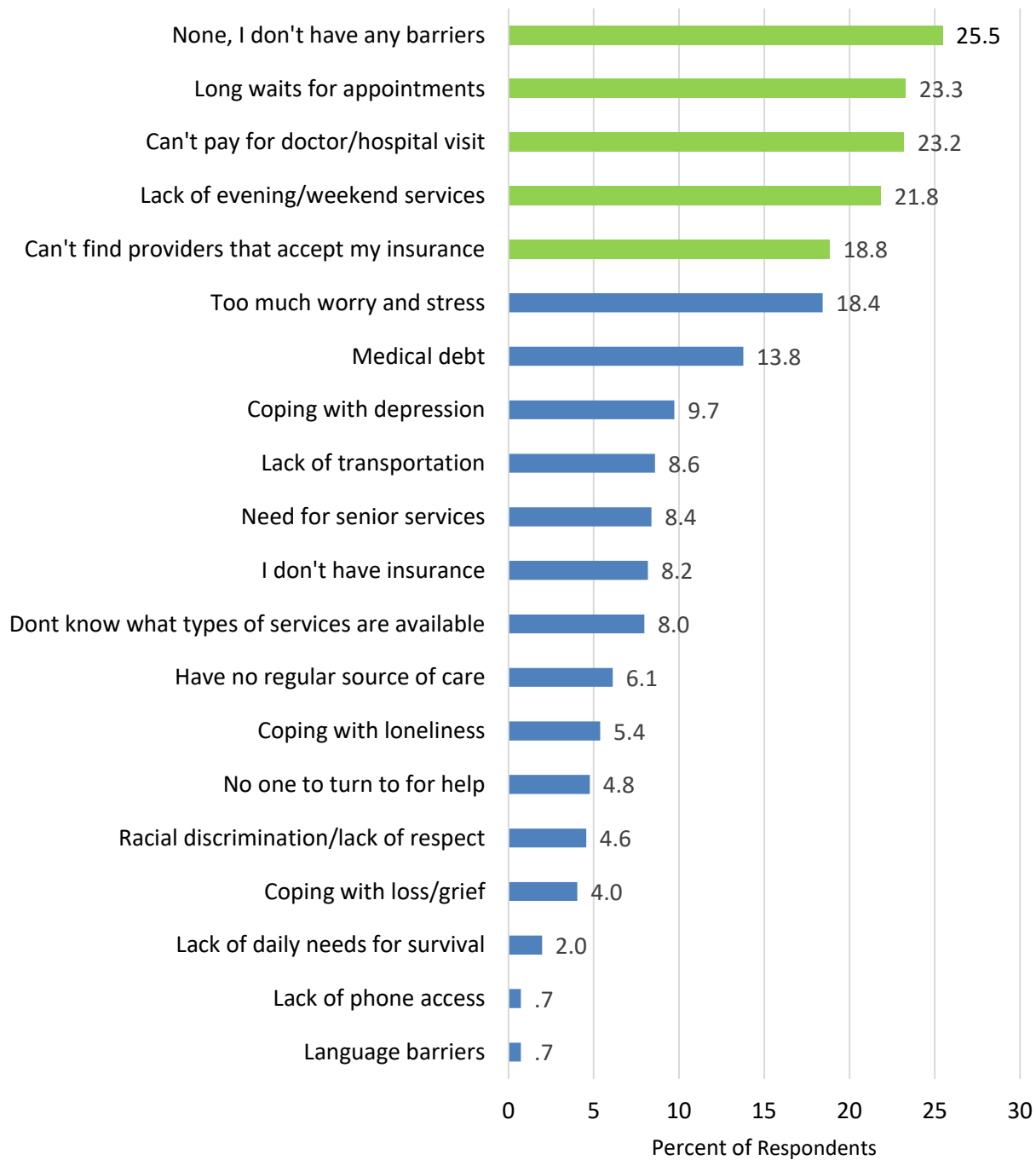
## Barriers for YOU to Get or Stay Healthy

Survey Question: What do you feel are barriers for YOU getting or staying healthy in your county? (Check ALL that apply):



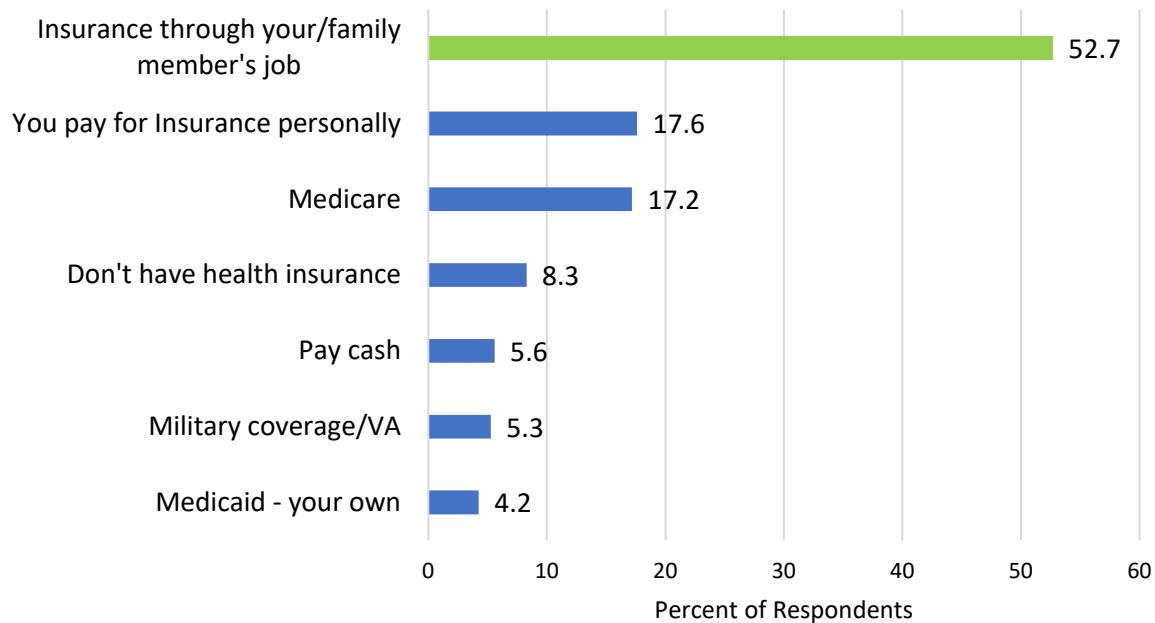
## Barriers for YOU to get Health Care

Survey Question: What do you feel are barriers for YOU getting health care in your county?  
(Check ALL that apply)



