



Collier County

Community *Health* Status

2022



**Comprehensive Report**

Prepared by  
**Health Planning Council of Southwest Florida, Inc.**  
on behalf of Collier County Residents and Health Care  
Providers

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# Population

Demography is the study of human population. In public health the population is monitored and analyzed, since its size, distribution, structure, age composition, and growth are associated with mortality and morbidity levels, life expectancy, risk factors, and access to care. These demographic analyses of the community are an epidemiological tool which assists the County, State, and the Country in the assessment of the health status at all levels. The population levels are utilized in all aspects of public health measurements, including crude numbers, rates, ratios, proportions, incidence and prevalence levels, and life expectancy.

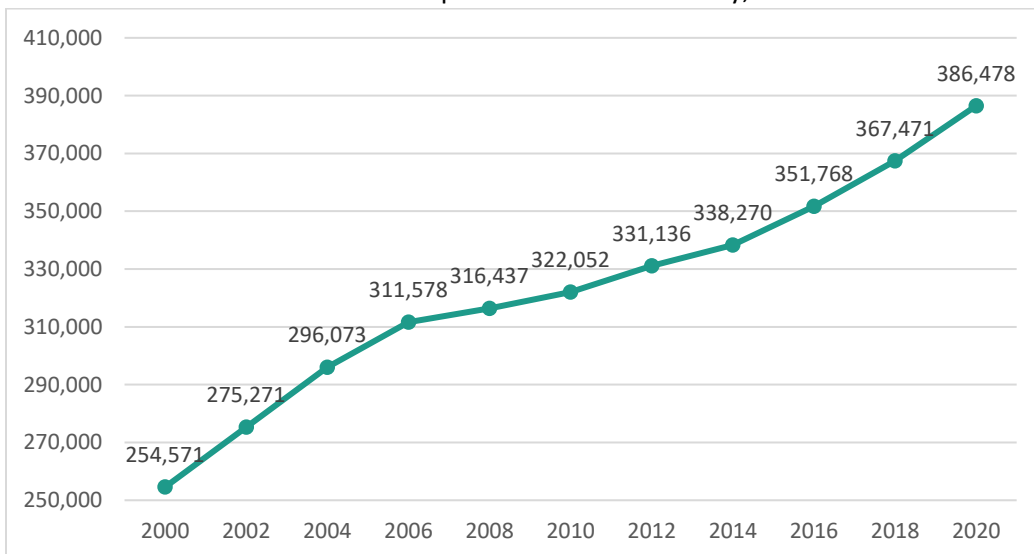
Population trends allow for health care professionals and analysts to strategically plan for levels of utilizations of health services within communities and other geographical areas as well as assess current un-met and future health needs in specific sub-groups and vulnerable populations.

All population characteristics are associated with known levels of quality of life, which in turn result in statistically predictable health status outcomes within a particular community. Since public health is population based, the coupling of demography with epidemiology results in a community health status assessment that will assist us to improve the health of Collier County through integrated community efforts by following the data and analyses as they uncover familiar and emerging trends at the local level.

## Population Growth, Age Distribution, and Gender

Between 2000 and 2020, the resident population of Collier County grew at a swift pace. In terms of actual numbers, Collier County’s population increased by 131,907 from 254,571 in 2000 to a total of 386,748 by 2020.

Exhibit P1: Resident Population in Collier County, 2000-2020



Source: Florida Legislature’s Office of Economic and Demographic Research (EDR)

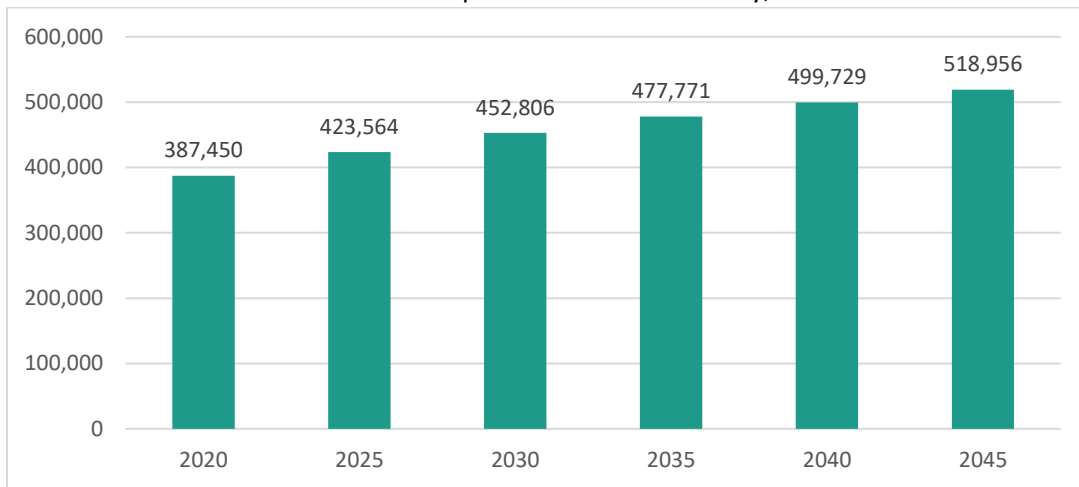
The resident population of Collier County is projected to increase by 141,256 by 2045, resulting in a significantly slower rate of growth of 1.4 percent per year for the period 2020 to 2045, (Exhibit P3). All communities in Collier County are expected to see exponential growth over the next 20 years. It is projected that the three biggest communities, by population, will be North Naples, Urban Estates, and Rural Estates. (Exhibit P4)

Exhibit P2: Collier County Population Rate of Growth, 2000, 2010, 2019

	1990-2000	2000-2010	2010-2019
Percent Change	64.5%	19.2%	17.3%
Population	2000 Census – 254,571	2010 – 322,052	2019 – 377,700

Source: Florida Legislature, Office of Economic and Demographic Research

Exhibit P3: Estimated Population in Collier County, 2020 – 2045



Source: Florida Legislature, Office of Economic and Demographic Research

Exhibit P4: Permanent Population Estimates and Projections by Collier County Communities, 2010, 2020, 2030

Collier Community	2010	2020	2030
North Naples	55,105	59,638	63,395
South Naples	28,859	35,311	38,355
Central Naples	18,856	19,763	20,313
East Naples	22,322	24,022	26,017
Golden Gate	44,963	45,823	46,425
Urban Estates	38,744	49,159	58,893
Rural Estates	34,760	43,457	58,229
Marco	1,221	2,532	3,968
Royal Fakapalm	12,001	21,208	31,732
Corkscrew	4,962	17,035	27,576
Immokalee	24,303	25,934	27,800
Big Cypress	233	246	254

Source: Collier County Comprehensive Planning Section, June 14, 2018

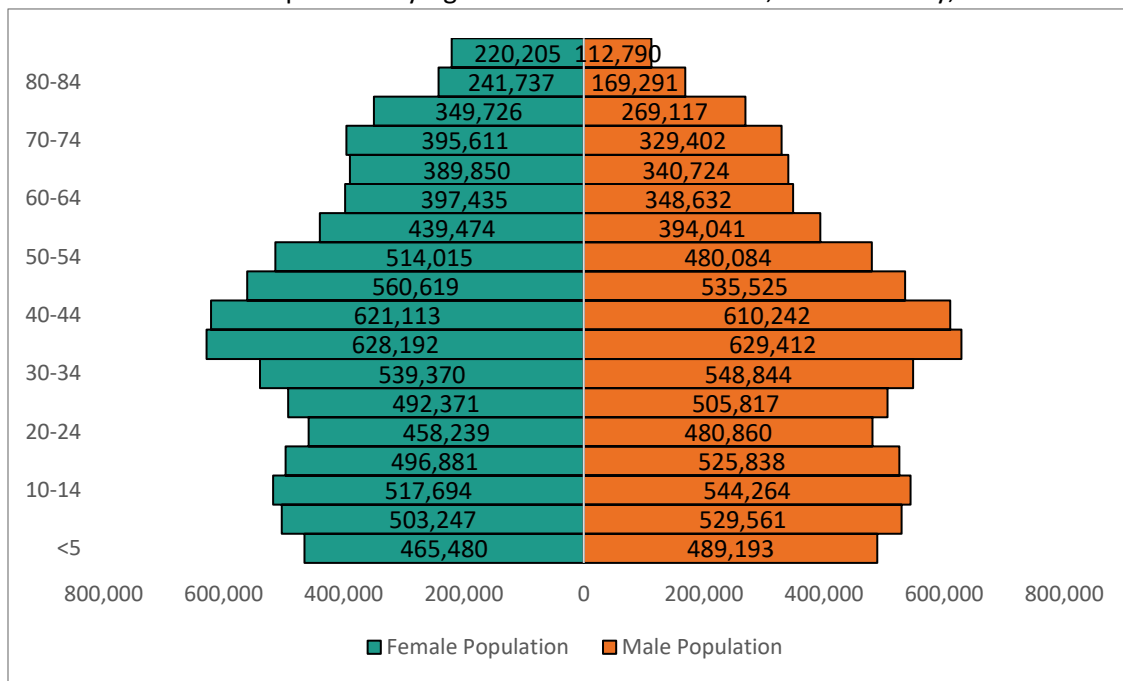
In Collier County, as in all counties in the United States, mortality rates are higher for males than for females at all ages. This variance in death rates results in life expectancy at birth being on average 5 years greater for females than for males. This ultimately results in a greater female population beginning around 45-49 years of age and increasing over males for every age group thereafter.

As can be visualized in these graphical presentations of the age and gender distribution, between 2000 and 2020, while the total population of Collier County increased by 51 percent for the 20-year period, dramatic shifts in the age distribution occurred reflecting the ongoing demographic transition in the State of Florida and the United States.

This demographic change produced by the “baby boomer” cohort is a consequence of this generation entering and spanning middle age to their retirement years. This highly visible demographic shift will have a significant impact on healthcare access and provision and socio-economic dynamics for Collier County and Florida during the 21st century.

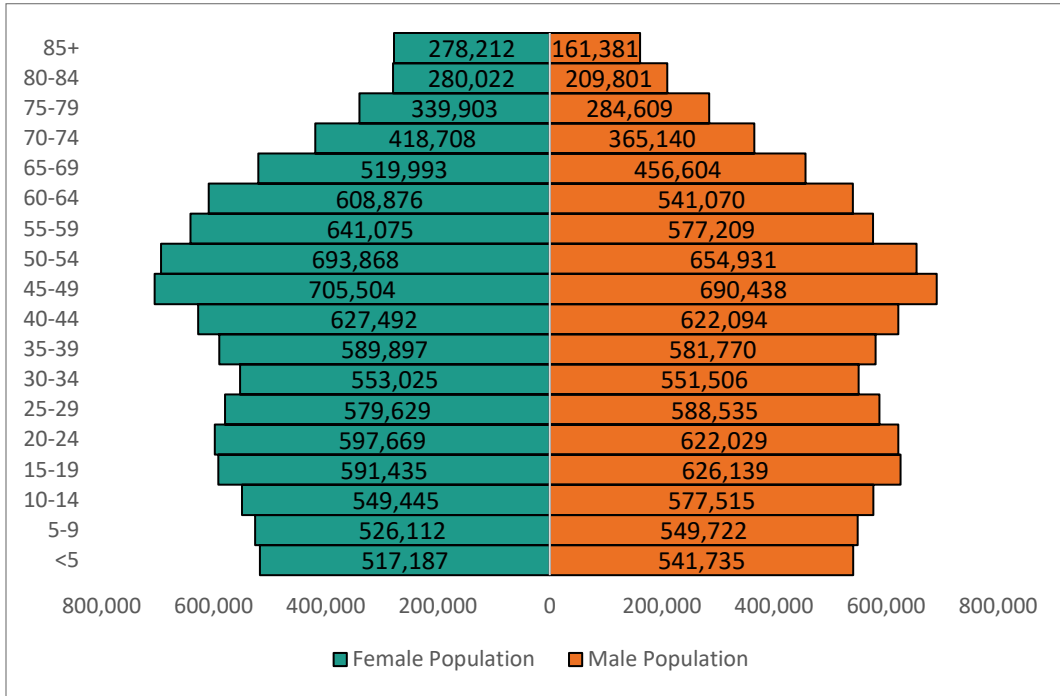
Exhibits P5, P6, and P7 display the population by age and gender for 2000, 2010, and 2020 for Collier County.

Exhibit P5: Population by Age Distribution and Gender, Collier County, 2000



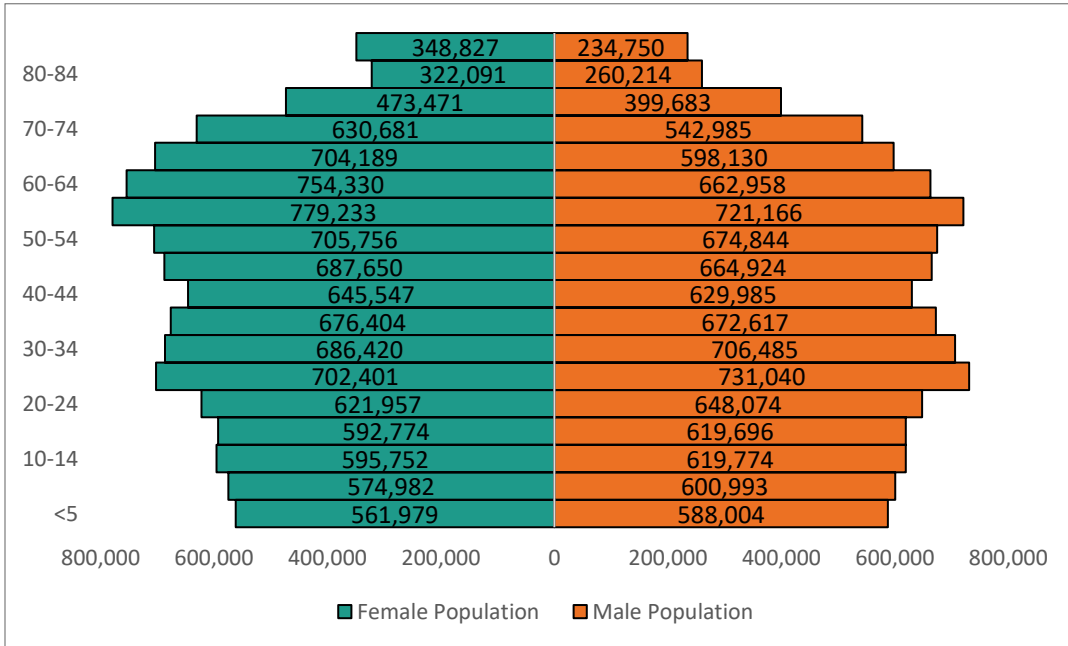
Source: Florida Legislature Office of Economic and Demographic Research

Exhibit P6: Population by Age Distribution and Gender, Collier County, 2010



Source: Florida Legislature Office of Economic and Demographic Research

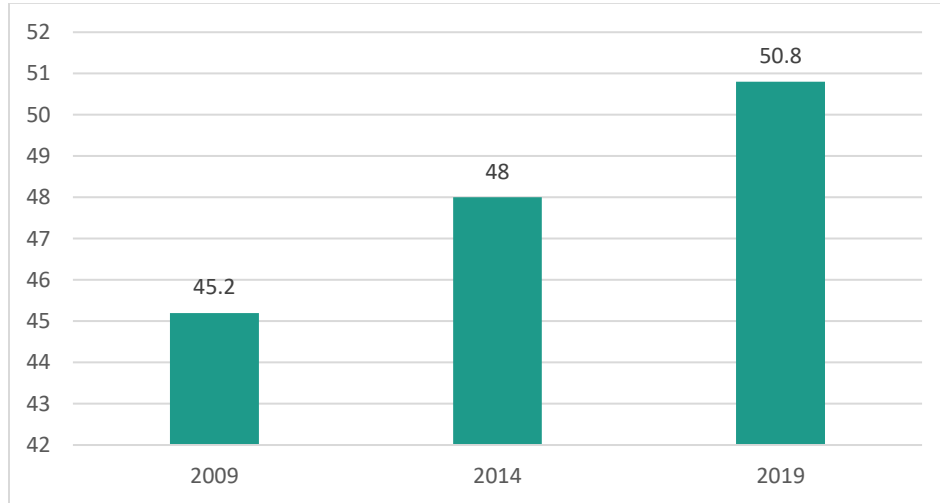
Exhibit P7: Population by Age Distribution and Gender, Collier County, 2020



Source: Florida Legislature Office of Economic and Demographic Research

The median age increased in Collier County by 5.6 years between 2009 and 2019 (45.2 to 50.8). This is a direct consequence of the aging of Collier’s population as visually described by the population charts above (Exhibits P5, P6, and P7).

Exhibit P8: Collier County Median Age, 2009, 2014, 2019



Source: US Bureau of the Census, American Community Survey, Table B01002

### Race and Ethnicity

Between 2000 and 2020 the Black population in Collier County increased by 101 percent from 14,024 to 28,263 respectively.

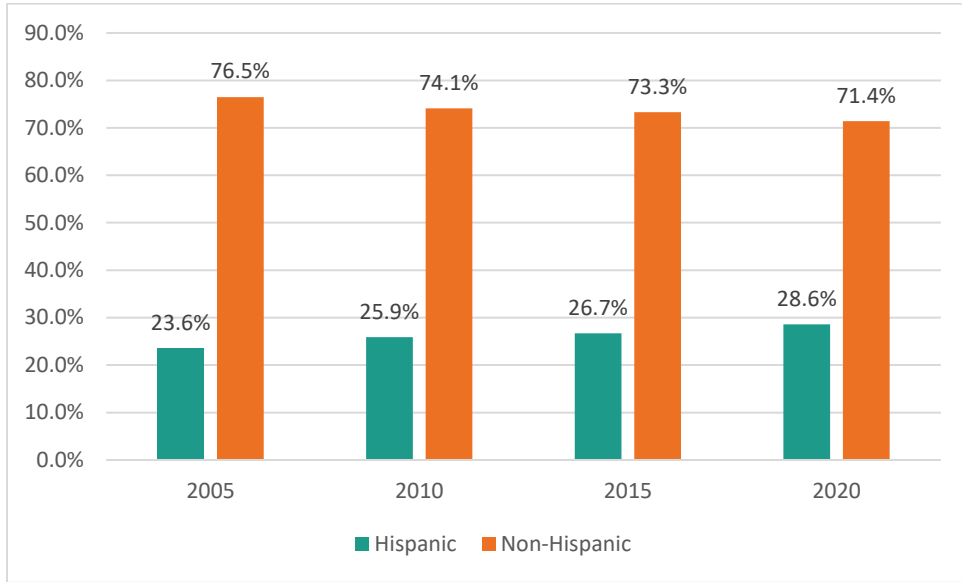
Exhibit P9: Collier County Population by Race, 2000, 2010, 2020

	2000	Percent	2010	Percent	2020	Percent
White	237,489	93.3%	291,322	90.5%	345,306	89.4%
Black	14,024	5.5%	21,762	6.8%	28,263	7.3%
Other	3,058	1.2%	8,968	2.8%	12,909	3.3%

Source: Florida Legislature Office of Economic and Demographic Research

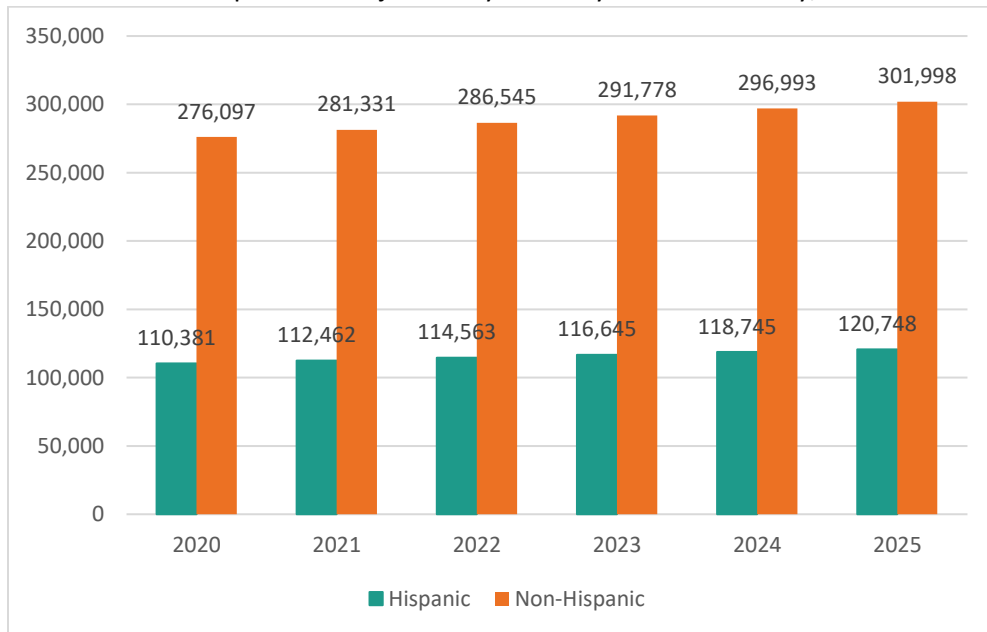
It should be noted that in the State of Florida race and ethnicity are tracked separately. While Hispanics constituted less than 24 percent of the population in Collier in 2005, by 2020 the proportion increased to about 28 percent. This upward trend is expected to increase at an annual rate of approximately 15.2 percent between 2020 and 2025, when the Hispanic population in Collier County is projected to surpass 120,000 (Exhibits P10 and P11).

Exhibit P10: Collier County Population by Ethnicity



Source: Florida Legislature Office of Economic and Demographic Research

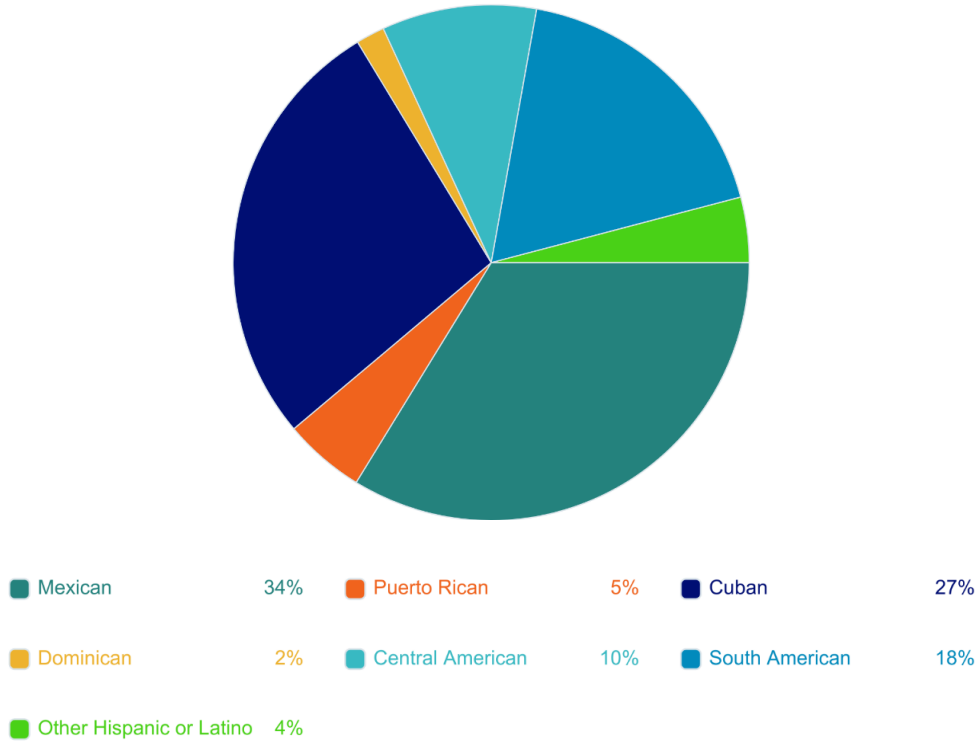
Exhibit P11: Population Projection by Ethnicity in Collier County, 2021-2025



Source: Florida Legislature Office of Economic and Demographic Research

The vast majority of people in Collier County who identify as Hispanic or Latino are of Mexican origin (34 percent). The next most common origins are Cuba (27 percent), South America (18 percent), and Central America (10 percent).

Exhibit P12: Hispanic or Latino Origin, Collier County, 2019



Source: US Bureau of the Census, American Community Survey, Table B03001

Between 2010 and 2019 the number of foreign-born residents increased by 41.3 percent to account for about 26 percent of the total Collier County population in 2019. During the same period the US born population in Collier County decreased from 76 percent of the total county population in 2010 to just below 72 percent of the total number of residents in 2019, a decrease of 4 percent. When analyzing the data by region of the world, approximately 76 percent of the foreign-born residential population of Collier County in 2019 originated from Latin America. (Exhibit P13 and P14)

Exhibit P13: Collier County Population by Place of Birth

Place of Birth	2010	Percent	2019	Percent
Born in Florida	72,196	22.4%	87,604	22.8%
Born in Other State in the United States	172,569	53.5%	188,647	49.0%
Born Outside of United States*	5,529	1.7%	7,157	1.9%
Foreign Born+	72,178	22.4%	101,494	26.4%

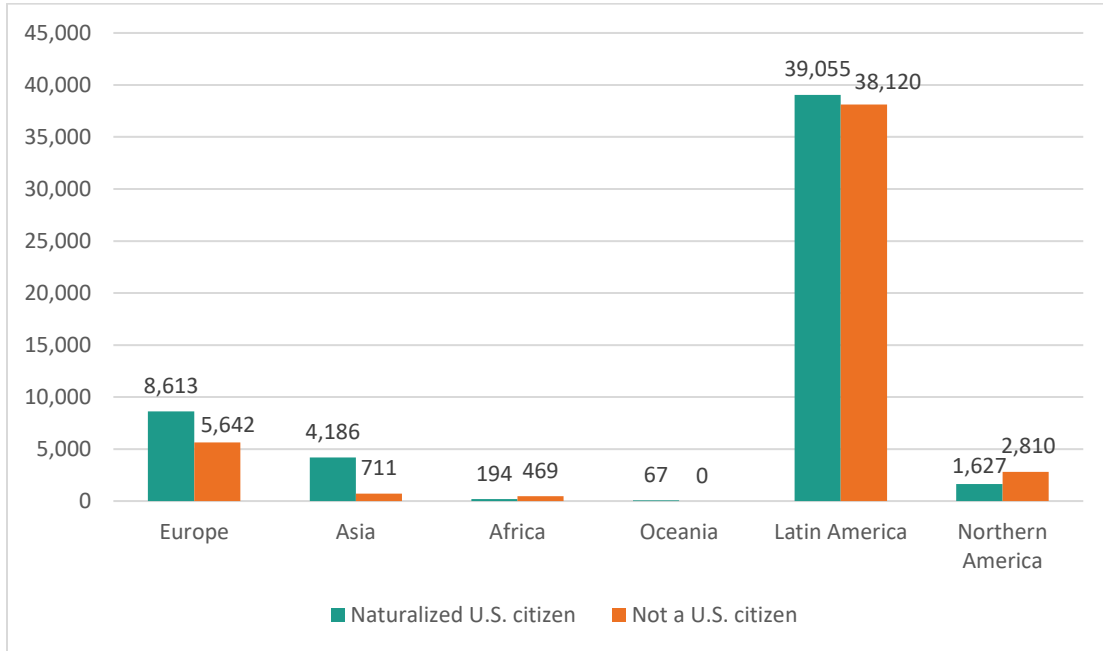
Source: US Census of the Bureau, American Community Survey, Table B05002

\*Persons born outside of the United States are residents or citizens born abroad.

+ Foreign born refer to persons who were not US citizens or residents when born outside of the country



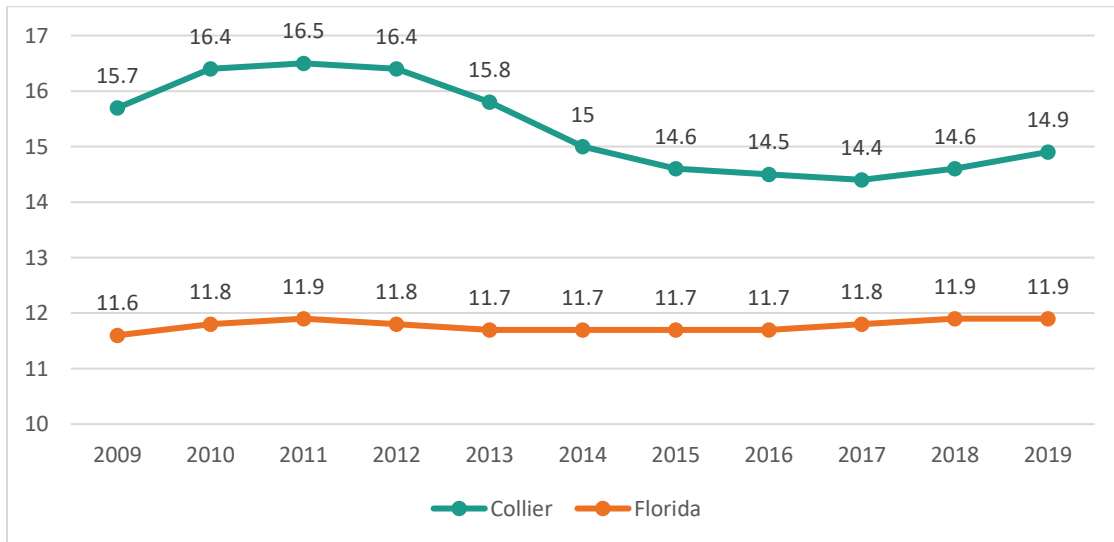
Exhibit P14: Collier County Foreign Born Population by Birthplace, 2019



Source: US Census of the Bureau, American Community Survey, Table B05002

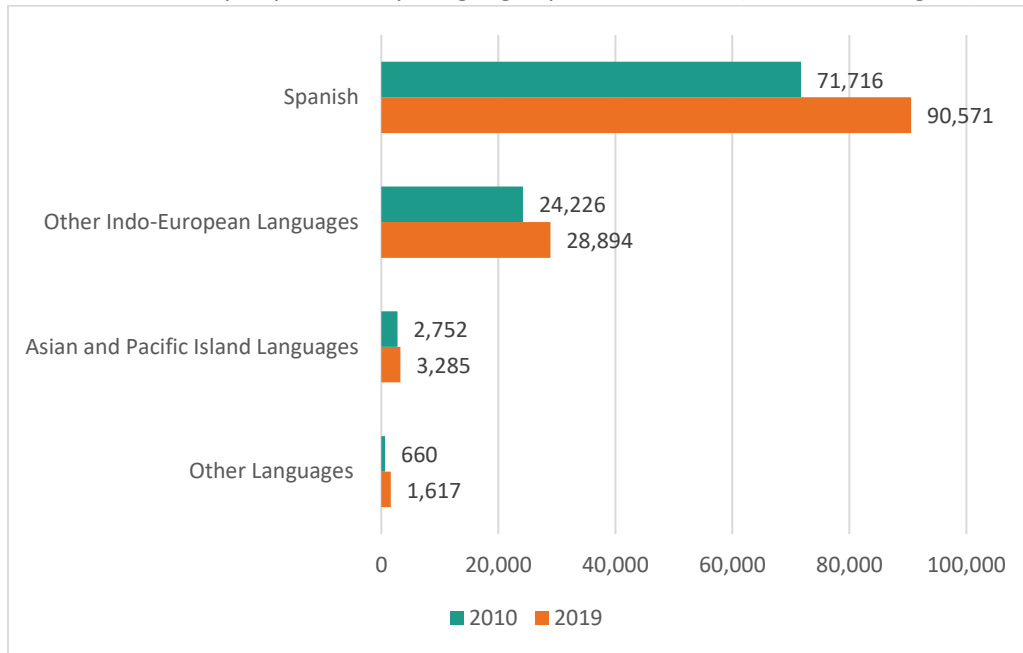
The demographic transitions are having an impact on socio-cultural influences throughout the county within households as well as in the educational system. Collier County consistently has a higher percentage of population that speak English less than very well when compared to Florida (2019, 14.9% vs. 11.9%). In 2019, of households that speak languages other than English 73 percent spoke Spanish (Exhibit P16).

Exhibit P15: Population 5+ that Speak English Less Than Very Well, Collier County and Florida, 2009-2019



Source: US Bureau of the Census, American Community Survey, Table B06007

Exhibit P16: Collier County Population by Language Spoken at Home (Other than English), 2010, 2019



Source: US Census of the Bureau, American Community Survey, Table S1601

\*Population 5 years and over

## Seasonal Population in Collier County

Collier County, like many Florida counties, draws a relatively large number of seasonal residents and visitors, especially during peak season. The largest proportion of seasonal residents tend to be 65 years and older. In 2020 the number of projected seasonal population in Collier County was 459,799, an increase from the previous year.

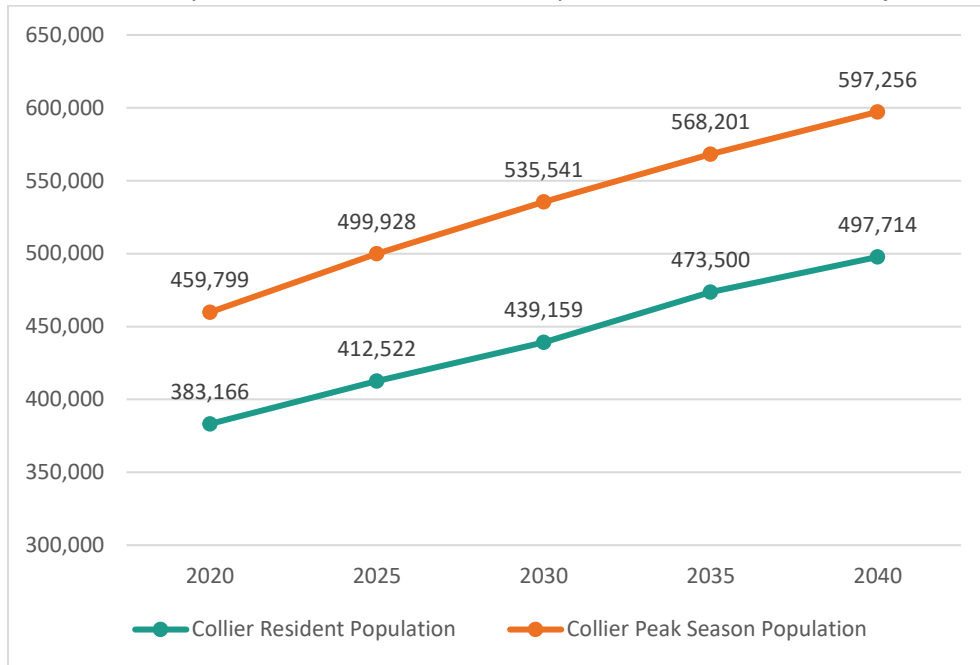
Exhibit P17: Collier County Peak Season Population, Estimates and Projections, 2000, 2010, and 2020

Geographical Area	2000	Percent	2010	Percent	2020	Percent
Greater Collier County	265,366	85.7%	343,593	88.7%	420,945	91.5%
Countywide Total	309,511		387,183		459,799	

Source: Collier County Comprehensive Planning Section, June 14, 2018

Between 2020 and 2040, the peak season population for Collier County is expected to grow by 30 percent from 459,799 to 597,256. As evidenced in Exhibit P16, the peak season and the resident population in Collier County have been growing and are projected to continue to increase at a constant and parallel rate between 2020 and 2040.

Exhibit P18: Collier County Resident and Peak Season Population, Estimates and Projections, 2020-2040

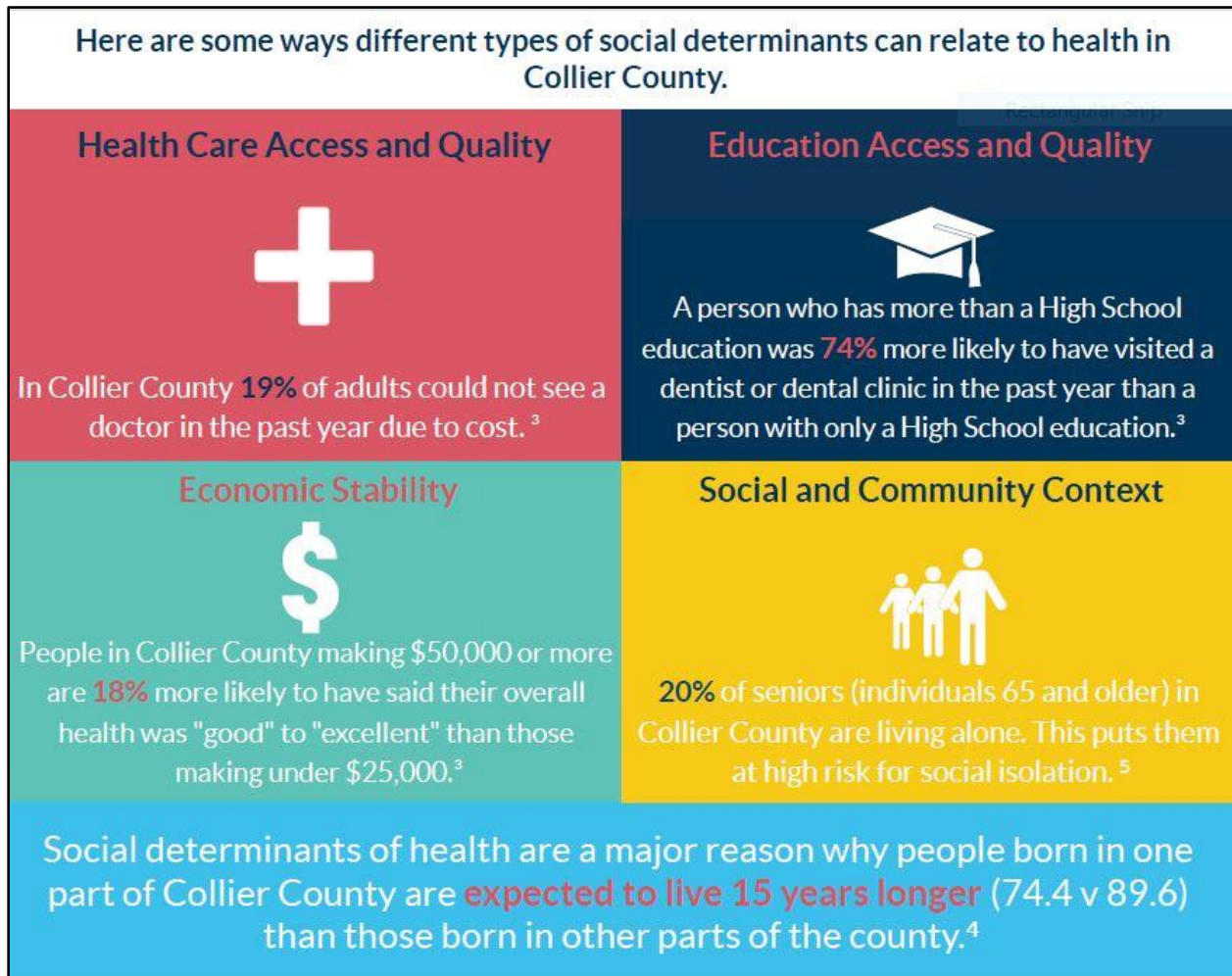


Source: Collier County Comprehensive Planning Section, June 14, 2018

## Social Determinants of Health

The relationship between socio-economic levels, living standards, health status, the quality of life, and life expectancy have been well documented, studied, and proven scientifically for centuries. The well-established statistical association existing between income level and educational attainment, which consequently leads to healthier communities and populations, is an accepted basic construct for improving public health in the United States.

Increased socio-economic status allows individuals to obtain health insurance and pay for medical services, afford livable and safe housing, and nutritional food. A decline in levels of income has detrimental health effects and consequences for the entire population. Children living in poverty are subject to greater health and developmental risks than adults. Infants and children in poverty have higher rates of morbidity and mortality and face a greater likelihood of unintentional injuries. Children in poverty also are more likely to lack access to healthcare and less likely to reach a desirable level of educational attainment. Collier County is one of the more affluent communities in the State of Florida, yet examination of socio-economic and other trends of well-being show that we are not immune to challenges related to socio-economic status in some areas of the country.

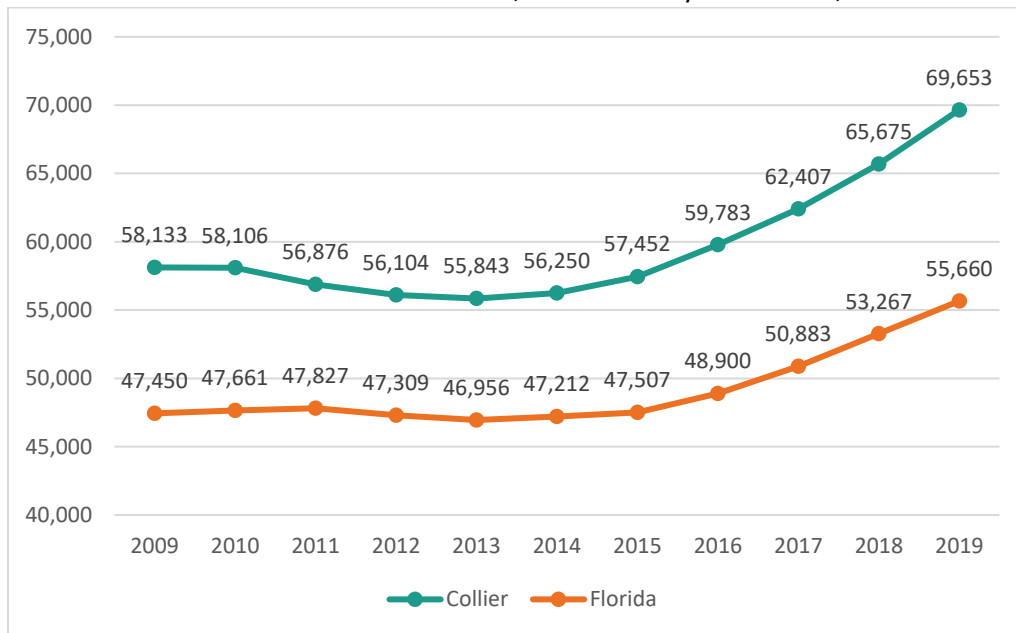


Source: Health Planning Council of Southwest Florida

## Income

Income and financial resources have been correlated with levels of health as a means for individuals to obtain health insurance, pay for health care, afford healthy foods, obtain adequate housing, and access basic necessities such as clothes and transportation. Statistically, this is true until a certain family and individual income level is reached. Both Collier County and Florida have seen a continuous increase in median household incomes since 2013. The median household income in Collier County is significantly higher when compared to the Florida average (\$69,653 vs \$55,600).

Exhibit S1: Median Household Income, Collier County and Florida, 2009-2019



Source: US Bureau of the Census, American Community Survey, Table B1901

Exhibit S2 provides the distribution of household income for Collier County and Florida for the periods 2010, 2015, and 2019. Exhibits S3 and S4 look at income distribution by gender and educational attainment.

In 2019, 4.1 percent of Collier County households had a combined income of less than \$14,999; this compares to 5.3 percent across Florida and 4.4 percent in the United States. 9.6 percent of Collier County households had an income of \$100,000 or greater during 2019; this is a higher proportion than the State of Florida average of eight percent, but one percent less than the United States. Most Collier County residents earned between \$25,000 and \$49,999, which is on par with the State of Florida and the United States.

Exhibit S2: Earnings in the Past 12 Months Collier County, Florida, and United States

Income Distribution	2010			2015			2019		
	Collier	Florida	US	Collier	Florida	US	Collier	Florida	US
\$1 to \$9,999 or less	2.4%	2.5%	2.2%	2.9%	1.8%	1.8%	1.4%	1.7%	1.7%
\$10,000 to \$14,999	8.4%	5.5%	4.5%	5.7%	4.5%	3.7%	2.7%	3.6%	2.7%
\$15,000 to \$24,999	23.3%	19.0%	15.5%	18.1%	18.2%	14.2%	14.5%	15.1%	10.8%
\$25,000 to \$34,999	20.1%	19.4%	17.1%	17.5%	19.3%	16.1%	20.4%	19.0%	15.2%
\$35,000 to \$49,999	17.0%	21.0%	20.8%	18.4%	21.1%	20.0%	23.9%	20.8%	19.7%
\$50,000 to \$64,999	8.9%	13.1%	14.7%	12.7%	13.2%	14.9%	11.8%	13.8%	15.5%
\$65,000 to \$74,999	3.9%	4.7%	5.9%	4.5%	5.0%	6.3%	5.5%	5.7%	6.9%
\$75,000 to \$99,999	6.4%	6.8%	8.8%	7.7%	7.2%	9.8%	6.5%	8.4%	11.0%
\$100,000 or more	9.6%	8.0%	10.5%	12.5%	9.8%	13.3%	13.4%	11.9%	16.5%

Source: US Bureau of the Census, American Community Survey, Table S2001

Median or average incomes only tell part of the story of disparate income levels within a county. A quintile equates to one-fifth of the households in Collier County; thus, in this chart 20% of the population have a household income of \$31,453 or less, while 20% of the population has a household income above \$151,893. The top 5 percent of households in Collier County have an income of more than \$250,000 (the highest threshold broken out by US Bureau of the Census).

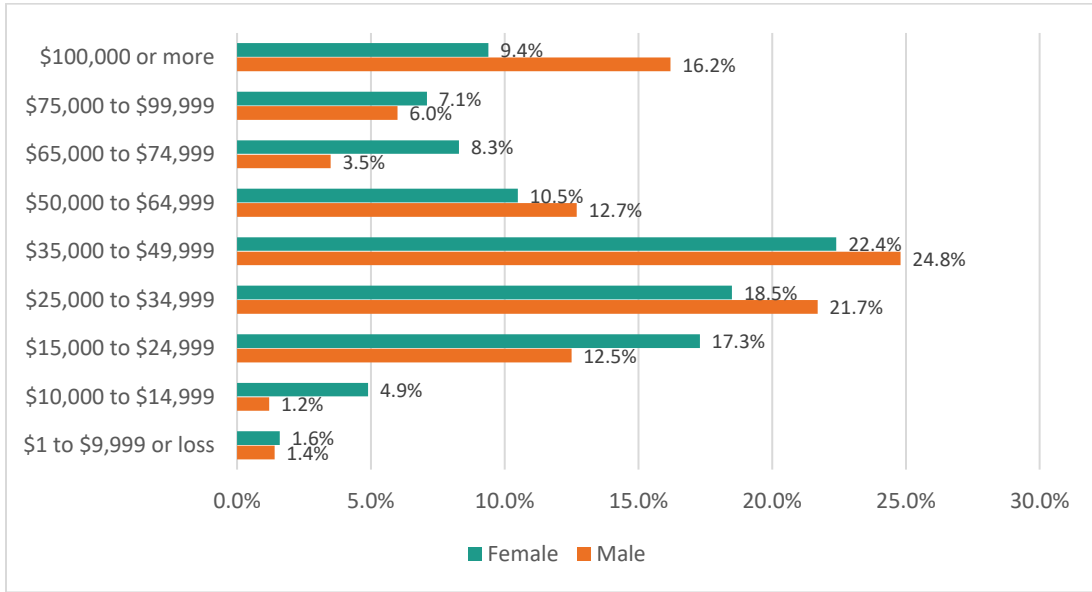
Exhibit S3: Household Income Quintile Upper Limits, Collier County and Florida, 2019

	Collier County	Florida
Lowest Quintile	\$31,453	\$25,868
Second Quintile	\$57,781	\$47,112
Third Quintile	\$94,413	\$73,205
Fourth Quintile	\$151,893	\$117,017
Lower Limit of Top 5 Percent	\$250,000+	\$226,319

Source: US Bureau of the Census, American Community Survey, Table B19080

In Collier County a higher percentage of men than women earn between \$25,000 and \$65,000. A higher percentage of women were earning \$65,000 to \$99,999 when compared to men in 2019.

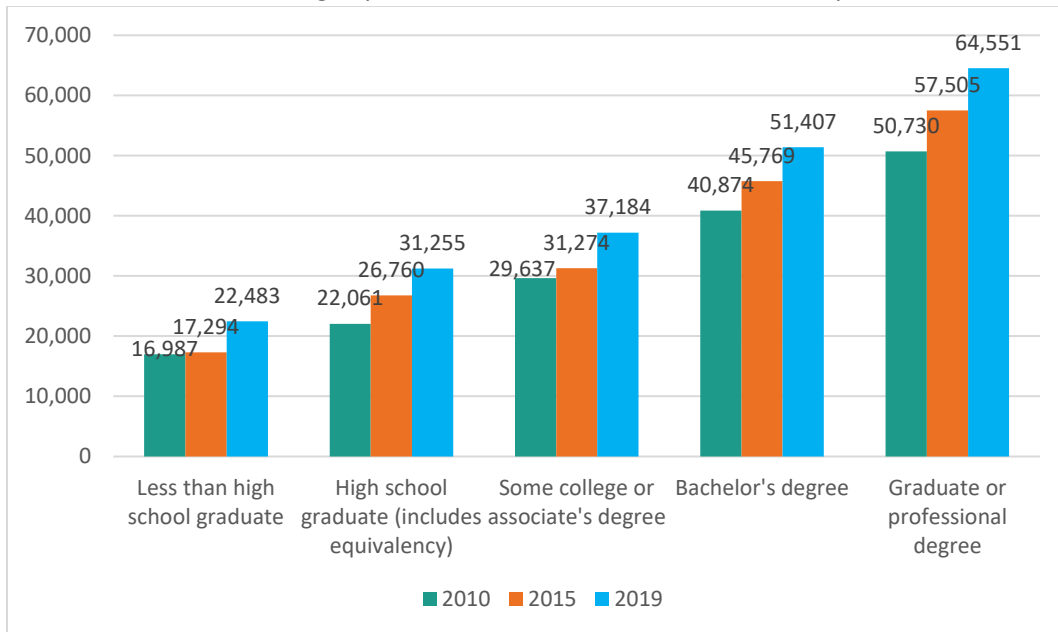
Exhibit S4: Earnings in the Past 12 Months by Gender, Collier County, 2019



Source: US Bureau of the Census, American Community Survey, Table S2001

Individuals in Collier County who have a graduate or professional degree on average earn \$42,000 more annually than individuals with less than a high school education. The median income has continued to rise from 2010 and 2019, regardless of educational attainment.

Exhibit S5: Median Earnings by Educational Attainment, Collier County, 2010, 2015, 2019



Source: US Bureau of the Census, American Community Survey, Table S2001

## Education

The relationship between health outcomes and educational attainment is well known in the United States and globally. The reasons for this are multi-faceted, including that a higher level of education usually results in higher incomes. Educational level is linked to access to healthcare as health insurance is usually linked to jobs requiring a specific level of educational attainment. The labor market and its distribution also contribute to health outcomes. Unemployment rates in the United States are higher for individuals without a high school diploma compared to those who are college graduates.

Exhibit S5 shows the educational attainment in the population 25 years of age and over for Collier County and Florida for 2010, 2014, and 2019. Between 2010 and 2019, the percent of the population in Collier County over the age of 25 who did not graduate high school or beyond declined from 14.4 percent to 11.0 percent, in Florida the percent decreased from 14.5 to 11.6 percent. During the same 9-year period, the percentage of individuals with graduate degrees increased by over 2 percentage points in both Collier County and in Florida.

Exhibit S6: Educational Attainment of the Population 25 Years and Over, Collier County and Florida, 2010, 2014, and 2019

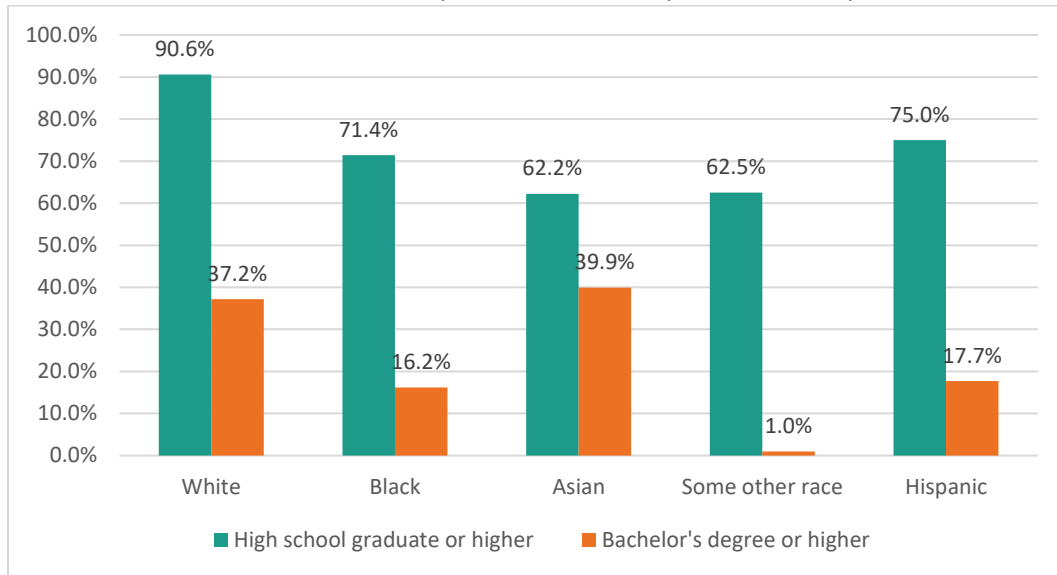
	Collier County			Florida		
	2010	2014	2019	2010	2014	2019
Less than 9 <sup>th</sup> grade	6.5%	8.1%	5.7%	5.7%	5.2%	4.6%
9 <sup>th</sup> to 12 <sup>th</sup> , no diploma	7.8%	7.1%	5.3%	8.8%	7.6%	7.0%
High school graduate and/or GED	27.4%	25.3%	27.1%	29.9%	29.6%	28.4%
Some college, no degree	20.7%	18.2%	17.3%	21.2%	20.7%	19.4%
Associate degree	6.6%	6.5%	8.7%	8.6%	9.7%	9.9%
Bachelor's degree	19.1%	21.2%	20.8%	16.6%	17.4%	19.3%
Graduate or professional degree	12.0%	13.6%	14.9%	9.2%	9.8%	11.4%

Source: US Bureau of the Census, American Community Survey, Table DP02

Those who identified as Asian have a higher percentage with a bachelor's degree or higher when compared to other races/ethnicities. Individuals that identified as white had a higher percentage of those with a high school diploma or higher.



Exhibit S7: Educational Attainment by Race and Ethnicity, Collier County and Florida, 2019



Source: US Bureau of the Census, American Community Survey, Table S1501

## Workforce

There is an established causal relationship between unemployment and health. Unemployment is associated with a decline in health status and quality of life. Lack of employment is linked to various physical health outcomes including morbidity, mortality, and suicide. Unemployment is correlated with numerous unhealthy behaviors including tobacco and alcohol consumption, poor diet, and lack of exercise. All these behaviors are risk factors for the development of disease and potential mortality.

In 2020, the unemployment rate for Collier County was higher than the average rate for Florida. The workforce, along with the economy, was severely impacted by the COVID-19 pandemic. There was an unusually high rate of unemployment that was seen throughout the United States. The second highest employment category in Collier County is leisure and hospitality, as shown in Exhibit S9; this industry was affected severely during the COVID-19 pandemic. A lower percentage of Collier County residents work outside the county when compared to the Florida average. Collier has a significantly higher per capita personal income when compared the state of Florida (\$99,382 vs \$52,426), but this is due to the unusually large percentage of people with an annual wage of \$100,000 and more (Exhibit S2). The workers 16+ years old working outside the county is much lower because Collier County has a high percentage of workers who commute from Lee and Hendry Counties. Low-wage workers cannot afford to live in Collier County; therefore, the per capita income in Collier County is higher than the Florida average because higher wage workers live here.

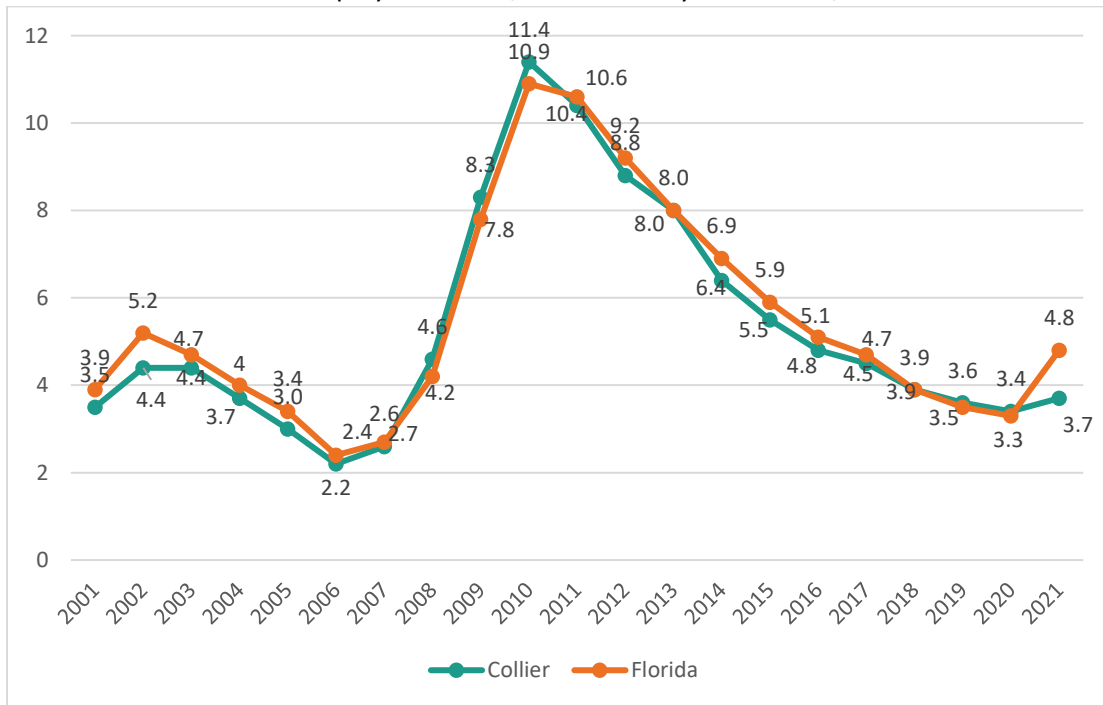
Exhibit S8: Workforce Data, Collier County and Florida, 2020

	Collier County	Florida
Labor force as a % of population age 18+	56.4%	58.8%
Unemployment rate (%)	6.9%	3.3%
Average annual wage, all industries	\$54,829	\$55,845
Per capita personal income*	\$99,382	\$52,426
Workers 16+ working outside county of residence	8.1%	18.2%

Source: The Florida Legislature, Office of Economic and Demographic Research  
 \*2019

Exhibit S8 shows the unemployment rates for Collier County and the State of Florida for the period 2001 to 2021. In Collier County the unemployment rate ranges from a low of 2.2 in 2006 to a high of 11.6 in 2010. During this same period the state rate ranged from a low of 3.7 in 2006 to a high of 11.4 in 2010. As can be seen in the graph, the unemployment rates for Collier County have been highly correlated with those of the State of Florida over the two decades. Beginning in 2006 the rates for Collier County and the State rose sharply, hovering around 11 in 2010 and has continued to decrease until 2020.

Exhibit S9: Unemployment Rate, Collier County and Florida, 2001-2021\*

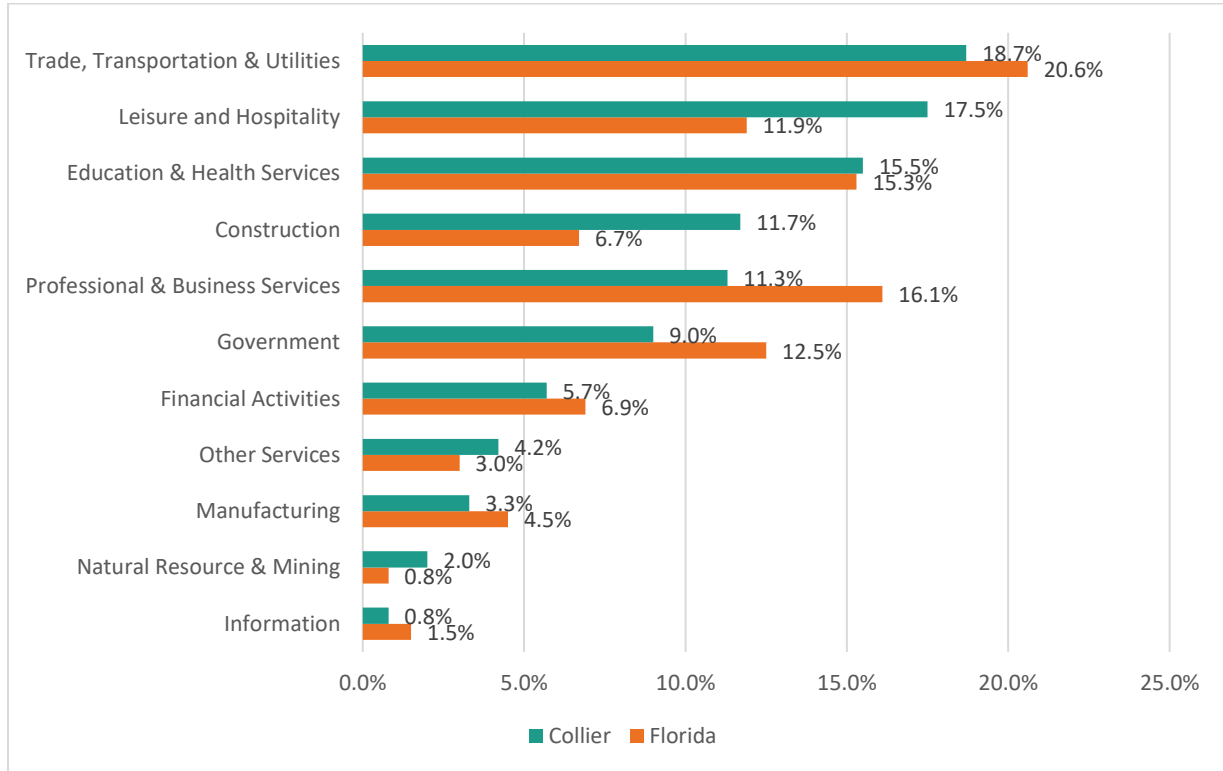


Source: US Department of Labor, Bureau of Labor Statistics  
 \*Data reflects the rate for January of each year

The top three employment categories in Collier County for 2020 are trade, transportation & utilities, leisure and hospitality, and education & health services. Trade, transportation & utilities, and education

& health services are in the top three for both Collier County and Florida. The average annual wages for the top employment categories are as follows: trade - \$48,629, leisure - \$33,379, and education - \$62,558.

Exhibit S10: Average Annual Employment by Category, Collier and Florida, Preliminary 2020

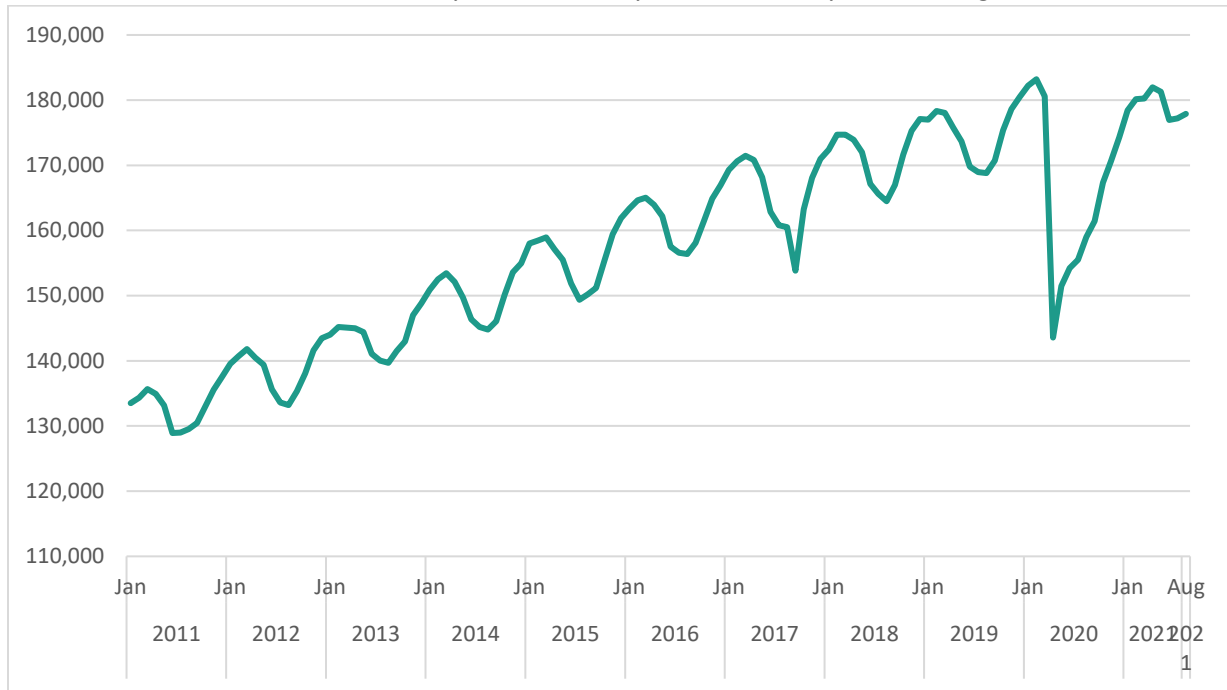


Source: Source: US Department of Labor, Bureau of Labor Statistics

### Seasonal Economy

Collier County employment follows a consistent seasonal pattern with many more people employed in the winter months than in the summer months. The typical pattern of employment in Collier County is that the highest employment occurs in December and the lowest employment in August. The average difference in the number of people employed between December and August across the past ten years is 7.29 percent. This pattern is consistent throughout the years of 2011 through 2021. There were two incidences that caused a drop in employment numbers. In 2017, Hurricane Irma disrupted employment in Collier County. In 2020, there was a clear decrease in employment numbers, which was due to the COVID-19 pandemic.

Exhibit S11: Collier County Labor Force by Month, January 2011 to August 2021



Source: United State Department of Labor, U.S. Bureau of Labor Statistics

### Poverty and Food Assistance

When compared to Florida and the United States, Collier County consistently has a lower percentage of people living in poverty. In 2019, 9.4 percent of Collier County residents were living in poverty.

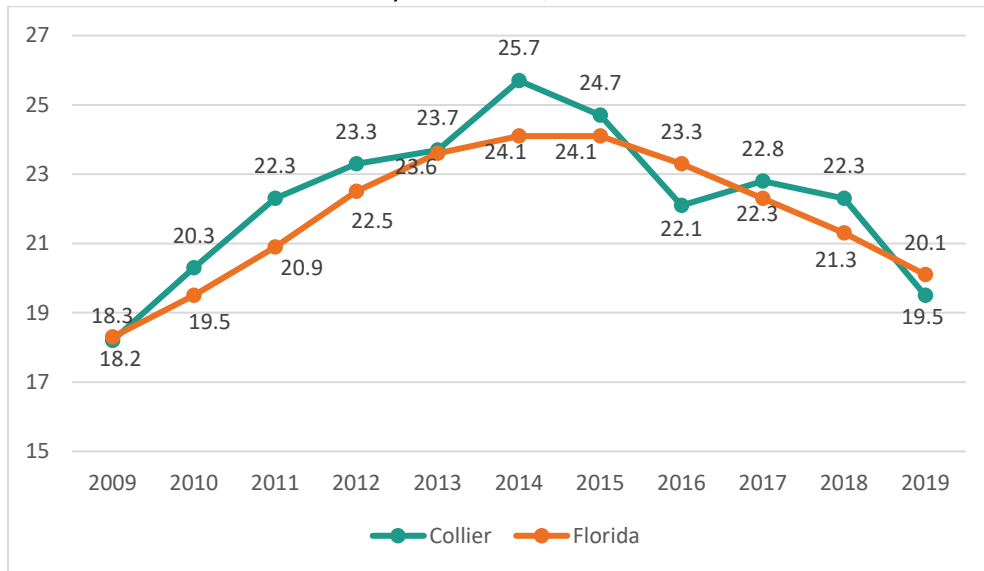
Exhibit S12: Percent of All Ages in Poverty, Collier County, Florida, and United States

	Collier County	Florida	United States
2019	9.4%	12.7%	12.3%
2014	14.3%	16.6%	15.5%
2009	12.6%	15.0%	14.3%

Source: U.S. Census, Small Area Income and Poverty Estimates

When compared to the Florida and United States average, Collier County has a lower percentage of people living in poverty but has higher percentages of children living in poverty. This shows that young families are struggling the most. Between 2009 and 2019 Collier County had a slightly higher percentage of individuals under 18 living in poverty when compared to Florida, except for 2016 and 2019. In 2019, Collier County had 19.5 percent of children living in poverty.

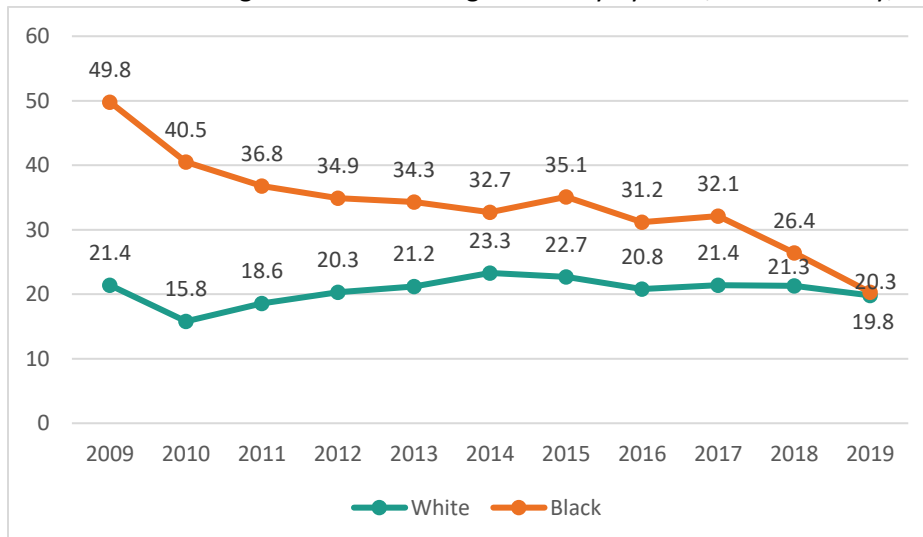
Exhibit S13: Individuals Under 18 Below Poverty Level, Percentage of Population Under 18, Collier County and Florida, 2009-2019



Source: US Bureau of the Census, American Community Survey, Table DP03

There are significant disparities seen in the percentage of children living in poverty between various racial/ethnic groups. Race and ethnicity are tracked separately in Florida. Children that identify as Black saw the largest decrease in poverty. In 2009, 49.8 percent of Black children were living in poverty and in 2019, 20.3 percent were living in poverty.

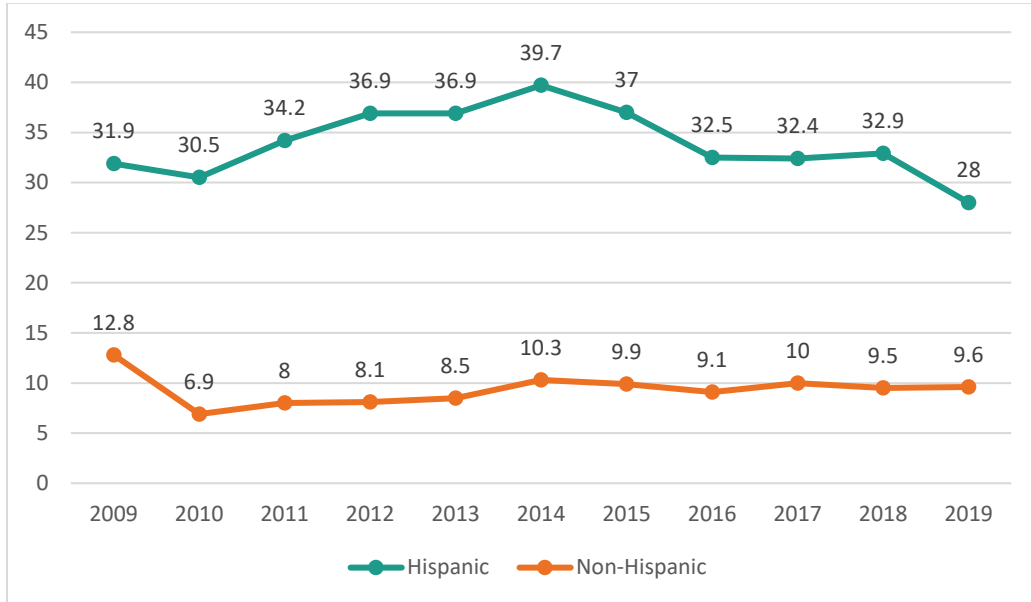
Exhibit S14: Percentage of Children Living in Poverty by Race, Collier County, 2019



Source: County Health Rankings & Roadmaps 2021, Small Area Income and Poverty Estimates, American Community Survey five-year estimates

Hispanic children had a higher percentage, with 28 percent of children living in poverty when compared to the other races/ethnicities.

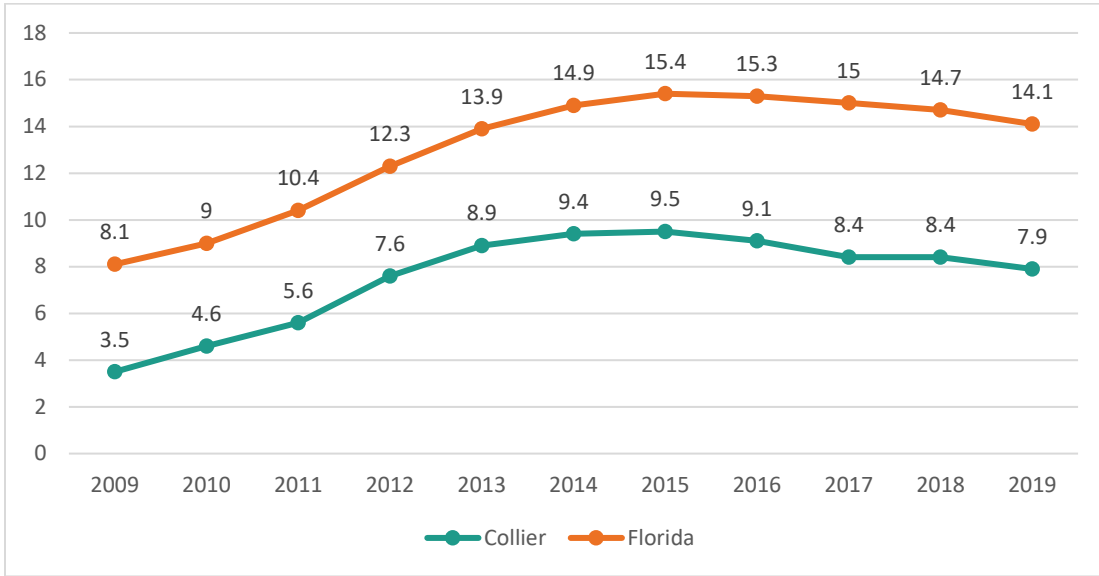
Exhibit S15: Percentage of Children Living in Poverty by Ethnicity, Collier County, 2019



Source: County Health Rankings & Roadmaps 2021, Small Area Income and Poverty Estimates, American Community Survey five-year estimates

The Supplemental Nutrition Assistance Program (SNAP) of the U.S. Department of Agriculture provides benefits that are used to purchase food at grocery stores, convenience stores and some farmer’s market and co-op food programs. Current requirements for eligibility are a household monthly net income of less than 100 percent of the federal poverty guideline. Collier County consistently has had a lower percentage of households receiving assistance when compared to Florida. In 2019, Florida had almost double the percentage of households receiving assistance than Collier County (14.1% vs. 7.9%).

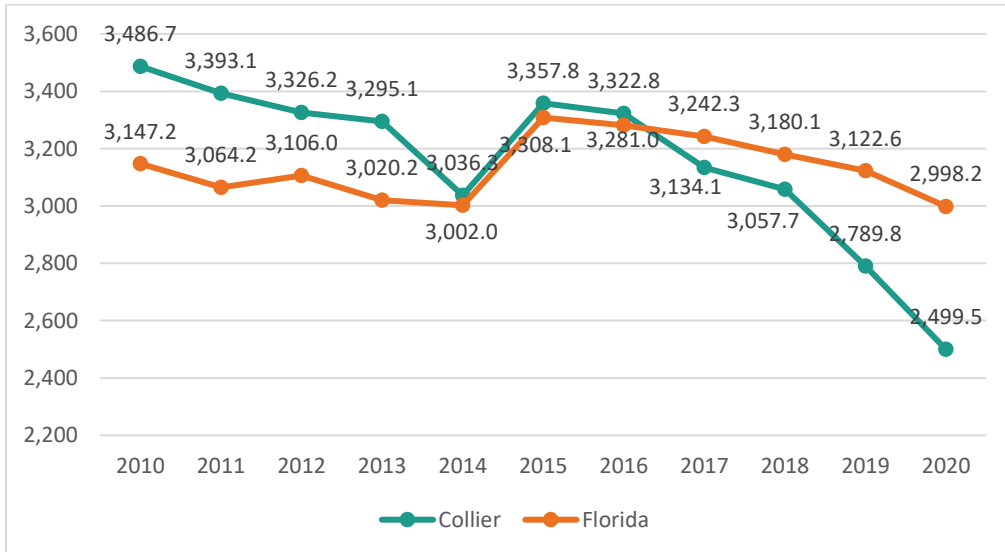
Exhibit S16: Households Receiving Cash Public Assistance or Food Stamps, Percentage of Households



Source: US Bureau of the Census, American Community Survey, Table B19058

The Women, Infants, and Children Nutrition Program (WIC) of the U.S. Department of Agriculture provides food and nutritional assistance to pregnant and new mothers and children less than 5 years of age. Exhibits S15 and S16 provides information about WIC in Collier County and Florida. Between 2015 and 2020, the number of WIC eligibles in Collier County decreased from 3,357.8 to 2,499.5.

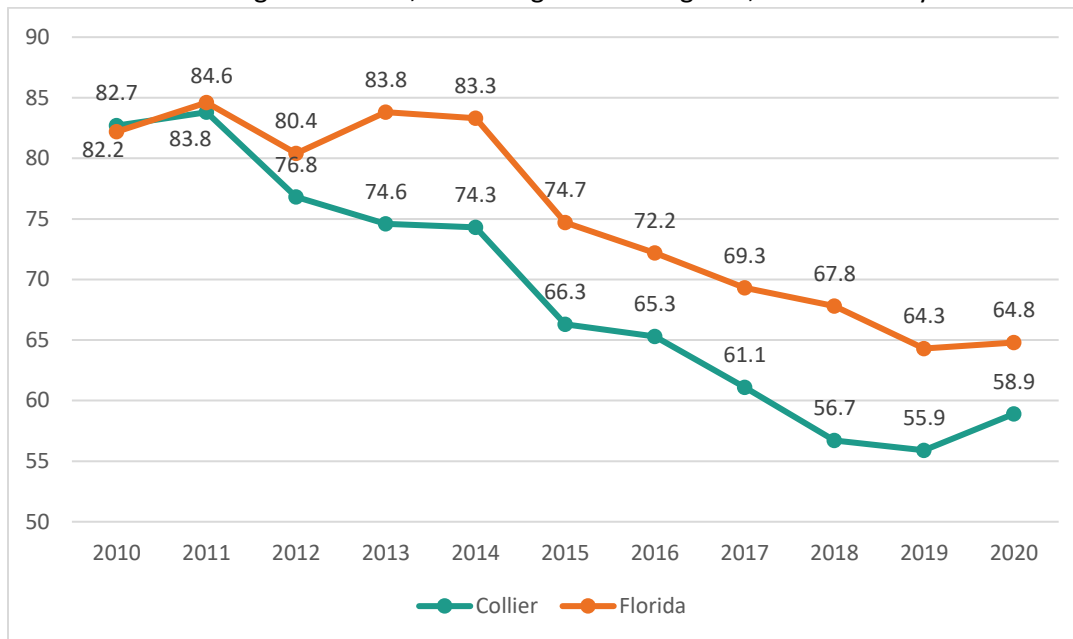
Exhibit S17: WIC Eligibles, Rate per 100,000 Population, Collier County, Florida, 2010-2020



Source: Florida Department of Health, WIC & Nutrition Services, FLWiSE

When compared to Florida, Collier County served a lower percentage of those eligible for WIC since 2011. WIC eligibles include pregnant and post-partum women and children ages 0-4. Knowing the proportion of those in need who are served supports promoting healthful diets and healthy weight to optimize health status and quality of life. The percent of WIC eligibles served is the number served divided by the number in need, expressed as a percentage. Both Collier County and the State of Florida experienced a decrease in service between 2014 and 2019.

Exhibit S18: WIC Eligibles Served, Percentage of WIC Eligibles, Collier County and Florida



Source: Florida Department of Health, WIC & Nutrition Services, FLWISE

## ALICE

The United Way has developed a methodology called ALICE (Asset Limited, Income Constrained, Employed) to better approximate the number of people living in poverty in the United States. They believe that despite the Federal Poverty Level's benefit of providing a nationally recognized income threshold for determining who is poor, its shortcomings are well documented. The measure is not based on the current cost of basic household necessities, and except for Alaska and Hawaii, it is not adjusted to reflect cost of living differences across the United States. Thus, the ALICE research team of the United Way, developed new measures to identify and assess financial hardship at a local level and to enhance existing local, state, and national poverty measures.

The first method is the Household Survival Budget. This is an estimate of the total cost of household essentials: housing, childcare, food, transportation, technology, and health care, plus taxes and a 10 percent miscellaneous contingency fund. It does not include any savings, leaving households without a cushion for unexpected expenses and unable to invest in the future.

For the average family of four, two adults and two children, the annual household survival budget in Collier County is \$65,568. For an adult to make this much a year the hourly wage would need to be \$32.78. A single adult's household survival budget's annual total is \$26,496 with an hourly wage of



\$13.25. Currently the Florida minimum wage is set at \$8.65, this is \$4.60 less than what is needed for a single adult to survive.

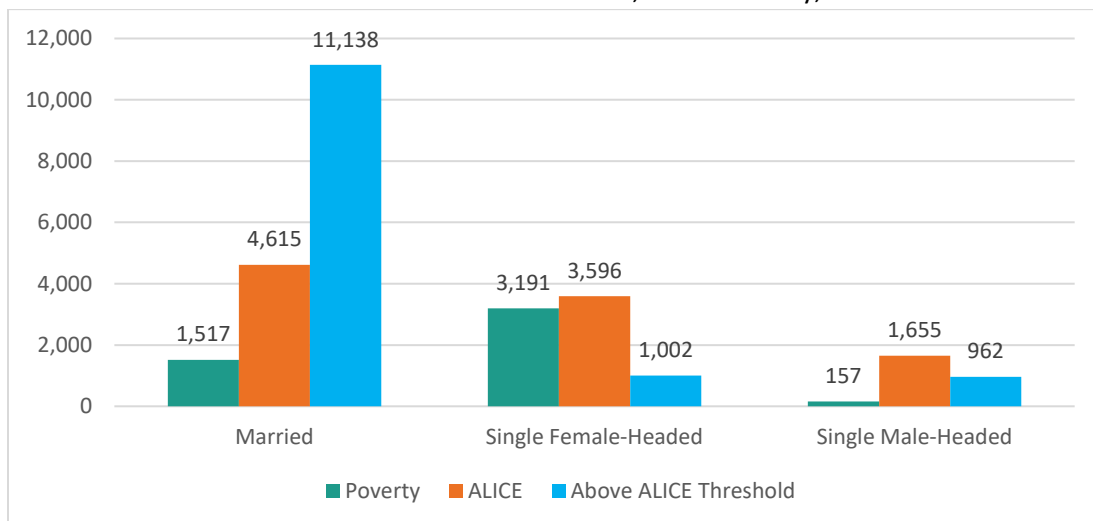
Exhibit S19: ALICE Household Survival Budget, Collier County, 2018

	Single Adult	One Adult, One Child	One Adult, One in Childcare	Two Adults	Two Adult, Two Children	Two Adults, Two in Childcare	Single Senior	Two Seniors
Housing	\$778	\$996	\$996	\$996	\$1,220	\$1,220	\$778	\$996
Child Care	\$0	\$211	\$578	\$0	\$422	\$1,141	\$0	\$0
Food	\$316	\$545	\$456	\$656	\$1,095	\$956	\$269	\$559
Transportation	\$375	\$532	\$532	\$546	\$843	\$843	\$329	\$455
Health Care	\$200	\$507	\$507	\$507	\$803	\$803	\$459	\$919
Technology	\$55	\$55	\$55	\$75	\$75	\$75	\$55	\$75
Miscellaneous	\$201	\$318	\$353	\$323	\$497	\$570	\$217	\$345
Taxes	\$283	\$334	\$406	\$448	\$509	\$659	\$283	\$448
Monthly Total	\$2,208	\$3,498	\$3,883	\$3,551	\$5,464	\$6,267	\$2,390	\$3,797
Annual Total	\$26,496	\$41,976	\$46,596	\$42,612	\$65,568	\$75,204	\$28,680	\$45,564
Hourly Wage	\$13.25	\$20.99	\$23.30	\$21.31	\$32.78	\$37.60	\$14.34	\$22.78

Source: United Way ALICE, 2018

The second measure created is the ALICE Threshold. The ALICE Threshold represents the minimum income level necessary based on the Household Survival Budget. ALICE households have incomes above the Federal Poverty Level (FPL), but struggle to afford basic household necessities. Children add significant expense to a family budget, so it is not surprising that many families with children live below the ALICE Threshold. About 59 percent of single male-headed households fall within the ALICE threshold. In single female-headed households, 87 percent live below the ALICE threshold.

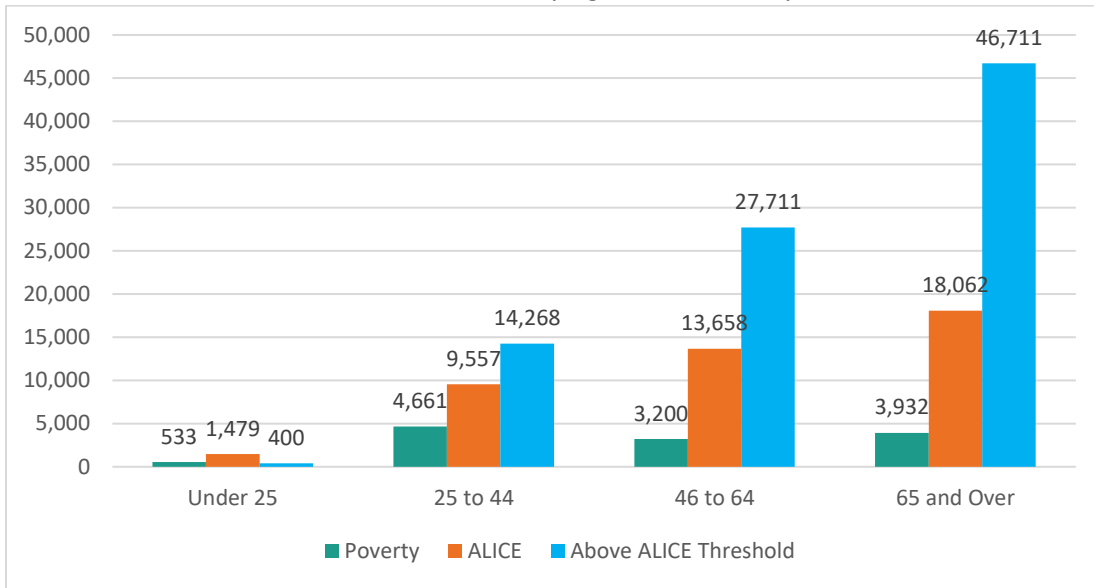
Exhibit S20: Families with Children, Collier County, 2018



Source: ALICE Threshold, 2007-2018; American Community Survey, 2007-2018

Those under 25 years of age are the most likely to fall into the ALICE threshold making them likely to struggle to afford basic necessities; 61.3 percent of those under 25 fit into this criterion. Those 65 and older are the next most likely to struggle financially with 32 percent below ALICE threshold.

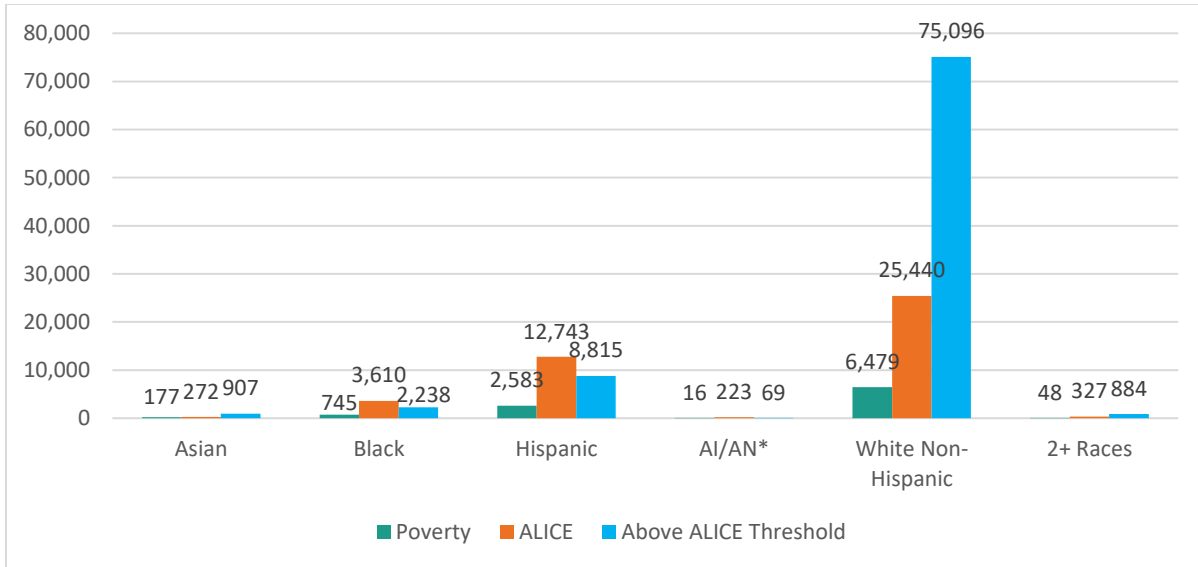
Exhibit S21: Households by Age, Collier County, 2018



Source: ALICE Threshold, 2007-2018; American Community Survey, 2007-2018

American Indian/Alaskan Native and Black households are the most likely to be struggling financially; they had the highest percentage of households calculated to be within the ALICE threshold (72.4% & 54.8%).

Exhibit S22: Households by Race/Ethnicity, Collier County, 2018



Source: ALICE Threshold, 2018; American Community Survey, 2018

\*AI/AN – American Indian/Alaska Native

## Affordable Housing/Housing Burden

Collier County has a higher percentage of homeowners compared to the state (73.3% vs. 65.4%). Thirty-three percent of homes in Collier County are vacant, this may be due to seasonal population. The median value of housing is significantly higher than the state average (\$360,800 vs. \$215,300).

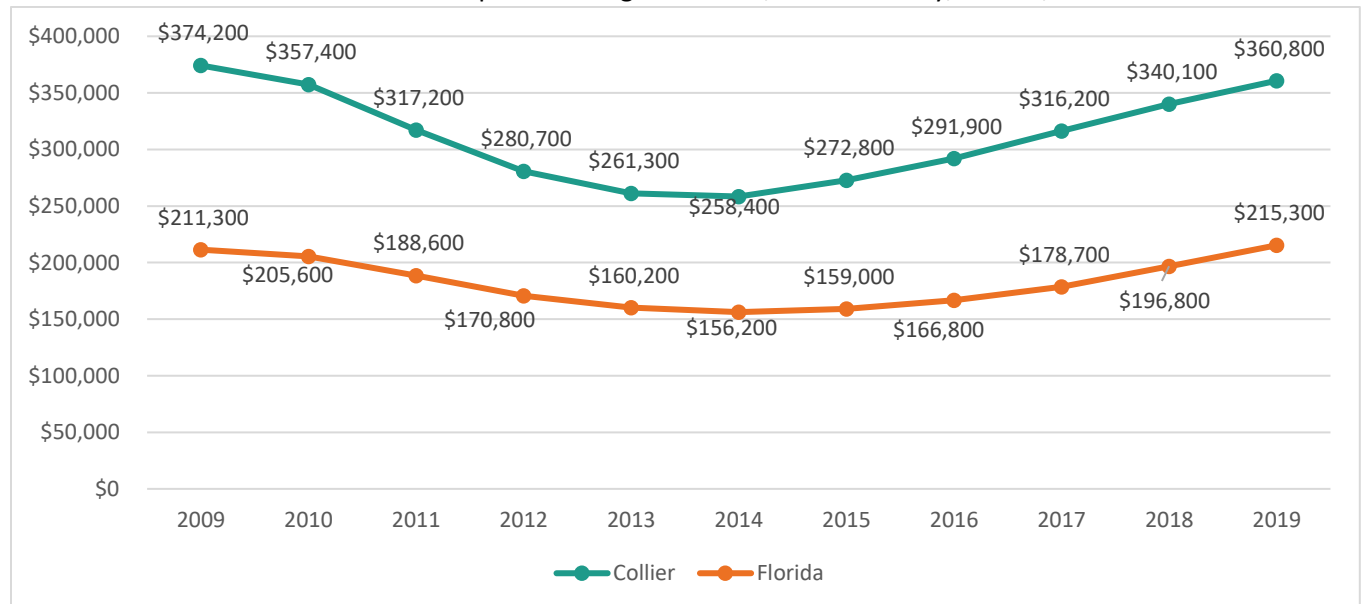
Exhibit S23: Housing Occupancy, Collier County, Florida, 2015-2019

	Collier County	Florida
Occupied Housing Units (%)	66.7%	81.9%
Owner-Occupied (%)	73.3%	65.4%
Renter-Occupied (%)	26.7%	34.6%
Household Size Owner-Occupied Unit (people)	2.45	2.63
Household Size Renter-Occupied Unit (people)	2.91	2.67
Vacant Housing (%)	33.3%	18.1%
Homeowner Vacancy (%)	3.3%	2.3%
Rental Vacancy (%)	8.8%	8.4%
Occupying Mobile Home (%)	5.2%	8.9%
Occupying Boat, RV, Van, etc. (%)	0.1%	0.1%
Median Value of Owner-Occupied Units (dollars)	\$360,800	\$215,300

Source: US Bureau of the Census, DP04 Selected Housing Characteristics

Since 2014, the median housing values have increased from \$258,400 to \$360,800 in Collier County. The houses in Collier County have consistently had a higher median housing value than the Florida average.