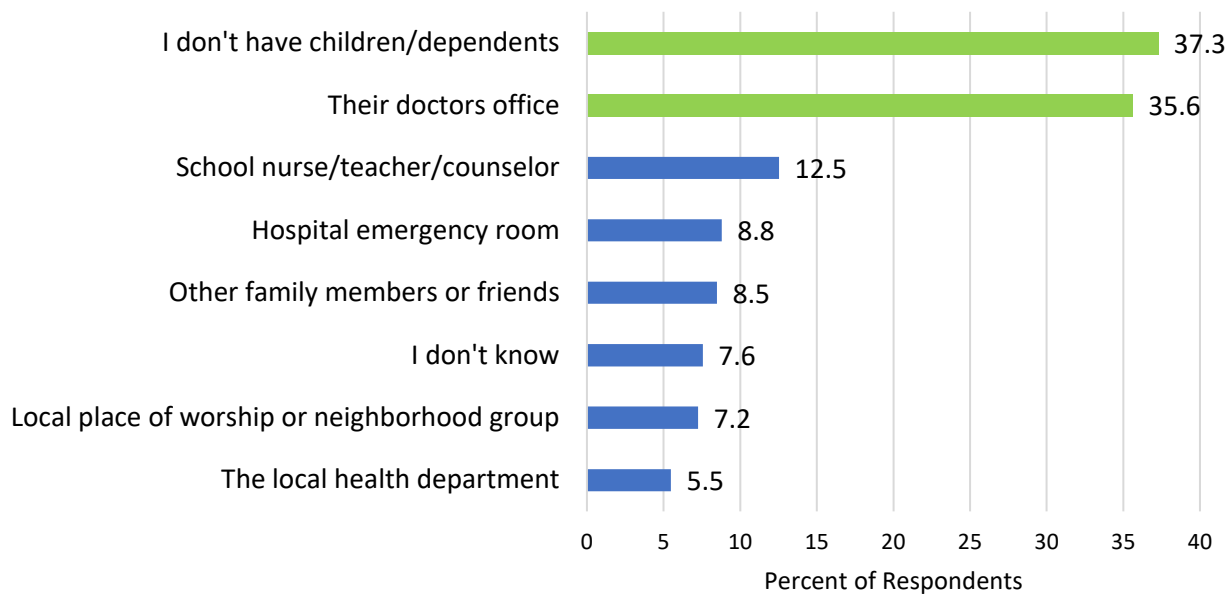
## Health Coverage

Survey Question: How is your health care covered? (Check ALL that apply)



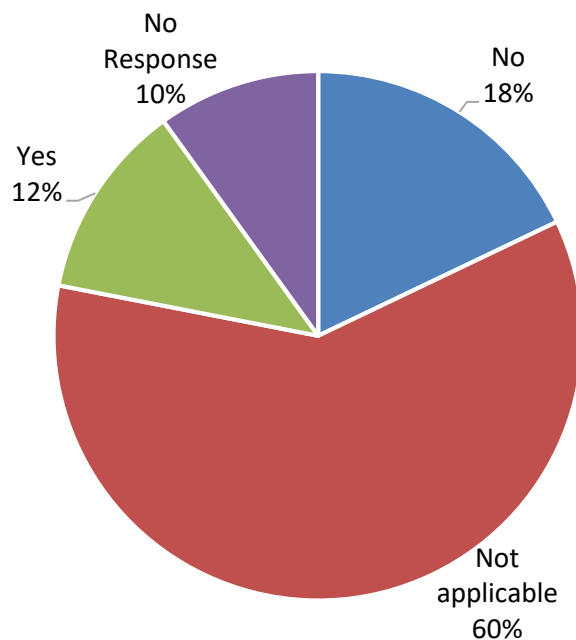
## Where You Would Go if you were Concerned about Your Child

Survey Question: Where would you go if you were worried about your child's mental, physical or social health? (Check ALL that apply)



## Child Care

Survey Question: Do problems getting child care make it difficult for you to work or study?

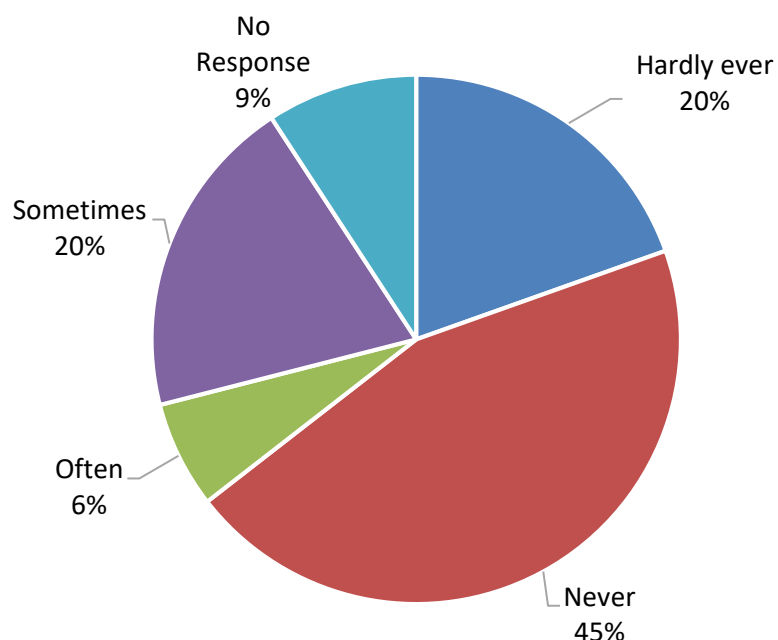


Survey Questions	Yes	No	Don't Know/ Not Sure	No response
<b>Safety:</b> Are you afraid you might be hurt in your apartment building or house?	5.2%	75.1%	10.2%	9.5%
<b>Safety:</b> Do you have a safe place or is there someplace where you feel safe?	84.6%	3.9%	2.4%	9.1%
<b>Stable Housing:</b> Are you worried or concerned that in the next 2 months you may not have stable housing that you own, rent, or stay in as part of a household?	8.4%	77.3%	4.8%	9.5%

<b>Survey Question:</b> <b>Within the last 12 months:</b>	Yes	No	Don't Know/ Not Sure	No response
<b>Utilities:</b> Has the utility company shut off your services for not paying your bills?	<b>5.2%</b>	<b>85.2%</b>	<b>0.7%</b>	<b>8.9%</b>
<b>Food Insecurity:</b> Did you ever eat less because there wasn't enough money for food?	<b>16.8%</b>	<b>73.0%</b>	<b>0.7%</b>	<b>9.5%</b>
<b>Food Insecurity:</b> Did you worry if your food would run out before you got money to buy more?	<b>17.7%</b>	<b>71.4%</b>	<b>1.0%</b>	<b>9.8%</b>
<b>Healthcare Costs:</b> Was there a time you needed to see a doctor but could not because of cost?	<b>32.0%</b>	<b>57.2%</b>	<b>1.0%</b>	<b>9.7%</b>
<b>Transportation:</b> Ever had to go without health care because you didn't have a way to get there?	<b>6.8%</b>	<b>82.8%</b>	<b>0.7%</b>	<b>9.6%</b>

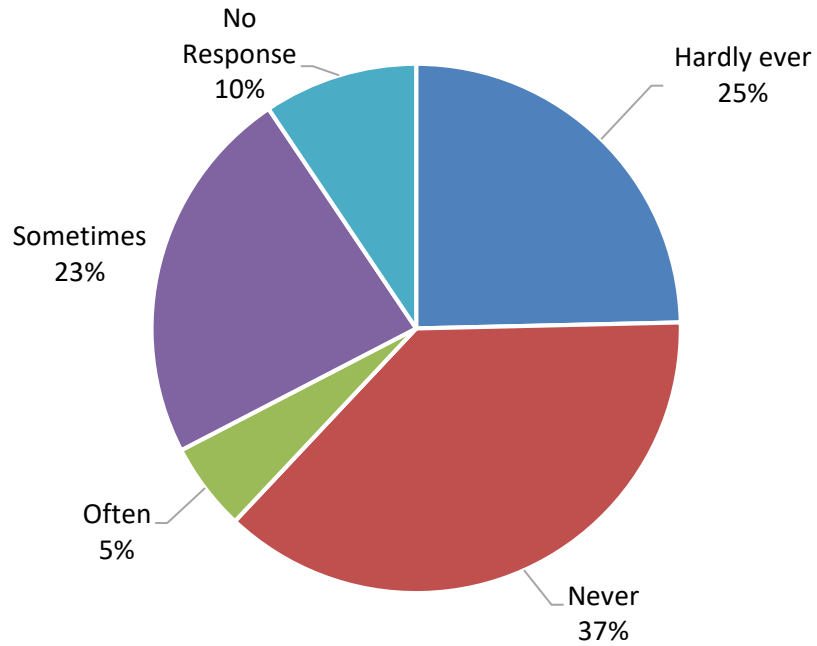
## Social Isolation

Survey Question: How often do you feel that you lack companionship?