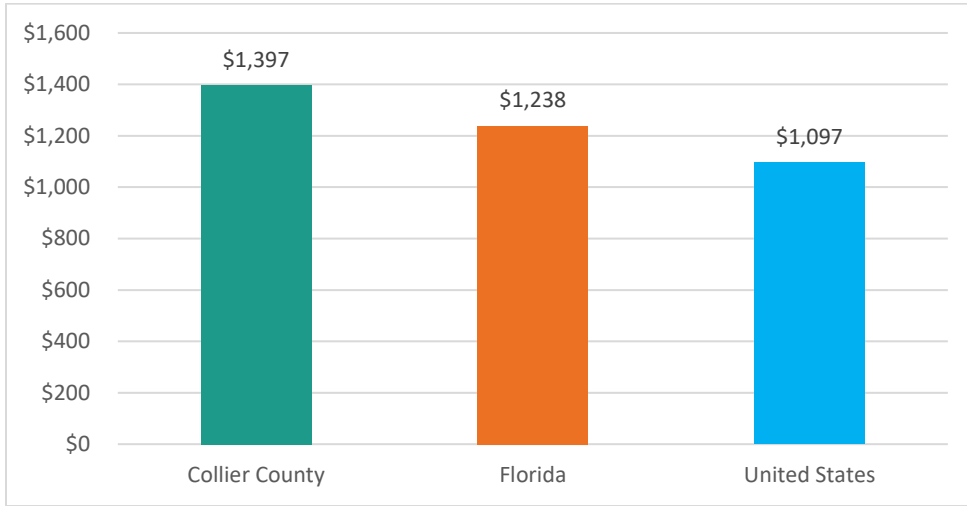
Exhibit S24: Median Owner-Occupied Housing Unit Value, Collier County, Florida, 2009-2019



Source: US Census of the Bureau, American Community Survey, Table DP04

Rental costs can be a barrier for people who want to live in a particular area. Collier County has a higher median gross rent when compared to Florida and the United States in 2019.

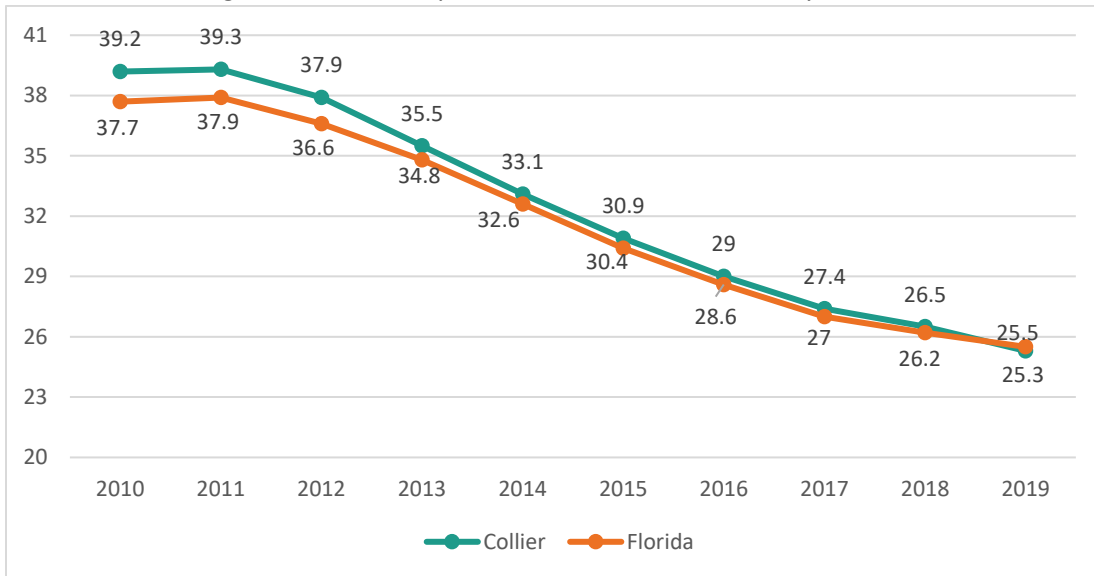
Exhibit S25: Median Cost Gross Rent, Collier County, Florida, United States, 2019



Source: US Census of the Bureau, American Community Survey, Table DP04

Housing cost burdened households, as defined by the U.S. Department of Housing and Urban Development, “are those who pay more than 30 percent of their income for housing”. Housing includes a mortgage/rent, utilities, and basic necessities to live. Since 2012 the percentage of owner-occupied households who are considered housing burdened declined, 37.9 percent to 25.3 percent.

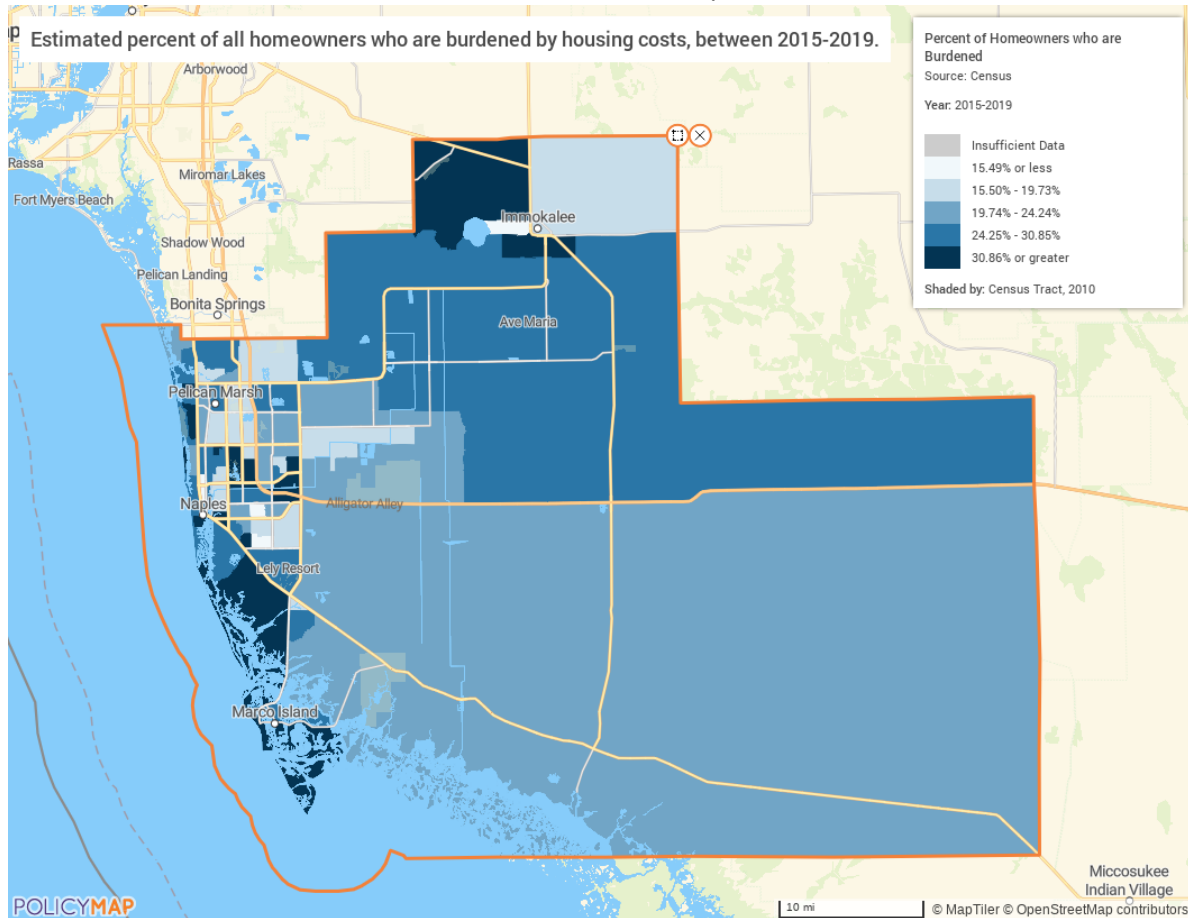
Exhibit S26: Owner-Occupied Households with Monthly Housing Costs of 30% or More of Household Income, Percentage of Owner-Occupied Households, Collier County and Florida, 2010-2019



Source: US Census of the Bureau, American Community Survey, Table DP04

Below is a Census Tract map of Collier County showing the percent of homeowners who are housing burdened. The areas in dark blue represent the highest percentage, about 31 percent or greater, of household's experiencing housing cost burden.

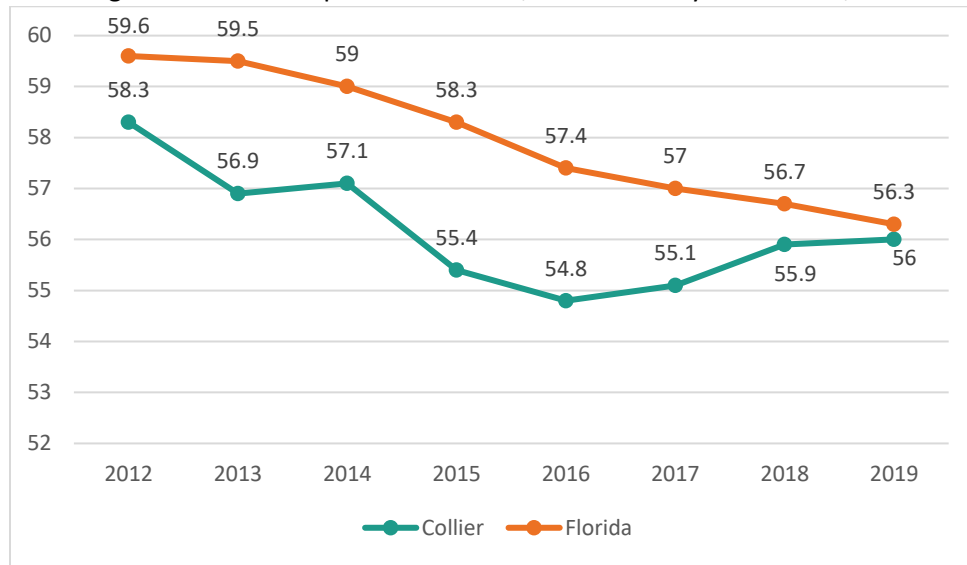
Exhibit S27: Estimated Percent of All Homeowners who are Burdened by Housing Costs, Between 2015-2019, Collier County



Source: US Census of the Bureau, 5 -year American Community Survey via PolicyMap

Exhibit S27 shows the percentage of households who rent and are considered to have a housing cost burden in Collier County and Florida. Consistently, a lower percentage of renters in Collier County are housing cost burdened than average in Florida. When comparing housing cost burden between those who own a house versus those renting in Collier County, renters have a considerably higher percentage of being considered housing cost burdened (in 2019, 56% vs 25.3%).

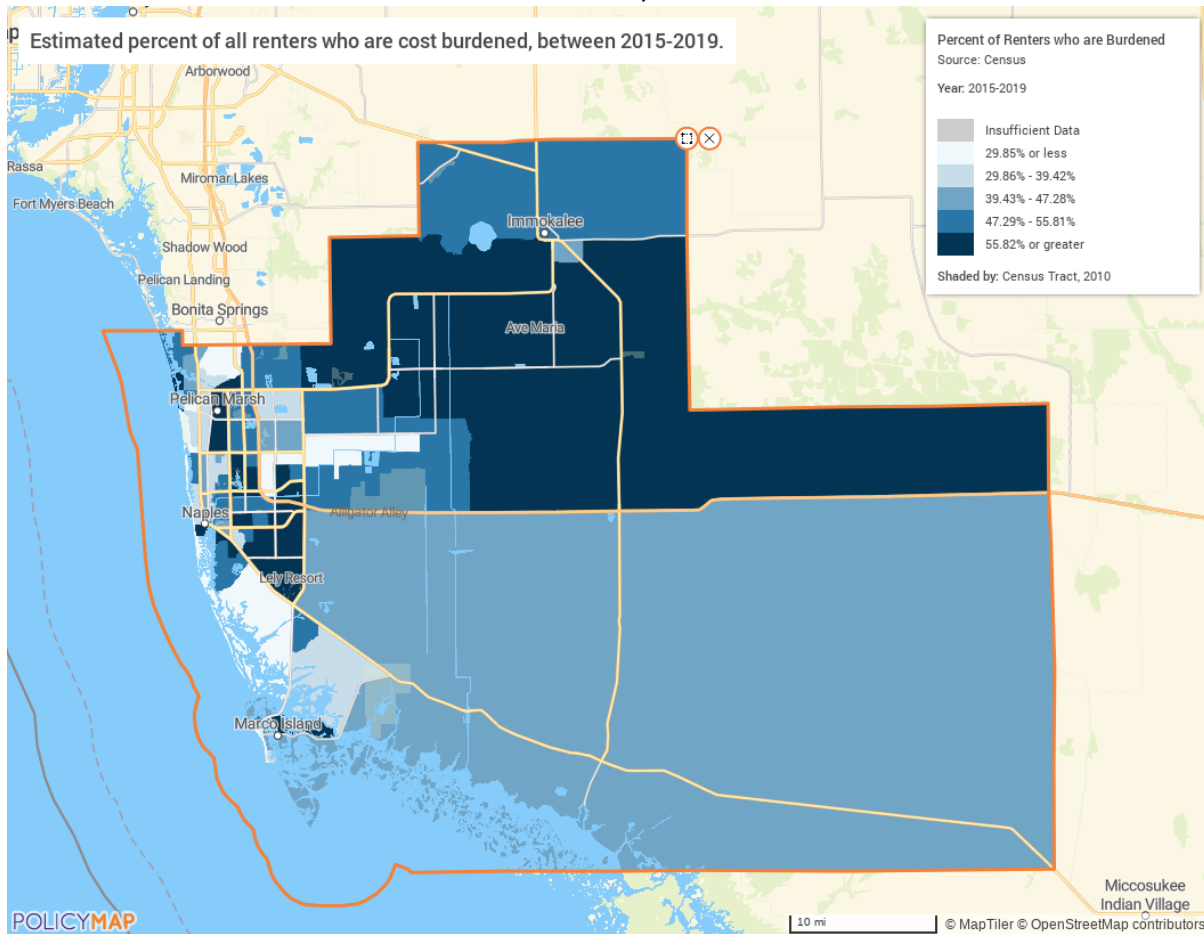
Exhibit S28: Renter-Occupied Housing Units with Gross Rent Costing 30% of More of Household Income, Percentage of Renter-Occupied Households, Collier County and Florida, 2012-2019



Source: US Census of the Bureau, American Community Survey, Table DP04

Below is a Census Tract map of Collier County showing percent of renters who are housing burden. The areas in dark blue represent the highest percentage, about 56 percent or greater, of household's experiencing housing cost burden.

Exhibit S29: Estimated Percent of all Renters who are Cost Burdened, Between 2015-2019, Collier County

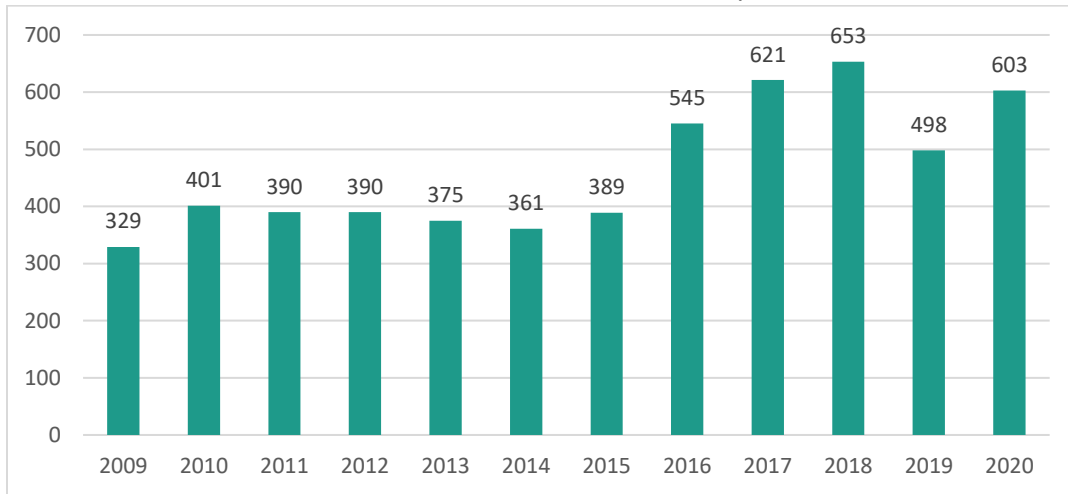


Source: US Census of the Bureau, 5 -year American Community Survey via PolicyMap

### Homelessness

The annual Point-in Time (PIT) count is a count of sheltered and unsheltered people experiencing homelessness on a single day in January (United States Department of Housing and Urban Development). The PIT is conducted via survey through local efforts to estimate the number of homeless individuals located in the community. The Hunger & Homeless Coalition conducts the PIT annually in Collier County. In 2020, it was estimated that 603 people in Collier County were considered homeless.

Exhibit S30: Homeless Estimate, Collier County, 2009-2020



Source: Florida Department of Children and Families, Office of Homelessness, Council of Homelessness Annual Report, Point-in-Time Count of Homeless People

Of the 603 homeless individuals, 252 identified that they were living in emergency shelter. The top two subpopulations of those who were homeless were those who suffered from chronic substance abuse and those with a serious mental illness. There were 128 young people under the age of 18 who identified as homeless during the PIT.

Exhibit S31: Homeless Snapshot, Collier County, 2020

	Totals
<b>Homeless Status</b>	
Literally Homeless	603
Emergency Shelter	252
Transitional Housing	183
Unsheltered	168
<b>Subpopulations</b>	
Veterans	29
Seniors (over 62)	47
Chronically Homeless	80
Serious Mental Illness	127
Chronic Substance Abuse	155
HIV/AIDS	2
Victims of Domestic Violence	95
<b>Children &amp; Youth</b>	
Under age 18	128
Children in Families	121
Unaccompanied Youth	7
<b>Homeless Students</b>	
Homeless Children	1,039
Unaccompanied (age 16 or older)	325

Source: Hunger & Homeless Coalition of Collier County, Homeless Point-in-Time County, 2020



## Disabilities

In Collier County, 11.5 percent of the population has a disability; this is lower than the Florida average of 13.4 percent. The percent of Collier County adults 65 years and over with a disability is also lower than the Florida average (24.8% vs 32.8%).

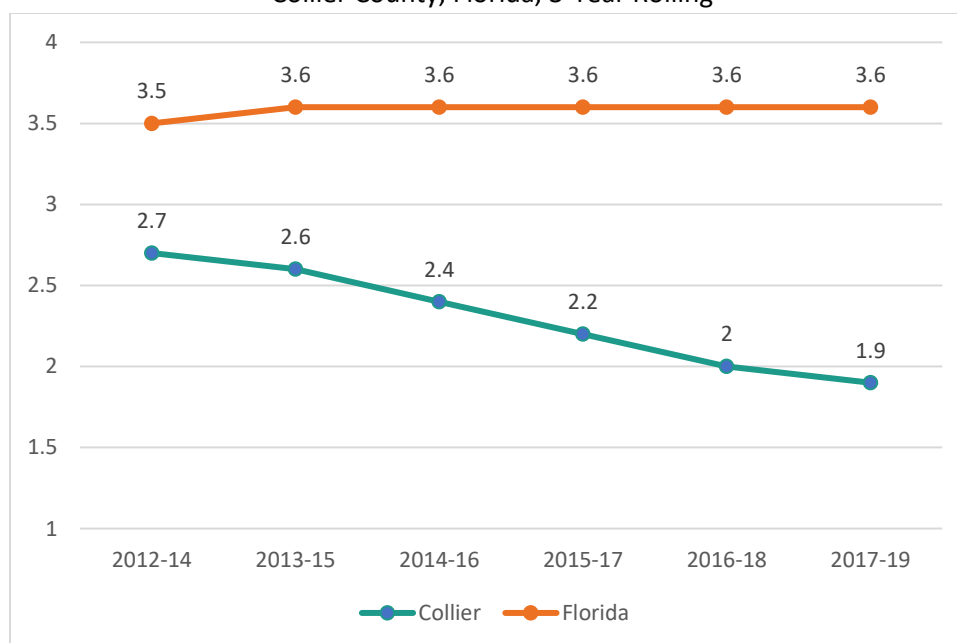
Exhibit S32: Disability Status, Collier County, Florida, 2015-2019

	Collier County	Florida
Civilian noninstitutionalized population with a disability (%)	11.5%	13.4%
Under 18 years with a disability (%)	3.1%	4.4%
18 to 64 years with a disability (%)	6.2%	10.0%
65 years and over with a disability (%)	24.8%	32.8%

Source: US Census Bureau, Table DP02, Selected Social Characteristics in the United States

According to the University of Kansas Research & Training Center of Independent Living, someone with an independent living disability is someone with a disability that can make decisions that affect their own lives. The percentage of adults in Collier County with an independent living disability is considerably lower than the state average (1.9% vs. 3.6%) and decreased since 2012.

Exhibit S33: Population Ages 18-64 with an Independent Living Disability, Percent of Population 18-64, Collier County, Florida, 3-Year Rolling



Source: US Bureau of the Census, American Community Survey, Table B18107

## Settings and Systems

### Access to Health Care

Access to health care and health services implies the timely availability and use of personal health services to achieve the best health status outcomes. In order for the population of a community to gain access to health services the following are requisites:

- a) Obtaining entry into the healthcare system.
- b) Locating and accessing a facility where the needed healthcare services are provided.
- c) Accessing a health care provider with whom the patient can communicate with confidence.

Lack of access to health care or failure to access health care services has a direct impact and effect on the health status of a community, county, and state.

The overall level of physical, social, and mental health status is impacted by the degree of access to health services. The prevention of a disease by early detection and treatment of health conditions is achieved through access to healthcare. Access to health services increases the quality of life by reducing preventable mortality (Years of Potential Life Lost) while simultaneously increasing life expectancy.

Health insurance coverage assists patients in gaining access to the healthcare system. Lack of health insurance is highly correlated with failure to receive medical care, with early and premature death, and with overall poor health status.

As the United States does not have a universal healthcare model, private health insurance coverage is an integral mainstay for access to healthcare for the core working population 18–64 years of age and vital to the personal well-being and health of individuals in Collier County and Florida.

The following exhibit shows select payor sources for hospital emergency department visits for all Collier County residents discharged from any Florida hospital by age groups. For those 17 years of age and under, Medicaid was the leading payor source paying for 61 percent of visits. Children under the age of 18 can access Medicaid if they meet income eligibility requirements.

For those 18 to 39 years of age, the leading payor source was private insurance. Out of all the age groups, this one has the highest percentage of those who self-paid. This population tends to have a higher proportion of those who do not have health insurance. Those 45 to 64 years of age had the highest percentage of visits paid using private health insurance as the payor source. The highest percentage of Medicare users were those 65 years and over. According to the U.S. Department of Health and Human Services, Medicare is available for anyone 65 and older, younger people with disabilities, and individuals with a diagnosis of end stage renal disease.

**Exhibit SS1: Payor Source for Hospital Emergency Department Visits by Age Groups, Collier County  
Residents Discharged from any Florida Hospital, 2019**

	Medicaid		Medicare		No Charge/Charity		Other		Private, Includes HMO		Self-Pay	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0-17 Years	11,802	61%	1	0%	154	1%	2,771	14%	3,090	16%	1,403	7%
18-39 Years	4,374	22%	376	2%	1,207	6%	2,354	12%	6,785	33%	5,232	26%
40-64 Years	3,065	14%	2,287	11%	1,058	5%	2,317	11%	9,801	45%	3,180	15%
65+ Years	1,991	8%	21,310	82%	35	0%	1,199	5%	1,087	4%	294	1%

Source: Broward Regional Health Planning Council, Hospital Inpatient & Emergency Department Analytical System

Collier County has more licensed providers than the state average in every category except for licensed pediatricians. The county has significantly fewer nursing home beds per 100,000 residents when compared to the State of Florida (230.8 vs. 386.5). Collier County has a smaller number of full-time employees working at the county health department per 100,000 residents compared to the state average.

**Exhibit SS2: Health Resource Availability, Collier County and Florida, Fiscal Year 2020-2021**

	Collier County			Florida
	Number	Rate per 100,000	Quartile**	Rate per 100,000
<b>Providers*</b>				
Total Licensed Dentists	287	74.3	4	56.7
Total Licensed Physicians	1,322	342.1	4	314.0
Total Licensed Family Practice Physicians	75	19.4	3	19.2
Total Licensed Internists	215	55.6	4	47.3
Total Licensed OB/GYN	46	11.9	n/a	9.2
Total Licensed Pediatricians	61	15.8	n/a	21.9
<b>Facilities</b>				
Total Hospital Beds***	1,059	274.0	3	307.6
Total Acute Care Beds***	826	213.7	3	248.9
Total Specialty Beds***	233	60.3	n/a	58.6
Total Nursing Home Beds***	892	230.8	1	386.5
<b>County Health Department***</b>				
County Health Department Full-Time Employees	150	6.2	1	40.9
County Health Department Expenditures	11,199,875	\$29.00	1	\$33.40

Source: Florida Department of Health, Division of Medical Quality Assurance; Florida Agency for Health Care (AHCA); Florida Department of Health, Division of Public Health Statistics and Performance Management

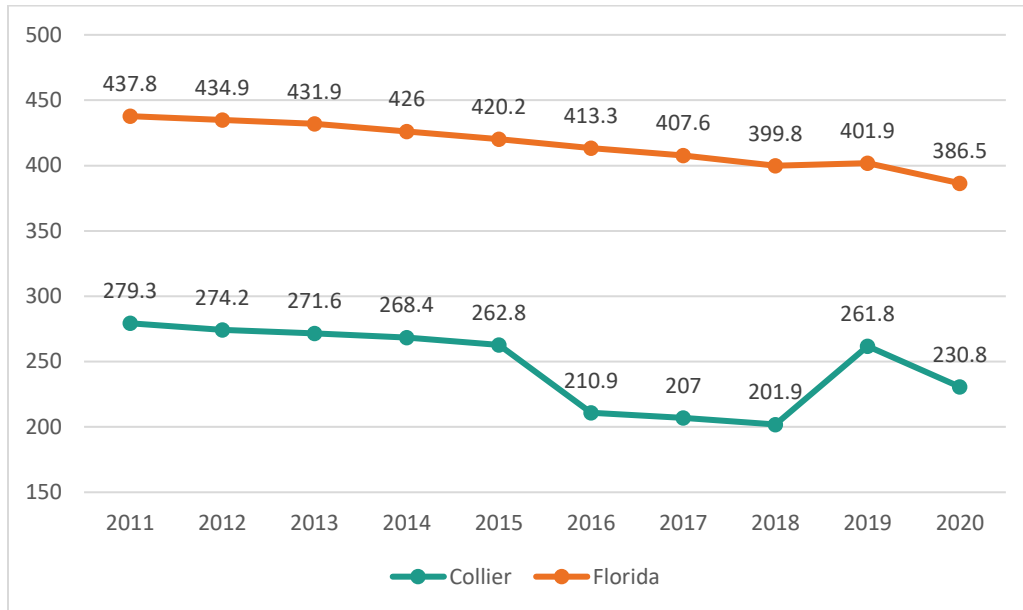
\*Number of licensed providers does not necessarily equal the number of practicing providers. These numbers may include providers who work in another county, only work part-time, or retired.

\*\*County compared to other Florida counties. The lowest quartile equals the lowest number. For resource availability the lowest number is generally considered the worst ranking. Quartile information is provided when at least 51 counties rates greater than zero.

\*\*\*Data is from year 2020

From 2011 to 2020, there was an overall decrease of nursing home beds in Collier County, with a small increase from 2018 to 2019. Over the past decade Collier County had significantly less nursing home beds than the State of Florida.

Exhibit SS3: Total Nursing Home Beds, Rate per 100,000 Population, Collier County and Florida, 2011-2020

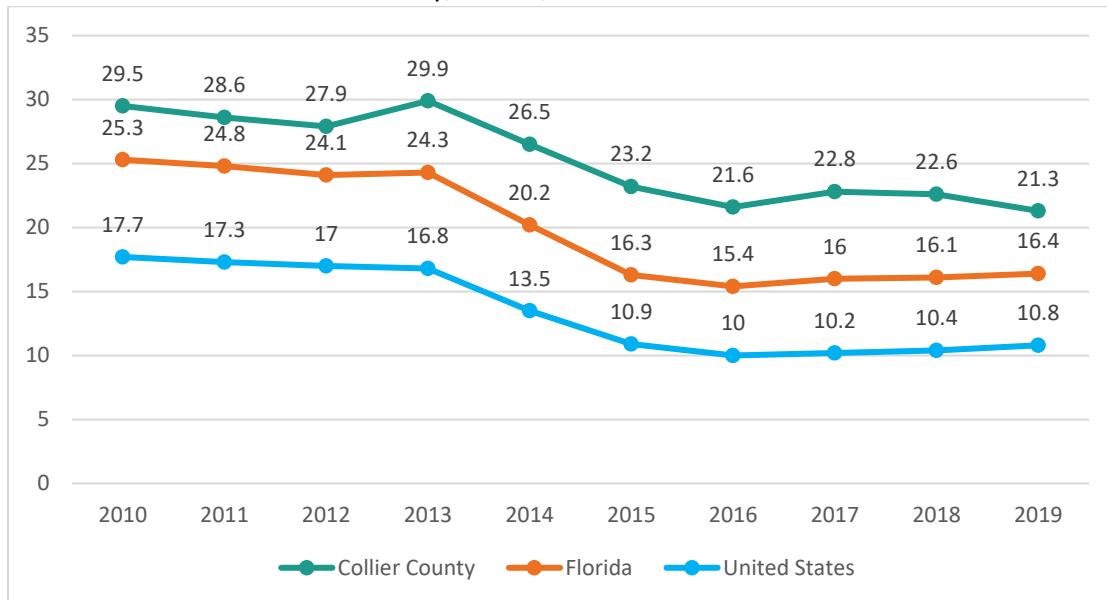


Source: Florida Agency of Health Care Administration (AHCA)

### Health Insurance Coverage

Between 2013 and 2016, Collier County, Florida, and the United States started to see a decline in the percentage of the population who were uninsured. Collier County consistently had a higher percentage of people under the age of 65 who are uninsured. It is estimated that in 2019 21.3 percent of Collier County residents under the age of 65 were without insurance. The following exhibits break out the population who are uninsured by age, sex, race and ethnicity, educational attainment, and income.

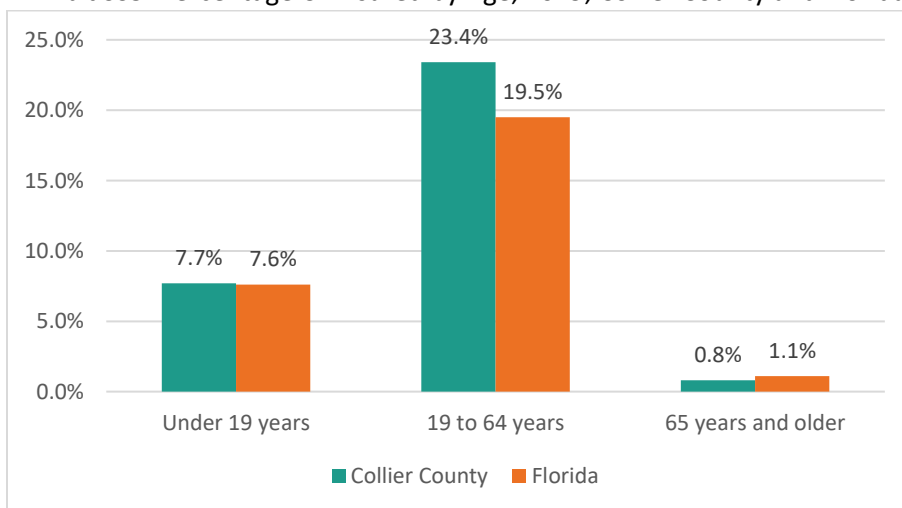
Exhibit SS4: Percentage of the Population Under 65 Years of Age who are Uninsured, 2010-2019, Collier County, Florida, and United States



Source: U.S. Census Bureau, Small Area Health Insurance Estimates

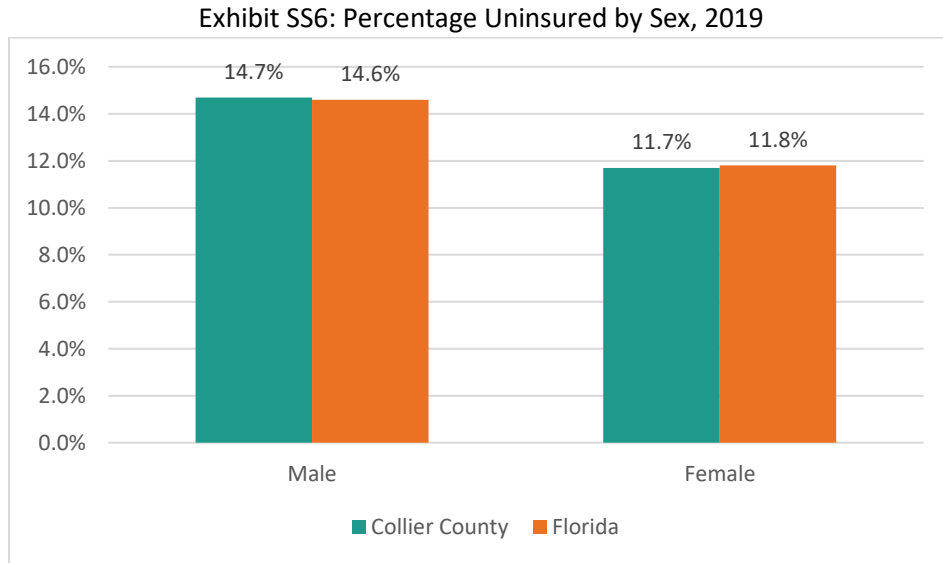
In 2019, for the population less than 18 years of age in Collier County 7.7 percent are uninsured compared with 7.6 percent in Florida. Of the core working population 19-64 years of age, in Collier County 23.4 percent were without health insurance compared with 19.5 percent in the State of Florida, a difference of 3.9 percent. For the population 65 years of age and older in Collier County only 0.8 percent were without health insurance while in Florida only 1.1 percent lacked insurance. This very low proportion of the uninsured, is due to the “Medicare effect”, currently those 65 years of age and above are eligible for Medicare.

Exhibit SS5: Percentage Uninsured by Age, 2019, Collier County and Florida



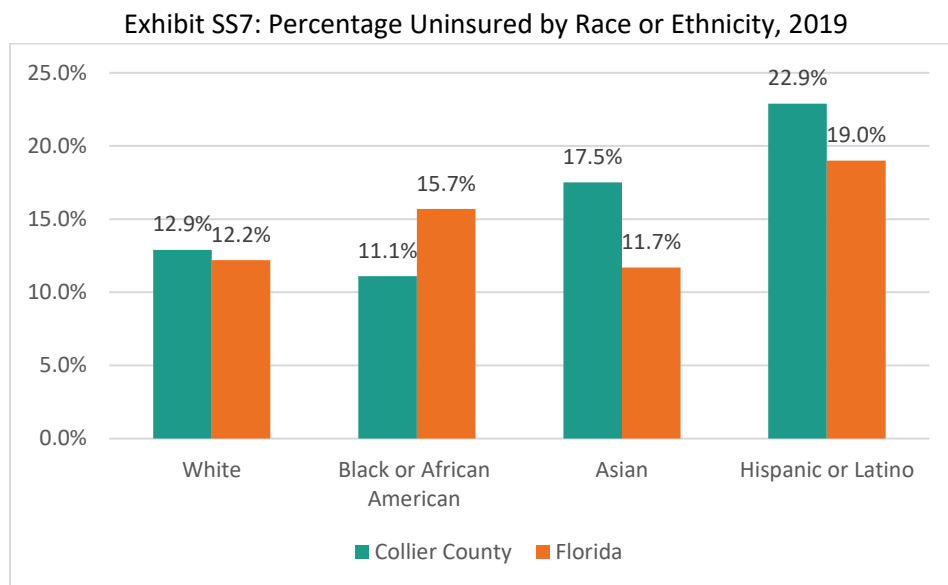
Source: US Bureau of the Census, American Community Survey, Table S2701

Compared to females, males in Collier County and in Florida have a slightly higher percentage of those who are uninsured. For both males and females there is only a 0.1 percent difference between Collier County and Florida. Please note that this data includes both those who are over and under the age of 65.



Source: US Bureau of the Census, American Community Survey, Table S2701

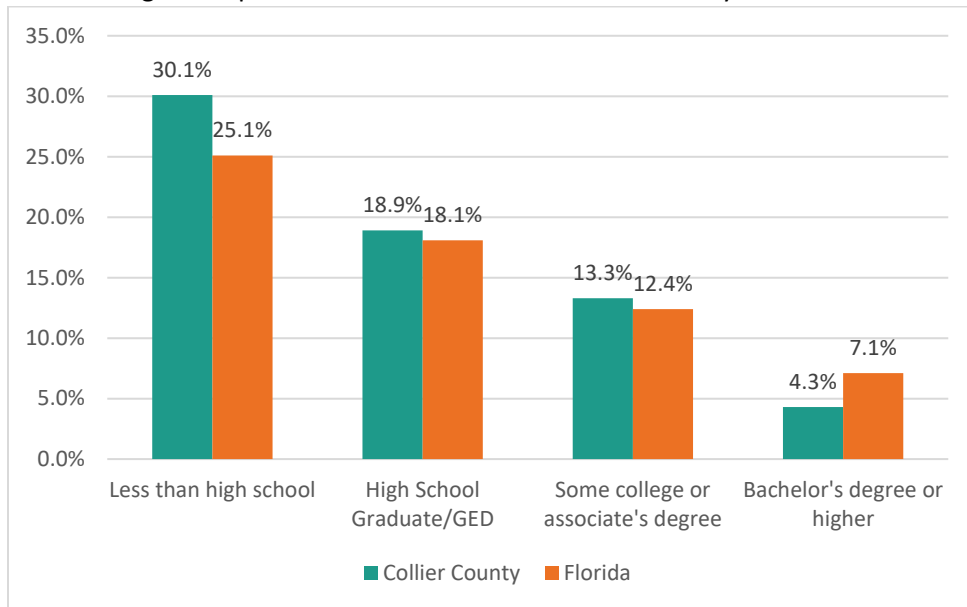
For whites, Asians, and Hispanic/Latinos, the percentage of uninsured in Collier County is greater than the average for the State of Florida. 4.6 percent fewer of those who identify as Black or African American in Collier County are uninsured than the average for the State of Florida. Hispanic or Latinos had the highest percentage of those who are uninsured when compared to other races and ethnicities.



Source: US Bureau of the Census, American Community Survey, Table S2701

As expected for both Collier County and Florida, as the educational level increases, the percentage of the individuals in that group who are uninsured decreases. In Collier County, 30.1 percent of those with less than a high school diploma were uninsured compared to only 4.3 percent of those who have a bachelor’s degree or higher. The proportion of the population in Collier County uninsured with less than a high school education was 30.1 percent in 2019, while in Florida it was 25.1 percent. Compared to the other educational levels, those with a bachelor’s degree or higher was the only level to have a smaller percentage of uninsured individuals when compared to the state average.

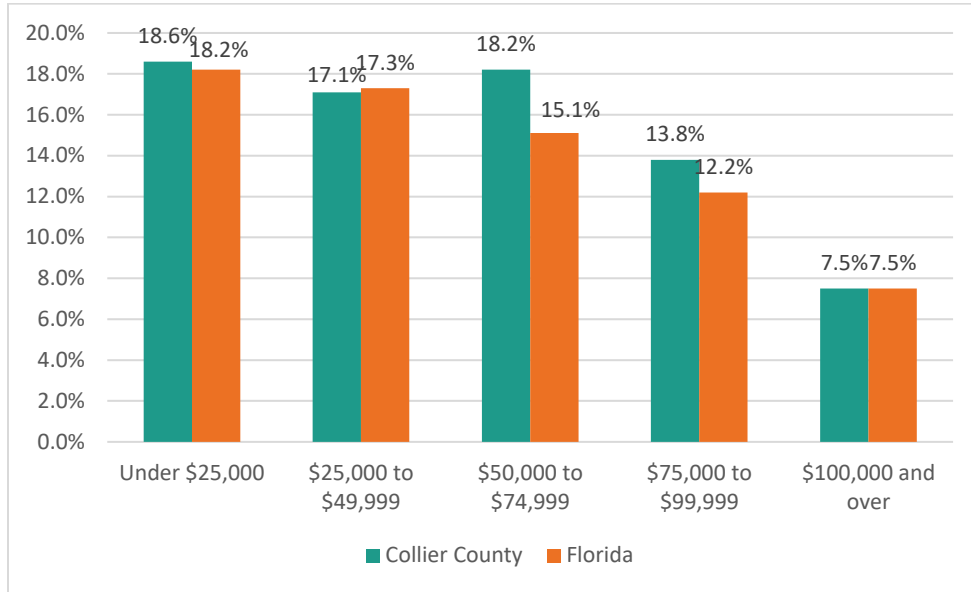
Exhibit SS8: Percentage of Population 26 Years and Older Uninsured by Educational Attainment, 2019



Source: US Bureau of the Census, American Community Survey, Table S2701

About 36 percent of the uninsured population in Collier County make less than \$50,000. The percentage of those without insurance decreases for those making over \$75,000 and even more for those making over \$100,000. When comparing Collier County and the State of Florida those making under \$25,000, \$25,000 to \$49,999, and \$100,000 and over had similar proportions of those who are uninsured.

Exhibit SS9: Percentage Uninsured by Income, 2019



Source: US Bureau of the Census, American Community Survey, Table S2701

### School-aged Children

The Star Early Literacy assessment is administered to kindergarten students during the first 30 days of the school year. This assessment indicates whether a student is “ready for kindergarten”. In 2020, 50 percent of kindergarten students were deemed school ready when they entered kindergarten, this is slightly less than the percentage across the State of Florida (57%). The percentage varies significantly by school with the highest scoring school in Collier County having 81 percent of children deemed ready and the lowest scoring school having 18 percent deemed ready.

Exhibit SS10: Florida Kindergarten Readiness Screener (FLKRS), Collier County Elementary Schools, Fall 2020

	Number of Test Takers	Number “Ready for Kindergarten”*	Percentage “Ready for Kindergarten”*
<b>Florida</b>	<b>133,632</b>	<b>76,098</b>	<b>57%</b>
<b>Collier County</b>	<b>2,568</b>	<b>1,273</b>	<b>50%</b>
eCollier Academy	27	22	81%
Veterans Memorial Elementary School	90	70	78%
Mason Classical Academy	80	59	74%
Lake Park Elementary School	67	47	70%
Sea Gate Elementary School	98	67	68%
Pelican Marsh Elementary School	78	53	68%
Corkscrew Elementary School	79	53	67%
Vineyards Elementary School	124	83	67%
Osceola Elementary School	87	56	64%



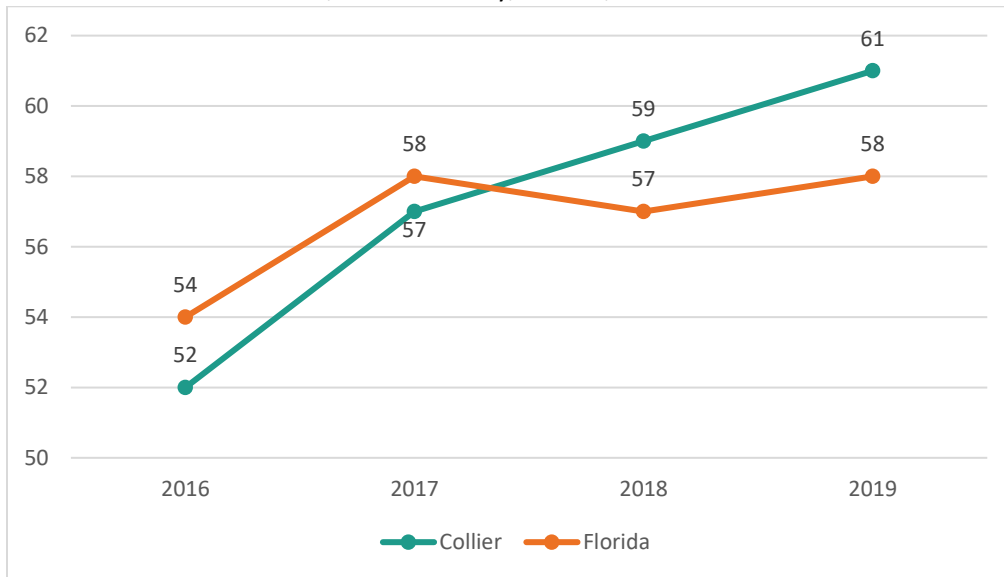
	Number of Test Takers	Number "Ready for Kindergarten"*	Percentage "Ready for Kindergarten"*
Laurel Oak Elementary School	140	88	63%
Sabal Palm Elementary School	47	29	62%
Collier Charter Academy	100	57	57%
Lavern Gaynor Elementary School	20	11	55%
Big Cypress Elementary School	101	54	53%
Tommie Barfield Elementary School	64	33	52%
Naples Park Elementary School	49	24	49%
Calusa Park Elementary School	92	45	49%
Estates Elementary School	96	46	48%
Herbert Cambridge Elementary School	31	14	45%
Lake Trafford Elementary School	86	38	44%
Mike Davis Elementary School	60	26	43%
Gulf Coast Charter Academy South	60	26	43%
Lely Elementary School	58	25	43%
Poinciana Elementary School	56	24	43%
Shadowlawn Elementary School	53	22	42%
Parkside Elementary School	68	28	41%
Highlands Elementary School	68	22	32%
Palmetto Elementary School	67	21	31%
Eden Park Elementary School	96	30	31%
Golden Gate Elementary School	50	14	28%
Village Oaks Elementary School	53	14	26%
Golden Terrace Elementary School	53	14	26%
Avalon Elementary School	49	11	22%
Pinecrest Elementary School	104	23	22%
Immokalee Community School	34	7	21%
Manatee Elementary School	76	14	18%

Source: Florida Department of Education

\*Scoring 500+ on Star Early Literacy Assessment

There was an increase in the percentage of Collier County Grade 3 students passing the English Language Arts portion of the Florida Standards Assessment (FSA) over the past four years. For the past two years reported, Collier County has had higher rates of students passing the assessment when compared to the State of Florida. Students must achieve a passing level of 3 or above on the Florida Standards English Language Arts Assessment to pass. Due to the COVID-19 pandemic, the Florida Standards Assessments were canceled for the 2019-2020 school year. These assessments are usually completed during the spring.

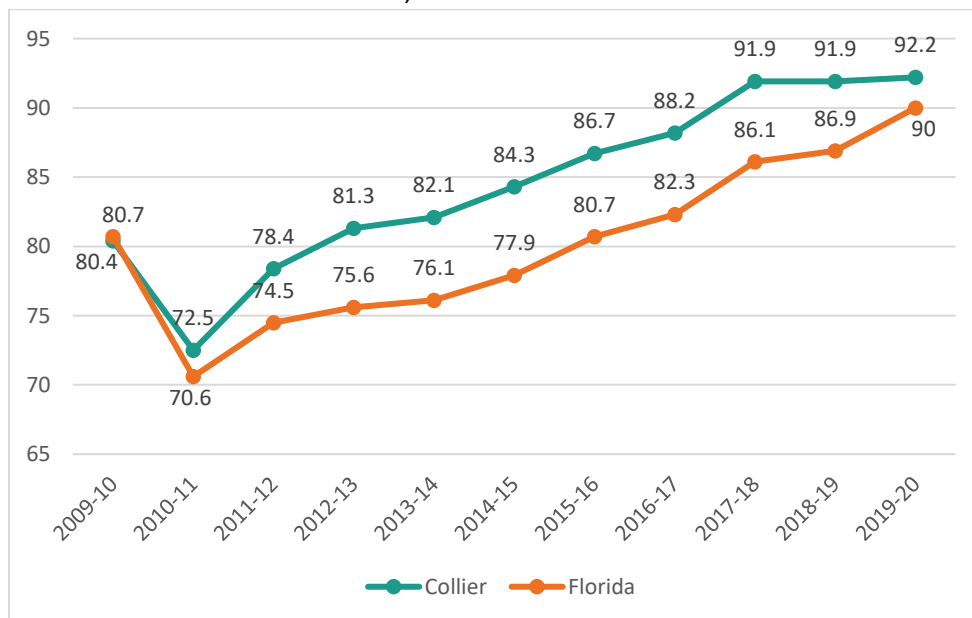
Exhibit SS11: Grade 3 Students with Passing Grade on Florida Standards Assessment English Language Arts, Collier County, Florida, 2016-2019



Source: Florida Department of Education, Florida Standards Assessment – Spring

Since the 2010 – 2011 school year, Collier County has consistently had a higher high school graduation rate when compared to the state average. The rate increased both in Collier County and across the State of Florida. Collier County’s highest graduation rate was in 2019-2020 at 92.2 percent.

Exhibit SS12: High School Graduation Rate, Percent of Student Cohort Since 9th Grade, Collier County and Florida, 2009 – 2020 School Years



Source: Florida Department of Education, Education Information and Accountability Services (EIAS)

## Food Insecurity

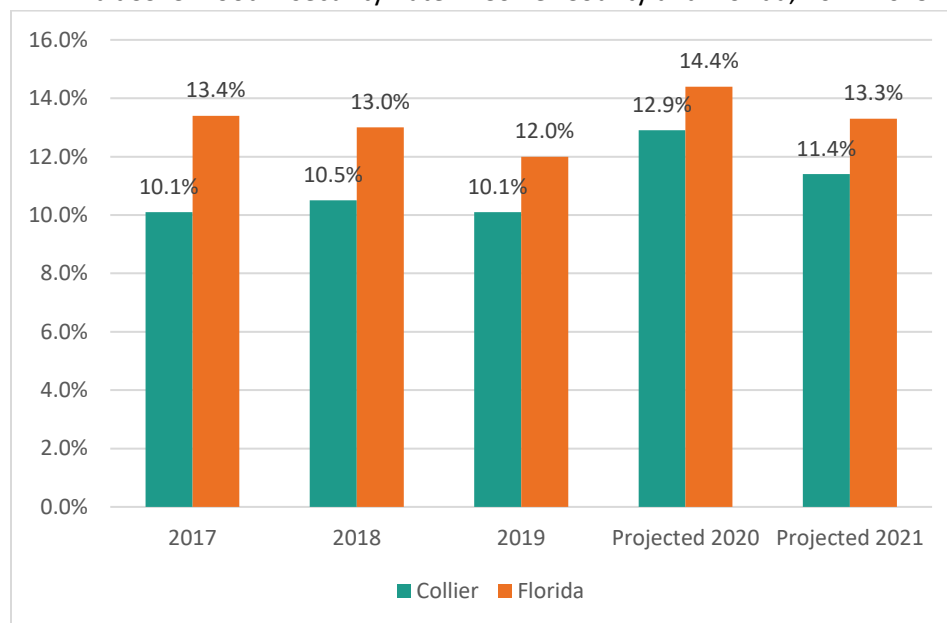
Exhibit SS13 looks at overall food insecurity, while exhibit SS14 focuses strictly on child food insecurity.

In 2019, 37,520 people in Collier County were food insecure. In 2019, it was estimated that 31 percent of food insecure people were above SNAP and other nutrition program thresholds of 200 percent poverty, while 69 percent are below. The average meal cost in Collier County is \$3.60, this is 32 cents higher than the Florida average, \$3.28. The annual food budget shortfall for the county was \$23,108,000; this is the total annualized additional dollar amount that food insecure individuals report needing, on average, to purchase just enough food to meet their food needs.

Exhibits SS13 and SS14 show the food insecurity rate over time including the projected increase during COVID-19. In response to the COVID-19 pandemic, Feeding America conducted a study to provide projected impacts the pandemic had on local food insecurity for both 2020 and 2021. According to Feeding America, prior to the COVID-19 pandemic the United States saw its lowest rate of food insecurity in over 20 years. It was projected that in 2020, 12.9 percent of people in Collier County would be food insecure.

The past three years, 2017-2019, the percentage of those who are food insecure has remained around 10 percent. When compared to the state, Collier County has consistently had a slightly lower food insecurity rate (2019, 10.1% Collier County vs. 12.0% Florida).

Exhibit SS13: Food Insecurity Rate in Collier County and Florida, 2017-2019



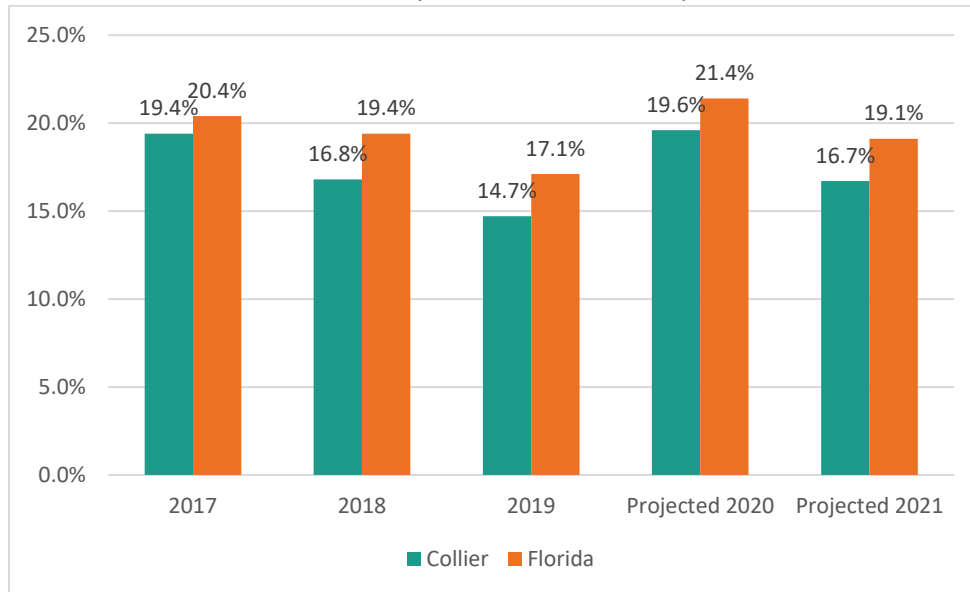
Source: Feeding America, Map the Meal Gap

The number of children who are food insecure had been decreasing since 2017. In 2019, it was estimated that 22 percent of food insecure children were likely ineligible for federal nutrition programs (incomes above 185% poverty), while 78 percent were eligible (incomes at or below 185% of poverty).

There was a decrease of almost 5 percent among children who were food insecure between 2017 and 2019. When compared to the state, Collier County has consistently had a slightly lower child food insecurity rate (2019, 14.7% Collier County vs. 17.1% Florida).

Among children, the projected rate was higher with 19.6 percent of children projected to be food insecure. This is a 27 percent increase in overall food insecurity in Collier County. The 2021 projection of food insecurity in Collier County was 11.4 percent overall, while 16.7 percent of children would be food insecure. This further shows the devastating economic impacts caused by the COVID-19 pandemic.

Exhibit SS14: Child Food Insecurity Rate in Collier County and Florida, 2017-2019



Source: Feeding America, Map the Meal Gap

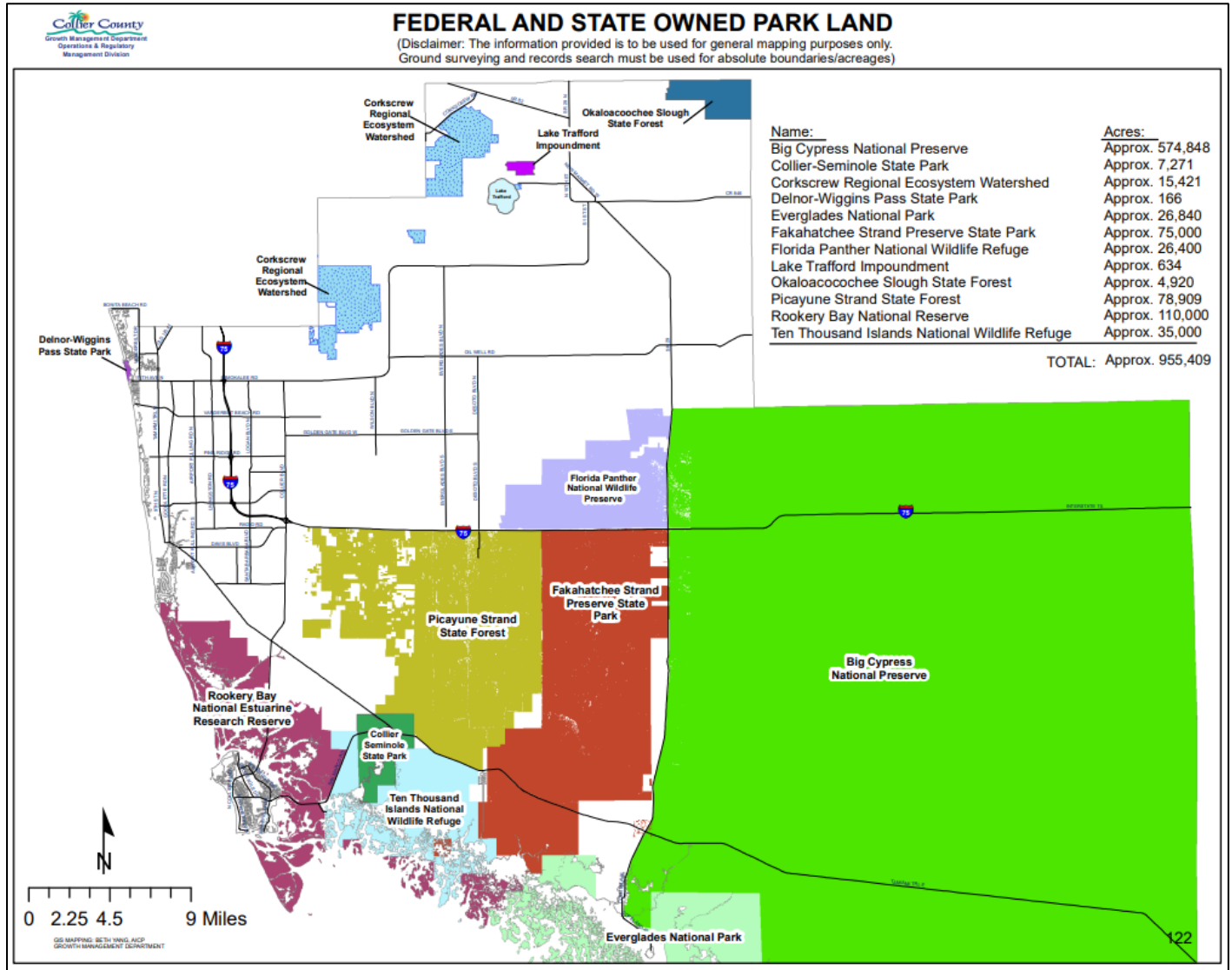
To address these challenges, partners in Collier County participate in the Southwest Florida Food Policy Council to create affordable, reliable, and sustainable healthy food access for individuals in need. The Board of County Commissioners February 2021 proclamation recognized the Council's work to make fresh foods locally available, promote the efficient use of land and the preservation and conservation of agriculture, support reduction in food transportation, and provide educational resources for the community.

### Conservation Lands, Parks, and Trails

Collier County has a rare characteristic in that nearly 80 percent of the land area is protected from development. It is the largest county in Florida by land area, and the fact that most of it is in conservation affects health outcomes by maintaining excellent water and air quality and providing access to recreation and environmental education opportunities for residents. It also limits urban/sub-urban development to specific areas of the county, which focuses planning for and locating health care facilities and public health services on those areas.

The protected lands in Collier County include parks, beaches, trails, preserves, wildlife refuges, wetlands, forests, and more. These lands are managed by a variety of different jurisdictions including Collier County, local municipalities, the State of Florida, and Federal entities like the National Park Service and National Oceanic and Atmospheric Administration (NOAA).

Exhibit SS15: Federal and State Owned Park Land, Collier County, 2021



Source: Collier County Annual Update & Inventory Report/Capital Improvement Element Schedule Update on Public Facilities 2021 ([AUIR/CIE](#))

State and federal conservation lands account for 67 percent of the county's total area, while the remaining protected areas are parks, trails, beaches, and preserves managed by local jurisdictions.

Exhibit SS16: Collier County Park Land Inventory, 2021

Jurisdiction	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Conservation Preserve Acres	Total Acres per Jurisdiction
Collier County	594.99	32.85	1,561.68	4,309.28	6,498.8
Naples	39.71	7.00	39.59	0.00	86.30
Marco Island	32.97	9.00	0.00	0.00	41.97
Everglades City	1.90	0.00	0.00	0.00	1.90
Total Acres per Category	669.57	48.85	1,601.27	4,309.28	6,628.97

Source: Collier County Annual Update & Inventory Report/Capital Improvement Element Schedule Update on Public Facilities 2021 ([AUJIR/CIE](#))

The locally managed lands include various types of parks such as regional parks, community parks, neighborhood parks, aquatic parks, boat parks, and skate & BMX parks. Bicycle and pedestrian facilities are also an important part of a healthy built environment. Collier County has 200 miles of these facilities, which are part of the main transportation infrastructure. Local sidewalks and shared use paths add another 600 additional miles to the inventory. But there are only five miles of off-street trails in the county.

Exhibit SS17: Collier County Existing Bicycle and Pedestrian Facilities, 2020

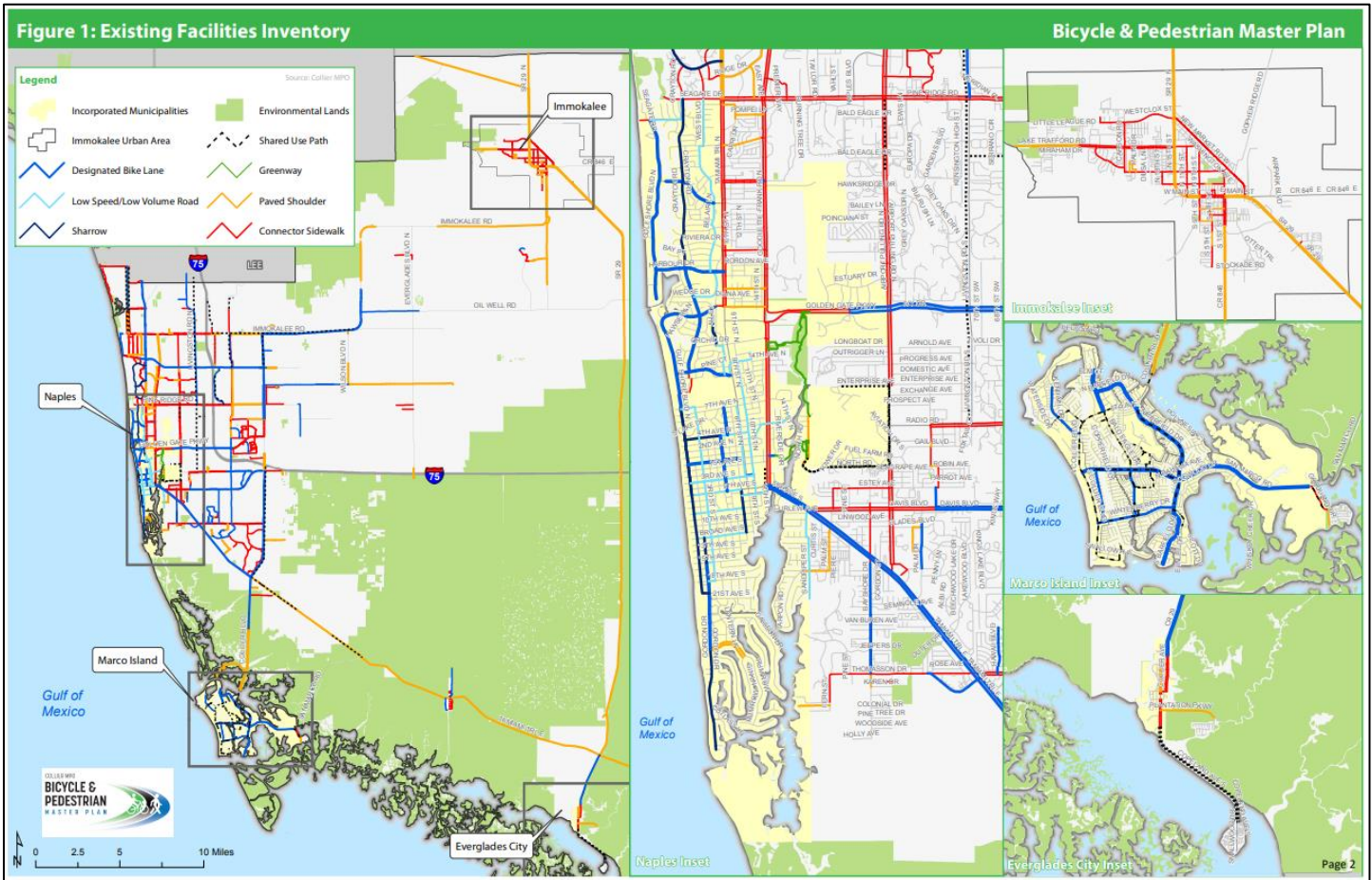
Type of Bicycle/Pedestrian Facility	Miles*
Centerline miles of bicycle lanes	133
Centerline miles of connector sidewalks on arterial roadways	83
Linear miles of shared use paths adjacent to roadways	4

Source: Collier Metropolitan Planning Organization Bicycle and Pedestrian Master Plan 2019, Baseline Conditions 2020

\*Data based on the Transportation System Performance Report Road Network - Arterials and Collectors, does not include local roads.



Exhibit SS18: Existing Bicycle and Pedestrian Facilities Inventory, Collier County, 2018



Source: Collier Metropolitan Planning Organization Bicycle and Pedestrian Master Plan 2019

Despite the vast amount of conservation land resources available for recreational activities, most of them are not located near population centers and are only accessible by car. Similarly, the bicycle and pedestrian facilities are mostly on-street. Therefore, when compared to the Florida average, Collier County has a smaller percentage of the population that live near a park or off-street trail system.

Exhibit SS19: Proximity to Park and Trails, Collier County and Florida, 2019

	Collier	Florida
Percent of the population living within a ten-minute walk (1/2 mile) of a park	20.34%	40.05%
Percent of the population living within a ten-minute walk (1/2 mile) of an off-street trail system	11.30%	18.23%

Source: Florida Environmental Public Health Tracking

## Transportation

According to the Centers for Disease Control and Prevention (CDC), high commute times can be linked to negative health outcomes such as obesity, high blood pressure, heart disease, and poor mental health. A higher percentage of Collier County workers carpool to work and work at home when compared to the Florida average. Collier County workers on average have a lower travel time than the Florida average.

Exhibit SS20: Commuting to Work, Workers 16 years and over, Collier County and Florida, 2015-2019

	Collier	Florida
Car, truck, or van – drove alone (%)	75.1%	79.1%
Car, truck, or van – carpooled (%)	12.4%	9.2%
Public transportation, excluding taxicab (%)	1.6%	1.8%
Walked (%)	1.3%	1.4%
Other means (%)	2.3%	2.3%
Worked at home (%)	7.3%	6.2%
Mean travel to work (minutes)	24.7 minutes	27.8 minutes

Source: U.S. Census Bureau DP03 Selected Economic Characteristics

More than 95 percent of households in Collier County have at least one vehicle available. About 14 percent of households have three or more vehicles.

Exhibit SS21: Cars per Household, Collier County and Florida, 2015-2019

	Collier	Florida
Households with no vehicles available (%)	4.8%	6.3%
Households with 1 vehicle available (%)	40.3%	39.7%
Households with 2 vehicles available (%)	40.6%	38.4%
Households with 3 or more vehicles available (%)	14.3%	15.6%

Source: U.S. Census Bureau DP04 Selected Housing Characteristics

## Complete Streets

According to the U.S. Department of Transportation, complete streets are designed and operated to enable safe use and support mobility for all users. Some of the aspects of complete streets include:

- Sidewalks
- Bicycle Lanes
- Bus Lanes
- Public Transportation Stops
- Crossing Opportunities
- Median Islands
- Accessible Pedestrian Signals
- Curb Extensions
- Modified Vehicle Travel Lanes
- Streetscape
- Landscape Treatments



As a part of a review of Complete Streets, the U.S. Department of Transportation scored metropolitan statistical areas on a number of data categories. The table below show scores for each data category. These scores are on a scale of 0 to 100, where a higher value is better.

The State of Florida currently has a complete streets policy in place, but as of the time of review, the Naples-Immokalee-Marco Island metropolitan statistical area (msa), Collier County area, did not have a complete streets policy. Collier County passed a Complete Streets resolution in January 2019, and the City of Naples passed a resolution in 2015. In March 2019, the Board of County Commissioners approved the Collier Metropolitan Planning Organization Bicycle Pedestrian Master Plan. It unifies planning efforts and influences facility improvement priorities at the county level for the bicycle and pedestrian network throughout Collier County.

The Naples-Immokalee-Marco Island msa scored better than the State of Florida in every category, except for auto-related road traffic fatalities, where the msa and Florida have the same score. Collier County performed particularly well with a perfect score, of 100, for proximity to major roadways. The biggest area for improvement, according to the scores, are road traffic facilities by bicycle and commute mode share – walk.

Exhibit SS22: Scores, Naples-Immokalee-Marco Island Metropolitan Statistical Area and Florida, 2015

	Naples-Immokalee-Marco Island msa	Florida
Commute Mode Share – Auto	80	40
Commute Mode Share – Transit	68	48
Commute Mode Share – Bicycle	74	64
Commute Mode Share – Walk	15	10
Proximity to Major Roadways	100	48

Source: U.S. Department of Transportation, Transportation and Health Indicators

## Crime

Collier County has a lower-than-average rate for all crimes and domestic violence when compared to the State of Florida as a whole. The three most common categories of crimes in Collier County are larceny, domestic violence, and aggravated assault.

Exhibit SS23: Crime in Collier County, 3-Year Rate per 100,000, 2017-2019

	Collier	Florida	Quartile
Aggravated Assault	182.9	268.9	1
Burglary	155.5	356.4	1
Total Domestic Violence Offenses	451.3	505.2	2
Forcible Sex Offenses	49.0	54.4	2
Homicide	2.6	6.6	1
Larceny	944.7	1,792.4	2
Motor Vehicle Theft	71.2	195.9	1
Murder	2.3	5.2	1
Robbery	40.1	82.3	3

Source: Florida Department of Law Enforcement; Florida Department of Health, Bureau of Vital Statistics

\*County compared to other Florida Counties. The lowest quarter equals the lowest number

## County Health Rankings & Roadmaps

The County Health Rankings & Roadmaps is a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute that looks at the health of all states and counties in the United States. This program provides data, evidence, and examples to aid communities to build awareness of the various factors that impact the overall health of the community. The County Health Rankings are based on a variety of factors that affect the health of the county's residents such as unemployment, levels of physical inactivity, and rates of smoking, obesity, and children living in poverty. Below is a look at the Collier County's County Health Rankings over the past seven years.

There are two main rankings used to compare all the counties in a state to each other, Health Outcomes Overall rank and Health Factors Overall rank. The Health Outcomes rank includes the health indicators length of life and quality of life. The Health Factors rank includes the health indicators health behaviors, clinical care, social & economic factors, and physical environment. To note, some of the health indicators that County Health Rankings used have changed over the years. If that indicator is no longer used the word *removed* will be used to indicate this. Blanks in the chart indicates that this was a health indicator that was added later, hence no data was available for that specific year. The definition for the health indicators may change per year so the latest definition was used.

Exhibit CH1: County Health Rankings, Collier County, 2015-2021

	2021	2020	2019	2018	2017	2016	2015
<b>Health Outcomes</b>							
Health Outcomes Overall Rank	2	2	2	2	2	2	2
<b>Length of Life</b>							
Premature Death <i>Years of potential life lost before age 75 per 100,000 population (age-adjusted)</i>	5,500	5,200	5,300	5,100	5,100	5,400	5,488
<b>Quality of Life</b>							
Poor or Fair Health <i>Percent of adults reporting fair or poor health (age-adjusted)</i>	18%	18%	16%	16%	15%	16%	17%
Poor Physical Health Days <i>Average number of physically unhealthy days reported in past 30 days (age-adjusted)</i>	3.4	3.6	3.5	3.5	3.6	3.5	3.4
Poor Mental Health Days <i>Average number of mentally unhealthy days reported in past 30 days (age-adjusted)</i>	4.1	3.9	3.5	3.5	4	3.7	3.6
Low Birthweight <i>Percent of live births with low birth weight (&lt;2500 grams)</i>	7%	7%	7%	7%	7%	7%	7.1%

	2021	2020	2019	2018	2017	2016	2015
<b>Health Factors</b>							
Health Outcomes Overall Rank	6	6	3	3	5	5	6
<b>Health Behaviors</b>							
Adult Smoking <i>Percent of adults that report smoking &gt;=100 Cigarettes and currently smoking</i>	16%	14%	11%	11%	13%	14%	15%
Adult Obesity <i>Percent of adults that report a BMI &gt;=30</i>	22%	21%	21%	20%	20%	19%	20%
Food Environment Index <i>Index of factors that contribute to a healthy food environment, from 0 (worst) to 10 (best)</i>	7.9	8	8	7.9	7.6	7.5	7.4
Physical Inactivity <i>Percent of adults aged 20 and over reporting no leisure physical activity time</i>	23%	23%	21%	19%	19%	18%	17%
Access to Exercise Opportunities <i>Percentage of population with adequate access to locations for physical activity</i>	91%	91%	87%	88%	91%	91%	91%
Excessive Drinking <i>Percentage of adults reporting binge or heavy drinking</i>	22%	18%	15%	15%	18%	18%	18%
Alcohol-Impaired Driving Deaths <i>Percentage of adults reporting binge or heavy drinking</i>	21%	24%	20%	22%	25%	25%	26%
Sexually Transmitted Infections <i>Number of newly diagnosed chlamydia cases per 100,000 population</i>	347	289.9	301.1	256	240.3	241.3	241
Teen Births <i>Number of births per 1,000 female population ages 15-19</i>	19	20	22	24	30	34	39
<b>Clinical Care</b>							
Uninsured <i>Percentage of population under 65 without health insurance</i>	23%	23%	22%	23%	26%	30%	28%
Primary Care Physicians <i>Ratio of population to primary care physicians</i>	1,310:1	1,340:1	1,380:1	1,410:1	1,460:1	1,430:1	1,439:1
Dentists <i>Ratio of population to dentists</i>	1,520:1	1,560:1	1,520:1	1,530:1	1,530:1	1,510:1	1,572:1
Mental Health Providers <i>Ratio of population to mental health providers</i>	980:1	1,000:1	1,050:1	1,080:1	1,140:1	980:1	1,026:1
Preventable Hospital Stays <i>Rate of hospital stays for ambulatory-care sensitive conditions per 100,000 Medicare enrollees</i>	3,172	3,493	3,159	32	34	38	42

	2021	2020	2019	2018	2017	2016	2015
Diabetic Monitoring <i>Percentage of diabetic Medicare enrollees age 65-75 that receive HbA1c monitoring</i>	Removed	Removed	Removed	87%	87%	87%	86%
Mammography Screening <i>Percentage of female Medicare enrollees ages 65-74 that received an annual mammography screening</i>	52%	51%	52%	76%	76%	76%	76.1%
Flu Vaccinations <i>Percentage of fee-for-service (FFS) Medicare enrollees that had an annual flu vaccination</i>	55%	50%	50%				
<b>Social &amp; Economic Factors</b>							
High School Graduation <i>Percentage of adults ages 25 and over with a high school diploma or equivalent</i>	87%	89%	89%	84%	84%	81%	78%
Some College <i>Percentage of adults 25-44 with some post-secondary education</i>	51%	50%	50%	50%	50%	50%	48.5%
Unemployment <i>Percentage of population ages 16 and older unemployed but seeking work</i>	3.10%	3.40%	4.10%	4.80%	5.20%	5.9%	6.9%
Children in Poverty <i>Percentage of people under 18 in poverty</i>	14%	19%	22%	18%	23%	26%	24%
Income Inequality <i>Ratio of household income at the 80<sup>th</sup> percentile to income at the 20<sup>th</sup> percentile</i>	4.8	4.6	4.5	4.6	4.5	4.4	4.4
Children in Single-Parent Households <i>Percentage of children that live in a household headed by a single parent</i>	23%	36%	36%	35%	35%	35%	35%
Social Associations <i>Number of membership associations per 10,000 population</i>	7.4	7.1	7.6	7.6	7.3	7.4	7.3
Violent Crimes <i>Number of reported violent crime offenses per 100,000 population</i>	261	261	261	247	247	294	294
Injury Deaths <i>Number of deaths due to injury per 100,000 population</i>	80	78	77	74	73	75	75
<b>Physical Environment</b>							
Air Pollution – Particulate Matter <i>Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)</i>	7.2	7.7	7.7	6.8	6.8	10.6	10.6

	2021	2020	2019	2018	2017	2016	2015
<p>Drinking Water Violations <i>Indicator of the presence of health-related drinking water violations. 'Yes' indicates the presence of a violation. 'No' indicated no violation.</i></p> <p><i>2015 definition – Percentage of population potentially exposed to water exceeding a violation limit during the past year</i></p>	No	No	No	No	No	No	5%
<p>Severe Housing Problems <i>Percentage of household with at least 1 or 4 housing problems: overcrowding, high housing costs, lack of kitchen facilities, or lack of plumbing facilities</i></p>	20%	20%	20%	21%	22%	23%	23%
<p>Driving Alone to Work <i>Percentage of the worker that drives alone to work</i></p>	75%	74%	75%	74%	75%	74%	74%
<p>Long Commute – Driving Alone <i>Among worker who commute in their cars alone, the percentage that commute more than 30 minutes</i></p>	33%	33%	33%	32%	31%	31%	29%

Source: County Health Rankings & Roadmaps, University of Wisconsin Population Health Institute, Robert Wood Johnson Foundation

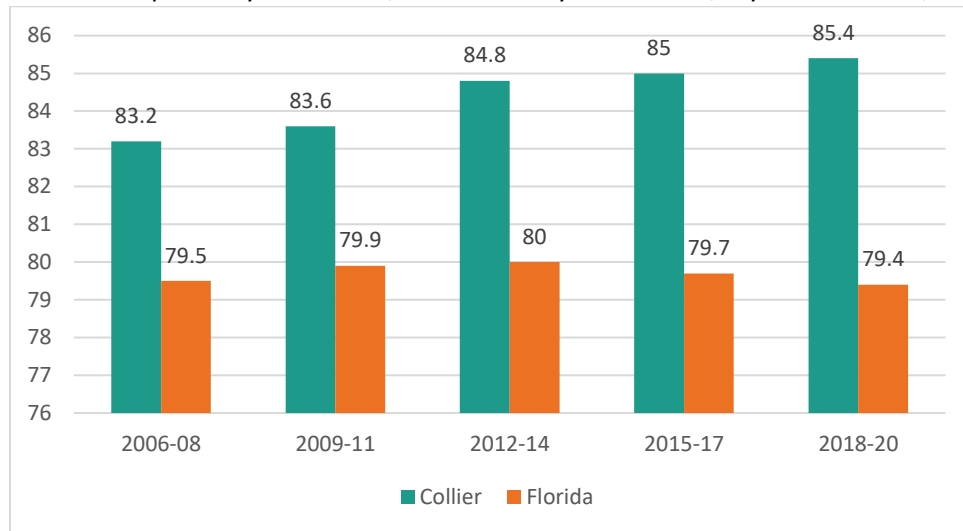
## Health Conditions

### Life Expectancy

Life expectancy of a population at birth or at a given age is the average number of years lived beyond that age by all those who have reached that age. This concept can also be interpreted as the average number of years of life remaining at a specific age assuming current mortality rates in the community. The level of life expectancy at birth and other ages is an indicator of mortality and other health conditions and by proxy and scientific inference of the quality of life of a county, state, and nation.

Over the 14-year period, Collier County continued to exceed the Florida average for life expectancy. In 2018-2020 there was a 6-year difference between Collier County and Florida. Collier County also had the highest life expectancy out of all 67 counties in Florida. Collier County's life expectancy has continued to increase over time.

Exhibit HC1: Life Expectancy Over Time, Collier County and Florida, 3-year Estimates, 2006-2020



Source: Death data are from Florida Bureau of Vital Statistics. Population data are from Umass Donahue Institute and the Florida Legislature Office of Economic and Demographic Research

Females in Collier County consistently had a higher life expectancy compared to males. In 2006-2008 there was a 6.1-year life expectancy difference between males and females; this is the largest gap. When compared the Florida average in 2018-2020, males in Collier County are expected to live 6.4 years longer (82.9 Collier vs. 76.5 Florida) and females are expected to live 5.7 years longer (88.0 Collier vs. 82.3 Florida).

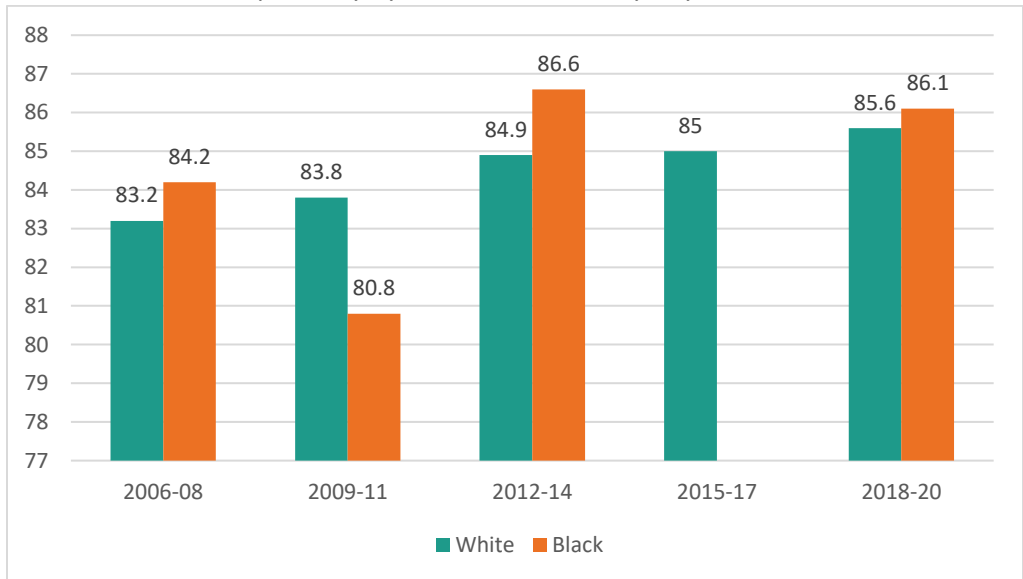
Exhibit HC2: Life Expectancy by Sex, Collier County, 3-year estimates, 2006-2020



Source: Death data are from Florida Bureau of Vital Statistics. Population data are from Umass Donahue Institute and the Florida Legislature Office of Economic and Demographic Research

Those who identify as Black in Collier County had a higher life expectancy over the 14-year period, except in 2009-2011, when compared to other races. In 2018-2020, Black residents had a 9.4-year life expectancy difference when compared to the State average (86.1 Collier vs. 76.7 Florida). The data related to the Black population includes larger variation in part because the numbers are small, in fact they could not be reliably computed for 2015-2017.

Exhibit HC3: Life Expectancy by Race, Collier County, 3-year estimates, 2006-2020



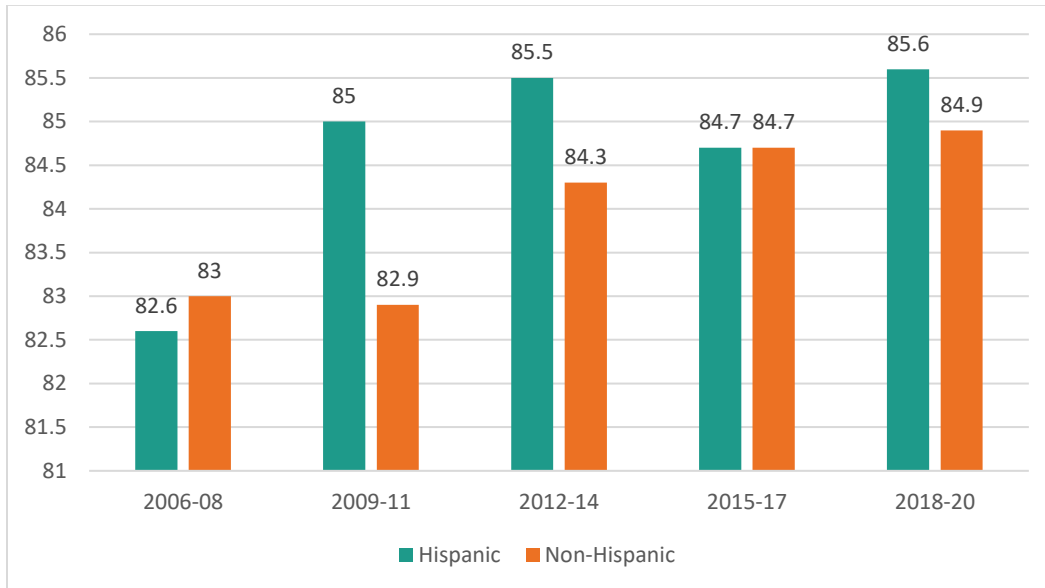
Source: Death data are from Florida Bureau of Vital Statistics. Population data are from Umass Donahue Institute and the Florida Legislature Office of Economic and Demographic Research

\*Black population data was not sufficient for computing a valid estimate of life expectancy. Life Expectancy is computed when there are at least 50 deaths, a population of at least 5,000 and a standard error less than or equal to 2.



In 2009-2014 and 2018-2020 those who identify as Hispanic had the highest life expectancy when compared to those who identify as Non-Hispanic. In 2018-2020, when compared to the State average Hispanic residents had a 2.6-year life expectancy difference (85.6 Collier vs. 83.0 Florida).

Exhibit HC4: Life Expectancy by Ethnicity, Collier County, 3-year estimates, 2006-2020



Source: Death data are from Florida Bureau of Vital Statistics. Population data are from Umass Donahue Institute and the Florida Legislature Office of Economic and Demographic Research

### Years of Potential Life Lost

The indicator Years of Potential Life Lost (YPLL) is defined as the years of potential life lost due to a premature death. It is a measure of the relative impact of multiple diseases and conditions in a county, state, or country and illustrates the lost years of life of a population compared to living a full life to the age of 75.

Compared to mortality rates, Years of Potential Life Lost places an emphasis on the processes or catalysts underlying premature mortality in a geographical area. YPLL supplements the mortality rate of a population by placing priority on and quantifying deaths in a county and state which are considered preventable. YPLL in public health may be interpreted as a measure of preventable mortality for causes that are particularly associated with lifestyle choices and behavioral risks. The level of YPLL within a geographical area is correlated with the education and income level of the population as well as the public health prevention and planning strategies and priorities of a community.

The top three causes of death that had the highest YPLL among people in Collier County are unintentional injury, cancer, and heart disease. These top three were consistent for the selected years in the table below. There was a significant increase in the YPLL from unintentional injuries, suicide, and diabetes between 2015 and 2020. The COVID-19 pandemic had a significant impact in Collier County; it was the cause of death that led to the fifth highest number of YPLL in 2020.

Exhibit HC5: Years of Potential Life Lost Under 75 Years of Age per 100,000 Population, Top Ten Cause of Death, Collier County, 2020, 2015, 2010

Cause of Death	2020	2015	2010
Unintentional Injury	1,365.5	1,047.9	1,006.3
Cancer	1,240.0	1,275.1	1,220.7
Heart Disease	648.7	642.7	538.9
Suicide	460.8	305.5	354.5
COVID-19	394.3		
Diabetes	253.2	102.7	93.8
Stroke	186.7	118.2	98.0
Chronic Lower Respiratory Disease	93.0	118.2	143.7
Homicide	76.2	60.6	181.2
Congenital Malformations	66.2	172.1	215.3

Source: Florida Department of Health, Bureau of Vital Statistics

The top three causes of death that had the highest YPLL among Non-Hispanic white people in Collier County were unintentional injury, cancer, and heart disease. These top three were consistent for the selected years in the table below. The COVID-19 pandemic had a significant impact in Collier County with the 7<sup>th</sup> highest YPLL in 2020 among the Non-Hispanic, white population.

Exhibit HC6: Years of Potential Life Lost Under 75 Years of Age per 100,000 Population, Top Ten Cause of Death, Non-Hispanic White, Collier County, 2020, 2015, 2010

Cause of Death	2020	2015	2010
Unintentional Injury	1,712.5	1,049.2	1,147.8
Cancer	1,577.4	1,523.2	1,537.8
Heart Disease	849.6	686.9	726.4
Suicide	516.2	351.6	504.2
Chronic Liver Disease and Cirrhosis	292.4	433.3	332.3
Stroke	222.1	111.0	99.4
COVID-19	221.0		
Chronic Lower Respiratory Disease	156.7	163.0	193.6
Diabetes	149.5	73.3	108.5
Influenza and Pneumonia	63.1	40.6	83.7

Source: Florida Department of Health, Bureau of Vital Statistics

The top three causes of death with the highest YPLL among Non-Hispanic Black population in Collier County were inconsistent in the selected years in the table below. In 2020, cancer, heart disease, and COVID-19 were the top three causes of death with the highest YPLL. The COVID-19 pandemic had a significant impact on the Black population in Collier County. In 2015, cancer, unintentional injury, and heart disease were the top three causes of death with the highest YPLL. In 2010, perinatal period conditions, unintentional injury, and cancer were the top three causes of death with the highest YPLL. In the table below there are data points that are 0.0, which means that either there weren't any deaths for that particular year/cause of death or if there were deaths, they occurred to those above the age of 75.

Exhibit HC7: Years of Potential Life Lost Under 75 Years of Age per 100,000 Population, Top Ten Cause of Death, Non-Hispanic Black, Collier County, 2020, 2015, 2010

Cause of Death	2020	2015	2010
Cancer	1,155.2	1,623.3	985.8
Heart Disease	1,122.3	1,325.7	434.2
COVID-19	460.4		
Suicide	312.4	58.6	0.0
Perinatal Period Conditions	306.3	671.9	1,902.6
Unintentional Injury	304.2	1,515.1	1,537.4
HIV/AIDS	275.4	0.0	158.3
Stroke	271.3	315.6	245.2
Diabetes	230.2	72.1	0.0
Homicide	217.9	211.9	490.3

Source: Florida Department of Health, Bureau of Vital Statistics

The top three causes of death with the highest YPLL among Hispanic people in Collier County were inconsistent in the selected years in the table below. In 2020, the top three causes of death with the highest YPLL were unintentional injury, cancer, and COVID-19. The COVID-19 pandemic had a significant impact on the Hispanic population in Collier County. In 2015, cancer, unintentional injury, and heart disease were the top three causes of death with the highest YPLL. In 2010, cancer, congenital malformations, and unintentional injury were the top three causes of health with the highest YPLL in Collier County.

Exhibit HC8: Years of Potential Life Lost Under 75 Years of Age per 100,000 Population, Top Ten Cause of Death, Hispanic, Collier County, 2020, 2015, 2010

Cause of Death	2020	2015	2010
Unintentional Injury	939.5	734.7	353.3
Cancer	661.5	749.2	608.4
COVID-19	648.3		
Suicide	380.7	301.0	146.0
Chronic Liver Disease and Cirrhosis	237.5	109.3	100.6
Heart Disease	199.8	440.4	203.6
Diabetes	128.2	149.4	92.0
Stroke	115.9	93.6	58.9
Congenital Malformations	99.4	234.1	372.3
Nutritional Deficiencies	61.3	0.0	0.0

Source: Florida Department of Health, Bureau of Vital Statistics

### Leading Causes of Death

The following table gives detailed information on the leading causes of death for residents of Collier County. The Deaths column is a simple count of the number of people who died by the listed cause during 2019. Percent of Total Deaths lets you know what percent of the people died from that cause. Cancer and heart disease are the two most common causes of death in Collier County. Combined, they are responsible for 41.2 percent of all deaths.

Crude Rate per 100,000 gives a sense of how likely a person is to die of that cause in any given year. For example, out of every 100,000 people in Collier County, 131 of them died of a stroke in 2020. Using the rate per 100,000 allows comparison between areas with different populations such as comparing a small county to a large county or a county to the state.

The next column lists the Age-Adjusted Death Rate per 100,000. Age-adjusting a rate is a way to make fairer comparisons between groups with different age distributions. For example, a county having a higher percentage of elderly people may have a higher rate of death or hospitalization than a county with a younger population merely because the elderly is more likely to die or be hospitalized. The same distortion can happen when we compare races, genders, or time periods. Age adjustment can make the different groups more comparable.

The last column is Years of Potential Life Lost. This is an estimate of the number of years a person would have lived had they not died prematurely. In this case that number is given for all people who died under the age of 75. When the numbers are particularly low, such as they are for Alzheimer’s disease, it is generally because that cause of death largely impacts the elderly. Conversely, a particularly high number, such as for unintentional injuries, suggests that the average age of the victims was young.

Cancer, heart disease, and stroke are the top three leading causes of death in 2020 for Collier County. Since 2007, cancer and heart disease were the top two causes of death in Collier County. Unintentional injury, which includes accidental drug overdoses, and cancer had the highest years of potential life lost in Collier County, which means many people younger than 75 died from these causes in 2019. COVID-19 was the fourth highest cause of death in 2020 in Collier County. The first case of COVID-19 was in March 2020 but had a significant impact on the community and other health conditions and behaviors. Unintentional injuries and suicides are discussed in further detail in the health behaviors section.