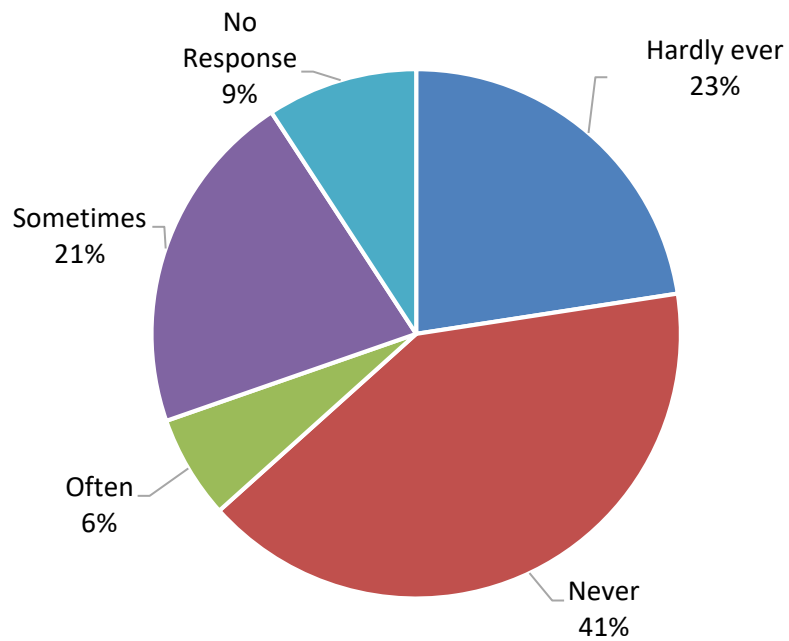
## Social Isolation

Survey Question: How often do you feel left out?



## Social Isolation

Survey Question: How often do you feel isolated from others?



## Creating a Healthier Flagler & Volusia: 2019 Community Survey

We need your assistance to better understand the health of Volusia & Flagler counties. You can help by completing this health survey. The survey results will be used to compile the community health needs assessment. Thank you!

1. Where do you live?  Flagler  Volusia  Another Florida County  Outside of Florida      2. Zip code: \_\_\_\_\_

3. How do you rate your overall health? (Check **ONE**)     Excellent     Good     Fair     Poor     Don't know

**4. Check up to 5 things that allow YOU to be healthy where you live:**

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Churches or other places of worship         | <input type="checkbox"/> Good place to raise kids       | <input type="checkbox"/> Absence of discrimination               |
| <input type="checkbox"/> Access to health care                       | <input type="checkbox"/> Good jobs, healthy economy     | <input type="checkbox"/> Presence of advanced medical technology |
| <input type="checkbox"/> Places where I can be active & safe         | <input type="checkbox"/> Good education                 | <input type="checkbox"/> Good place to grow old                  |
| <input type="checkbox"/> Access to public transportation             | <input type="checkbox"/> Safe neighborhood/safe to walk | <input type="checkbox"/> Schools focused on children's health    |
| <input type="checkbox"/> Affordable and/or available housing options | <input type="checkbox"/> Preventative health care       | <input type="checkbox"/> Access to healthy foods                 |
| <input type="checkbox"/> Access to social and mental health services | <input type="checkbox"/> Clean and healthy environment  | <input type="checkbox"/> Other _____                             |

**5. Check up to 5 health issues YOU are most concerned about in your county:**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Asthma/respiratory/lung disease            | <input type="checkbox"/> Addiction – alcohol or drug  | <input type="checkbox"/> Child abuse/neglect                   |
| <input type="checkbox"/> End of life care                           | <input type="checkbox"/> Mental health problems       | <input type="checkbox"/> Teenage pregnancy                     |
| <input type="checkbox"/> Environmental health, sewers, septic tanks | <input type="checkbox"/> Cancer                       | <input type="checkbox"/> HIV/AIDS                              |
| <input type="checkbox"/> Heart disease & stroke                     | <input type="checkbox"/> Diabetes                     | <input type="checkbox"/> Domestic violence                     |
| <input type="checkbox"/> Infant mortality/infant death              | <input type="checkbox"/> Motor vehicle crash injuries | <input type="checkbox"/> Adult obesity                         |
| <input type="checkbox"/> Sexually transmitted diseases              | <input type="checkbox"/> Firearms in homes            | <input type="checkbox"/> Childhood obesity                     |
| <input type="checkbox"/> High blood pressure                        | <input type="checkbox"/> Dental problems              | <input type="checkbox"/> Violence (rape, assault, crime, etc)  |
| <input type="checkbox"/> Unemployment                               | <input type="checkbox"/> Smoking/tobacco use          | <input type="checkbox"/> Access to healthy food/grocery stores |
| <input type="checkbox"/> Cholesterol                                | <input type="checkbox"/> Homelessness                 | <input type="checkbox"/> Other _____                           |

**6. Check up to 5 unhealthy behaviors YOU are most concerned about in your county:**

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Alcohol/drug abuse                | <input type="checkbox"/> Lack of exercise                       | <input type="checkbox"/> Tobacco use                      |
| <input type="checkbox"/> Poor nutrition/poor eating habits | <input type="checkbox"/> Not getting "shots" to prevent disease | <input type="checkbox"/> Unlicensed and/or unsafe drivers |
| <input type="checkbox"/> Dropping out of school            | <input type="checkbox"/> Not using birth control                | <input type="checkbox"/> Unsafe sex (teen & adult)        |
| <input type="checkbox"/> Mental health problems/stress     | <input type="checkbox"/> Discrimination                         | <input type="checkbox"/> Being overweight/obese           |
| <input type="checkbox"/> Poor dental/oral health           | <input type="checkbox"/> Overuse of emergency rooms             | <input type="checkbox"/> Other _____                      |

**7. What health care services are difficult to obtain in your community? (Check ALL that apply):**

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Alternative therapy           | <input type="checkbox"/> Prescriptions/medications/medical supplies          | <input type="checkbox"/> Prenatal care                  |
| <input type="checkbox"/> Dental/oral care              | <input type="checkbox"/> Preventive care (i.e. annual check ups)             | <input type="checkbox"/> Mental health/counseling       |
| <input type="checkbox"/> Emergency room/Inpatient care | <input type="checkbox"/> Primary care (i.e. family doctor or walk-in clinic) | <input type="checkbox"/> Physical therapy/rehab therapy |
| <input type="checkbox"/> Family planning/birth control | <input type="checkbox"/> Specialty doctor care (i.e. heart doctor)           | <input type="checkbox"/> Vision/eye care                |
| <input type="checkbox"/> X-rays/mammograms/lab work    | <input type="checkbox"/> Substance abuse services - drug & alcohol           | <input type="checkbox"/> Other _____                    |

**8. What do you feel are barriers for YOU getting or staying healthy in your county? (Check ALL that apply):**

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> I work too much                          | <input type="checkbox"/> I don't have good health insurance      | <input type="checkbox"/> I can't get to somewhere that sells healthy food |
| <input type="checkbox"/> It's hard to be healthy where I work     | <input type="checkbox"/> I can't get to somewhere I can exercise | <input type="checkbox"/> I can't exercise outside                         |
| <input type="checkbox"/> I don't have support from family/friends | <input type="checkbox"/> I don't exercise                        | <input type="checkbox"/> It's hard or expensive to cook/eat healthy       |
| <input type="checkbox"/> I don't like healthy food                | <input type="checkbox"/> None, I don't have any barriers         | <input type="checkbox"/> Other _____                                      |