Exhibit HC9: Leading Causes of Death, Collier County, 2020

Cause of Death	Deaths	Percent of Total Deaths	Crude Rate per 100,000	Age-Adjusted Death Rate per 100,000	YPLL <75 per 100,000 Under 75
Cancer	894	22.15%	231.3	104.3	1,240.0
Heart Disease	767	19.00%	198.5	80.3	648.7
Stroke	509	12.61%	131.7	48.4	186.7
COVID-19	319	7.90%	82.5	36.3	394.3
Unintentional Injury	244	6.05%	63.1	52.2	1,365.5
Chronic Lower Respiratory Disease	148	3.67%	38.3	14.8	93.0
Alzheimer’s Disease	114	2.82%	29.5	10.1	7.8
Diabetes	95	2.35%	24.6	11.3	153.6
Chronic Liver Disease and Cirrhosis	76	1.88%	19.7	13.1	253.2
Parkinson’s Disease	66	1.64%	17.1	6.2	18.7
Suicide	60	1.49%	15.5	15.8	460.8
Hypertension	49	1.21%	12.7	5.1	39.3
Nephritis, Nephrotic Syndrome, & Nephrosis	48	1.19%	12.4	5.1	40.6

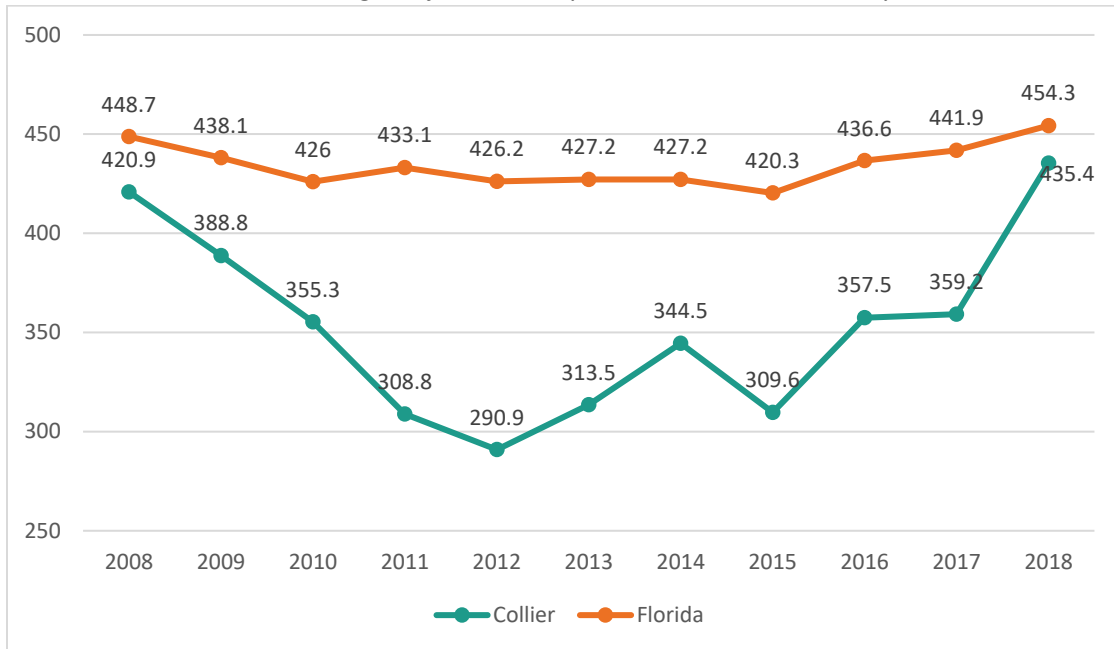
Cause of Death	Deaths	Percent of Total Deaths	Crude Rate per 100,000	Age-Adjusted Death Rate per 100,000	YPLL <75 per 100,000 Under 75
Influenza and Pneumonia	39	0.97%	10.1	4.6	54.0
Septicemia	29	0.72%	7.5	2.9	27.2
Benign Neoplasm	16	0.40%	4.1	1.4	2.8
Aortic Aneurysm & Dissection	14	0.35%	3.6	1.7	18.1
Nutritional Deficiencies	13	0.32%	3.4	1.5	20.6
Pneumonitis	12	0.30%	3.1	1.2	5.9
Cholelithiasis & Other Gallbladder Disorders	9	0.22%	2.3	0.8	0.0
Congenital Malformation	8	0.20%	2.1	1.9	66.2
Homicide	7	0.17	1.8	2.1	76.2
Atherosclerosis	6	0.15	1.6	0.5	1.2
Viral Hepatitis	5	0.12	1.3	0.6	14.7
Anemias	4	0.10	1.0	0.7	18.4
HIV/AIDS	3	0.07	0.8	1.0	25.3
Perinatal Period Conditions	2	0.05	0.5	0.9	46.5
Peptic Ulcer	2	0.05	0.5	0.2	1.2
Medical & Surgical Care Complications	1	0.02	0.3	0.1	0.0

Source: Florida Department of Health, Bureau of Vital Statistics

## Cancer

From 2008 to 2012, Collier County experienced a decrease in new cases of cancer. Since 2012, there's been an increase in new cases of cancer with a decrease in 2015 and 2017. Collier County experienced its highest rate of new cases in 2018 (435.4 per 100,000; 2,921 people). When compared to the Florida average, Collier County has continuously experienced lower incidences of cancer.

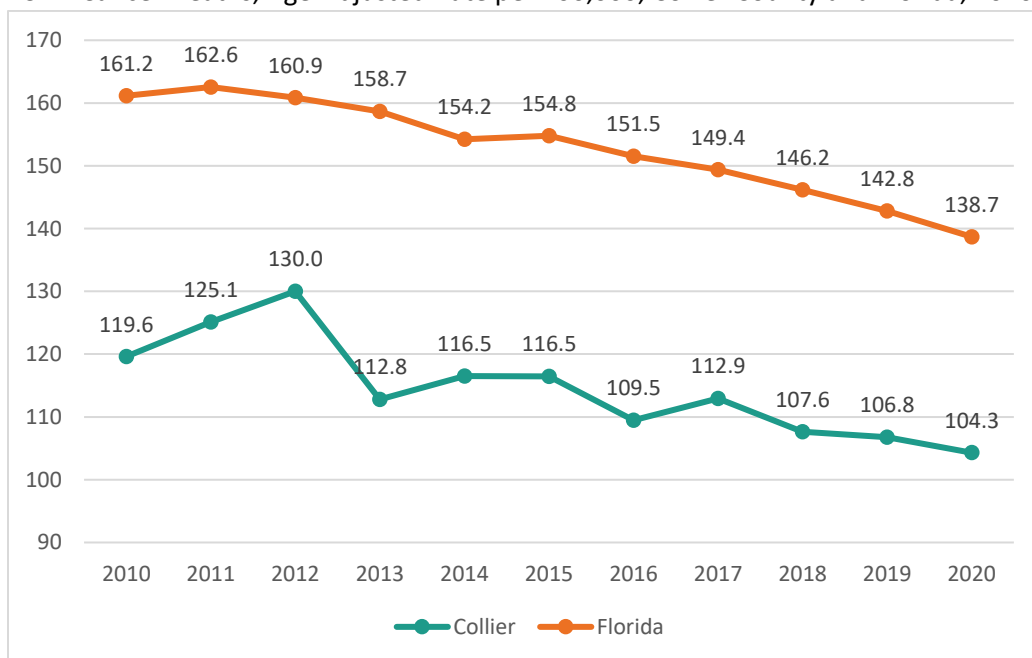
Exhibit HC10: Cancer Incidence, Age-Adjusted Rate per 100,000, Collier County and Florida, 2008-2018



Source: University of Miami (FL) Medical School, Florida Cancer Data System

Since 2012, in Collier County the overall cancer death rate has decreased. Even though more people have been diagnosed with cancer, fewer people are dying from cancer. Collier County's cancer death rate is significantly lower than the Florida average.

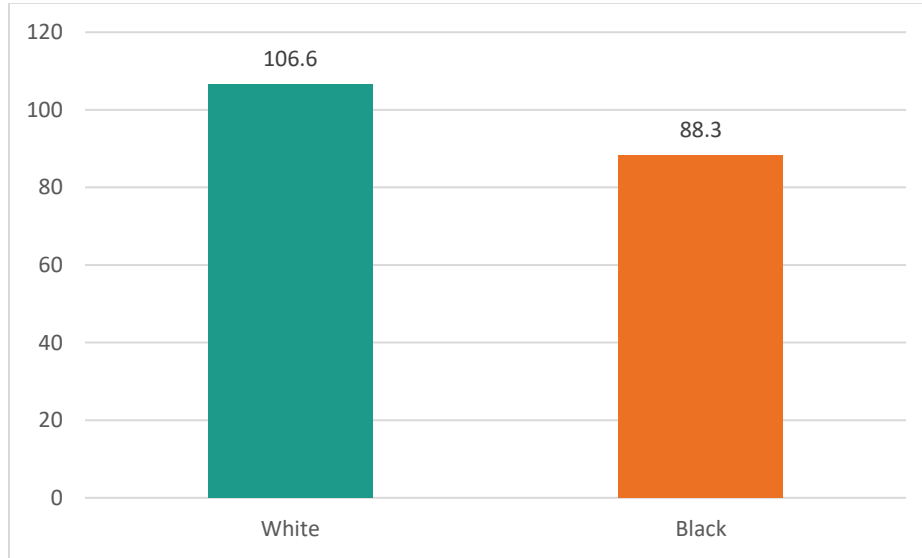
Exhibit HC11: Cancer Deaths, Age-Adjusted Rate per 100,000, Collier County and Florida, 2010-2020



Source: Florida Department of Health, Bureau of Vital Statistics

The age-adjusted death rate from cancer is the lowest among the Black population in Collier County. The Non-Hispanic population had the highest cancer death rate when compared to other races and ethnicities.

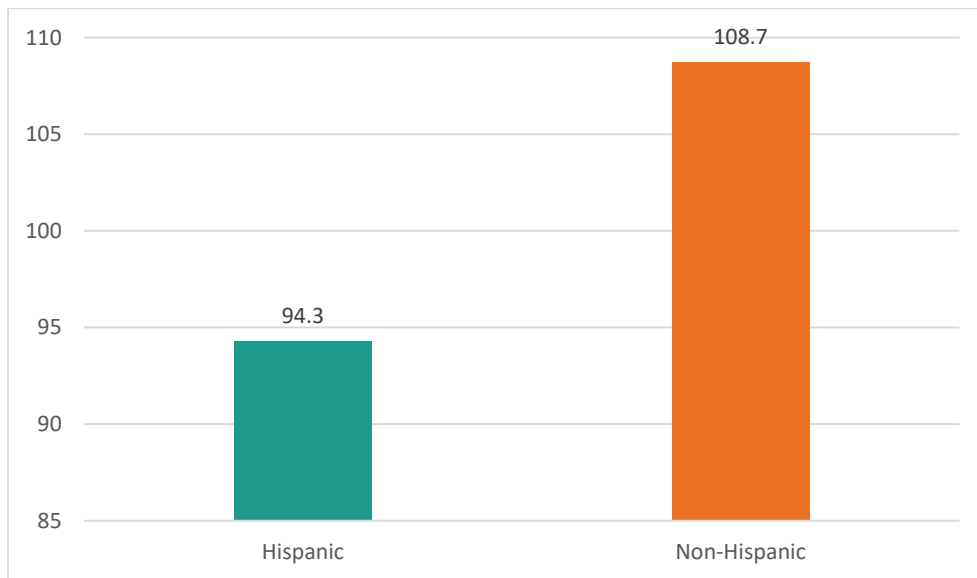
Exhibit HC12: Cancer Deaths by Race, 3 Year Age-Adjusted Rate per 100,000, Collier County, 2018-2020



Source: Florida Department of Health, Bureau of Vital Statistics

The Non-Hispanic population had the highest cancer death rate when compared to other races and ethnicities.

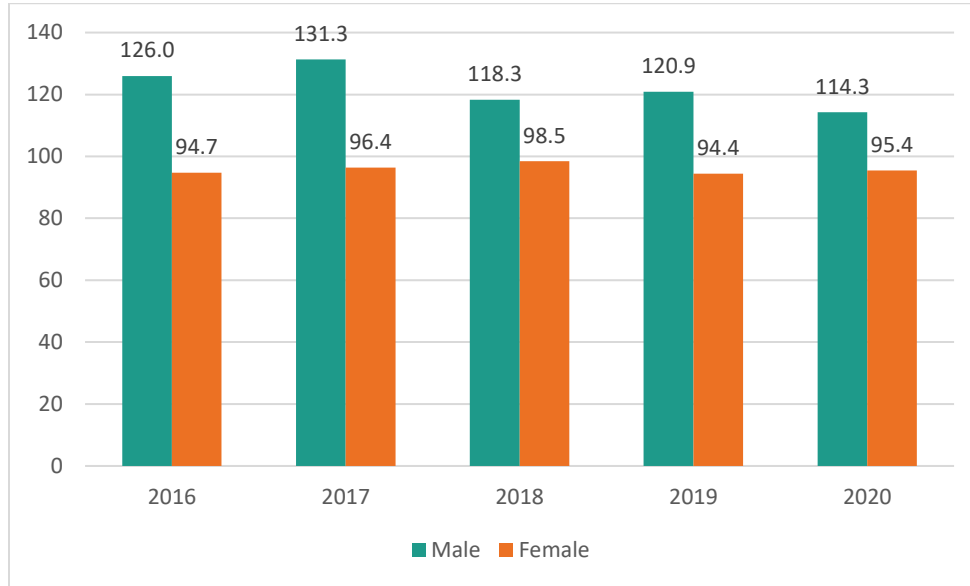
Exhibit HC13: Cancer Deaths by Ethnicity, 3 Year Age-Adjusted Rate per 100,000, Collier County, 2018-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Males, in Collier County, consistently had a higher cancer death rate when compared to females. Since 2018 the overall cancer deaths among females have decreased.

Exhibit HC14: Cancer Deaths by Sex, Age-Adjusted Rate per 100,000, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

The most common types of cancer in Collier County were breast and prostate cancer. However, lung and colorectal were the deadliest for those diagnosed with those cancers.

Exhibit HC15: Common Types of Cancer, 3-year Average Incidence Rate, 3-year Age-Adjusted Death Rate, Collier County, 2016-2018, 2018-2020

	Average Incidence Rate, 2016-2018	Year Age-Adjusted Death Rate, 2018-2020
Breast Cancer	101.4	8.4
Prostate Cancer	84.0	4.9
Lung Cancer	35.2	20.5
Melanoma, Skin Cancer	35.0	2.5
Colorectal Cancer	24.6	8.5
Oral Cancer	11.0	1.8
Cervical Cancer	7.7	1.3

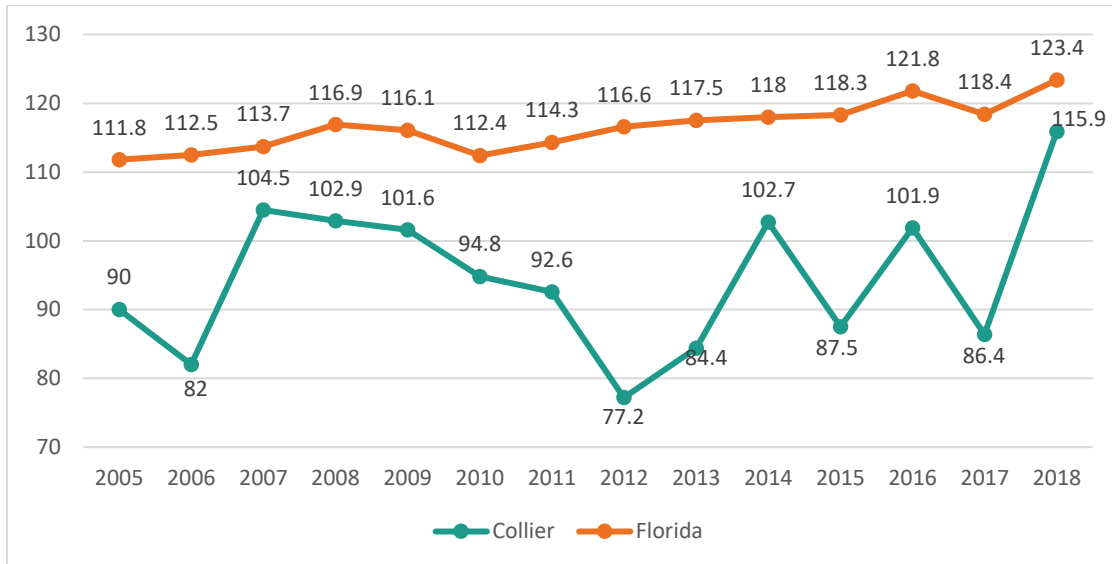
Source: University of Miami (FL) Medical School, Florida Cancer Data System; Florida Department of Health, Bureau of Vital Statistics



## Breast Cancer

In 2018, Collier County saw its highest breast cancer rate of new breast cancer diagnoses, 115.9 per 100,000, over the past 13 years. Collier County's breast cancer incidence rate was consistently lower than the Florida average.

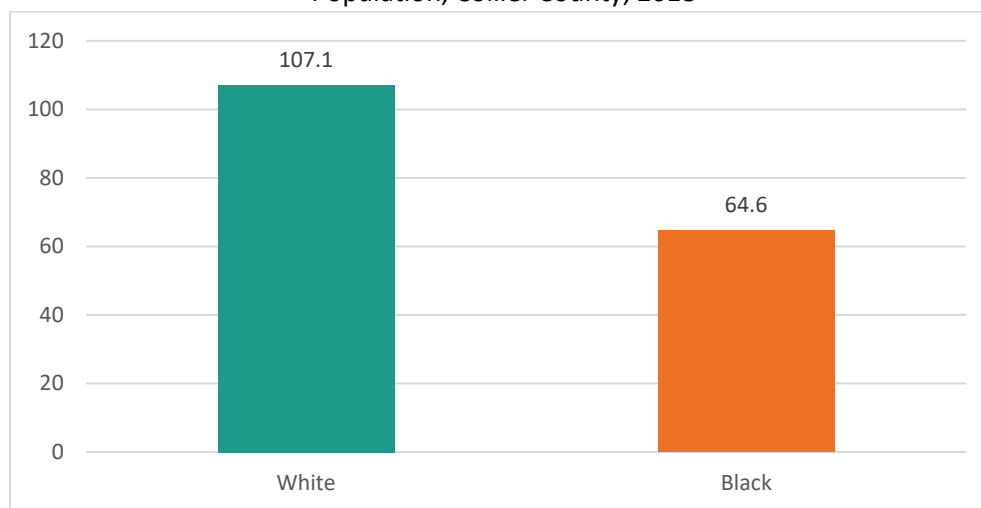
Exhibit HC16: Age-Adjusted Female Breast Cancer Incidence, Rate per 100,000 Female Population, Collier County and Florida, 2005-2018



Source: University of Miami (FL) Medical School, Florida Cancer Data System

The Black population had the lowest incidence of being diagnosed with breast cancer in 2018 when compared to the white population in Collier County.

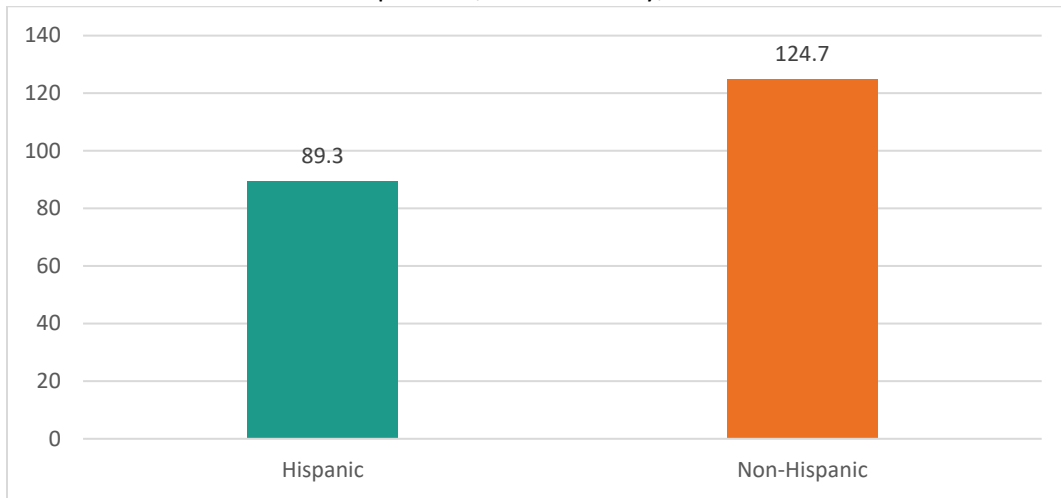
Exhibit HC17: Age-Adjusted Female Breast Cancer Incidence by Race, Rate per 100,000 Female Population, Collier County, 2018



Source: University of Miami (FL) Medical School, Florida Cancer Data System

The Non-Hispanic population in Collier County had the highest incidence of breast cancer diagnosis when compared to Hispanics.

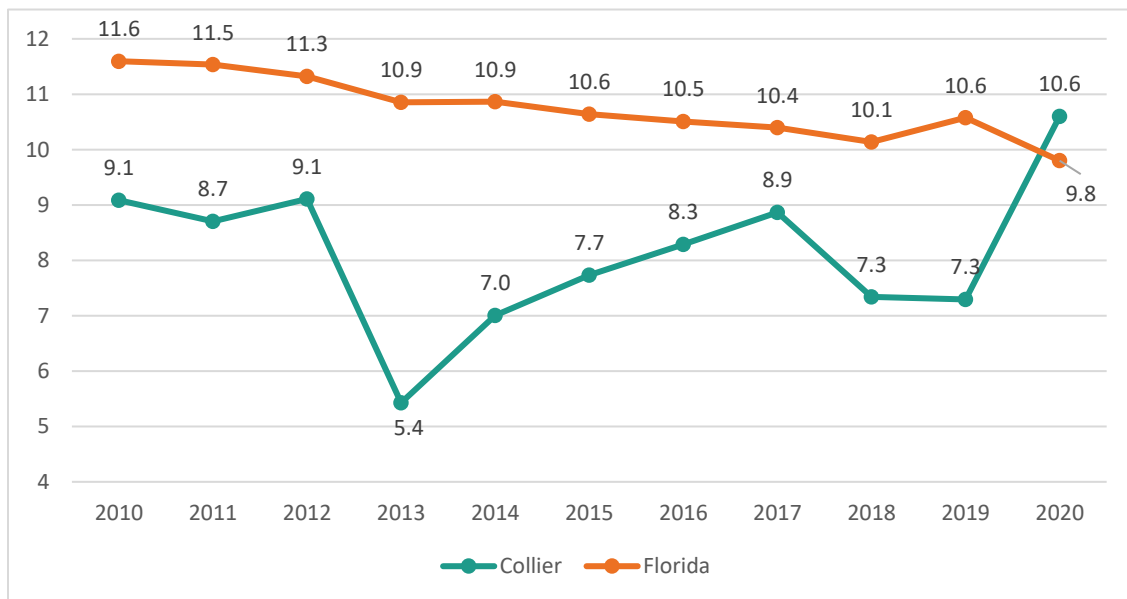
Exhibit HC18: Age-Adjusted Female Breast Cancer Incidence by Ethnicity, Rate per 100,000 Female Population, Collier County, 2018



Source: University of Miami (FL) Medical School, Florida Cancer Data System

2020 was Collier County’s deadliest year for breast cancer; the death rate was 10.6 per 100,000. From 2013 to 2017 there was a significant increase in death from breast cancer. In 2020, Collier County’s breast cancer death rate was higher than the Florida average for the first time ever (10.6 per 100,000 vs. 9.8 per 100,000).

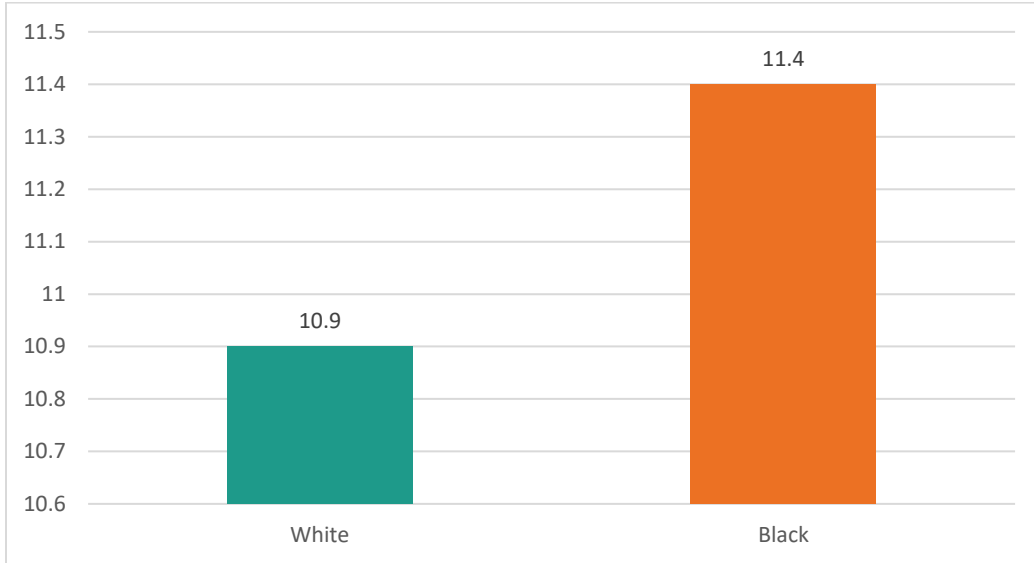
Exhibit HC19: Age-Adjusted Deaths from Female Breast Cancer, Rate per 100,000 Female Population, Collier County and Florida, 2010-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Even though the Black death rate is high, the number of Blacks dying of breast cancer (3 in 2020) is smaller when compared to the other races.

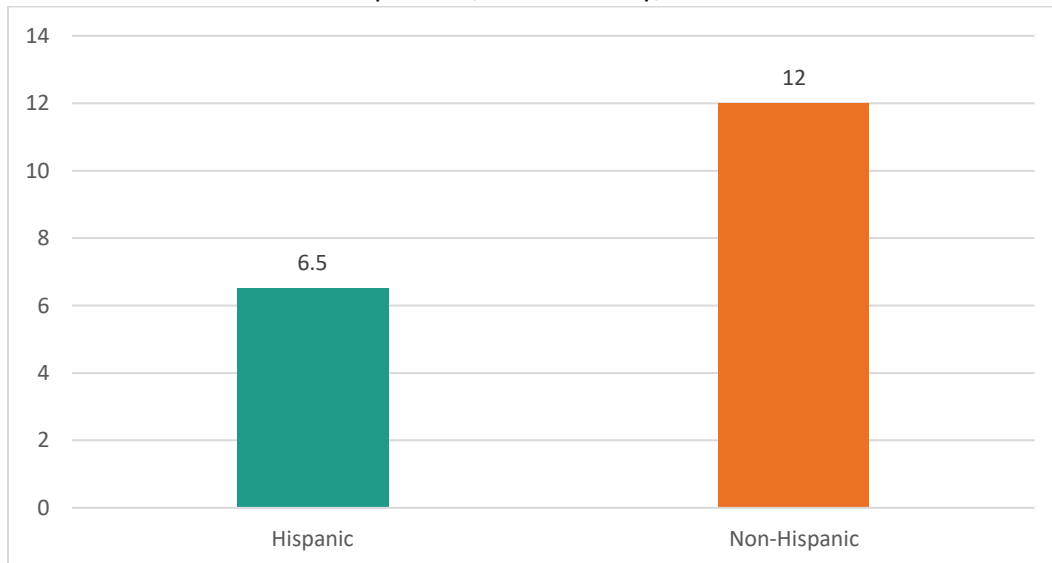
Exhibit HC20: Age-Adjusted Deaths from Female Breast Cancer by Race, Rate per 100,000 Female Population, Collier County, 2020



Source: Florida Department of Health, Bureau of Vital Statistics

In 2020, those who identify as Hispanic had the highest rate of deaths from breast cancer compared to the other races and ethnicities.

Exhibit HC21: Age-Adjusted Deaths from Female Breast Cancer by Ethnicity, Rate per 100,000 Female Population, Collier County, 2020

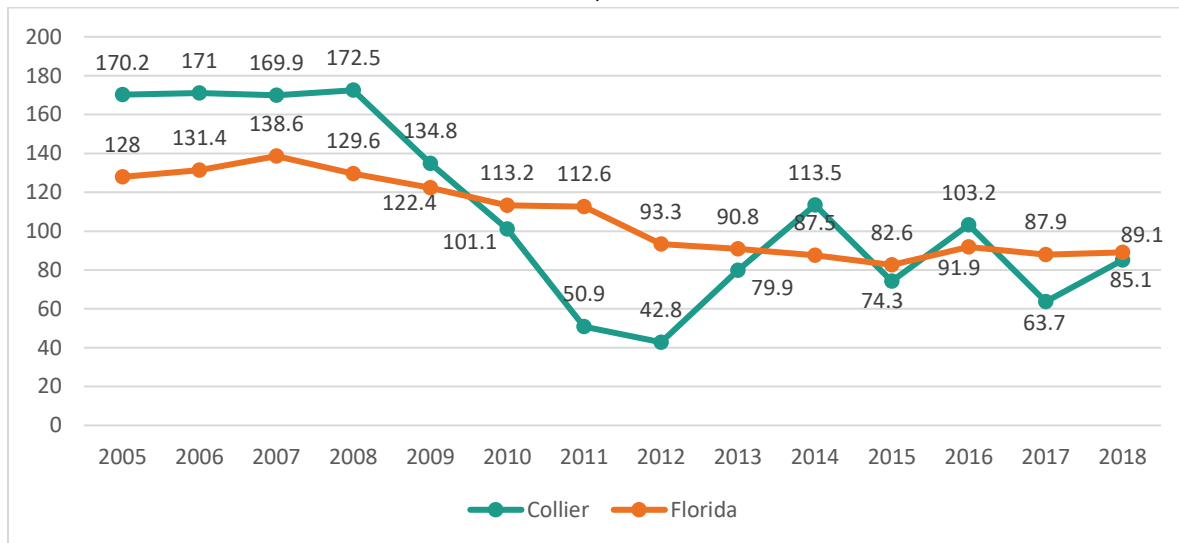


Source: Florida Department of Health, Bureau of Vital Statistics

## Prostate Cancer

Prostate cancer is the second most common type of cancer in Collier County. In 2008, Collier County saw its highest rate of new prostate cancer diagnoses, 172.5 per 100,000. From 2008 to 2012, the incidence rate drastically decreased. Since 2012 the rate of new prostate cancer diagnosis has increased overall. Collier County experienced higher rates of prostate cancer diagnoses than the State of Florida in 2005 to 2009 and again in 2014 and 2016.

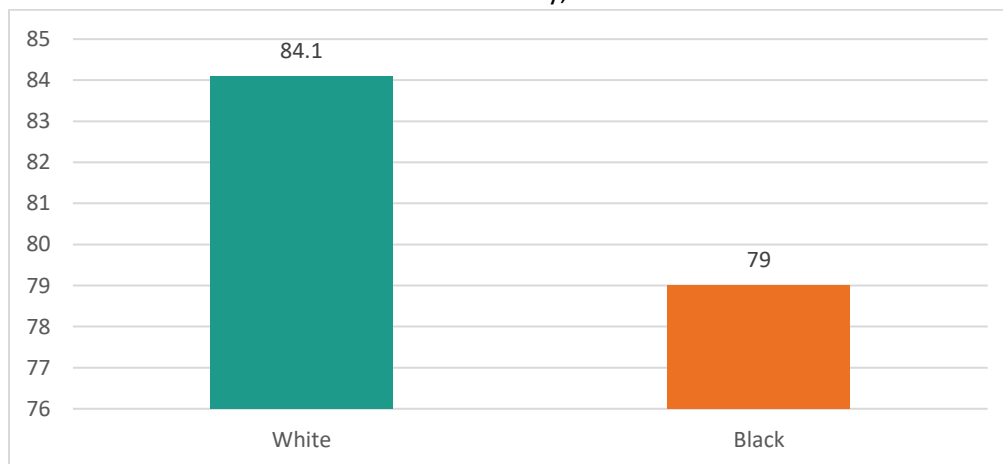
Exhibit HC22: Age-Adjusted Prostate Cancer Incidence, Rate per 100,000 Male Population, Collier County and Florida, 2005-2018



Source: University of Miami (FL) Medical School, Florida Cancer Data System

White people had the highest rate of new prostate cancer diagnosis, and Blacks had the lowest in Collier County.

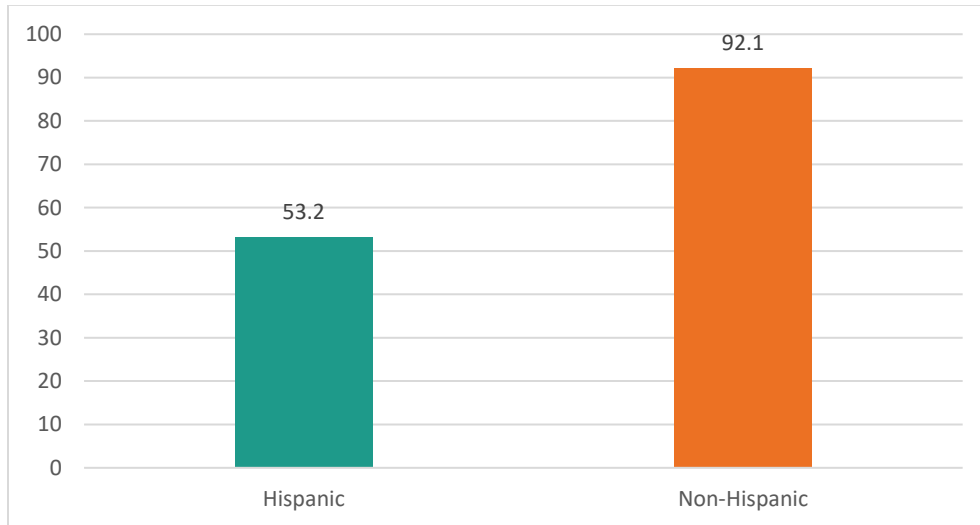
Exhibit HC23: Age-Adjusted Prostate Cancer Incidence by Race, Rate per 100,000 Male Population, Collier County, 2018



Source: University of Miami (FL) Medical School, Florida Cancer Data System

Non-Hispanics had the highest rate of new prostate cancer diagnosis, and Hispanics had the lowest in Collier County.

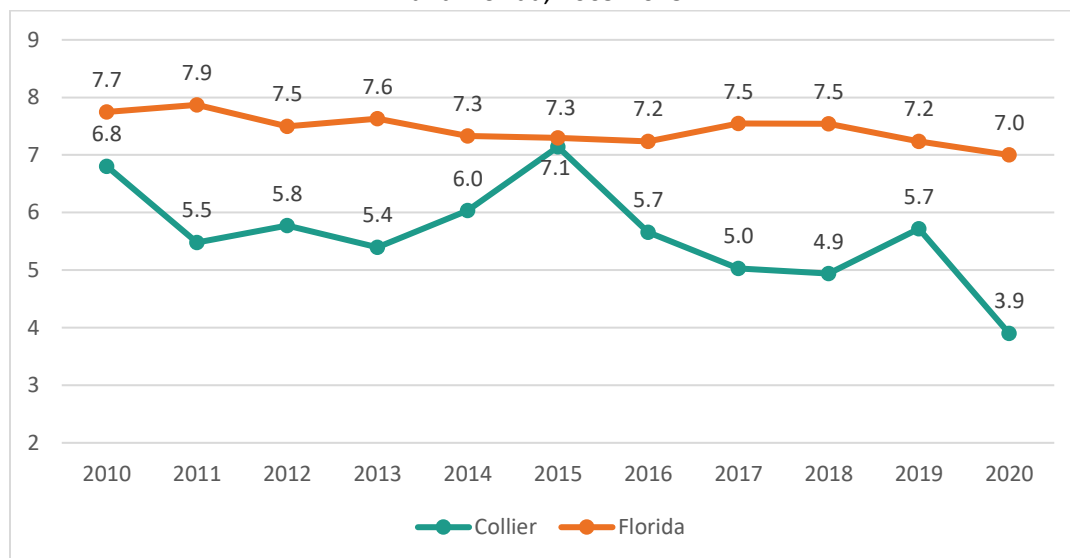
Exhibit HC24: Age-Adjusted Prostate Cancer Incidence by Ethnicity, Rate per 100,000 Male Population, Collier County, 2018



Source: University of Miami (FL) Medical School, Florida Cancer Data System

2015 was the deadliest year for those with prostate cancer in Collier County. From 2015 until 2020 there was a steady decline in deaths, with a small uptick in prostate cancer deaths in 2019. When compared to the Florida average, Collier County's prostate cancer death rate was significantly lower, except in 2015, (2019, Collier County 5.7 per 100,000 vs. Florida 7.2 per 100,000).

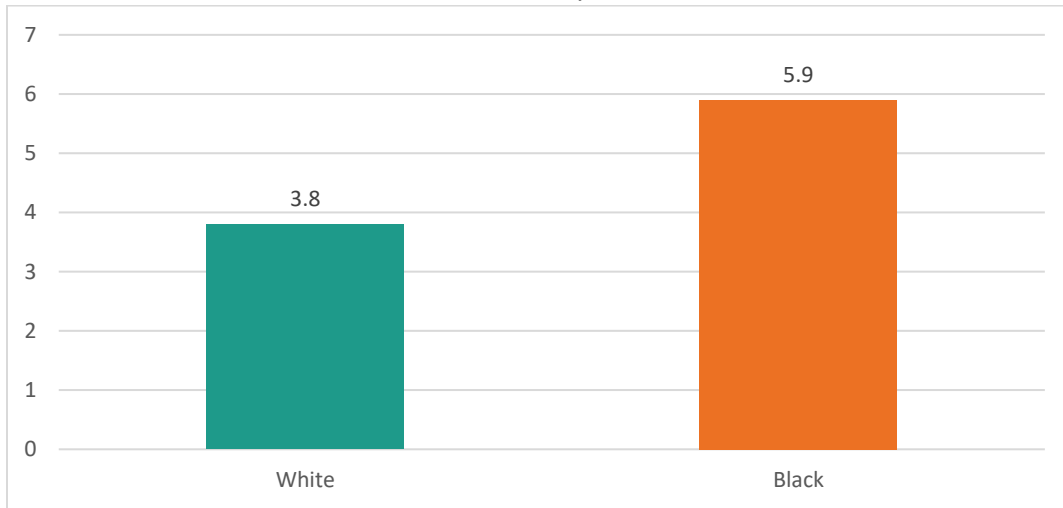
Exhibit HC25: Age-Adjusted Prostate Cancer Death, Rate per 100,000 Male Population, Collier County and Florida, 2009-2019



Source: Florida Department of Health, Bureau of Vital Statistics

In 2020, Black people had the highest death rate from prostate cancer. Even though the Black death rate is high, the number of Black people dying of prostate cancer is smaller (2 people in 2020) when compared to the other races.

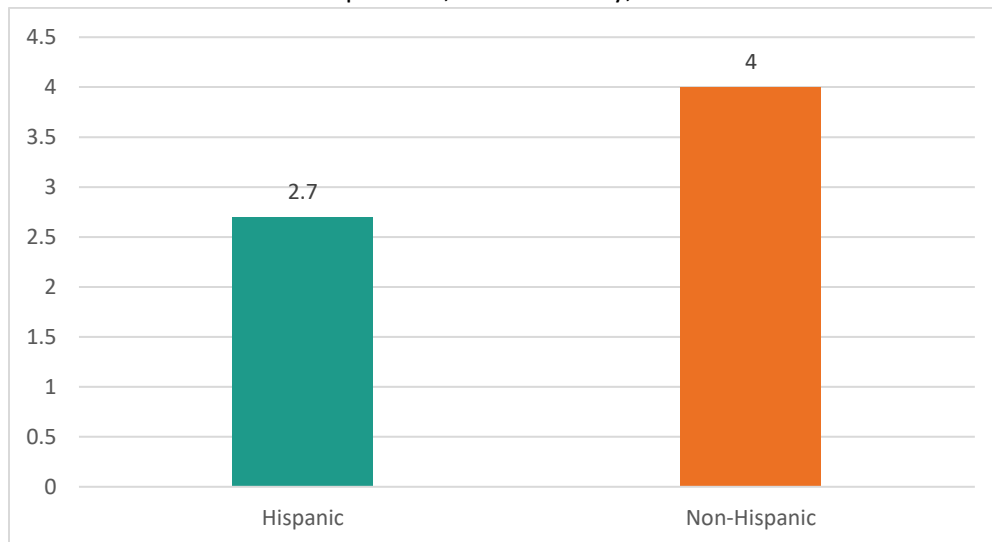
Exhibit HC26: Age-Adjusted Deaths from Prostate Cancer by Race, Rate per 100,000 Male Population, Collier County, 2020



Source: Florida Department of Health, Bureau of Vital Statistics

Non-Hispanics had the highest rate of new prostate cancer diagnosis, and Hispanics had the lowest in Collier County.

Exhibit HC27: Age-Adjusted Deaths from Prostate Cancer by Ethnicity, Rate per 100,000 Male Population, Collier County, 2020

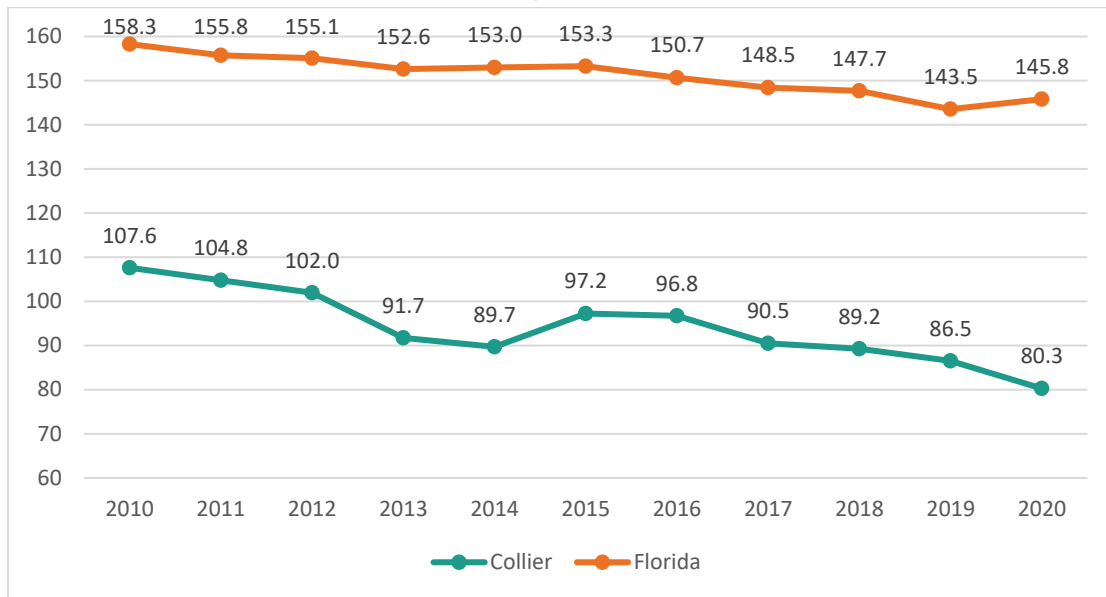


Source: Florida Department of Health, Bureau of Vital Statistics

## Heart Disease

Over the past 10 years the overall death rate from heart disease has significantly decreased, except for an increase in 2015. Collier County's heart disease death rate was significantly less than the Florida average from 2010-2020.

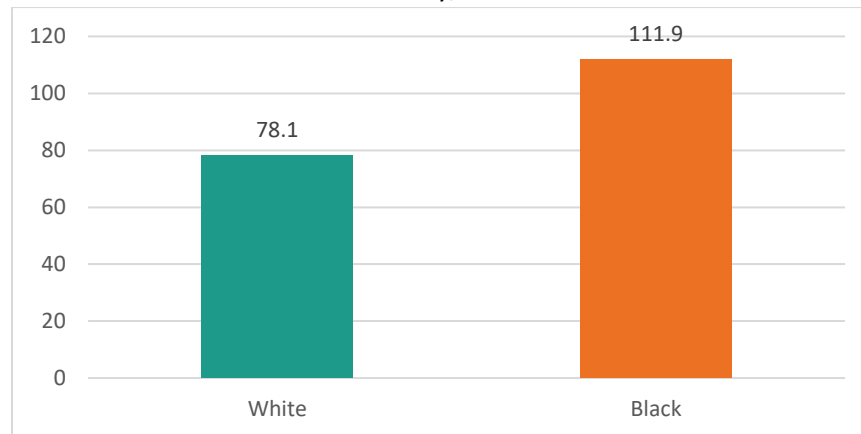
Exhibit HC28: Age-Adjusted Deaths from Heart Disease, Rate per 100,000 Population, Collier County and Florida, 2010-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In 2020, Black people had the highest rate of death from heart disease. Even though the Black death rate is high, the number of Black people dying of heart disease is smaller when compared to the other races/ethnicities.

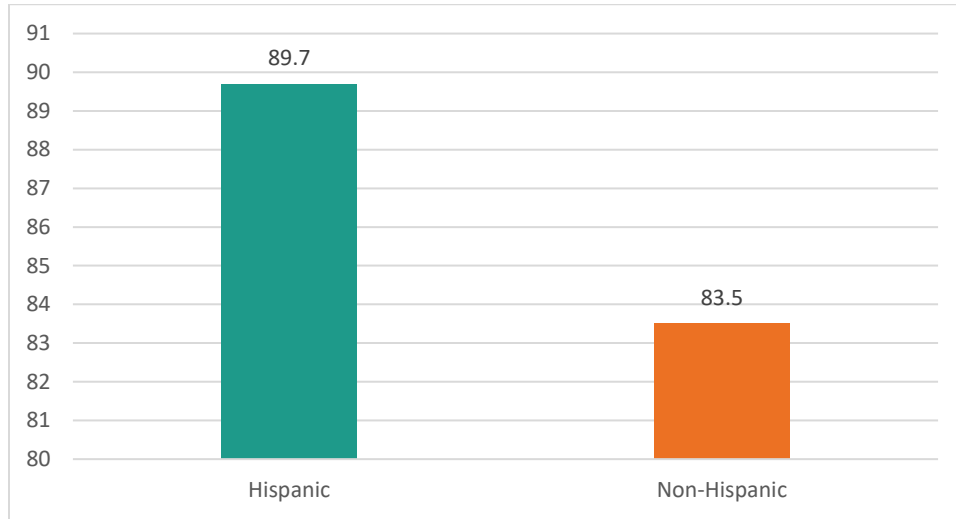
Exhibit HC29: Age-Adjusted Death from Heart Disease by Race, Rate per 100,000 Population, Collier County, 2020



Source: Florida Department of Health, Bureau of Vital Statistics

Hispanics in Collier County have a higher death rate from heart disease than Non-Hispanics.

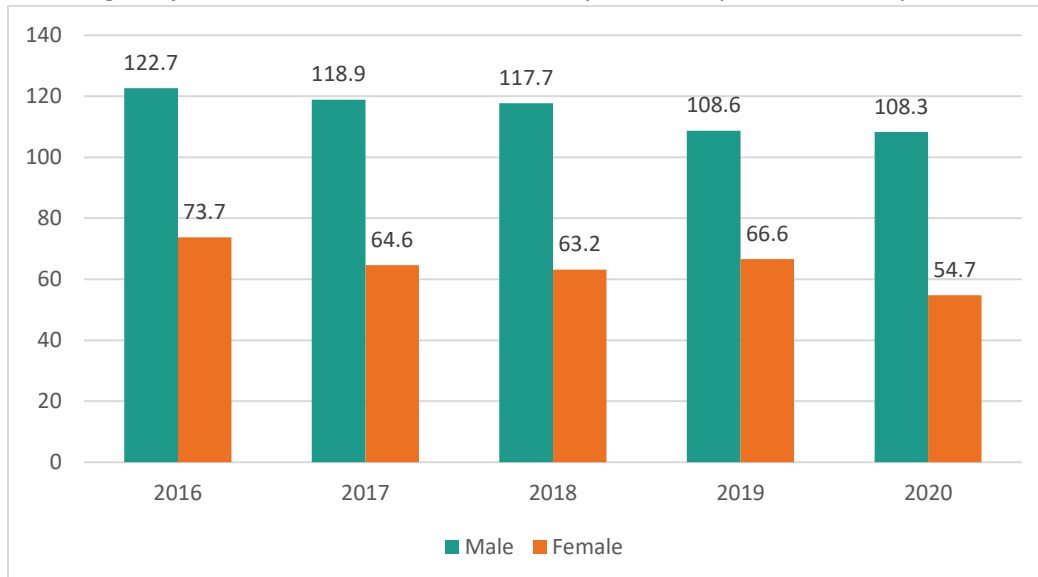
Exhibit HC30: Age-Adjusted Death from Heart Disease by Ethnicity, Rate per 100,000 Population, Collier County, 2020



Source: Florida Department of Health, Bureau of Vital Statistics

Males die at a higher rate from heart disease compared to females. From 2016 to 2020, the heart disease death rate for both males and females in Collier County declined.