**9. What do you feel are barriers for YOU getting health care in your county? (Check ALL that apply):**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Lack of transportation                          | <input type="checkbox"/> Have no regular source of care          | <input type="checkbox"/> Racial discrimination/lack of respect |
| <input type="checkbox"/> Can't pay for doctor/hospital visits            | <input type="checkbox"/> Lack of evening and/or weekend services | <input type="checkbox"/> Medical debt                          |
| <input type="checkbox"/> Can't find providers that accept my insurance   | <input type="checkbox"/> Long waits for appointments             | <input type="checkbox"/> Lack of phone access                  |
| <input type="checkbox"/> Don't know what types of services are available | <input type="checkbox"/> No one to turn to for help              | <input type="checkbox"/> I don't have insurance                |
| <input type="checkbox"/> Too much worry and stress                       | <input type="checkbox"/> Lack of daily needs for survival        | <input type="checkbox"/> Coping with loss/grief                |
| <input type="checkbox"/> Language barriers                               | <input type="checkbox"/> Coping with loneliness                  | <input type="checkbox"/> None, I don't have any barriers       |
| <input type="checkbox"/> Need for senior services                        | <input type="checkbox"/> Coping with depression                  | <input type="checkbox"/> Other _____                           |

Please continue to page 2.



## Creating a Healthier Flagler & Volusia: 2019 Community Survey

**10. How is your health care covered? (Check ALL that apply):**

- Insurance: your or a family member's job   
  Medicare   
  Medicaid – your own   
  Don't have health insurance  
 Insurance you pay for personally   
  Military coverage/VA   
  Pay cash   
  Other \_\_\_\_\_

**11. Where would you go if you were worried about your child's mental, physical or social health? (Check ALL that apply):**

- I don't have children/dependents   
  The local health department   
  School nurse/teacher/counselor  
 Their doctor's office   
  Hospital emergency room   
  I don't know  
 Other family members or friends   
  Local place of worship or neighborhood group   
  Other \_\_\_\_\_

12. Do problems getting child care make it difficult for you to work or study?   
  Yes     No     Not applicable  
 13. Are you afraid you might be hurt in your apartment building or house?   
  Yes     No     Don't know/not sure  
 14. Are you worried or concerned that in the next 2 months you may not have stable housing that you own, rent, or stay in as part of a household?   
  Yes     No     Don't know/not sure  
 15. Do you have a safe place or is there someplace where you feel safe?   
  Yes     No     Don't know/not sure

**Within the last 12 months:**

16. Has the utility company shut off your services for not paying your bills?   
  Yes     No     Don't know/not sure  
 17. Did you ever eat less because there wasn't enough money for food?   
  Yes     No     Don't know/not sure  
 18. Did you worry if your food would run out before you got money to buy more?   
  Yes     No     Don't know/not sure  
 19. Was there a time you needed to see a doctor but could not because of cost?   
  Yes     No     Don't know/not sure  
 20. Ever had to go without health care because you didn't have a way to get there?   
  Yes     No     Don't know/not sure

21. How often do you feel that you lack companionship?   
  Never     Hardly ever     Sometimes     Often  
 22. How often do you feel left out?   
  Never     Hardly ever     Sometimes     Often  
 23. How often do you feel isolated from others?   
  Never     Hardly ever     Sometimes     Often

**Demographics:**

24. Age:   
 less than 18   
 18-24   
 25-34   
 35-44   
 45-54   
 55-64   
 65+

25. Marital Status:   
 Single   
 Married   
 Divorced   
 Widowed

26. Gender:   
 Female   
 Male

**27. Race: With which group do you most identify? (Check ONE selection)**

- Black/African American   
 Mixed Race   
 Asian   
 Hawaiian Native/Pacific Islander  
 White/Caucasian   
 Native American/Alaskan Native   
 Other \_\_\_\_\_

28. With which ethnic group do you most identify? (Check ONE selection)   
 Not Hispanic/Latino   
 Hispanic/Latino

**29. Education: Please check the highest level completed: (Check ONE selection)**

- Elementary/Middle School   
 Some College   
 4-year College/Bachelor's Degree  
 High School Diploma or GED   
 Technical/Community College   
 Graduate/Advanced Degree

**30. Employment Status: (Check ONE selection):**

- Employed full-time   
 Self-employed   
 Not seeking work   
 Home maker   
 Student  
 Employed part-time   
 Unemployed   
 Retired   
 Other \_\_\_\_\_

**31. Annual Household Income: (Check ONE selection)**

- Less than \$10,000   
 \$20,000 to \$29,999   
 \$50,000 to \$74,999   
 \$100,000 or more  
 \$10,000 to \$19,999   
 \$30,000 to \$49,999   
 \$75,000 to \$99,999

Thank you for taking the time to complete this survey! If you have any questions or would like to participate in the community health needs assessment process, email Laureen Husband at [Laureen.Husband@flhealth.gov](mailto:Laureen.Husband@flhealth.gov). Mail completed surveys to Community Health Survey, Department of Health-Volusia, 1845 Holsonback Drive, Bin #126, Daytona Beach, FL 32117.

# APPENDIX B: SECONDARY DATA REPORT

The Flagler County Community Health Needs Assessment document can be found at [www.flaglercares.org/2019flaglerchna.pdf](http://www.flaglercares.org/2019flaglerchna.pdf)

Additional Secondary data collected and analyzed is noted below.

## AdventHealth Palm Coast Needs Assessment Report - Quick Facts

### Location

AdventHealth Palm Coast Service Area

### Demographics

Data Indicator	Indicator Variable	Location Summary	State Average
Population Age 65+	Total Population	95,207	20,278,447
	Population Age 65+	26,454	3,926,889
	Percent Population Age 65+	27.79%	19.36%
Population Age 0-18	Total Population	95,207	20,278,447
	Population Age 0-17	17,513	4,111,582
	Percent Population Age 0-17	18.39%	20.28%
Population Age 18-64	Total Population	95,207	20,278,447
	Population Age 18-64	51,240	12,239,976
	Percent Population Age 18-64	53.82%	60.36%
Total Population	Total Population	95,207	20,278,447
	Total Land Area (Square Miles)	431	53,634
	Population Density (Per Square Mile)	220.7	378.09
Change in Total Population	Total Population, 2000 Census	42,566	15,982,378
	Total Population, 2010 Census	87,037	18,801,310
	Total Population Change, 2000-2010	44,471	2,818,932
	Percent Population Change, 2000-2010	104.48%	17.64%
Female Population	Total Population	95,207	20,278,447

	Female Population	49,573	10,364,086
	Percent Female Population	52.07%	51.11%
<b>Hispanic Population</b>	Total Population	95,207	20,278,447
	Non-Hispanic Population	85,130	15,263,432
	Percent Population Non-Hispanic	89.42%	75.27%
	Hispanic or Latino Population	10,076	5,015,015
	Percent Population Hispanic or Latino	10.58%	24.73%
<b>Male Population</b>	Total Population	95,207	20,278,447
	Male Population	45,634	9,914,361
	Percent Male Population	<b>47.93%</b>	48.89%

## Social & Economic Factors

Data Indicator	Indicator Variable	Location Summary	State Average
<b>Violent Crime</b>	Total Population	90,946	19,536,492
	Violent Crimes	241	92,236
	Violent Crime Rate (Per 100,000 Pop.)	265	472
<b>Population with No High School Diploma</b>	Total Population Age 25+	71,070	14,396,066
	Population Age 25+ with No High School Diploma	5,814	1,787,348
	Percent Population Age 25+ with No High School Diploma	8.20%	12.42%
<b>Poverty - Population Below 100% FPL</b>	Total Population	94,191	19,858,469
	Population in Poverty	12,963	3,070,972
	Percent Population in Poverty	13.80%	15.46%
<b>Insurance - Uninsured Adults</b>	Total Population Age 18 - 64	51,871	12,071,750
	Population with Medical Insurance	42,626	9,845,200
	Percent Population with Medical Insurance	82.20%	81.56%
	Population Without Medical Insurance	9,245	2,226,550
	Percent Population Without Medical Insurance	17.82%	18.44%
<b>Insurance - Uninsured Children</b>	Total Population Under Age 19	17,878	4,291,510
	Population with Medical Insurance	16,444	4,009,046
	Percent Population with Medical Insurance	92.00%	93.42%

	Population Without Medical Insurance	1,434	282,464
	Percent Population Without Medical Insurance	8.02%	6.58%
<b>Income - Per Capita Income</b>	Total Population	95207	20,278,447
	Total Income (\$)	\$2,353,367,571.00	\$583,486,218,200.00
	Per Capita Income (\$)	\$24,718.00	\$28,773.00
<b>Unemployment Rate</b>	Labor Force	39,655	10,314,179
	Number Employed	36,607	9,976,217
	Number Unemployed	3,048	337,962
	Unemployment Rate	7.70%	3.30%
<b>Lack of Social or Emotional Support</b>	Total Population Age 18+	68,645	14,682,954
	Estimated Population Without Adequate Social / Emotional Support	12,150	3,127,469
	Crude Percentage	17.70%	21.30%
	Age-Adjusted Percentage	17.30%	21.20%
<b>Teen Births</b>	Female Population Age 15 - 19	2,459	597,095
	Births to Mothers Age 15 - 19	80	21,555
	Teen Birth Rate (Per 1,000 Population)	32.54	36.1
<b>Food Insecurity Rate</b>	Total Population	88,497	19,893,297
	Food Insecure Population, Total	15,207	3,227,600
	Food Insecurity Rate	17.20%	16.20%
<b>Poverty - Children Below 100% FPL</b>	Total Population	94,191	19,858,469
	Population Under Age 18	16,764	4,044,879
	Population Under Age 18 in Poverty	3,733	901,772
	Percent Population Under Age 18 in Poverty	<b>22.27%</b>	22.29%

## Physical Environment

Data Indicator	Indicator Variable	Location Summary	State Average
<b>Use of Public Transportation</b>	Total Population Employed Age 16+	35,262	8,907,171
	Population Using Public Transit for Commute to Work	105	180,231
	Percent Population Using Public Transit for Commute to Work	0.30%	2.00%
<b>Population with Low</b>	Total Population	87,036	18,801,310

Food Access	Population with Low Food Access	47,110	4,831,135
	Percent Population with Low Food Access	<b>54.13%</b>	25.70%

## Clinical Care

Data Indicator	Indicator Variable	Location Summary	State Average
Access to Dentists	Total Population, 2015	95,856	20,271,272
	Dentists, 2015	31	11,304
	Dentists, Rate per 100,000 Pop.	32.3	55.8
Cancer Screening - Sigmoidoscopy or Colonoscopy	Total Population Age 50+	33,910	5,497,252
	Estimated Population Ever Screened for Colon Cancer	20,143	3,628,186
	Crude Percentage	59.40%	66.00%
	Age-Adjusted Percentage	58.10%	61.50%
Cancer Screening - Mammogram	Total Medicare Enrollees	14,338	1,861,794
	Female Medicare Enrollees Age 67-69	1,402	161,850
	Female Medicare Enrollees with Mammogram in Past 2 Years	1,026	109,429
	Percent Female Medicare Enrollees with Mammogram in Past 2 Year	73.20%	67.60%
Cancer Screening - Pap Test	Female Population Age 18+	57,556	11,566,352
	Estimated Number with Regular Pap Test	47,023	8,894,525
	Crude Percentage	81.70%	76.90%
	Age-Adjusted Percentage	83.50%	78.80%
Federally Qualified Health Centers	Total Population	37,821	18,801,310
	Number of Federally Qualified Health Centers	1	406
	Rate of Federally Qualified Health Centers per 100,000 Population	2.64	2.16
Lack of a Consistent Source of Primary Care	Survey Population (Adults Age 18+)	86,149	14,671,272
	Total Adults Without Any Regular Doctor	19,799	3,638,104
	Percent Adults Without Any Regular Doctor	23.00%	24.80%
Preventable Hospital Events	Total Medicare Part A Enrollees	11,277	1,506,764
	Ambulatory Care Sensitive Condition Hospital Discharges	5,958	80,828
	Ambulatory Care Sensitive Condition Discharge Rate	<b>52.8</b>	<b>53.6</b>

## Health Behaviors

Data Indicator	Indicator Variable	Location Summary	State Average
Alcohol Consumption	Total Population Age 18+	68,645	14,682,954
	Estimated Adults Drinking Excessively	8,787	2,334,590
	Estimated Adults Drinking Excessively (Crude Percentage)	12.80%	15.90%
	Estimated Adults Drinking Excessively (Age-Adjusted Percentage)	15.60%	17.10%
Physical Inactivity	Total Population Age 20+	76,913	15,678,149
	Population with no Leisure Time Physical Activity	20,689	3,874,964
	Percent Population with no Leisure Time Physical Activity	24.70%	23.60%
Tobacco Usage - Current Smokers	Total Population Age 18+	68,645	14,682,954
	Total Adults Regularly Smoking Cigarettes	15,445	2,642,932
	Percent Population Smoking Cigarettes (Crude)	22.50%	18.00%
	Percent Population Smoking Cigarettes (Age-Adjusted)	28.20%	18.90%

## Health Outcomes

Data Indicator	Indicator Variable	Location Summary	State Average
Mortality - Lung Disease	Total Population	93,575	19,929,487
	Average Annual Deaths, 2007-2011	64	11,363
	Crude Death Rate (Per 100,000 Pop.)	68.23	57.02
	Age-Adjusted Death Rate (Per 100,000 Pop.)	34.12	38.55
Mortality - Unintentional Injury	Total Population	93,575	19,929,487
	Average Annual Deaths, 2010-2014	42	10,015
	Crude Death Rate (Per 100,000 Pop.)	44.9	50.25
	Age-Adjusted Death Rate (Per 100,000 Pop.)	41.89	44.43
Mortality - Heart Disease	Total Population	93,575	19,929,487
	Average Annual Deaths, 2010-2014	245	44,078
	Crude Death Rate (Per 100,000 Pop.)	261.85	221.17
	Age-Adjusted Death Rate (Per 100,000 Pop.)	141.54	149.9