Exhibit HC31: Age-Adjusted Death from Heart Disease by Sex, Rate per 100,000 Population, 2016-2020



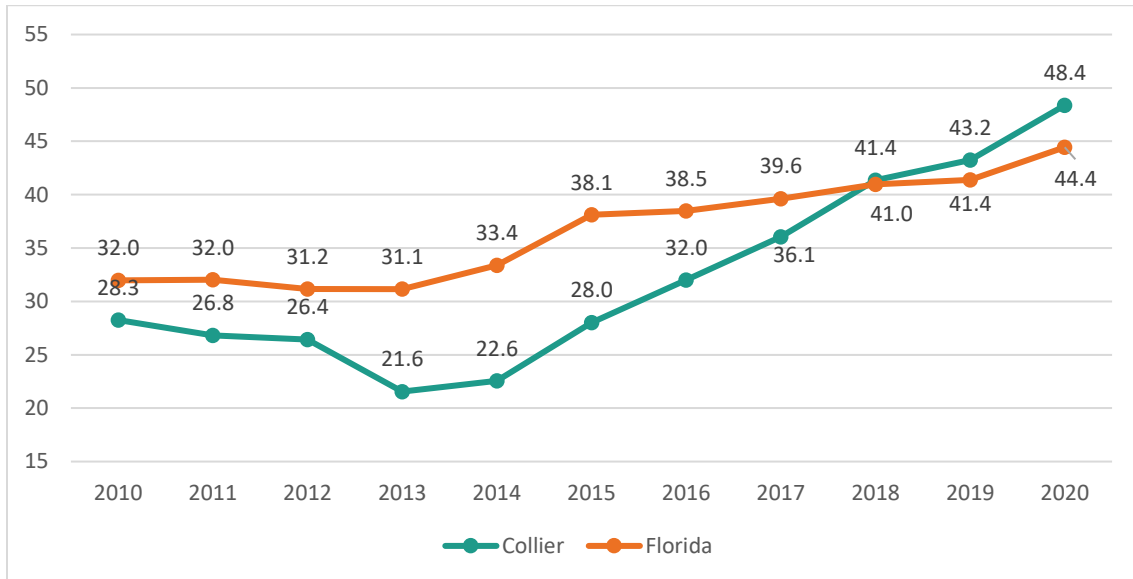
Source: Florida Department of Health, Bureau of Vital Statistics



## Stroke

The deadliest year for stroke deaths in Collier County was 2020; this was the highest it's ever been (48.4 per 100,000). Since 2013 there was a significant increase in stroke deaths in the county. Collier County surpassed the State in stroke deaths in 2018.

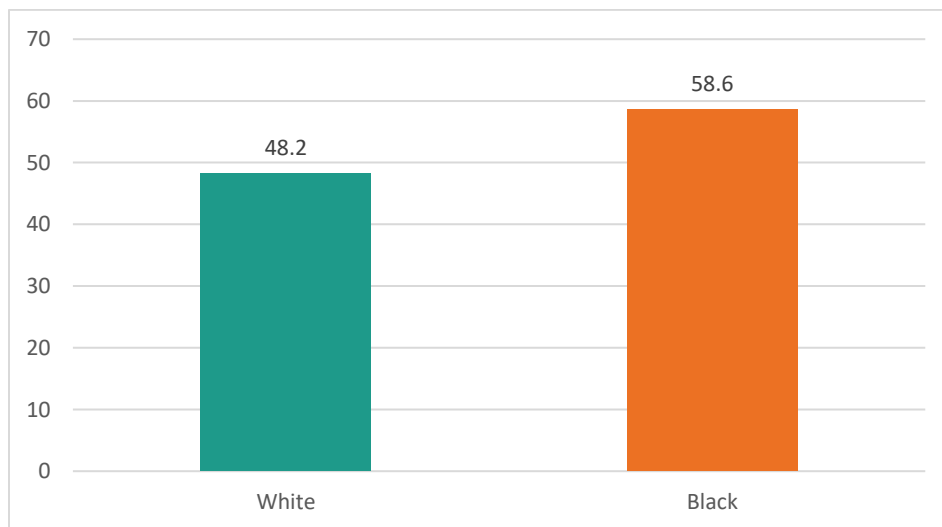
Exhibit HC32: Age-Adjusted Deaths from Stroke, Rate per 100,000 Population, Collier County and Florida, 2010-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Blacks have a higher death rate from strokes when compared to other races in Collier County.

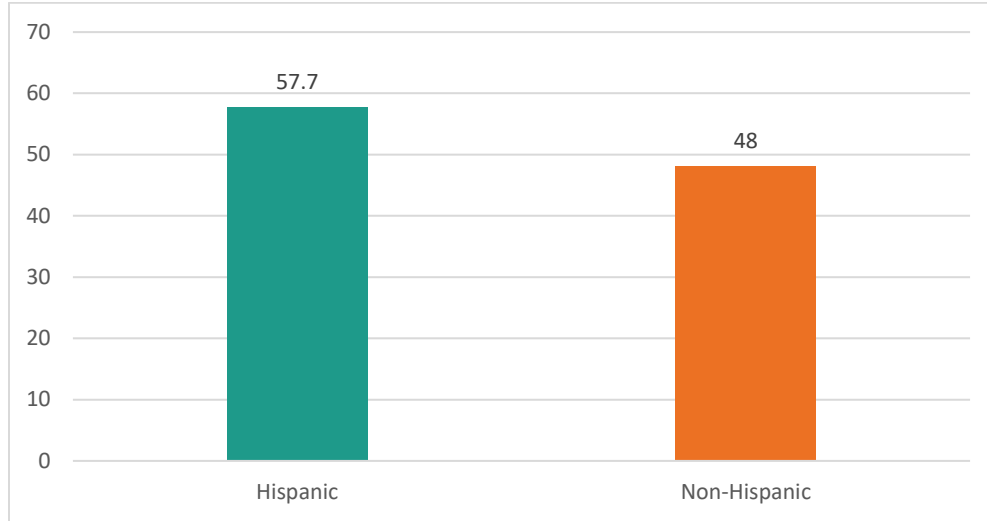
Exhibit HC33: Age-Adjusted Deaths from Stroke by Race, Rate per 100,000 Population, Collier County, 2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, those who identify as Hispanic had a higher death rate from strokes than non-Hispanics.

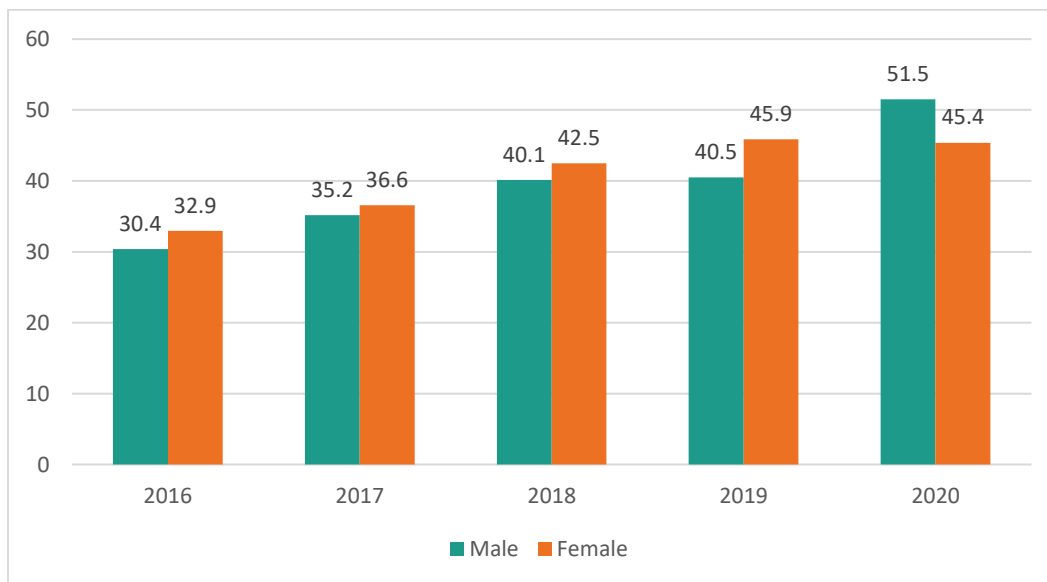
Exhibit HC34: Age-Adjusted Deaths from Stroke by Ethnicity, Rate per 100,000 Population, Collier County, 2020



Source: Florida Department of Health, Bureau of Vital Statistics

Both males and females had an increase in deaths from a stroke from 2016 to 2020, except in 2020 there was a small decrease in female deaths from stroke in Collier County. Females in Collier County were dying at a higher rate than males from stroke from 2016 to 2019. There was a significant increase in the death rate in males from 2019 to 2020.

Exhibit HC35: Age-Adjusted Deaths from Stroke by Sex, Rate per 100,000 Population, Collier County, 2016-2020



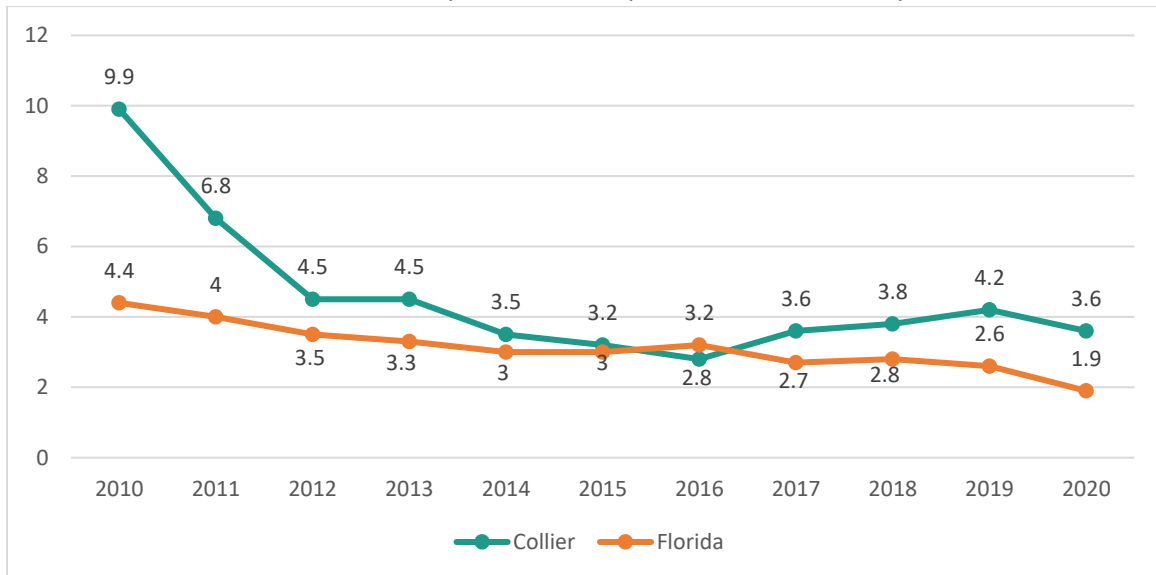
Source: Florida Department of Health, Bureau of Vital Statistics

## Tuberculosis

According to the Centers for Disease Control and Prevention, Tuberculosis (TB) is caused by a bacterium called *Mycobacterium Tuberculosis*. TB is an infectious disease that attacks the lungs, but can attack any part of the body. TB is an airborne infectious disease, which means the disease spreads in the air when a person infected with TB coughs, speaks, or sings.

In the past 10 years, 2010 had the highest rate of Tuberculosis cases in Collier County. From 2010 to 2016 there was a significant decrease in TB cases in Collier County and there was an increase in cases from 2016 to 2019. When compared to the State of Florida, Collier County has higher rate of TB cases except in 2016.

Exhibit HC36: Tuberculosis Cases, Rate per 100,000 Population, Collier County and Florida, 2010-2020



Source: Florida Department of Health, Division of Disease Control and Health Protection, Tuberculosis Section

## Sexually Transmitted Infections/Diseases (STIs/STDs)

Chlamydia is the most common sexually transmitted infection (STI) in Collier County. When compared to the Florida average, Collier County's STI rates are considerably lower for chlamydia, gonorrhea, and syphilis.

Exhibit HC37: Sexually Transmitted Infections, Collier County and Florida, 2017-2019

	# Of Cases Annual Average	County 3-Year Rate per 100,000	State 3-Year Rate per 100,000
Chlamydia	1,168.67	317.7	504.2
Gonorrhea	177.33	48.2	161.7
Syphilis	59.33	16.1	50.8

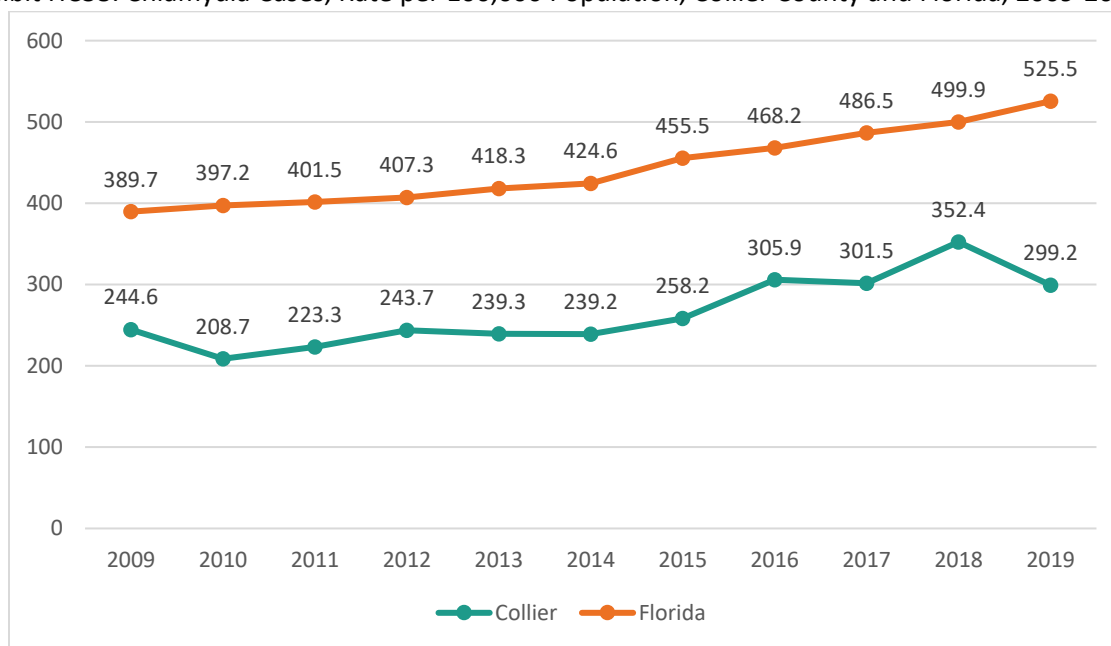
Source: Florida Department of Health, Bureau of Communicable Diseases

Chlamydia infection is the most frequently reported notifiable disease in the United States, Florida, and Collier County. It is the most prevalent of all STIs in the country and in Collier County.

Chlamydia infections in women are usually asymptomatic and can result in pelvic inflammatory disease (PID) which is a major cause of infertility, ectopic pregnancy, and chronic pelvic pain. As is the case with other inflammatory STIs, chlamydia infections can facilitate the transmission of human immunodeficiency virus (HIV). Pregnant women infected with chlamydia can also pass the infection to their infants during delivery, potentially resulting in neonatal ophthalmia and pneumonia. Due to the burden of disease and the risks associated with infections, CDC recommends that all sexually active women younger than 25 years of age receive an annual chlamydia screening.

Since 2010 the cases of chlamydia in Collier County have been slightly increasing, with a decrease in 2019. In 2018, Collier County had its highest rate of chlamydia cases, 352.4 per 100,000. Collier County consistently has lower rates of chlamydia when compared to the State.

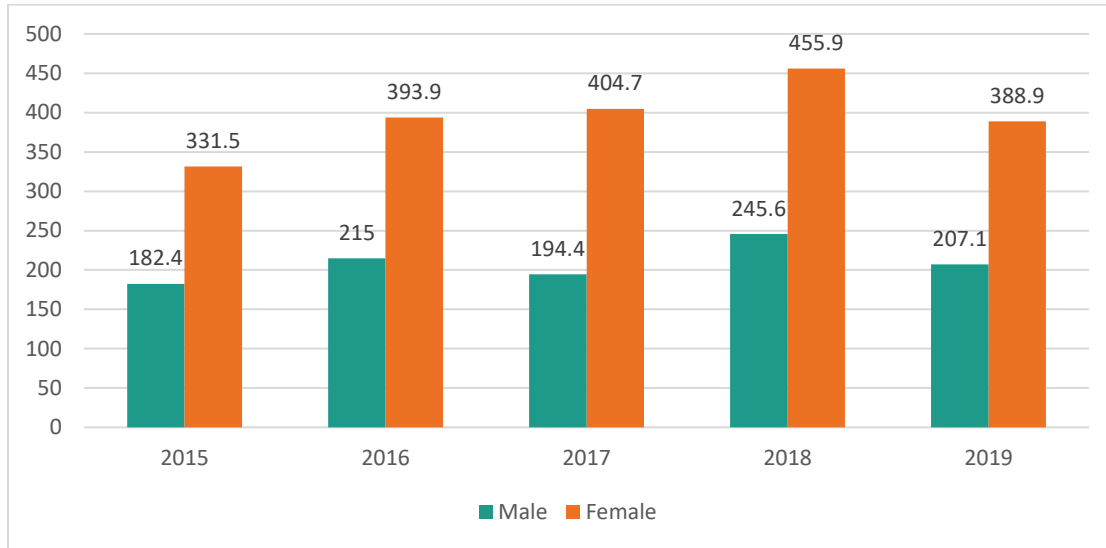
Exhibit HC38: Chlamydia Cases, Rate per 100,000 Population, Collier County and Florida, 2009-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

In Collier County females have a higher rate of getting diagnosed with chlamydia than males. 2018 had the highest rates of chlamydia cases in Collier County.

Exhibit HC39: Chlamydia Cases by Sex, Rate per 100,000 Population, Collier County, 2015-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

Those under the age of 30 had the highest number of chlamydia cases in Collier County, when compared to other age groups. Collier County residents aged 35-39 had the lowest number of chlamydia cases.

Exhibit HC40: Reported Chlamydia Cases by Select Age Group, 3-Year Rolling, Collier County, 2017-2019

Age Group	Total	Percent
15-19	938	28.5%
20-24	1,271	38.6%
25-29	633	19.2%
30-34	273	8.3%
35-39	176	5.3%

Source: Florida Department of Health, Bureau of Communicable Diseases

Females, regardless of age, had a higher number of chlamydia cases when compared to males in Collier County. For females, about 72 percent of the cases came from the 15-24 age group. Regarding the males in Collier County, 65 percent of the chlamydia cases were from the 20-29 age group. This shows a need for increased sexual education and outreach for these age groups.

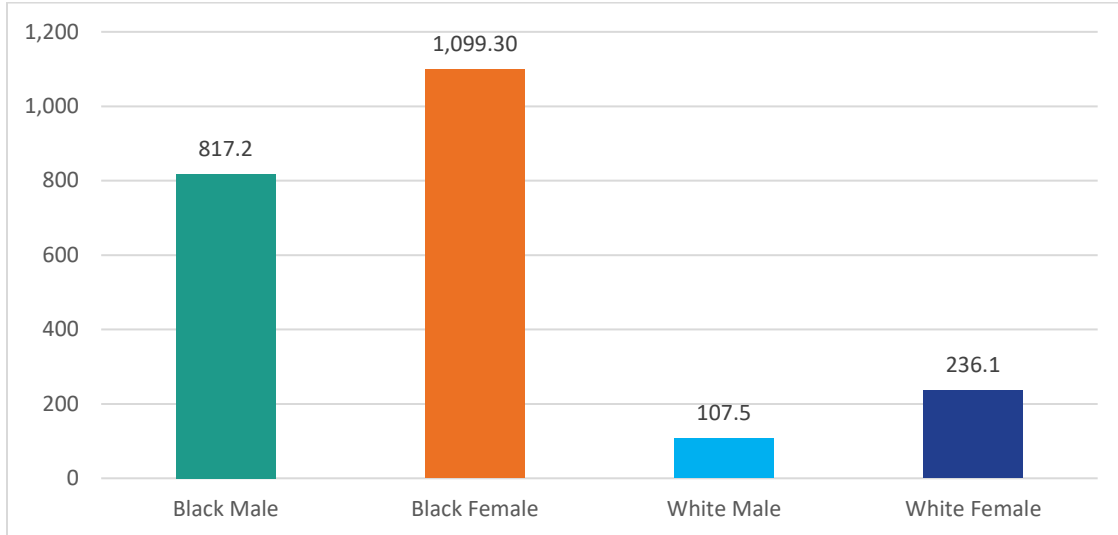
Exhibit HC41: Reported Chlamydia Cases by Select Age and Sex Group, 3-Year Rolling, Collier County, 2017-2019

Age Group	Male	Percent	Female	Percent
15-19	196	18.1%	742	33.6%
20-24	430	39.7%	841	38.1%
25-29	275	25.4%	358	16.2%
30-34	114	10.5%	159	7.2%
35-39	67	6.2%	109	4.9%

Source: Florida Department of Health, Bureau of Communicable Diseases

Black females had the highest rates of chlamydia when compared to white males/females in Collier County.

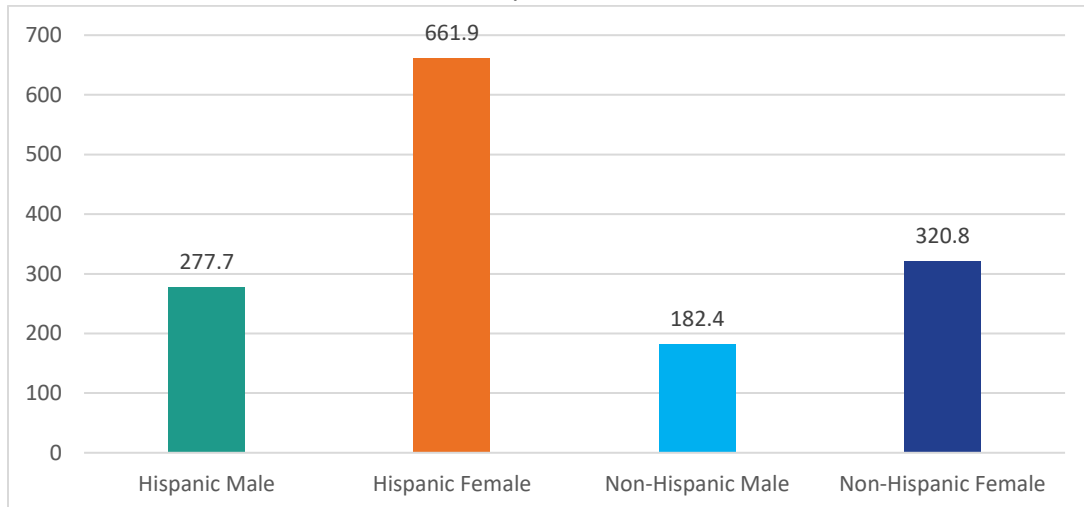
Exhibit HC42: Chlamydia Cases by Race and Sex, Rate per 100,000 Population, 3-Year Rolling, Collier County, 2017-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

In Collier County, Hispanic females had the highest rates of chlamydia when compared to Non-Hispanic males/females.

Exhibit HC43: Chlamydia Cases by Ethnicity and Sex, Rate per 100,000 Population, 3-Year Rolling, Collier County, 2017-2019

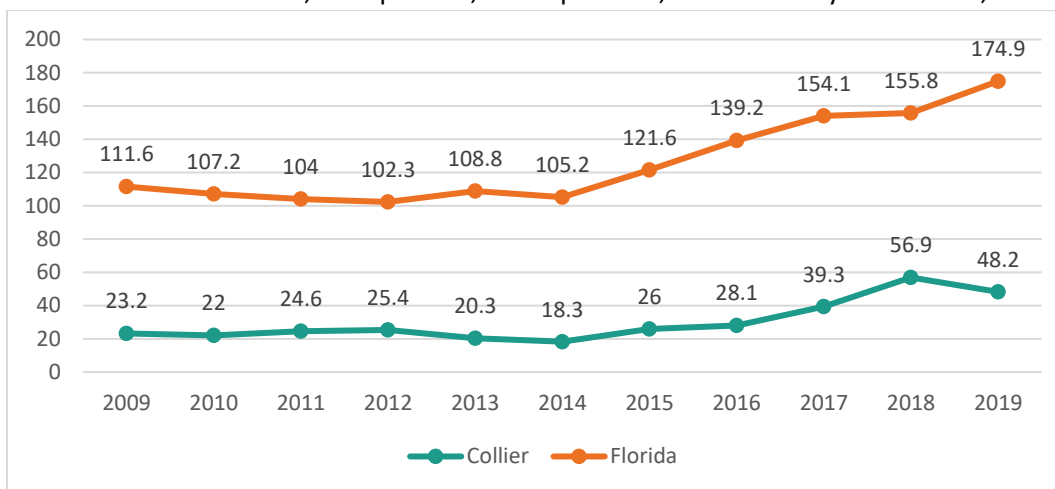


Source: Florida Department of Health, Bureau of Communicable Diseases

Gonorrhea is caused by *Neisseria gonorrhoea*, a bacterium that can grow and multiply easily in warm, moist areas of the reproductive tract including the cervix, uterus, and fallopian tubes in women, and in the urethra in women and men. Gonorrhea can also grow in the mouth, throat, eyes, and anus.

Since 2014, the rate of gonorrhea cases in Collier County increased, with a decrease in 2019. In 2018 Collier County had its highest rate of gonorrhea cases, 56.9 per 100,000, in the past 10 years. When compared to the State, Collier County consistently had significantly lower rates of gonorrhea cases.

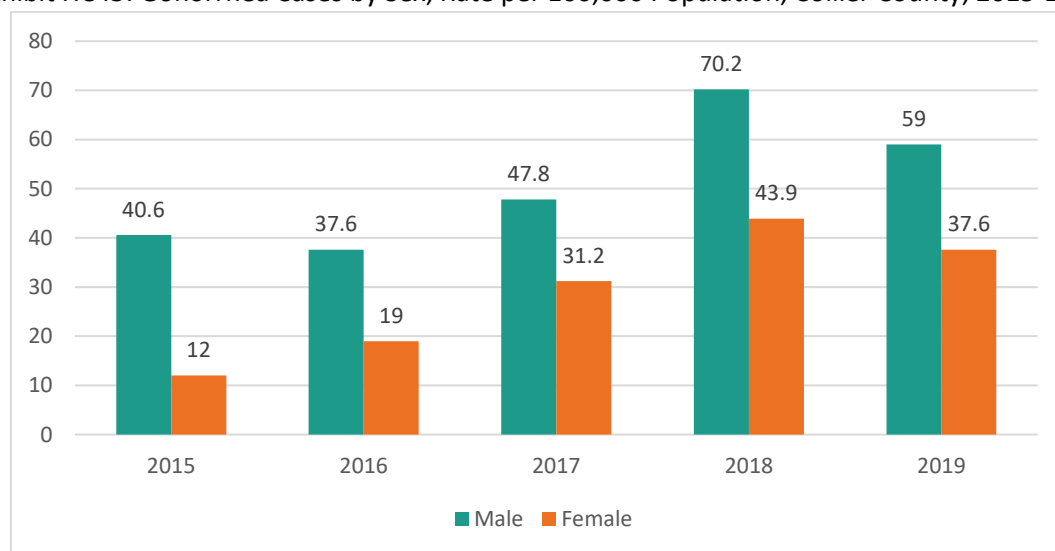
Exhibit HC44: Gonorrhea Cases, Rate per 100,000 Population, Collier County and Florida, 2009-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

Males in Collier County had a higher rate of gonorrhea diagnoses when compared to females from 2015-2019. 2018 had its highest rates of gonorrhea cases in Collier County for both males and females.

Exhibit HC45: Gonorrhea Cases by Sex, Rate per 100,000 Population, Collier County, 2015-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

The 20-24 age group had the highest number of reported cases of gonorrhea when compared the other age-groups. The 25-29 had the second highest number of reported cases of gonorrhea. Those in their 20s make up about 58 percent of the gonorrhea cases in Collier County.

Exhibit HC46: Reported Gonorrhea Cases by Select Age Group, 3-Year Rolling, Collier County, 2017-2019

Age Group	Total	Percent
15-19	102	22.6%
20-24	152	33.6%
25-29	109	24.1%
30-34	52	11.5%
35-39	37	8.2%

Source: Florida Department of Health, Bureau of Communicable Diseases

Males had a higher number of the reported cases of gonorrhea in all age groups except for the 15-19 age group, where females had 18 more cases, in Collier County. Those who are 35-39 years of age had the lowest number of reported cases of gonorrhea in Collier County.

Exhibit HC47: Reported Gonorrhea Cases by Select Age and Sex Group, 3-Year Rolling, Collier County 2017-2019

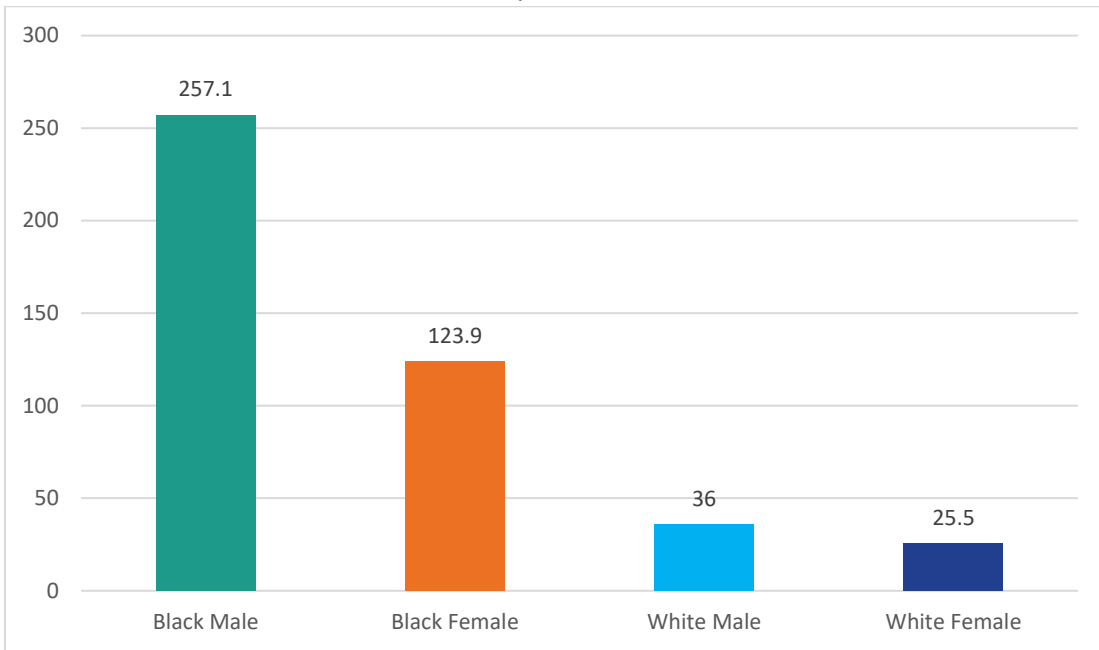
Age Group	Male	Percent	Female	Percent
15-19	42	16.2%	60	31.3%
20-24	82	31.5%	70	36.5%
25-29	69	26.5%	40	20.8%
30-34	38	14.6%	14	7.3%
35-39	29	11.2%	8	4.2%

Source: Florida Department of Health, Bureau of Communicable Diseases

Black males and Black females disproportionately had a higher rate of being diagnosed with gonorrhea when compared to the other races/sexes. White females had the lowest rates of being diagnosed with gonorrhea in Collier County.



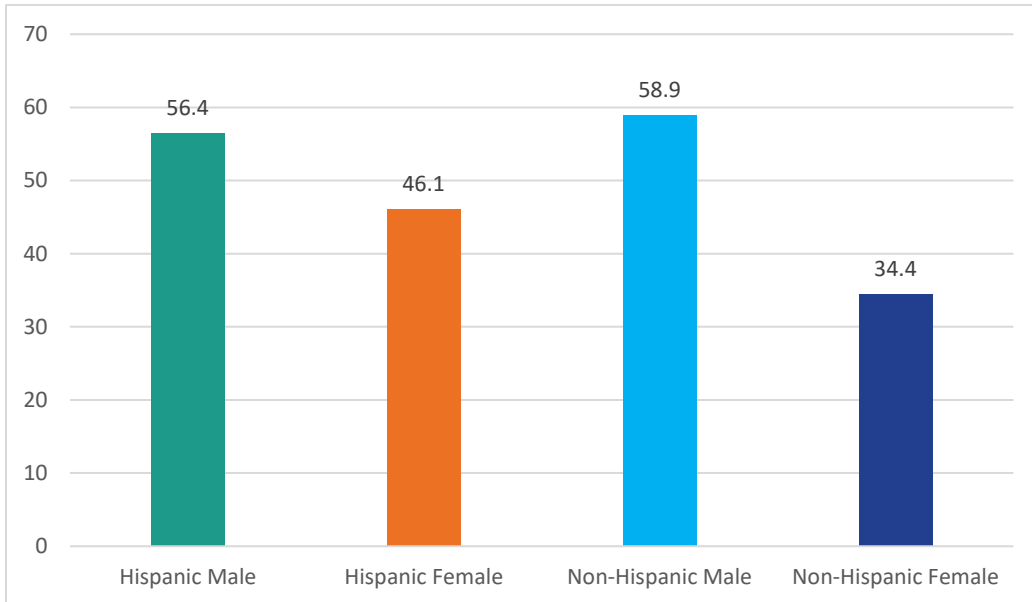
Exhibit HC48: Gonorrhea Cases by Race and Sex, Rate per 100,000 Population, 3-Year Rolling, Collier County, 2017-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

Non-Hispanic males followed closely by Hispanic males had the highest rates of being diagnosed with gonorrhea in Collier County. Non-Hispanic females had the lowest gonorrhea diagnosis rate.

Exhibit HC49: Gonorrhea Cases by Ethnicity and Sex, Rate per 100,000 Population, 3-Year Rolling, Collier County, 2017-2019

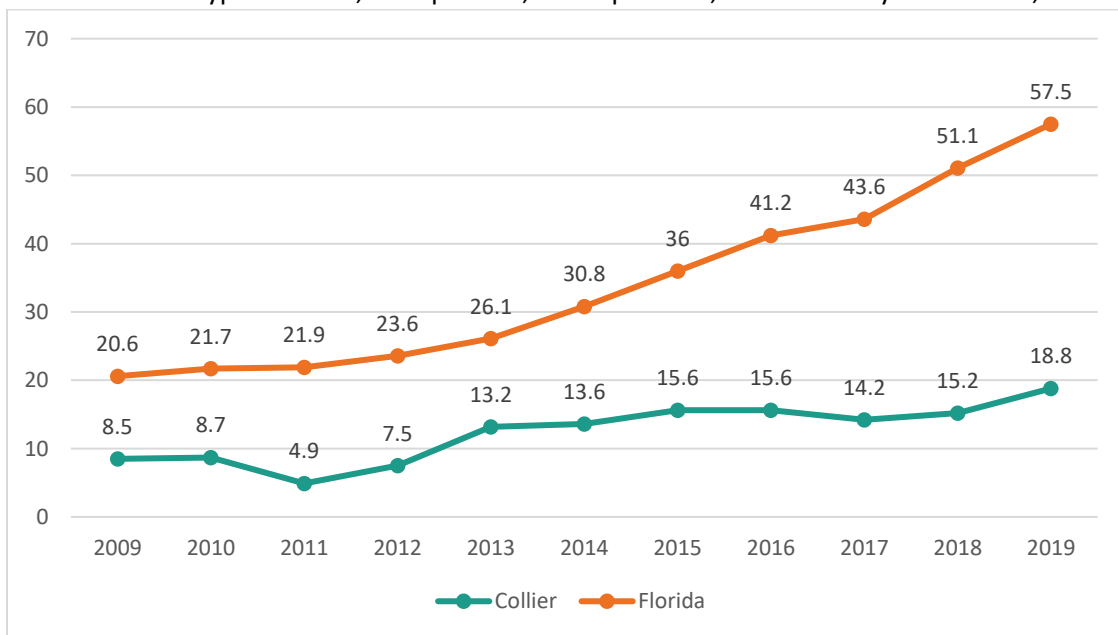


Source: Florida Department of Health, Bureau of Communicable Diseases

Syphilis is a genital ulcerative disease that causes significant complications if left untreated and facilitates the transmission of HIV infection. Syphilis is divided into four stages, primary, secondary, latent, and tertiary. Each stage has its own signs and symptoms. Untreated early syphilis in pregnant women results in perinatal mortality in as much as 40 percent of cases and pregnancy may lead to infection of the fetus in 80 percent of cases. Syphilis is passed from person to person through direct contact with syphilis sore. Sores occur on the external genitalia, vagina, and anus or in the rectum. These sores can also occur on the lips and in the mouth. Even after completing syphilis treatment, reinfection is possible.

Since 2011, the rate of total syphilis cases in Collier County have continued to increase, from 4.9 per 100,000 to 18.8 per 100,000. Collier County's rate of total syphilis cases is consistently lower than the State's average.

Exhibit HC50: Total Syphilis Cases, Rate per 100,000 Population, Collier County and Florida, 2009-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

Congenital syphilis is a severe, often life-threatening, infection seen in infants. This occurs when a pregnant mother who has syphilis spreads the infectious disease to her unborn infant. Infectious syphilis includes the primary stage and secondary syphilis. At primary stage of infection, the person would usually have one or more ulcerative lesions. Secondary stage of a syphilis infection, a person would usually have skin rashes commonly found on the palms of the hands and bottom of the feet and mucous membrane lesions on the mouth, vagina, or anus. Early syphilis is categorized as when the initial infection occurred within the previous 12 months. This includes both primary and secondary stage syphilis with or without symptoms.

Majority of the cases of syphilis in Collier County from 2009 to 2019 were categorized as early syphilis. There were only two years out of the 10 when a baby was born with congenital syphilis, 2017 and 2018.

Exhibit HC51: Reported Syphilis Cases by Type, Collier County, 2009-2019

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Congenital Syphilis*									1	2	
Infectious Syphilis	8	4	3	9	12	18	17	15	19	14	28
Early Syphilis	10	9	9	12	18	31	29	34	35	31	48
<b>Total Syphilis</b>	<b>27</b>	<b>28</b>	<b>16</b>	<b>25</b>	<b>44</b>	<b>46</b>	<b>54</b>	<b>55</b>	<b>51</b>	<b>56</b>	<b>71</b>

Source: Florida Department of Health, Bureau of Communicable Diseases

\*Blanks indicate no data was given that year

The 45-54 age group had the highest number of total syphilis cases when compared to other age groups. The second highest age group was 25-29 with 32 cases of syphilis.

Exhibit HC52: Total Syphilis Cases by Select Age Group, 3-Year Rolling, Collier County, 2017-2019

Age Group	Total	Percent
15-19	4	2.3%
20-24	14	8.0%
25-29	32	18.3%
30-34	18	10.3%
35-39	29	16.6%
40-44	14	8.0%
45-54	42	24.0%
55-64	18	10.3%
65 and over	4	2.3%

Source: Florida Department of Health, Bureau of Communicable Diseases

For males in Collier County, the 45-54 age group had the highest number of cases of syphilis when compared to the other age groups. Among females in Collier County, the 25-29 and 45-54 age groups had the highest number of syphilis cases. The age groups 15-19 and 65 and over had the lowest number of syphilis diagnoses for both males and females.

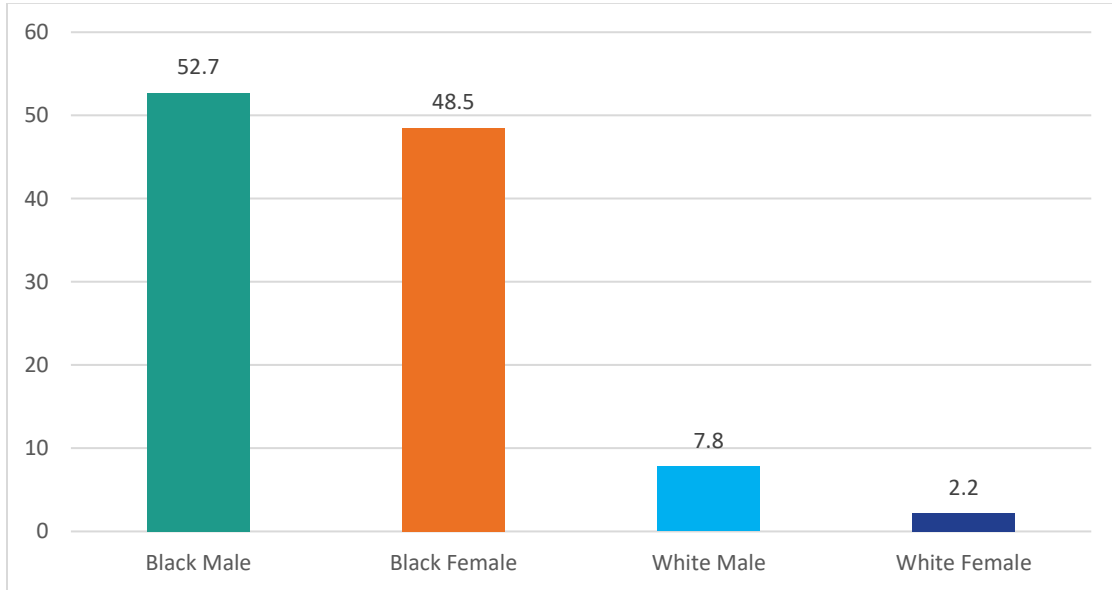
Exhibit HC53: Total Syphilis Cases by Select Age Groups and Sex, 3-Year Rolling, Collier County, 2017-2019

Age Group	Male	Percent	Female	Percent
15-19	2	1.5%	2	5.3%
20-24	10	7.3%	4	10.5%
25-29	24	17.5%	8	21.1%
30-34	17	12.4%	1	2.6%
35-39	24	17.5%	5	13.2%
40-44	11	8.0%	3	7.9%
45-54	34	24.8%	8	21.1%
55-64	13	9.5%	5	13.2%
65 and over	2	1.5%	2	5.3%

Source: Florida Department of Health, Bureau of Communicable Diseases

Black males and Black females in Collier County were diagnosed with syphilis at a higher rate than white males and white females.

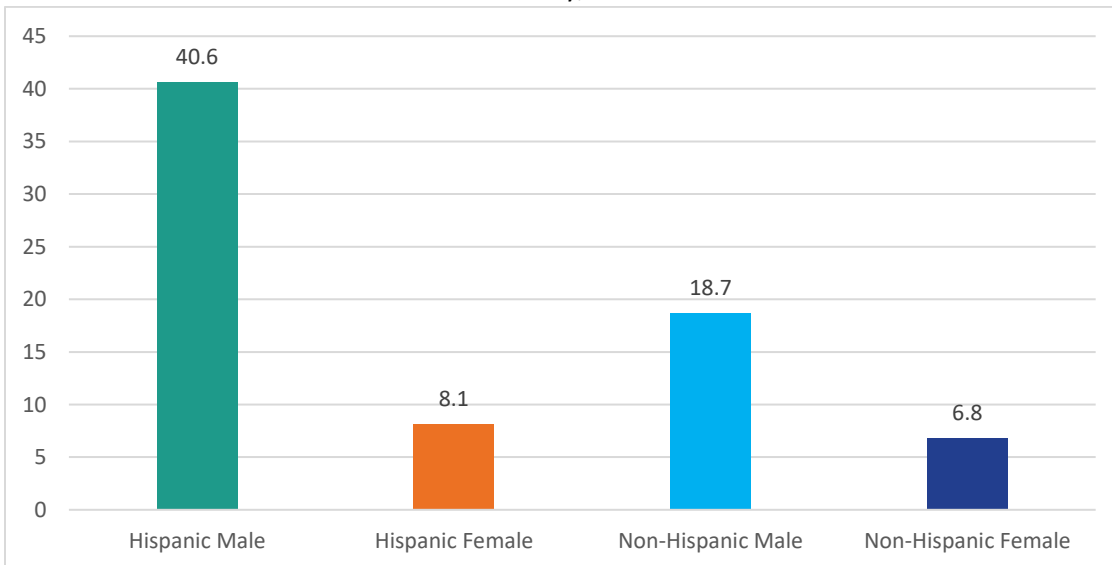
Exhibit HC54: Total Syphilis Cases by Race and Sex, Rate per 100,000 Population, 3-Year Rolling, Collier County, 2017-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

Hispanic males were disproportionately diagnosed with syphilis at a higher rate than Hispanic females and Non-Hispanic males/females in Collier County. Non-Hispanic females in Collier County had the lowest syphilis diagnosis rate.

Exhibit HC55: Total Syphilis Cases by Ethnicity and Sex, Rate per 100,000 Population, 3-Year Rolling, Collier County, 2017-2019



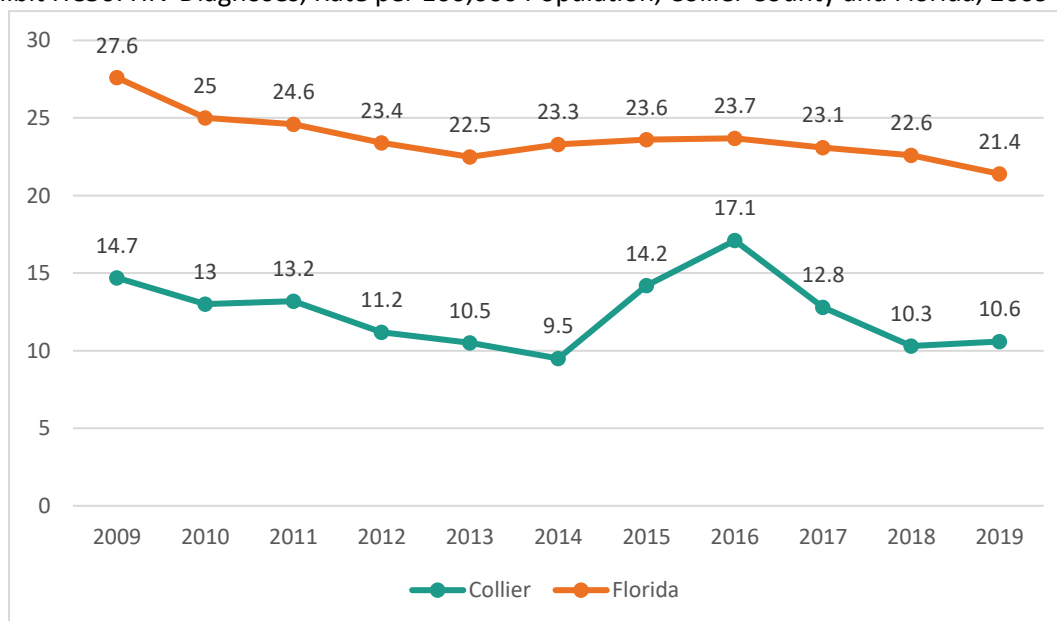
Source: Florida Department of Health, Bureau of Communicable Diseases

## HIV Infection

Over thirty years have passed since June 5, 1981, when the Centers for Disease Control (CDC) published its first report of cases of *Pneumocystis carinii pneumonia* (PCP) being diagnosed among previously healthy, young, gay men in Los Angeles. This is the syndrome that would later become known as AIDS. The CDC published its first surveillance case definition for AIDS in September of 1982. Soon after this disease was recognized as a distinct syndrome, Florida began to collect voluntary AIDS surveillance reports. In 1983, the State of Florida Health Officer designated AIDS as a reportable disease, and a formal AIDS surveillance program was instituted in the state. Mandatory reporting of AIDS was incorporated into the Florida Statutes (s.384, F.S.) in 1986, and the Florida Administrative Code (64D, F.A.C.) directed that all AIDS cases, as defined by the CDC, be reported to the local county health department by physicians who diagnose or treat AIDS. In 1993, the CDC published its first major revision of the AIDS case definition. This change added three new AIDS-indicator diseases and allowed for HIV positive individuals with severely depressed immune systems (those with an absolute CD4 count <200, or <14 percent) to meet the AIDS case definition. This case definition revision went into effect retroactively and resulted in a substantial increase in the number of reported AIDS cases in Florida. The State of Florida passed legislation that became effective July 1, 1997, which authorized the reporting of newly diagnosed cases of HIV infection by name (i.e., individuals who tested HIV+, but did not meet the AIDS case definition). This legislation, however, did not allow for the retroactive reporting of previously diagnosed HIV+ individuals. The first case of AIDS in Collier County was reported in 1982.