<b>High Blood Pressure (Adult)</b>	Total Population (Age 18+)	68,644	14,682,954
	Total Adults with High Blood Pressure	21,691	4,155,276
	Percent Adults with High Blood Pressure	31.60%	28.30%
<b>Cancer Incidence - Lung</b>	Estimated Total Population	17,442	2,771,859
	New Cases (Annual Average)	114	16548
	Cancer Incidence Rate (Per 100,000 Pop.)	65.7	59.7
<b>Mortality - Premature Death</b>	Total Population	87,037	56,417,393
	Total Premature Death, 2014-2016	411	256,433
	Total Years of Potential Life Lost, 2014-2016 Average	6,182	4,112,576
	Years of Potential Life Lost, Rate per 100,000 Population	7,103	7,290
<b>Cancer Incidence - Prostate</b>	Estimated Total Population (Male)	8,758	1,300,513
	New Cases (Annual Average)	70	12,667
	Cancer Incidence Rate (Per 100,000 Pop.)	81	97.4
<b>Cancer Incidence - Breast</b>	Estimated Total Population (Female)	8,120	1,330,172
	New Cases (Annual Average)	95	15,430
	Cancer Incidence Rate (Per 100,000 Pop.)	117.6	116
	Estimated Total Population (Female)	4,547	1,048,314
<b>Cancer Incidence - Cervix</b>	New Cases (Annual Average)	2	933
	Cancer Incidence Rate (Per 100,000 Pop.)	6	8.9
<b>Cancer Incidence - Colon and Rectum</b>	Estimated Total Population	15,767	2,653,116
	New Cases (Annual Average)	62	9,790
	Cancer Incidence Rate (Per 100,000 Pop.)	39.8	36.9
<b>Obesity</b>	Total Population Age 20+	76,841	15,687,277
	Adults with BMI > 30.0 (Obese)	19,440	4,162,381
	Percent Adults with BMI > 30.0 (Obese)	25.30%	26.60%
<b>Overweight</b>	Survey Population (Adults Age 18+)	84,386	14,014,811
	Total Adults Overweight	32,215	5,146,693
	Percent Adults Overweight	38.20%	36.70%
<b>Diabetes (Adult)</b>	Total Population Age 20+	77,090	15,705,775

	Population with Diagnosed Diabetes	9,636	1,715,434
	Population with Diagnosed Diabetes, Age-Adjusted Rate	8.80%	9.22%
<b>Poor General Health</b>	Total Population Age 18+	68,645	14,682,954
	Estimated Population with Poor or Fair Health	10,914	2,525,468
	Crude Percentage	15.90%	17.20%
	Age-Adjusted Percentage	15.60%	15.90%
<b>Mortality - Suicide</b>	Total Population	93,575	19,929,487
	Average Annual Deaths, 2010-2014	17	3,063
	Crude Death Rate (Per 100,000 Pop.)	18.66	15.37
	Age-Adjusted Death Rate (Per 100,000 Pop.)	17.94	14.09
<b>Mortality - Homicide</b>	Total Population	93,575	19,929,487
	Average Annual Deaths, 2010-2014	3	1,202
	Crude Death Rate (Per 100,000 Pop.)	3.3	6.03
	Age-Adjusted Death Rate (Per 100,000 Pop.)	No data	6.39
<b>Mortality - Cancer</b>	Total Population	93,575	19,929,487
	Average Annual Deaths, 2010-2014	289	43,286
	Crude Death Rate (Per 100,000 Pop.)	308.69	217.19
	Age-Adjusted Death Rate (Per 100,000 Pop.)	165.97	152.86
<b>Mortality - Stroke</b>	Total Population	93,575	19,929,487
	Average Annual Deaths, 2010-2014	60	10,042
	Crude Death Rate (Per 100,000 Pop.)	63.76	50.39
	Age-Adjusted Death Rate (Per 100,000 Pop.)	33.07	33.87
<b>High Cholesterol (Adult)</b>	Survey Population (Adults Age 18+)	64,796	11,691,020
	Total Adults with High Cholesterol	31,153	4,898,256
	Percent Adults with High Cholesterol	48.08%	41.90%
<b>Heart Disease (Adult)</b>	Survey Population (Adults Age 18+)	85,446	14,681,551
	Total Adults with Heart Disease	4,137	822,348
	Percent Adults with Heart Disease	4.80%	5.60%
<b>Depression (Medicare)</b>	Total Medicare Fee-for-Service Beneficiaries	17,193	2,222,669



<b>Population)</b>	Beneficiaries with Depression	2,605	420,851
	Percent with Depression	15.20%	18.90%
<b>Poor Dental Health</b>	Total Population (Age 18+)	66,752	14,682,954
	Total Adults with Poor Dental Health	11,971	2,635,605
	Percent Adults with Poor Dental Health	17.90%	18.00%
<b>Infant Mortality</b>	Total Births	4,111	1,133,160
	Total Infant Deaths	24	7,932
	Infant Mortality Rate (Per 1,000 Births)	5.8	7
<b>Low Birth Weight</b>	Total Live Births	5,537	1,585,346
	Low Weight Births (Under 2500g)	437	137,925
	Low Weight Births, Percent of Total	7.89%	8.70%
<b>Asthma Prevalence</b>	Survey Population (Adults Age 18+)	87,154	14,756,311
	Total Adults with Asthma	10,361	1,841,437
	Percent Adults with Asthma	11.90%	12.50%

<https://ahs.engagementnetwork.org>, 1/9/2019

# APPENDIX C: HOSPITAL UTILIZATION & EMERGENCY ROOM DATA

Below are the top 10 diagnoses for AdventHealth Palm Coast in 2018.

## Emergency Department

1. Urinary tract infection, site not specified
2. Unspecified abdominal pain
3. Chest pain, unspecified
4. Essential (primary) hypertension
5. Acute upper respiratory infection, unspecified
6. Headache
7. Low back pain
8. Bronchitis, not specified as acute or chronic
9. Acute bronchitis, unspecified
10. Noninfective gastroenteritis and colitis, unspecified

## Inpatient Admissions

1. Laparoscopic Cholecystectomy
2. Hernia Procedures Except Inguinal & Femoral
3. Nonspecific Cerebrovascular Disorders
4. Traumatic Stupor & Coma, Coma <1 Hr
5. Transurethral Procedures
6. Acute Myocardial Infarction, Discharged Alive
7. Postoperative & Post-Traumatic Infections
8. Stomach, Esophageal & Duodenal Procedures
9. Extracranial Procedures
10. Septicemia or Severe Sepsis

# APPENDIX D: COMMUNITY ASSET INVENTORY

Location: Hospital or Community	Organization	Program Title	Target Population	Counties Served	Program Point of Contact
ISSUE 1: ADULT BEHAVIORAL HEALTH					
ISSUE 2: YOUTH BEHAVIORAL HEALTH					
Community	Multiple	Behavioral Health Consortium	Collaborative of BH leaders	Volusia/ Flagler	icosimi@smahealthcare.org
Community	SMA Healthcare	Inpatient and outpatient SAMH programs	Individuals with mental health of substance use challenges	Circuit 7	800-539-4228  Smahealthcare.org
Community	Halifax Health	Psychiatric programs	Individuals with mental illness	Volusia/ Flagler	877-842-5432 Halifaxhealth.org
Community	Children's Home Society	Counseling	Individuals/ Families with MH needs	Volusia/ Flagler	386-304-7605 Chsfl.org
Hospital	AdventHealth Palm Coast	Lung Cancer screenings	Screen adults for Lung cancer	Flagler	CLARISSA.MOHOLICK@AdventHealth.com
Hospital	AdventHealth Palm Coast	CREATION Health	At risk community	Flagler	Lauren.Dye@AdventHealth.com
ISSUE 1: ADULT BEHAVIORAL HEALTH					
AdventHealth Palm Coast	AHEC in partnership with AdventHealth Palm Coast	Tools to Quit Smoking Cessation classes	Adults who smoke	Flagler	Vicki Evans, AHEC vevans@northfloridaahec.org
ISSUE 2: YOUTH BEHAVIORAL HEALTH					
Palm Coast High School & Matanzas High School	AdventHealth Palm Coast	Scholarship Program that started in 2004	students interested in medical field-related studies	Flagler	Lauren.Dye@AdventHealth.com
Hospital	AdventHealth Palm Coast	Art of Healing Program – Art Gallery in	Students create art to be displayed at the Hospital	Flagler	Lauren.Dye@AdventHealth.com