Starting in 2009, the rates of HIV diagnoses began to decline in Collier County until 2014 when it started to drastically increase. From 2016 to 2019, the HIV diagnoses rate started to decline again. When compared to the state, Collier County's HIV Diagnoses rate has remained lower than the State from 2009 to 2019.

Exhibit HC56: HIV Diagnoses, Rate per 100,000 Population, Collier County and Florida, 2009-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

Male-to-male sexual contact was the mode of exposure with the highest number of reported cases of HIV in Collier County. Male-to-male sexual contact/inject drug use had the lowest number of reported HIV cases.

Exhibit HC57: Reported Cases of HIV Diagnoses, Collier County, 2017-2019

Mode of Exposure	Number of Reported Cases	Percent of Total
Male-to-Male Sexual Contact (MMSC)	76	61.3%
Injection Drug Use (IDU)	4	3.2%
MMSC/IDU	3	2.4%
Heterosexual Contact	41	33.1%

Source: Florida Department of Health, Bureau of Communicable Diseases

In Collier County the 30–39 age-group had the highest number of reported HIV cases, accounting for almost 40 percent of the total reported cases, when compared to the other age-groups. There were only two reported cases of HIV for children under the age of 19 in Collier County.

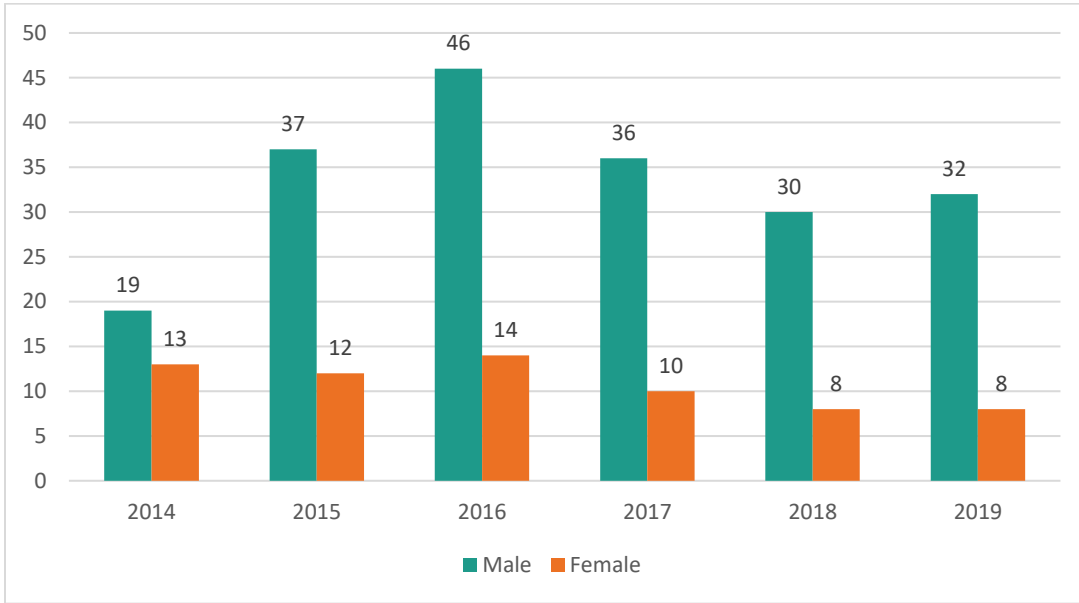
Exhibit HC58: Reported Cases of HIV Diagnoses by Age, 3-Year Rolling, Collier County, 2017-2019

Age (in years) at Initial Florida Report	Number of Reported Cases	Percent of Total
0-12	0	0.0%
13-19	2	1.9%
20-24	10	9.4%
25-29	23	21.7%
30-39	40	37.7%
50-59	22	20.8%
60 and over	9	8.5%

Source: Florida Department of Health, Bureau of Communicable Diseases

When compared to females more males were being diagnosed with HIV. From 2014 to 2019 in Collier County, 2016 had the highest number of male and female HIV diagnoses.

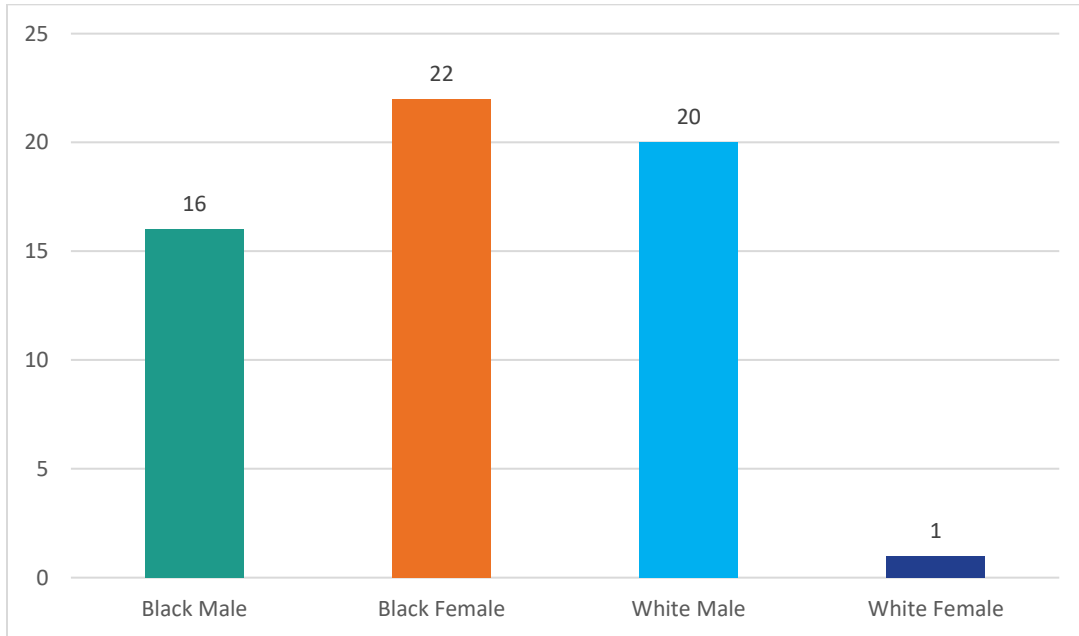
Exhibit HC59: HIV Diagnoses by Sex, Count, Collier County, 2014-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

In 2019, Black females in Collier County had the highest number of HIV diagnosis, this makes 37 percent of the diagnosis.

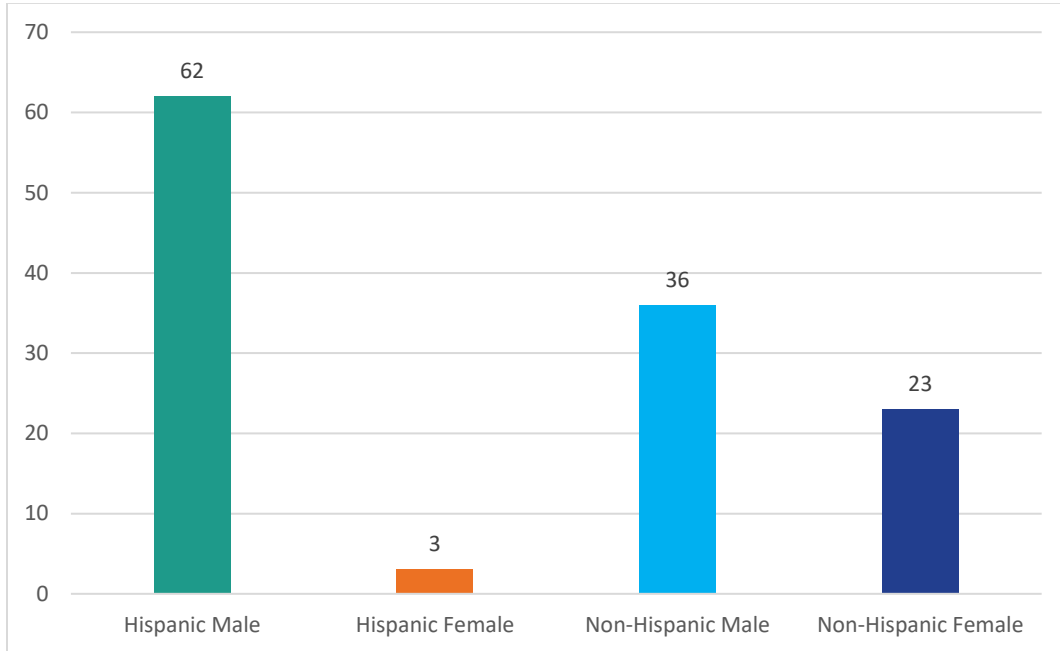
Exhibit HC60: HIV Diagnoses by Race and Sex, Count, 3-Year Rolling, Collier County, 2017-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

Hispanic males were disproportionately diagnosed with HIV at a higher number than Hispanic females and Non-Hispanic males/females in Collier County, making 50 percent of the diagnosis for 2017-2019. Non-Hispanic females in Collier County had the lowest HIV diagnosis number.

Exhibit HC61: HIV Diagnoses by Ethnicity and Sex, Count, 3-Year Rolling, Collier County, 2017-2019



Source: Florida Department of Health, Bureau of Communicable Diseases

### Older Population Health

For both 2020 and 2019, most of the ten leading causes of death for seniors' years 65 and over are the same except for the number of COVID-19 deaths in 2020 and the unknown cancer types in 2010. The COVID-19 pandemic had a significant impact on the health in Collier County, it was the fifth leading cause of death for seniors. In 2020 the top three leading causes of death for seniors was cancer, heart disease, and cerebrovascular diseases. In 2010 the top three leading causes of death were heart disease, cancer, and chronic lower respiratory disease.



Exhibit HC62: The 10 Leading Causes of Death, 65 Years and Over, Collier County, 2010 and 2020

2020		
Leading Cause of Death	Number of Deaths	Percentage Distribution
Cancer	755	24.2%
Heart Disease	690	22.2%
Cerebrovascular Diseases (Stroke)	486	15.6%
COVID-19	269	8.6%
Chronic Lower Respiratory Disease	137	4.4%
Unintentional Injury	121	3.9%
Alzheimer's Disease	113	3.6%
Diabetes	76	2.4%
Parkinson's Disease	66	2.1%

2010		
Leading Cause of Death	Number of Deaths	Percentage Distribution
Heart Disease	587	27.1%
Cancer	566	26.1%
Chronic Lower Respiratory Disease	174	8.0%
Cerebrovascular Disease (Stroke)	169	7.8%
Alzheimer's Disease	152	7.0%
Unintentional Injury	97	4.5%
Parkinson's Disease	44	2.0%
Diabetes	33	1.5%
In Situ, Benign, Uncertain and Unknown Behavior Neoplasms (Unknown Cancer Type)	33	1.5%

Source: Florida Department of Health, Bureau of Community Health assessment, Division of Public Health Statistics and Performance Management; FLHealthCHARTS – Death County Query System

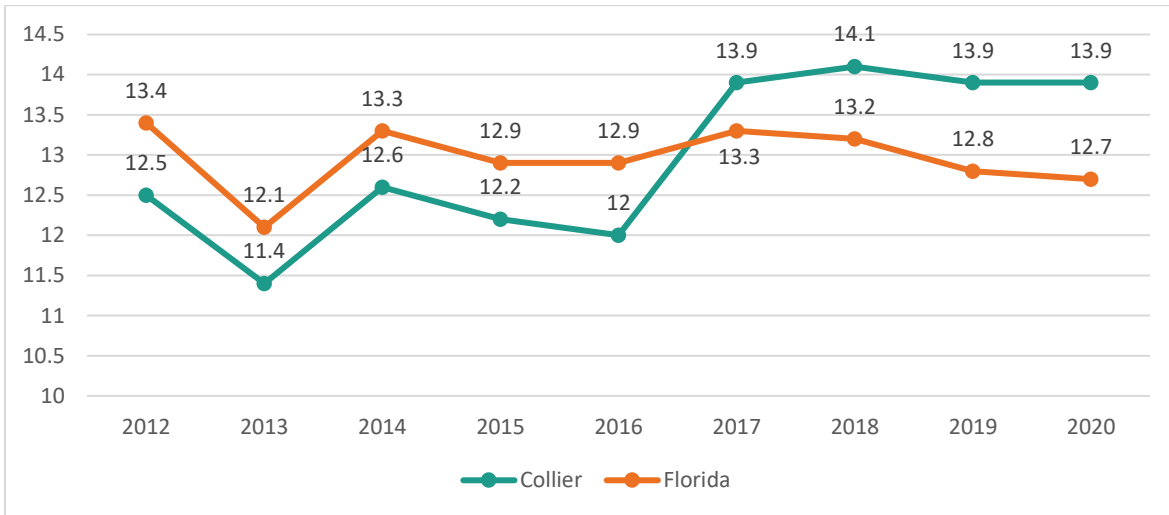
\*Other Causes of Death includes: Certain Other Intestinal Infections, Other & Unspecified Infectious/Parasitic Disease & Sequelae, Other Arteries, Arterioles, Capillaries Dis, Other Circulatory System Disorders, Unspec Acute Lower Respiratory Infection, Other Respiratory System Dis, Symptoms, Signs, Abnormal Clinical/Lab Findings, Firearms Discharge, Other & Unspecified Event & Sequelae, All Other Diseases (Residual)

Alzheimer's disease is the most common cause of dementia and can account for up to 80 percent of all cases of the condition. First identified over 100 years ago, research on its symptoms, causes, risk factors and treatment did not gain significant momentum until the last 30 years. Alzheimer's disease is usually diagnosed by a primary care physician utilizing the patient's medical and family history as well as any psychiatric and cognitive and behavioral history. Neurological, physical and cognitive examinations and tests are also conducted as part of the diagnosis process. The definitive cause of Alzheimer's remains unknown at this time, although it is widely accepted that as in other chronic diseases, multiple factors are involved in the development of the disease.

Advanced age is the predominant risk factor and correlate for the development of Alzheimer's disease; however, the disease is not a normal part of the aging process. The majority of persons with Alzheimer's disease are diagnosed at age 65 and above. The prevalence of the disease increases exponentially as age increases beyond 65 years. The number of residents of Collier County diagnosed with Alzheimer's disease as well as other dementias will increase every year as the percentage of the population 65 years and over continues to grow. This number will intensify greatly through 2030 and 2040 as the "Baby Boomer" cohort matures. In Collier County, Alzheimer's disease was the sixth leading cause of death in the population 65 years of age and older in 2010 and in 2020 it was the eighth leading cause of death.

It is hard to know the actual number of people living with Alzheimer’s disease, but below is an estimate of people in Collier County with Alzheimer’s disease. It is predicated in 2020 that 14 percent of the population 65 years and over in Collier County may be living with Alzheimer’s disease, which is higher than the Florida average. Starting in 2017 the Collier County average surpassed the Florida average.

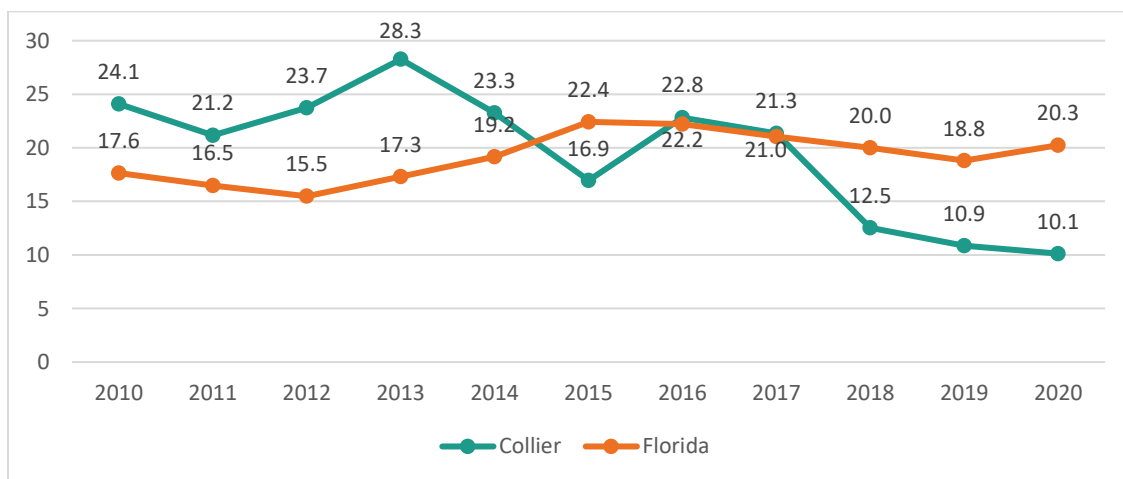
Exhibit HC63: Probable Alzheimer’s Disease Cases (65+), Percentage of Population age 65+, Collier County and Florida, 2012-2020



Source: Estimated proportions of persons 65-74, 75-84, and 85+ with Alzheimer's Disease are provided by the Department of Elder Affairs. The proportions are multiplied by population estimates for the same groups from FLHealthCHARTS.com.

Over the past 10 years the overall death rate from Alzheimer’s disease has drastically declined from 24.1 per 100,000 to 10.1 per 100,000 in Collier County. 2013 was the deadliest year for Alzheimer’s disease deaths in Collier County. From 2010 to 2014 and in 2016 to 2017 Collier County had a higher Alzheimer’s disease death rate than Florida.

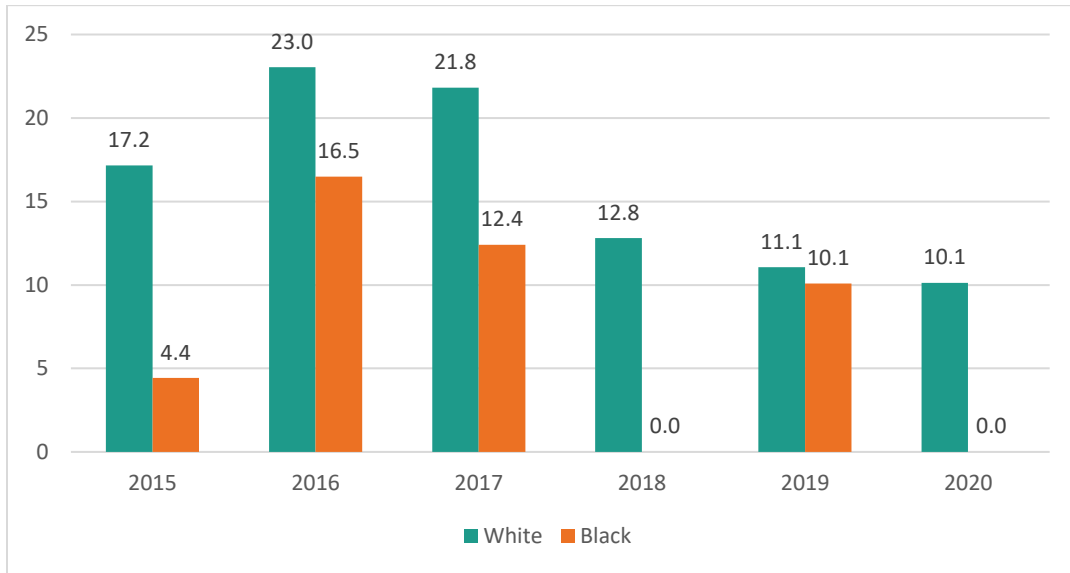
Exhibit HC64: Age-Adjusted Deaths from Alzheimer’s Disease, Rate per 100,000 Population, Collier County and Florida, 2010-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County white people have the highest Alzheimer’s disease death rate when compared to Black people in the past five years. In 2018 and 2020 there were zero Black Collier County residents who died from Alzheimer’s disease.

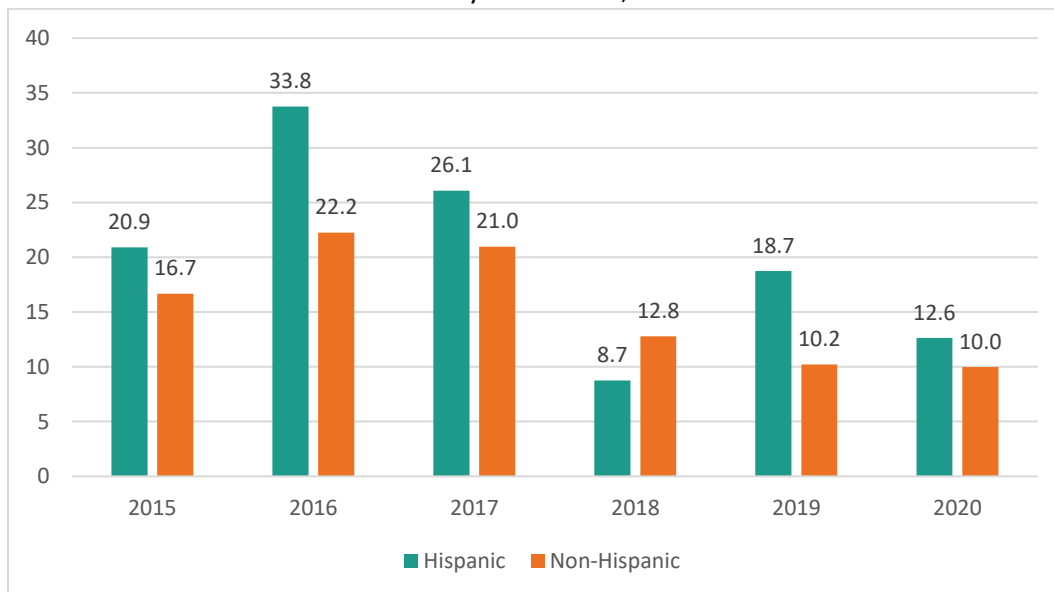
Exhibit HC65: Age-Adjusted Deaths from Alzheimer’s Disease by Race, Rate per 100,000 Population, Collier County and Florida, 2015-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, Hispanics have a higher Alzheimer’s disease death rate when compared to Non-Hispanics in the past five years, except for 2018.

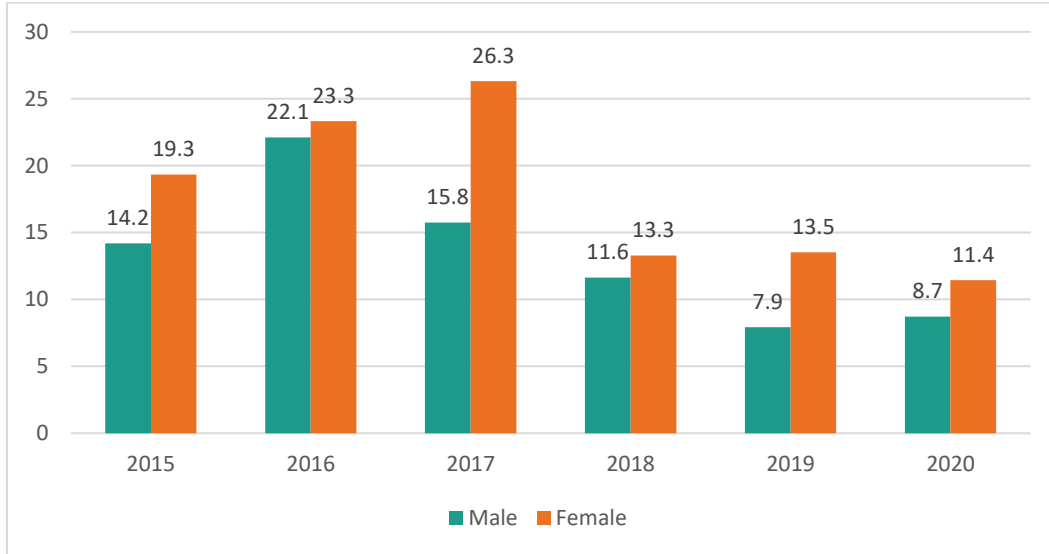
Exhibit HC66: Age-Adjusted Deaths from Alzheimer’s Disease by Ethnicity, Rate per 100,000 Population, Collier County and Florida, 2015-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Females in Collier County consistently had a higher Alzheimer’s disease death rate when compared to males from 2015 to 2020.

Exhibit HC67: Age-Adjusted Deaths from Alzheimer’s Disease by Sex, Rate per 100,000 Population, Collier County and Florida, 2015-2020



Source: Florida Department of Health, Bureau of Vital Statistics

## Health Behaviors

One of the correlates of higher levels of life expectancy and quality of life has historically been level of educational attainment due to its direct overall association with income level. As can be seen in this chapter on health behaviors, whether its diet related, tobacco, or alcohol use oriented, healthy habits are highly associated with education and income. Gender also plays a significant role. Females are more likely to choose a healthy lifestyle and its concomitant habits than males, and a married individual is less likely to engage in unhealthy habits than an unmarried person.

It is estimated in the United States that the two most prevalent unhealthy behaviors or lifestyle related habits (tobacco use and overweight and obesity) account for almost 35 percent of all preventable and premature deaths annually. This holds true for Collier County and Florida as well.

Although data for Collier County on select health behaviors in this section are available only from the Florida Department of Health's Behavioral Risk Factor Surveillance System (BRFSS) randomly selected scientific sample survey for select year intervals 2013, 2016, and 2019, these results are statistically valid and are representative of the community and population of Collier County.

The Florida BRFSS survey is carried out to compile and maintain a statewide level health behavioral assessment on an annual basis, while the geographical county BRFSS surveys are initiated every 3 years. These are the indicators that guide the County Health Departments in the assessment of their progress towards healthy behaviors within the communities.

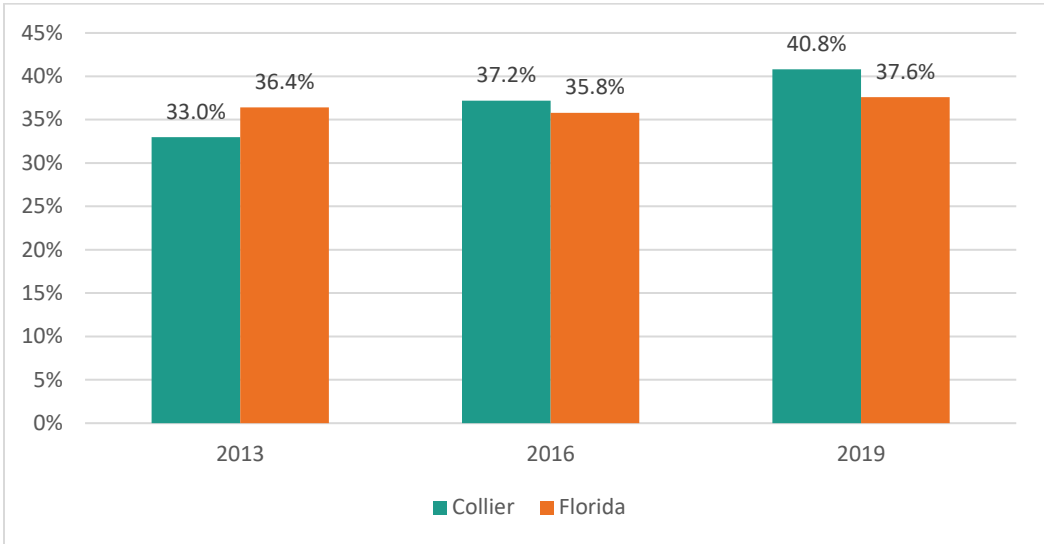
### Obesity and Overweight

The level of obesity and overweight in a population is predominantly a result of consuming too many calories while participating in too little physical activity.

An increase in the prevalence of obesity and overweight is related to a higher incidence of numerous chronic diseases including stroke, hypertension, cancer, cardiovascular disease, and diabetes. This same type of statistical association exists between level of physical activity and chronic health conditions. Premature mortality as measured by Years of Potential Life Lost is also statistically correlated with decreased physical activity, obesity and overweight.

The percentage of adults considered to be overweight in Collier County has continued to increase over the past six years. In 2019, about 41 percent of adults in Collier County were considered overweight. Collier County had a higher percentage of adults who were overweight in 2016 and 2019 when compared to the State of Florida.

Exhibit HB1: Percent of Adults Who are Overweight in Collier County and Florida, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

When compared to the State of Florida in 2016 and 2019 the Non-Hispanic Black population in Collier County had a significant higher percentage of adults who were overweight. In 2019, all races/ethnicities in Collier County had a higher percentage of adults who were overweight when compared to Florida.

Exhibit HB2: Percent of Adults Who are Overweight, by Race/Ethnicity in Collier County and Florida, 2013, 2016, and 2019

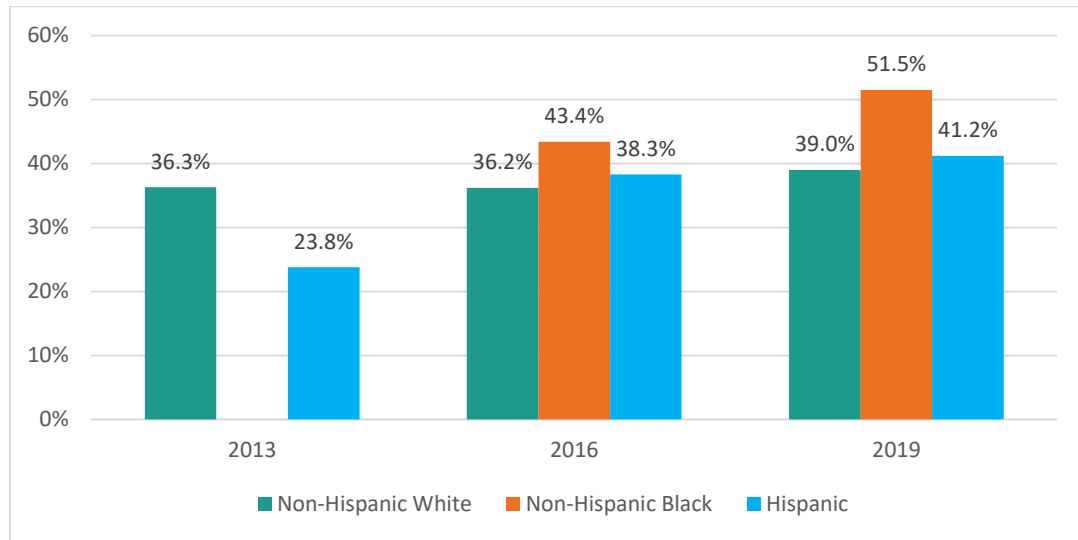
	Collier County			Florida		
	Non-Hispanic White	Non-Hispanic Black	Hispanic	Non-Hispanic White	Non-Hispanic Black	Hispanic
2013*	36.3%		23.8%	35.8%	36.9%	38.6%
2016	36.2%	43.4%	38.3%	35.3%	32.7%	40.4%
2019	39.0%	51.5%	41.2%	37.8%	35.1%	39.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

In the selected years in the table below, Collier County Non-Hispanic Blacks had a higher percentage of adults who were overweight when compared to other races/ethnicities. There was an overall increase, among all races/ethnicities, in the percentage of adults who are overweight in Collier County from 2013 to 2019.

Exhibit HB3: Percent of Adults Who are Overweight, by Race/Ethnicity in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

From 2013 to 2019, Collier County men had a higher percentage of men who were overweight when compared to the State. The women in Collier County had a lower percentage of women who were overweight in 2013 and 2016 when compared to the State average, but in 2019 Collier County and Florida women had the same percentage.

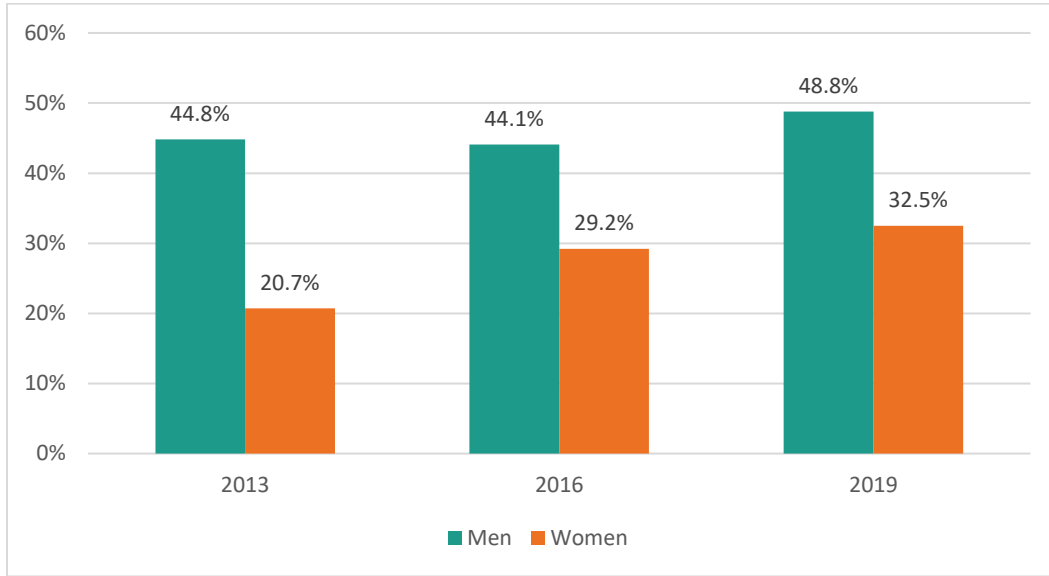
Exhibit HB4: Percent of Adults Who are Overweight, by Sex in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Men	Women	Men	Women
2013	44.8%	20.7%	42.9%	30.0%
2016	44.1%	29.2%	41.4%	30.1%
2019	48.8%	32.5%	42.6%	32.5%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

There was an increase in the percentage of women in Collier County who were overweight over the past six years. When compared to women, men in Collier County significantly had a higher percentage of being overweight.

Exhibit HB5: Percent of Adults Who are Overweight, by Sex in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, the 45 to 64 and 65 and older age groups in Collier County had a higher percentage of adults who are overweight than the Florida average. For the 18 to 44 age group Collier County had a slightly smaller percentage when compared to the State.

Exhibit HB6: Percent Adults Who are Overweight, By Age Group in Collier County and Florida, 2013, 2016, and 2019

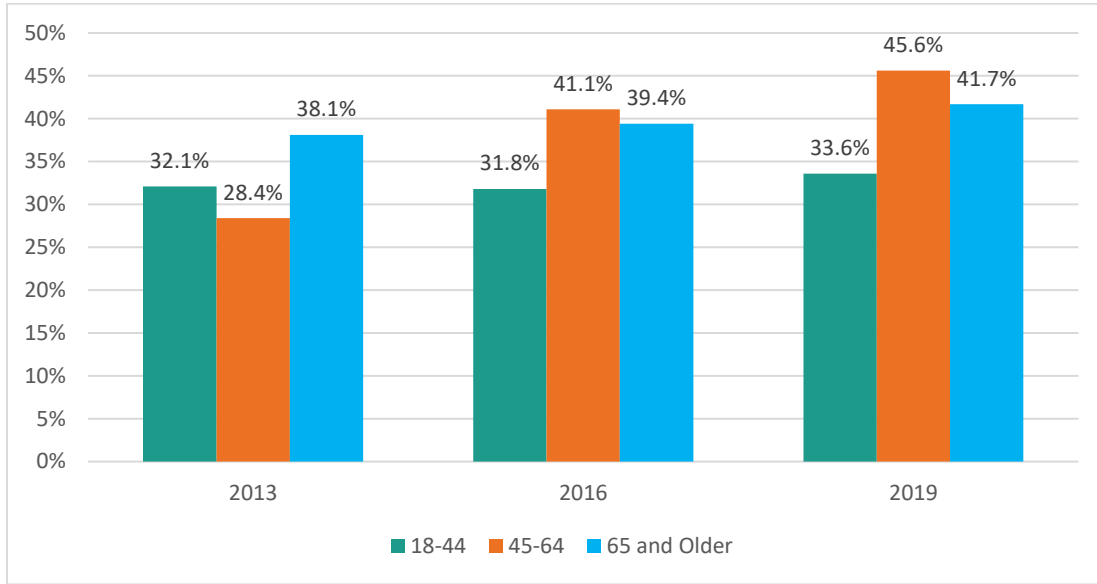
	Collier County			Florida		
	18-44	45-64	65 and Older	18-44	45-64	65 and Older
2013	32.1%	28.4%	38.1%	31.5%	39.4%	40.6%
2016	31.8%	41.1%	39.4%	32.2%	37.2%	39.7%
2019	33.6%	45.6%	41.7%	35.5%	39.2%	39.2%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

The 45 to 64 age group in Collier County consistently had the highest percentage of overweight adults when compared to the other age groups in 2019. Between 2013 and 2016, there was a 45 percent difference in the percentage of overweight adults in the 45 to 64 age group.



Exhibit HB7: Percent Adults Who are Overweight, By Age Group in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

For both Collier County and Florida those who are married/coupled have a higher percentage of being overweight when compared to those who are not married/coupled in 2019.

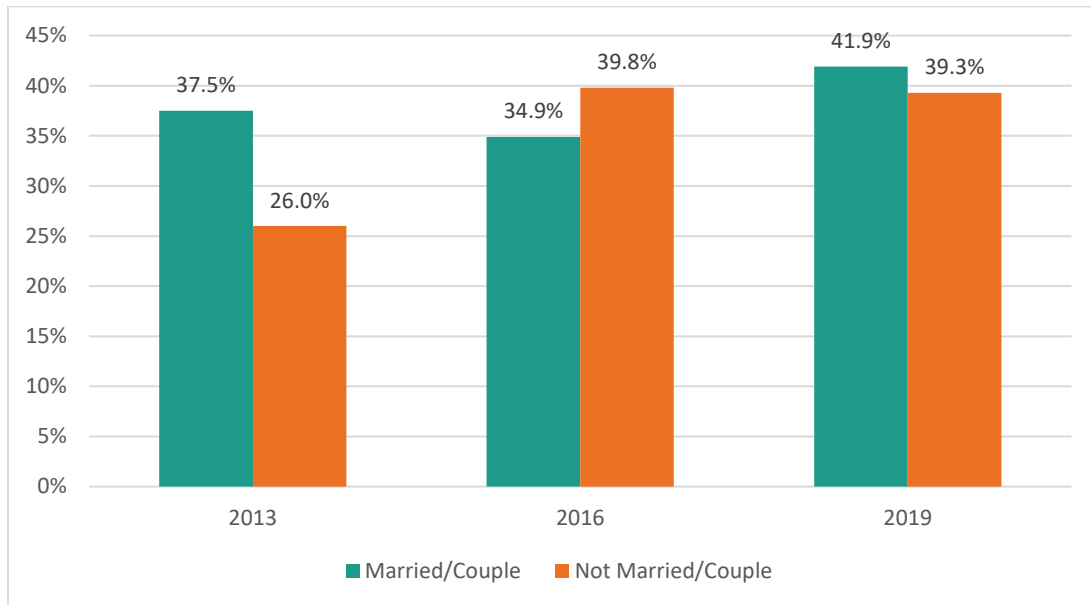
Exhibit HB8: Percent Adults Who are Overweight, By Marital Status in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Married/Coupled	Not Married/Coupled	Married/Coupled	Not Married/Coupled
2013	37.5%	26.0%	39.5%	32.9%
2016	34.9%	39.8%	38.4%	32.7%
2019	41.9%	39.3%	40.2%	34.7%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2013 and 2019, those who were married/coupled had a higher percentage of those who are overweight when compared to those who are not married/coupled. Not married/coupled adults in Collier County saw its highest percentage of those who were overweight in 2016.

Exhibit HB9: Percent Adults Who are Overweight, By Marital Status in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, adults in Collier County who had a high school/GED level of education had a higher percentage of adults who were overweight. Florida adults with more than a high school level of education had a higher percentage of adults who were overweight.

Exhibit HB10: Percent Adults Who are Overweight, By Education Level in Collier County and Florida, 2013, 2016, and 2019

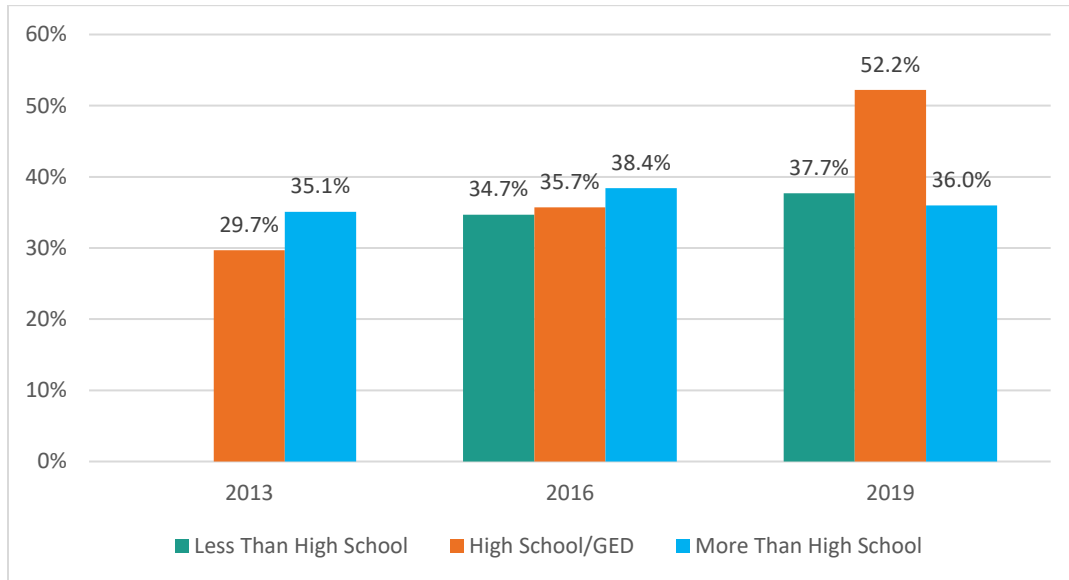
	Collier County			Florida		
	Less Than High School	High School/GED	More Than High School	Less Than High School	High School/GED	More Than High School
2013*		29.7%	35.1%	38.4%	35.4%	36.5%
2016	34.7%	35.7%	38.4%	34.8%	34.4%	36.8%
2019	37.7%	52.2%	36.0%	36.7%	37.1%	38.2%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 less than high school, no data was collected for this group

Slightly over 50 percent of adults in Collier County with a high school/GED level of education were overweight, this is significantly higher than those with less/more than high school education in 2019. In 2013 and 2016 those with more than a high school level of education had a higher percentage of adults who were overweight.

Exhibit HB11: Percent Adults Who are Overweight, By Education Level in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 less than high school, no data was collected for this group

In 2019 adults in Collier County who made \$25,000 to \$49,999 annually had a higher percentage of adults who were overweight, for Florida adults who made \$50,000 or more annually had a higher percentage of adults who were overweight. Both in Collier County and Florida those making less than \$25,000 a year had the smaller percentage of adults who were overweight.

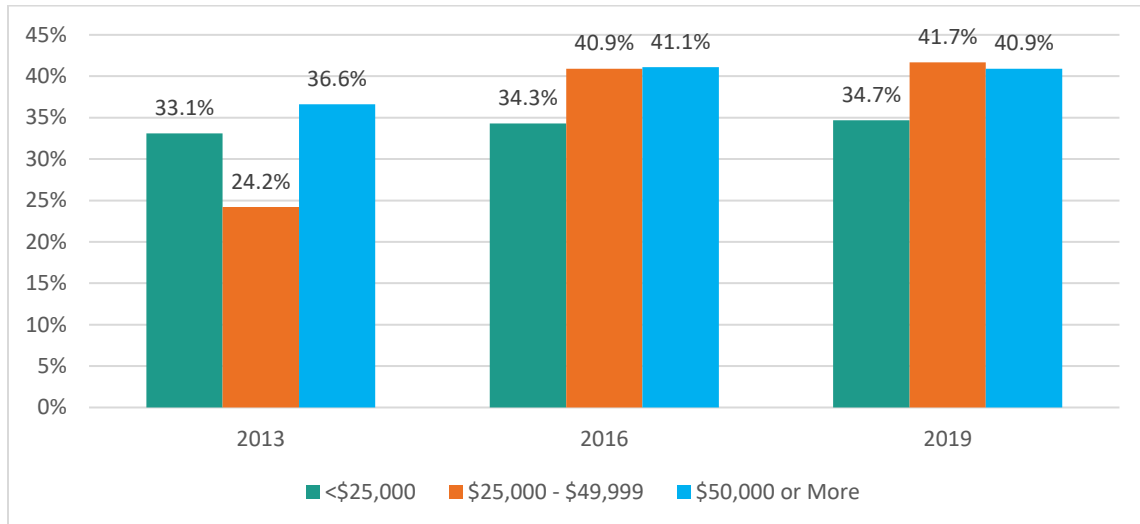
Exhibit HB12: Percent Adults Who are Overweight, By Annual Income in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	<\$25,000	\$25,000 - \$49,999	\$50,000 or More	<\$25,000	\$25,000 - \$49,999	\$50,000 or More
2013	33.1%	24.2%	36.6%	34.8%	37.1%	37.8%
2016	34.3%	40.9%	41.1%	32.2%	36.6%	38.7%
2019	34.7%	41.7%	40.9%	34.7%	35.3%	42.4%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2016 and 2019 adults in Collier County making less than \$25,000 a year had a smaller percentage of adults who were overweight. The \$25,000 to \$49,999 annual income group had an increase in the percentage of adults who were overweight.