		ER	ER, influencing students as they make decisions on their future and how they can benefit humanity.		
<b>AdventHealth Palm Coast</b>	Quilters by the Sea	Handmade quilts	Children in ER needing comfort	Flagler	Lauren.Dye@AdventHealth.com
<b>ISSUE 3: CARDIOVASCULAR DISEASE &amp; DIABETES (AND HEALTHY EATING AND PHYSICAL ACTIVITY)</b>					
<b>Daytona International Speedway Heart Walk</b>	American Heart Association in partnership with AdventHealth	Heart Walk	People with interest in heart health	Flagler	Buffy Mckinney Buffy.McKinney@heart.org
<b>Hospital and community</b>	AdventHealth Palm Coast	Laugh Your Heart Out	Adults with interest in heart health	Flagler	Lauren.Dye@AdventHealth.com
<b>Community</b>	Azalea Health	FQHC primary and specialty care	All residents (focused on individuals with Medicaid)	Flagler	386-323-9600 Azahealth.org
<b>Community</b>	FDOH-Flagler	Multiple	All residents	Flagler	386-437-7350 flagler.floridahealth.gov
<b>Hospital</b>	AdventHealth Palm Coast	Community Care	Care coordination services for high risk adults Underserved community in the Hospital PSA	Flagler	Meghan.Budvarson@AdventHealth.com
<b>Daytona Beach</b>	ACS in partnership with AdventHealth	Making Strides	Walkers and Runners interest in Cancer	Flagler	Michelle.Rosato@AdventHealth.com
<b>Flagler Water Safe</b>	Flagler County EMS in partnership with Emergency Medicine	Water safety program for children	Swim lesson scholarships for children, water safety	Flagler	briellegoldberg1@gmail.com

	Professionals				
<b>Community</b>	Early Learning Coalition of Flagler and Volusia	5-2-1-0 (healthy eating & physical activity program)	0-5 Children and families	Volusia/ Flagler	386-323-2400 Elcfv.org
<b>Community</b>	Flagler Schools	School Health Advisory Committee	K12 children and families	Flagler	386-437-7526 Flaglerschools.com
<b>Community</b>	County of Flagler	Parks, playgrounds and trails	All citizens	Flagler	386-313-4000 Flaglercounty.org
<b>ISSUE 4: AVAILABILITY OF HEALTH RESOURCES</b>					
<b>Community</b>	FDOH-Flagler	HIV clinic, TB control, Immunization, surveillance and investigation	All residents	Flagler	386-437-7350 flagler.floridahealth.gov
<b>Flagler Free Clinic</b>	AdventHealth Palm Coast	Free Clinic	Underserved community in the Hospital PSA	Flagler	Terri Belletto terribelletto@cfl.rr.com
<b>Hospital</b>	AdventHealth Palm Coast	Cancer Survivor Day Celebrating Cancer survivors	Underserved community Cancer survivors	Flagler	Michelle.Rosato@AdventHealth.com
<b>211live.org</b>	AdventHealth Palm Coast	211live.org health resources	Underserved community in the Hospital PSA	Flagler	Jeanne Radermacher jrademacher@uwvfc.org
<b>Judith C. Macko Cancer Resource Center at AdventHealth Palm Coast</b>	The Grand Reserve Ladies Golf Association in partnership with AdventHealth Palm Coast	Cancer Resource Center	Breast cancer fund providing mammograms & diagnostic services for qualified population	Flagler	John.Subers@AdventHealth.com

<b>Hospital</b>	AdventHealth Palm Coast	Multiple Myeloma Support Group  Head & Neck Support Group  Breast Cancer Support Group  Lung Cancer Support Group  Look Good Feel Better Cancer Support Group  Thrive-Men's Cancer Support Group  Overeaters Support Group  Monday Night Serenity Group  Stroke Support Group	Support Groups for people with interest in topics offered by the Hospital	Flagler	Michelle.Rosato@AdventHealth.com  Michelle.Rosato@AdventHealth.com  Michelle.Rosato@AdventHealth.com  Michelle.Rosato@AdventHealth.com  Michelle.Rosato@AdventHealth.com  Michelle.Rosato@AdventHealth.com  Lauren.Dye@AdventHealth.com  Lauren.Dye@AdventHealth.com  Lauren.Dye@AdventHealth.com  Lauren.Dye@AdventHealth.com  Lauren.Dye@AdventHealth.com  Lauren.Dye@AdventHealth.com
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		Women's Narcotic Anonymous			Lauren.Dye@AdventHealth.com
		Domestic Violence			
		TEARS			
		Stroke Support Group			
<b>ISSUE 5: SOCIAL &amp; ECONOMIC ISSUES</b>					
<b>Community</b>	County of Flagler	Multiple, family self-sufficiency, financial programs	All residents	Flagler	386-313-4000 Flaglercounty.org
<b>Community</b>	Department of Children and Families	SNAP, Medicaid	At risk families	Circuit 7	904-723-2000 Myflfamilies.com
<b>Community</b>	Volusia/ Flagler Coalition for the Homeless	Homeless prevention and housing programs	At risk families and individuals	Volusia/ Flagler	386-279-0029 Vfch.org
<b>Community</b>	County and Cities	SHIP housing programs, other	At risk families and individuals	Flagler	multiple
<b>Community</b>	Department of Juvenile Justice	Delinquency programs	At risk children	Circuit 7	386-947-3500 Djj.state.fl.us
<b>ISSUE 6: FAMILY VIOLENCE</b>					
<b>Community</b>	Family Life Center	Domestic Violence programs	Victims, perpetrators, children	Volusia Flagler	386-437-3505 Familylifecenter.org
<b>Community</b>	Community Partnership for Children	Child welfare, foster care	At risk families and children	Volusia, Flagler, Putnam	386-238-4900 Communitypartnershipforchildren.org
<b>Community</b>	Department of Children and Families	Child protection investigations	At risk families	Circuit 7	904-723-2000 Myflfamilies.com

<b>Community</b>	Healthy Start Coalition of Flagler and Volusia Counties	Healthy Families	At risk families	Volusia/Flagler	386-252-4277 Healthystartvf.org
<b>ISSUE 7: MOTHERS AND CHILDREN UNDER AGE 5</b>					
<b>Hospital</b>	AdventHealth Palm Coast	Newborn education & Lactation education and tours	Expecting moms and new parents	Flagler	Rebecca.Vernon@AdventHealth.com
<b>Community</b>	Early Learning Coalition of Flagler and Volusia Counties	Multiple, school readiness, VPK	Low income families, all families/ children	Volusia/Flagler	386-323-2400 Elcfv.org
<b>Community</b>	Kidcare	Health coverage	Low income families	Volusia/Flagler	877-842-5432 Halifaxhealth.org
<b>Community</b>	Healthy Start Coalition of Flagler and Volusia Counties	Multiple, women's health, case management	Low income or at-risk families	Volusia/Flagler	386-252-4277 Healthystartvf.org
<b>Community</b>	FDOH-Flagler	Multiple, WIC	Low income or at-risk families	Flagler	386-437-7350 flagler.floridahealth.gov



# APPENDIX E: PRIORITY SELECTION REPORT

## A. Primary & Secondary Data – high-level findings

### List the 8-10 health priorities determined by Primary Data from the County Health Survey

1	Addiction	6	Violence
2	Homelessness	7	Cancer
3	Mental Health problems	8	Adult Obesity
4	Unemployment	9	Heart Disease & Stroke
5	Child Abuse/Neglect	10	High blood pressure

### List the 8-10 health priorities determined by Secondary Data from Hospital Utilization data (ED by top conditions by zip code by payer)

1	Urinary tract infection, site not specified	6	Headache
2	Unspecified abdominal pain	7	Low back pain
3	Chest pain, unspecified	8	Bronchitis, not specified as acute or chronic
4	Essential (primary) hypertension	9	Acute bronchitis, unspecified
5	Acute upper respiratory infection, unspecified	10	Noninfective gastroenteritis and colitis, unspecified

### List the 8-10 health priorities determined by Secondary Data from Hospital Utilization data (Inpatient by top conditions by zip code by payer)

1	Laparoscopic Cholecystectomy	6	Acute Myocardial Infarction, Discharged Alive
2	Hernia Procedures Except Inguinal & Femoral	7	Postoperative & Post-Traumatic Infections
3	Nonspecific Cerebrovascular Disorders	8	Stomach, Esophageal & Duodenal Procedures
4	Traumatic Stupor & Coma, Coma <1 Hr	9	Extracranial Procedures
5	Transurethral Procedures	10	Septicemia or Severe Sepsis

**Top 8-10 Priorities determined from Secondary Data provided by Flagler County Collaborative CHNA**

<b>1</b>	Adult Behavioral Health	<b>6</b>	Healthy Eating and Physical Activity
<b>2</b>	Youth Behavioral Health	<b>7</b>	Social and Economic Issues
<b>3</b>	Cardiovascular Diseases	<b>8</b>	
<b>4</b>	Diabetes	<b>9</b>	
<b>5</b>	Access to Health Care Services	<b>10</b>	

**B. Primary & Secondary Data – Aggregated Priority Issues**

**Aggregate Community Health Needs**

	Priority Issue	Ethnic Group	Age Group	Specific Geographic Area
<b>1</b>	Adult Behavioral Health	all	adults	All of Flagler County
<b>2</b>	Youth Behavioral Health	all	youth	All of Flagler County
<b>3</b>	Cardiovascular Disease	All, minority overrepresentation	all	All of Flagler County, high poverty neighborhoods
<b>4</b>	Diabetes	All, minority overrepresentation	all	All of Flagler County, high poverty neighborhoods
<b>5</b>	Healthy Eating and Physical Activity	All	all	All of Flagler County, high poverty neighborhoods
<b>6</b>	Mothers and Children Under Age 5	All, uninsured, working poor	all	All of Flagler County, high poverty neighborhoods
<b>7</b>	Family Violence	All	all	All of Flagler County, high poverty neighborhoods
<b>8</b>	Social and Economic Issues	All, working poor and below poverty	all	All of Flagler County, high poverty neighborhoods

## C. Community Priority Issues that the Hospital Will Address

### Adult Behavioral Health

- Binge drinking among Flagler adults is lower than in 2013 and lower than Florida percent.
- Alcohol-suspected motor vehicle crash deaths has increased and is higher than Florida rate
- Flagler's death rate is higher than Florida and the rate of death for Hispanics has increased.
- Flagler's death from Opioid overdoses has increased as has its use among individuals seeking treatment for addiction.
- The percent of Flagler women and black individuals using tobacco exceeds the Florida percent.
- 9.3% of Flagler adults had 14 or more poor mental health days in the last month and 12.6% have a depressive disorder (both figures are lower than Florida)
- Flagler has the highest suicide rate in Florida and the rate is increasing.

### Youth Behavioral Health

- Flagler Middle and High School students use alcohol at a slightly higher rate than Florida, but the rate has been decreasing since 2008. (same for binge drinking)
- Flagler Middle School students reported a higher rate of marijuana use than Florida and the trend increased between 2016 and 2018. Flagler High School students reported marijuana use increased from 2014-2018.
- Reported cigarette use among Flagler Middle and High School students has declined, but the High School rate is higher than Florida.
- The Middle and High School use of Vaporizers/E-cigarettes has increased since 2016 and far exceeds cigarette use among Middle and High Schoolers. (data only collected since 2016)
- Flagler's suicide rate among youth age 12-18 is higher than Florida, peaking in 2013-15 (although a relatively small number/count)
- Flagler's K-12 Out of School Suspension rate is higher than Florida and has been increasing since 2014.

### Cardiovascular Diseases & Diabetes (and Healthy Eating & Physical Activity)

- The Flagler death rate for heart failure is higher than Florida and highest for white individuals. Flagler hospitalization rates for Congestive Heart Failure are lower than Florida except among black individuals—that rate is higher. The coronary heart disease death rate is higher for men than women.
- The Flagler hospitalization rate for stroke is higher for black individuals than other groups. The Flagler death rate for stroke is increasing for Flagler and is increasing significantly for Hispanic individuals. The Flagler stroke death rate has been higher than Florida for the past three years.
- The percent of adults with diabetes in 2016 is higher in Flagler than Florida.
- Over 70% of Flagler middle and high school students lack vigorous physical activity. The Flagler percent is better than Florida. 47% of Flagler adults are inactive or insufficiently active (Florida's percent is worse).
- The percent of adults who are obese increased in Flagler between 2013 and 2016.
- The Years of Potential Life Lost (YPLL) rate for Flagler County was higher than Florida for 4 of the 5 past years and increased from 2016 to 2017.

### Mothers and Children Under Age 5

- Births to Flagler mothers age 15-19 increased from 2015 to 2017 and the latest rate is higher than Florida.
- The Flagler rate of Bacterial STDs among women 15-34 has steadily increased since 2013.

- The rate of very low birth weight babies born to black Flagler women has increased since 2012 and exceeds the Florida rate. The rate of low birth weight babies born to black Flagler mothers is also higher than the Florida rate.
- Births to Flagler women with no prenatal care has steadily increased for black women since 2011 and increased in the last 3 years for white women and all women in Flagler.
- The percent of Flagler children “Ready for Kindergarten” is lower than Florida.
- The percent of Flagler children fully immunized has decreased from 2016 to 2018 and the Flagler percent was lower than Florida in 2017 and 2018.
- The percent of Flagler moms who initiated breastfeeding has been lower than Florida for the last 5 years. The percent of black moms who initiated breastfeeding is lower than all other groups.
- The Flagler rate of infant mortality for Hispanic babies has increased since 2011 and is higher than all other groups.

### **Family Violence**

- Flagler’s Domestic Violence offense rate is higher than Florida.
- Flagler’s child abuse rates for children age 5-11 exceeded Florida in 2014 to 2017 and the rate of children the same age experiencing sexual violence is higher than Florida and increasing.
- The number of Flagler infants, children age 1-5 and children age 12-17 in foster care has been increasing since 2012. The number of infants in foster care is higher than Florida since 2014.

## **D. Community Issues that the Hospital Did Not Choose**

### **Respiratory Disorders and Cancer**

- The data collected did not demonstrate significant negative trends or negative comparison to state data.

### **Communicable & Infectious Diseases**

- The data collected did not demonstrate significant negative trends or negative comparison to state data.

### **Availability of Health Resources**

- The data collected did not demonstrate significant negative trends or negative comparison to state data. Many access issues will be addressed as a component of other health priorities.

### **Injuries**

- The data collected did not demonstrate significant negative trends or negative comparison to state data.

### **Social and Economic Issues**

- Social and economic issues will be considered as a component of all priority indicators.