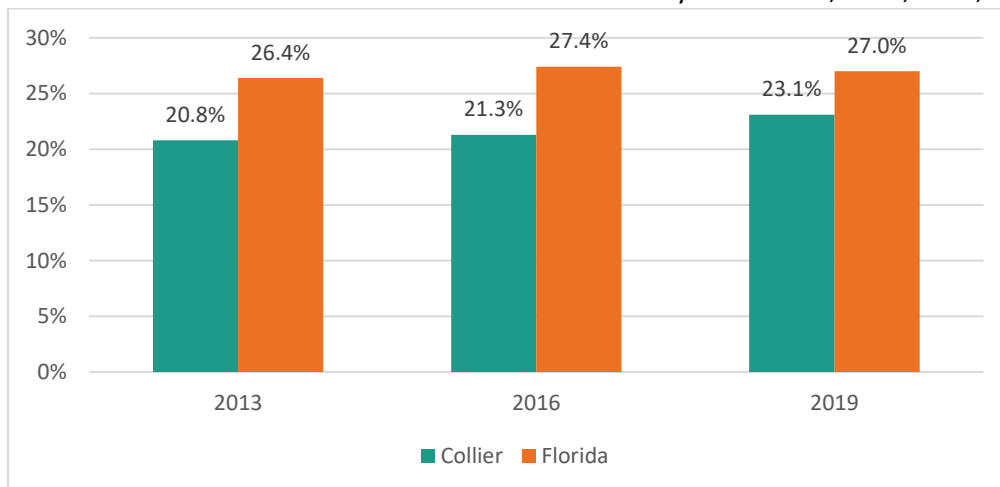
Exhibit HB13: Percent Adults Who are Overweight, By Annual Income Level in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

From 2013 to 2019, the percentage of adults who were obese increased over the past six years in Collier County. Collier County consistently had a smaller percentage of adults who were obese when compared to the Florida average.

Exhibit HB14: Percent of Adults Who are Obese in Collier County and Florida, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, the Non-Hispanic Black population of adults in both Collier County and Florida had the highest percentage of adults who were obese when compared to other races/ethnicities, while the Non-Hispanic white population had the smallest percentage.

Exhibit HB15: Percent of Adults Who are Obese, by Race/Ethnicity in Collier County and Florida, 2013, 2016, and 2019

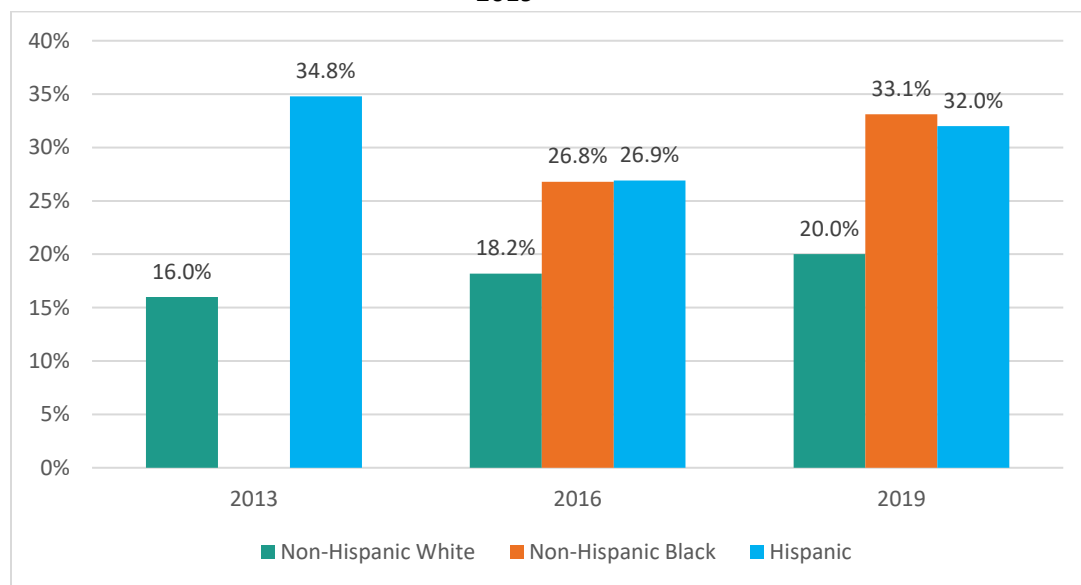
	Collier County			Florida		
	Non-Hispanic White	Non-Hispanic Black	Hispanic	Non-Hispanic White	Non-Hispanic Black	Hispanic
2013*	16.0%		34.8%	25.1%	34.2%	26.4%
2016	18.2%	26.8%	26.9%	26.6%	34.0%	27.3%
2019	20.0%	33.1%	32.0%	25.4%	35.0%	28.2%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

The Non-Hispanic white population of adults in Collier County consistently had a smaller percentage of adults who were obese; this population also saw an increase in the percentage of obese adults as well. In 2013 and 2016 Hispanics had the largest percentage of adults in Collier County who were obese and in 2019 Non-Hispanic Blacks had the largest percentage.

Exhibit HB16: Percent of Adults Who are Obese, by Race/Ethnicity in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

Women in Collier County consistently had a smaller percentage of obesity than the Florida average for women in 2019.

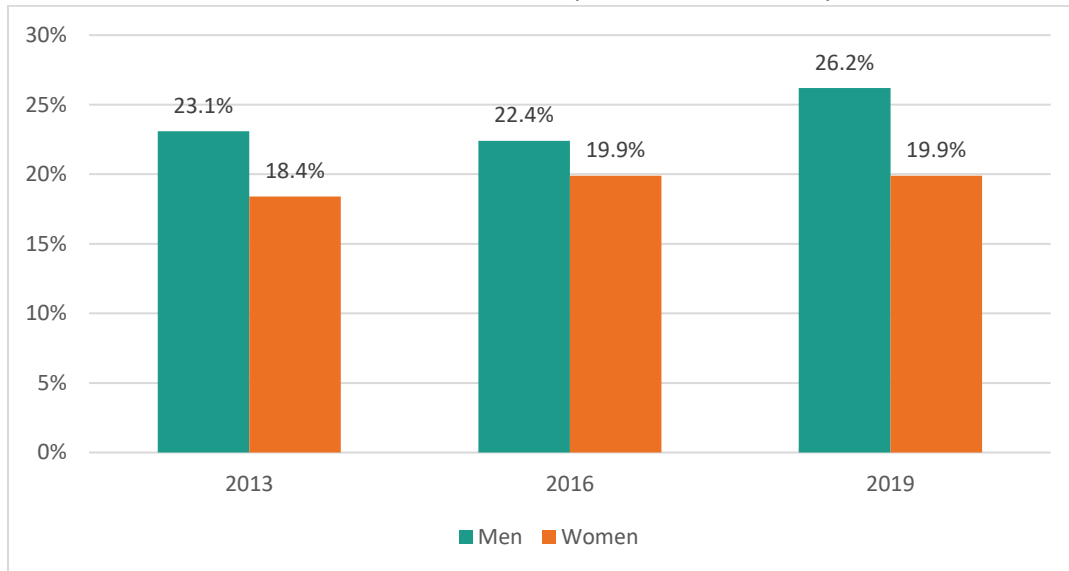
Exhibit HB17: Percent of Adults Who are Obese, by Sex in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Men	Women	Men	Women
2013	23.1%	18.4%	27.5%	25.3%
2016	22.4%	19.9%	28.3%	26.6%
2019	26.2%	19.9%	26.9%	27.2%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, there was a higher percentage of men than women over the past six years who were obese. In 2019, 26 percent of Collier County adult males were considered obese.

Exhibit HB18: Percent of Adults Who are Obese, by Sex in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019 the age group that had the largest percentage of adults who were obese in Collier County was those 18 to 44 and in Florida it was those 45 to 64. The age group that had the smallest percentage in Collier County were those 65 and older, in Florida it was the 18 to 44 age group.

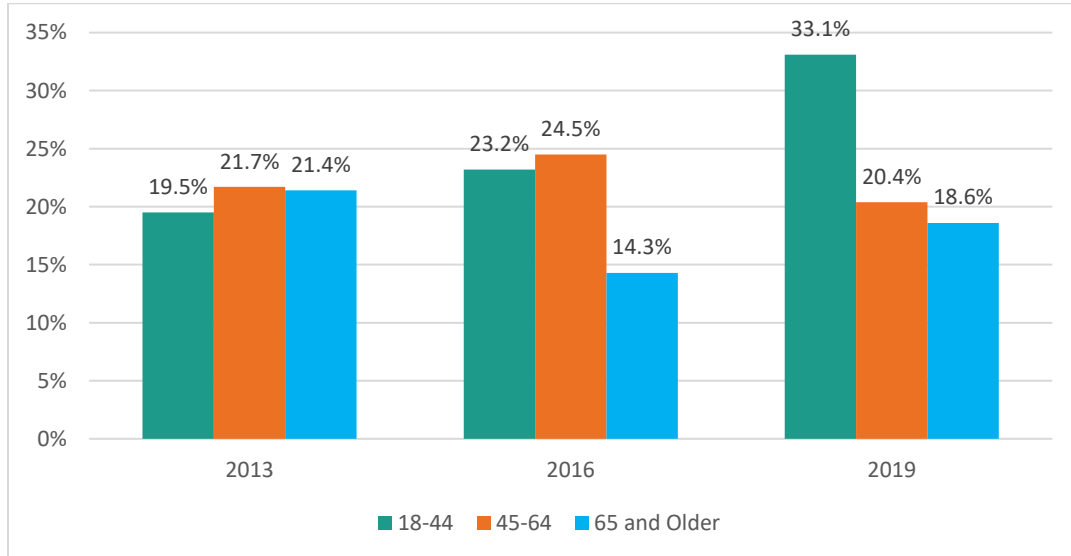
Exhibit HB19: Percent Adults Who are Obese, By Age Group in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	18-44	45-64	65 and Older	18-44	45-64	65 and Older
2013	19.5%	21.7%	21.4%	24.2%	30.3%	24.8%
2016	23.2%	24.5%	14.3%	24.7%	32.1%	25.8%
2019	33.1%	20.4%	18.6%	22.1%	32.6%	27.6%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2013 and 2016, the 45 to 64 age group had the highest percentage of adults who were obese, but in 2019 the 18 to 44 age group dramatically increased the percentage of obese adults.

Exhibit HB20: Percent Adults Who are Obese, By Age Group in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

From 2013 to 2016, married/coupled adults in both Collier County and Florida had a higher percentage of being obese when compared to adults who were not married/coupled. In 2019, adults who were married/coupled had a higher percentage of being obese, but adults in Florida who were not married/coupled had the higher percentage.

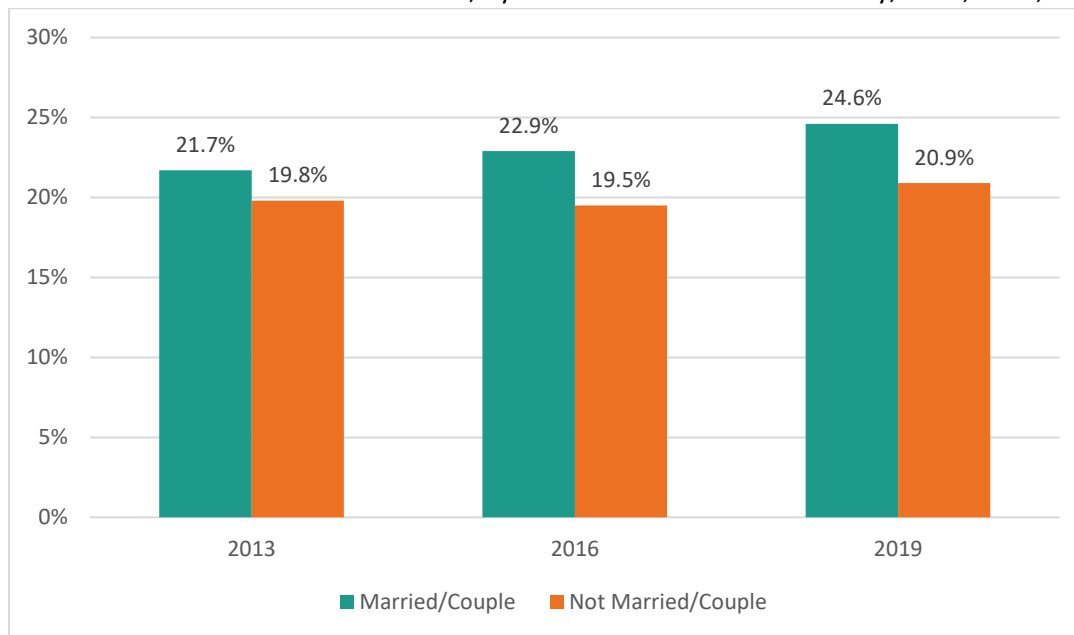
Exhibit HB21: Percent Adults Who are Obese, By Marital Status in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Married/Coupled	Not Married/Coupled	Married/Coupled	Not Married/Coupled
2013	21.7%	19.8%	27.9%	24.7%
2016	22.9%	19.5%	28.7%	26.0%
2019	24.6%	20.9%	26.6%	27.5%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

From 2013 to 2019, the percentage of adults who were obese in Collier County increased amongst those who were married/coupled. When compared to not married/coupled adults in Collier County married/coupled adults had a higher percentage of being obese.

Exhibit HB22: Percent Adults Who are Obese, By Marital Status in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, adults with less than a high school education had the highest percentage of adults who were obese, in Florida adults with a high school/GED level education had the highest percentage.



Exhibit HB23: Percent Adults Who are Obese, By Education Level in Collier County and Florida, 2013, 2016, and 2019

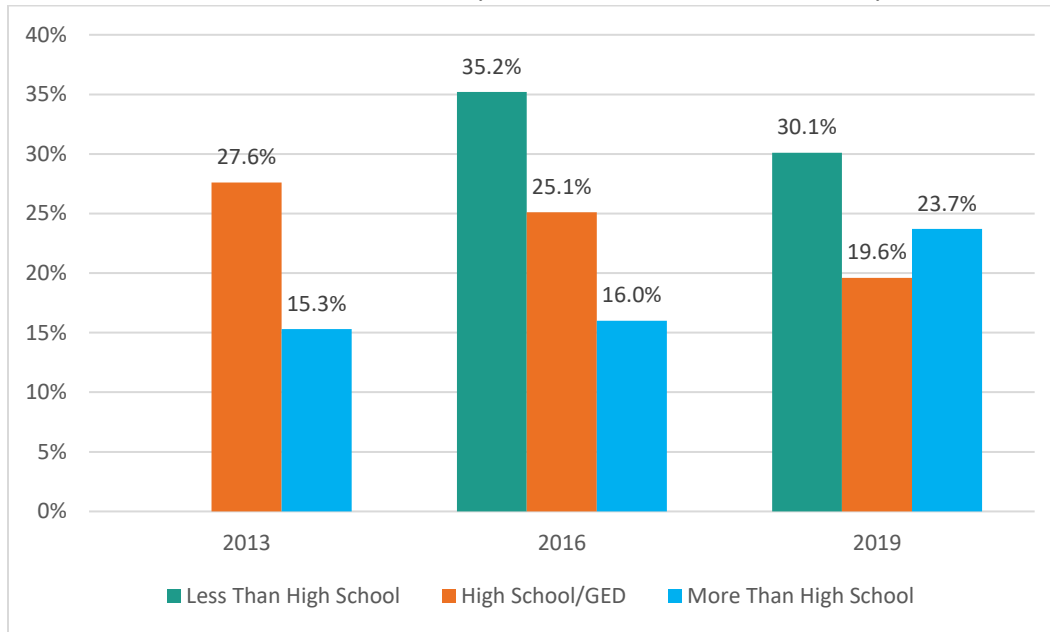
	Collier County			Florida		
	Less Than High School	High School/GED	More Than High School	Less Than High School	High School/GED	More Than High School
2013*		27.6%	15.3%	29.4%	28.4%	24.5%
2016	35.2%	25.1%	16.0%	32.4%	29.7%	25.2%
2019	30.1%	19.6%	23.7%	28.9%	30.3%	25.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 less than high school, no data was collected for this group

In 2019, those adults with less than a high school education had a higher percentage of being obese in Collier County. From 2013 to 2019 there was a decrease in the percentage of adults who were obese with less than high school and high school/GED education level. There was an increase in the obesity percentage among those adults with more than a high school level education.

Exhibit HB24: Percent Adults Who are Obese, By Education Level in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 less than high school, no data was collected for this group

In both Collier County and Florida, from 2013 to 2019, adults making \$50,000 or more annually had a smaller percentage of being obese when compared to adults making less than \$25,000 and \$25,000 to \$49,999 a year.

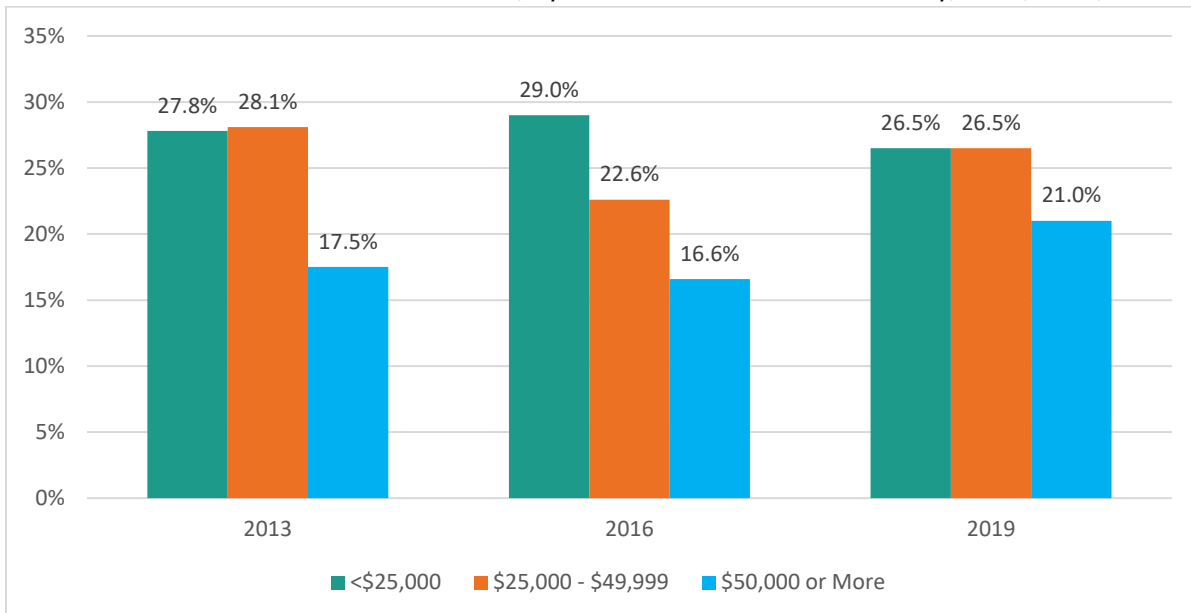
Exhibit HB25: Percent Adults Who are Obese, By Annual Income in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	<\$25,000	\$25,000 - \$49,999	\$50,000 or More	<\$25,000	\$25,000 - \$49,999	\$50,000 or More
2013	27.8%	28.1%	17.5%	29.9%	27.7%	24.6%
2016	29.0%	22.6%	16.6%	31.6%	27.6%	26.2%
2019	26.5%	26.5%	21.0%	30.3%	29.8%	25.0%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2013, adults making \$25,000 to \$49,999 a year had a higher percentage of obese adults and in 2016 adults making less than \$25,000 a year had a higher percentage of obese adults.

Exhibit HB26: Percent Adults Who are Obese, By Annual Income in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

## Tobacco Use

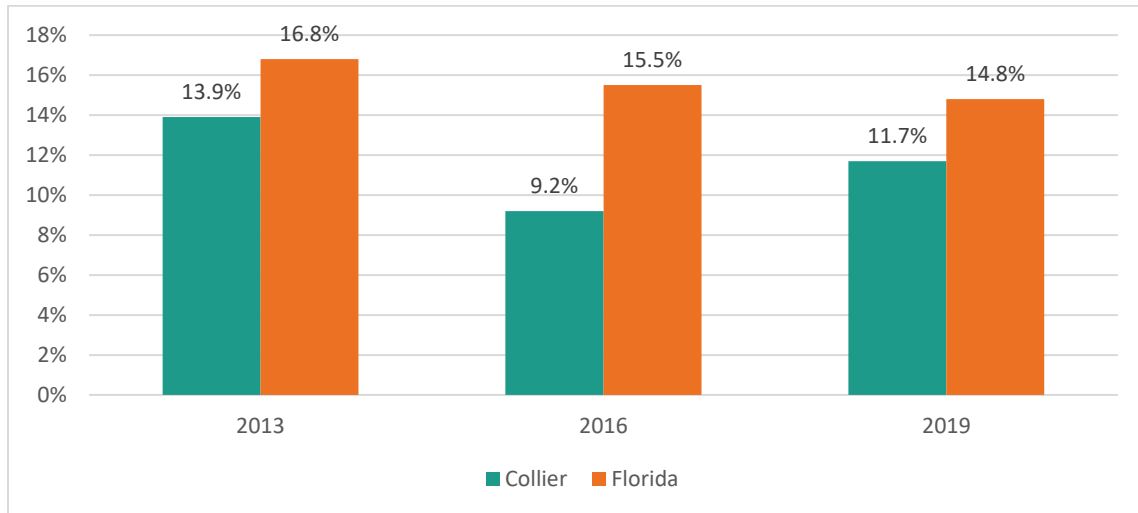
The percentage of the adult population who are current smokers in a community measures the extent of the health risk within that population related to tobacco use and its detrimental effects.

The relationship between the use of tobacco and unfavorable health outcomes and conditions is well documented and scientifically well proven. Cigarette smoking is the leading cause of preventable mortality in the United States and Florida. Smoking has been scientifically associated as a cause in a myriad of illness including numerous cancers, heart diseases and stroke, respiratory diseases, and unfavorable maternal outcomes.

Smoking cessation initiatives and programs are cost-effective public health strategies. Discontinuing tobacco use leads to immediate health benefits at any age and ultimately resulting in an increase in life expectancy.

When compared to Florida, Collier County has had a smaller percentage of adults who are current smokers over the past six years. In 2016, Collier County had its smallest percentage of current adult smokers from 2013 to 2019.

Exhibit HB27: Percent of Adults Who are Current Smokers in Collier County and Florida, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, the Non-Hispanic Black population had the smallest percentage of adults who are current smokers in both Collier County and Florida. In 2013, the Hispanic population in Collier County had the highest percentage of adults who currently smoke out of all races/ethnicities in both Collier County and the State of Florida.

Exhibit HB28: Percent of Adults Who are Current Smokers, by Race/Ethnicity in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	Non-Hispanic White	Non-Hispanic Black	Hispanic	Non-Hispanic White	Non-Hispanic Black	Hispanic
2013*	11.4%		21.7%	18.6%	14.4%	13.9%
2016	10.1%	8.0%	8.2%	17.8%	12.4%	11.7%
2019	12.9%	6.3%	8.5%	16.4%	12.4%	12.6%

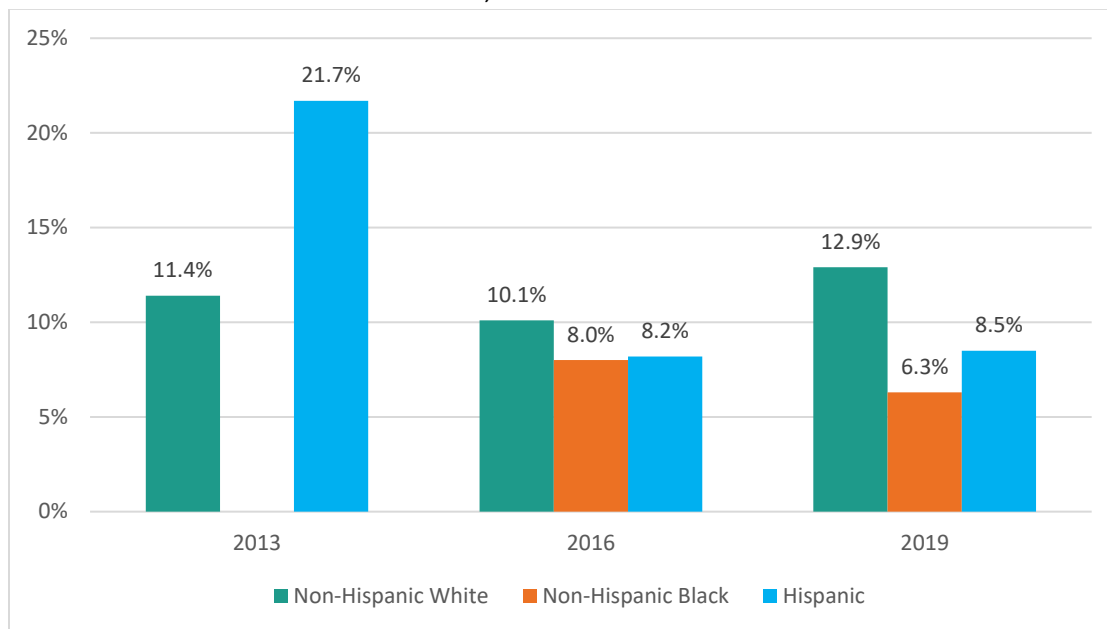
Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

When compared to other races/ethnicities, Non-Hispanic Blacks had the smallest percentage of adults who are current smokers in Collier County. From 2013 to 2016, there was a drastic decrease in the

percentage of Hispanic adult smokers, going from 21.7 percent to 8.2 percent. In 2019, the Non-Hispanic white population had the largest percentage of adults who are current smokers in Collier County.

Exhibit HB29: Percent of Adults Who are Current Smokers, by Race/Ethnicity in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

In both Collier County and Florida, men had a higher percentage of adults who are current smokers when compared to women. Compared to the Florida average from 2013 to 2019 Collier County women had a smaller percentage of current smokers to women in Florida.

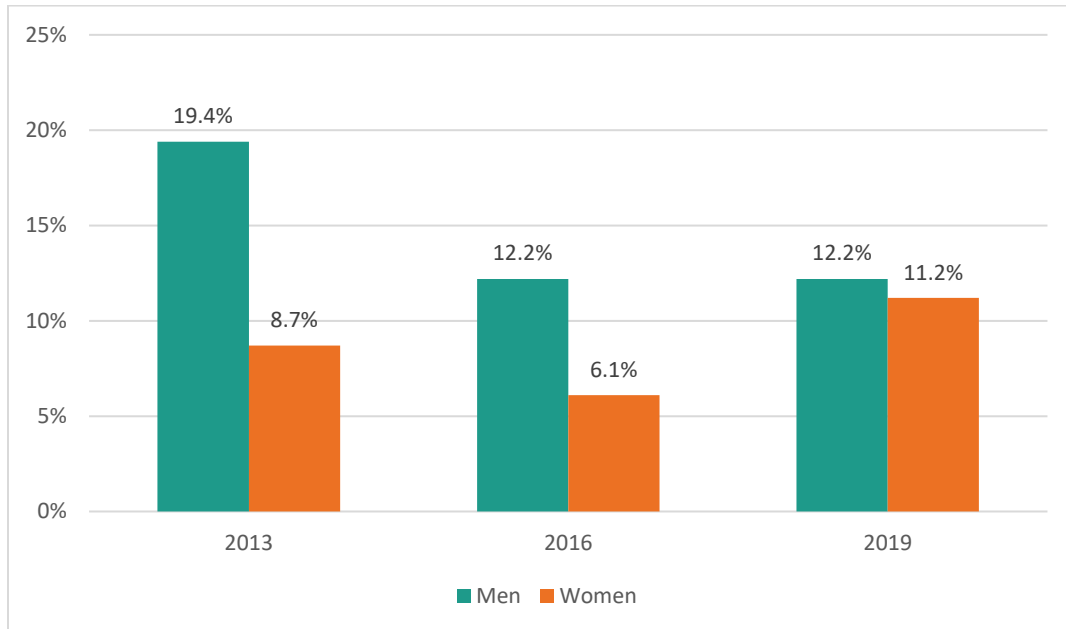
Exhibit HB30: Percent of Adults Who are Current Smokers, by Sex in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Men	Women	Men	Women
2013	19.4%	8.7%	19.5%	14.4%
2016	12.2%	6.1%	17.8%	13.3%
2019	12.2%	11.2%	15.7%	13.9%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

While there is a higher percentage of men than women who were current smokers, the percentage of male current smokers decreased over time. In 2019, Collier County saw its highest percentage of adult women who were current smokers, 11.2 percent.

Exhibit HB31: Percent of Adults Who are Current Smokers, by Sex in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, individuals between the ages of 45 and 64 are most likely to be current smokers. In both Collier County and Florida, there were small increases in the percentage of adults who were current smokers across all age groups between 2016 and 2019.

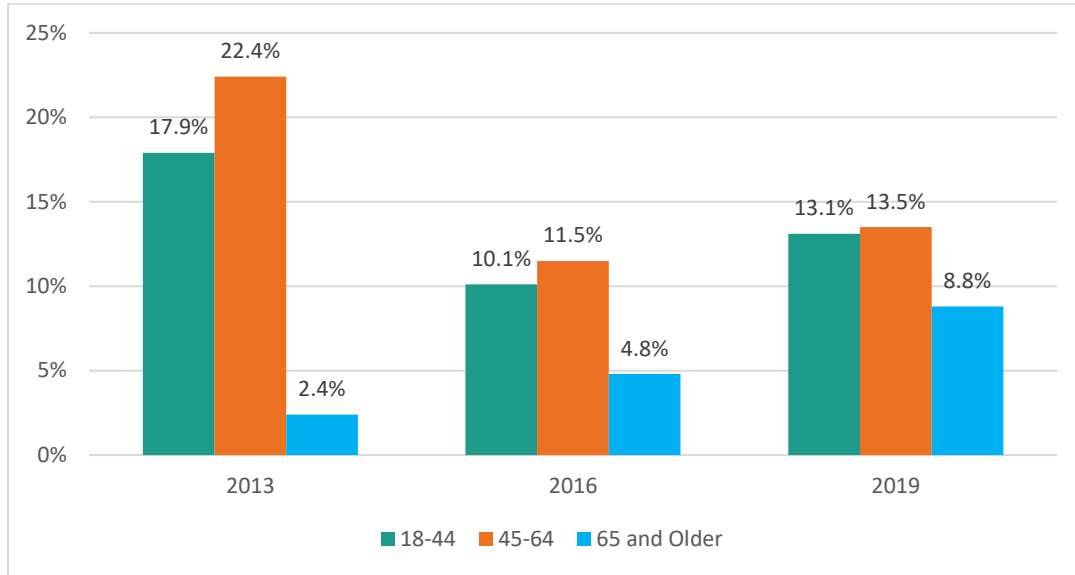
Exhibit HB32: Percent Adults Who are Current Smokers, By Age Group in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	18-44	45-64	65 and Older	18-44	45-64	65 and Older
2013	17.9%	22.4%	2.4%	19.2%	19.8%	8.7%
2016	10.1%	11.5%	4.8%	17.0%	19.0%	8.4%
2019	13.1%	13.5%	8.8%	15.0%	19.6%	9.3%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, individuals over the age of 65 are the least likely to report that they are current smokers. Adults in Collier County between the ages of 45 and 65 have the highest percentage of current smokers.

Exhibit HB33: Percent Adults Who are Current Smokers, By Age Group in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and in Florida, adults who are not married/coupled are more likely to be current smokers than those who are married/coupled.

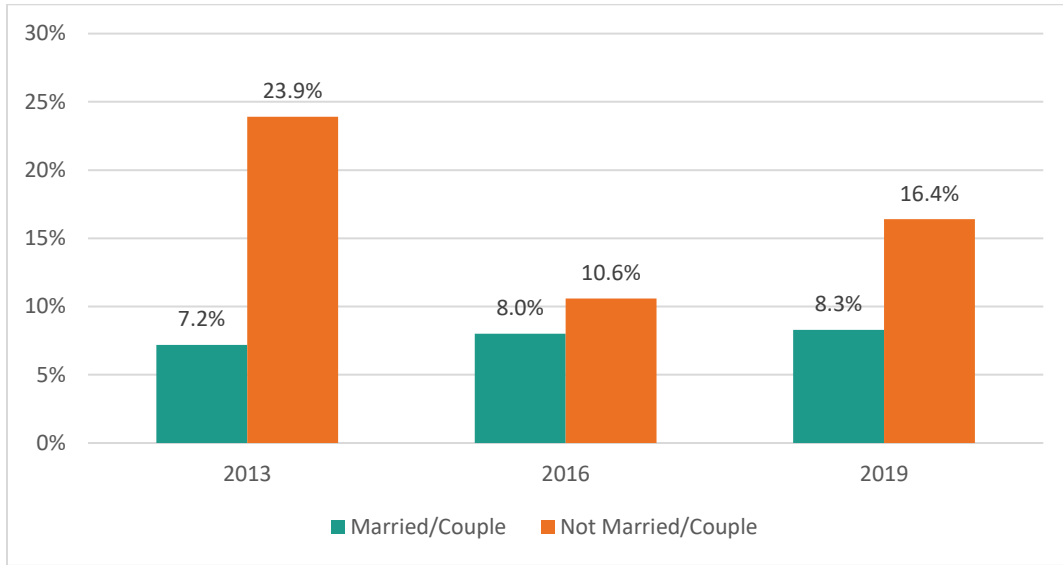
Exhibit HB34: Percent Adults Who are Current Smokers, By Marital Status in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Married/Coupled	Not Married/Coupled	Married/Coupled	Not Married/Coupled
2013	7.2%	23.9%	13.6%	20.8%
2016	8.0%	10.6%	11.6%	19.9%
2019	8.3%	16.4%	11.3%	18.9%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

Between 2013 and 2019 in Collier County, adults who are not married/coupled have consistently had a higher percentage of current smokers. There was a decline in current smokers in this group between 2013 and 2016. Although the percentage increased in 2019, it remains below the 2013 percentage.

Exhibit HB35: Percent Adults Who are Current Smokers, By Marital Status in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, adults who have high levels of education have a lower percentage of current smokers. In 2019, adults with less than a high school education or a high school education in Collier County were twice as likely to be current smokers than adults who have more than a high school education.

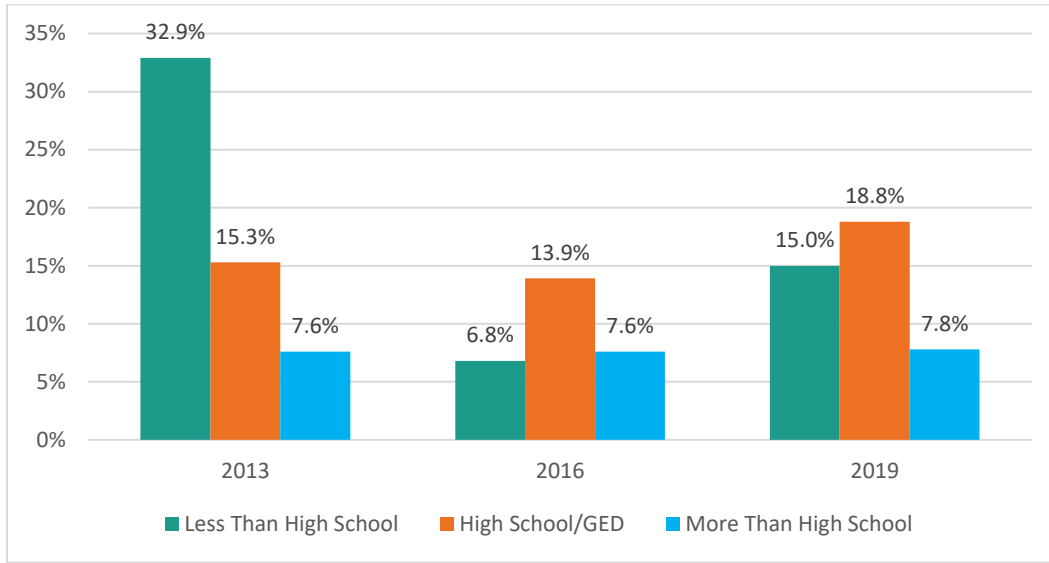
Exhibit HB36: Percent Adults Who are Current Smokers, By Education Level in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	Less Than High School	High School/GED	More Than High School	Less Than High School	High School/GED	More Than High School
2013	32.9%	15.3%	7.6%	24.8%	19.8%	13.1%
2016	6.8%	13.9%	7.6%	25.5%	18.7%	11.5%
2019	15.0%	18.8%	7.8%	23.6%	20.0%	10.2%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, the percentage of adults who stated that they were current smokers varied between 2013 and 2019. However, in each year, the adults with more than a high school education had the lowest percentage of current smokers.

Exhibit HB37: Percent Adults Who are Current Smokers, By Education Level in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and in Florida, adults who have higher incomes consistently report lower percentages of being current smokers than adults with lower incomes. In 2019, more than four times as many adults in Collier County with incomes below \$25,000 reported being current smokers than those with incomes of \$50,000 or more.

Exhibit HB38: Percent Adults Who are Current Smokers, By Annual Income in Collier County and Florida, 2013, 2016, and 2019

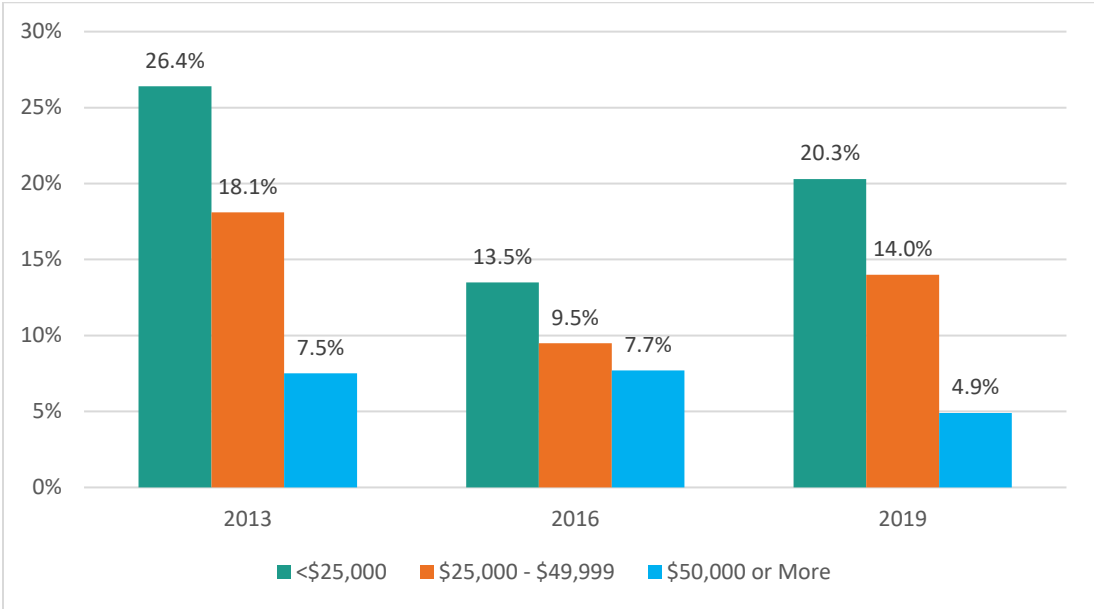
	Collier County			Florida		
	<\$25,000	\$25,000 - \$49,999	\$50,000 or More	<\$25,000	\$25,000 - \$49,999	\$50,000 or More
2013	26.4%	18.1%	7.5%	22.3%	17.7%	11.8%
2016	13.5%	9.5%	7.7%	23.5%	16.5%	10.3%
2019	20.3%	14.0%	4.9%	23.4%	17.9%	9.9%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, the percentage of adults who are current smokers rose slightly in 2019 from 2016, but the percentage remains below the one from 2013. People at lower incomes are consistently more likely to report that they are current smokers than those with higher incomes.



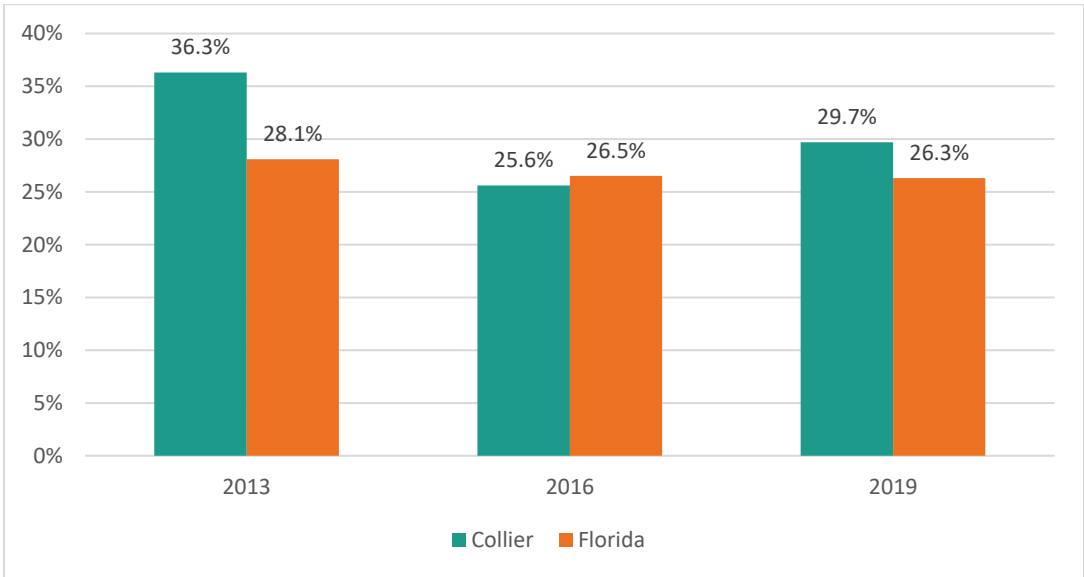
Exhibit HB39: Percent Adults Who are Current Smokers, By Annual Income in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, more adults in Collier County reported that they were former smokers than across Florida (29.7% Collier vs. 26.3% Florida).

Exhibit HB40: Percent of Adults Who are Former Smokers in Collier County and Florida, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, Non-Hispanic white adults have the highest percentage of former smokers and Non-Hispanic Black adults have the lowest percentage of former smokers.

Exhibit HB41: Percent of Adults Who are Former Smokers, by Race/Ethnicity in Collier County and Florida, 2013, 2016, and 2019

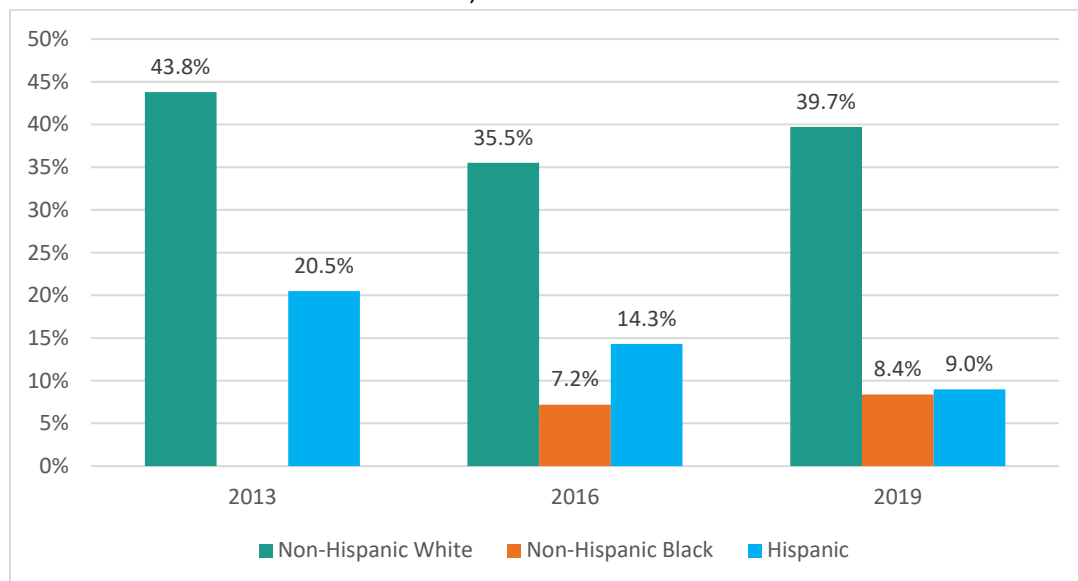
	Collier County			Florida		
	Non-Hispanic White	Non-Hispanic Black	Hispanic	Non-Hispanic White	Non-Hispanic Black	Hispanic
2013*	43.8%		20.5%	35.6%	14.0%	19.3%
2016	35.5%	7.2%	14.3%	33.7%	11.5%	19.7%
2019	39.7%	8.4%	9.0%	33.9%	14.2%	17.0%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

As with current smokers, the percentage of former smokers for Collier County decreased from 2013 to 2016 and then increased in 2019, but both 2016 and 2019 percentages were still lower than 2013. Non-Hispanic white adults are significantly more likely than the other race/ethnicity groups to state that they were former smokers.

Exhibit HB42: Percent of Adults Who are Former Smokers, by Race/Ethnicity in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

In both Collier County and Florida, a higher percentage of men than women are former smokers. In 2019, the percentage of former smokers among men were similar in Collier County and Florida. The percentage of former smokers among women is higher in Collier County than Florida (29.6% Collier vs. 23.3% Florida).

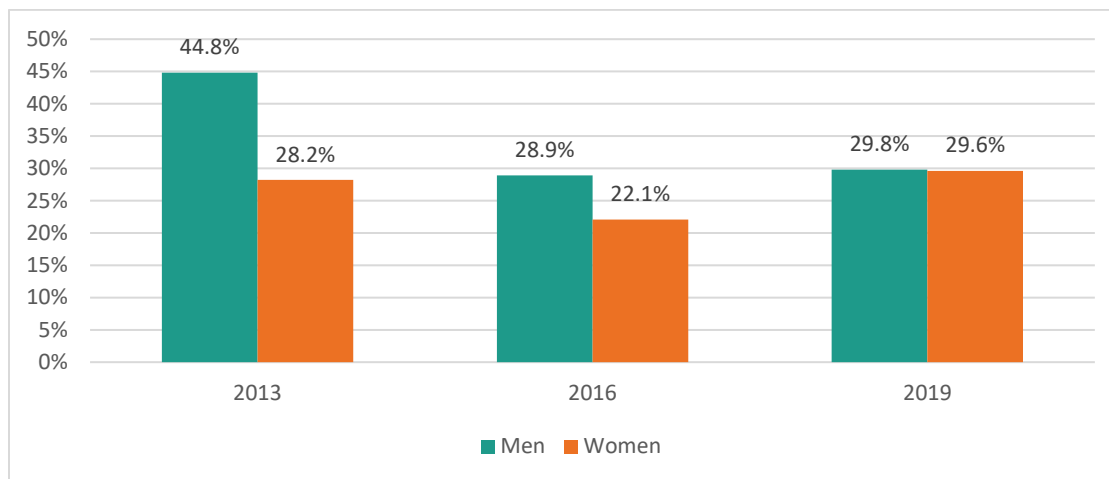
Exhibit HB43: Percent of Adults Who are Former Smokers, by Sex in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Men	Women	Men	Women
2013	44.8%	28.2%	31.6%	24.9%
2016	28.9%	22.1%	30.9%	22.4%
2019	29.8%	29.6%	29.5%	23.3%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

The percentage of adult men in Collier County who reported being former smokers decreased significantly between 2013 and 2016; it rose slightly in 2019 but remained significantly below the percentage from 2013. The percentage of women in Collier County who reported being former smokers is higher in 2019 than in either 2013 or 2016.

Exhibit HB44: Percent of Adults Who are Former Smokers, by Sex in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, the percentage of adults who are former smokers increases with age; those who are over 65 are significantly more likely to be former smokers than those who are 45-65 or 18-44. In 2019, Collier County had lower percentages of former smokers than Florida among adults ages 18-44 and 45-64 and higher percentages of former smokers than Florida among those aged 65 and older.

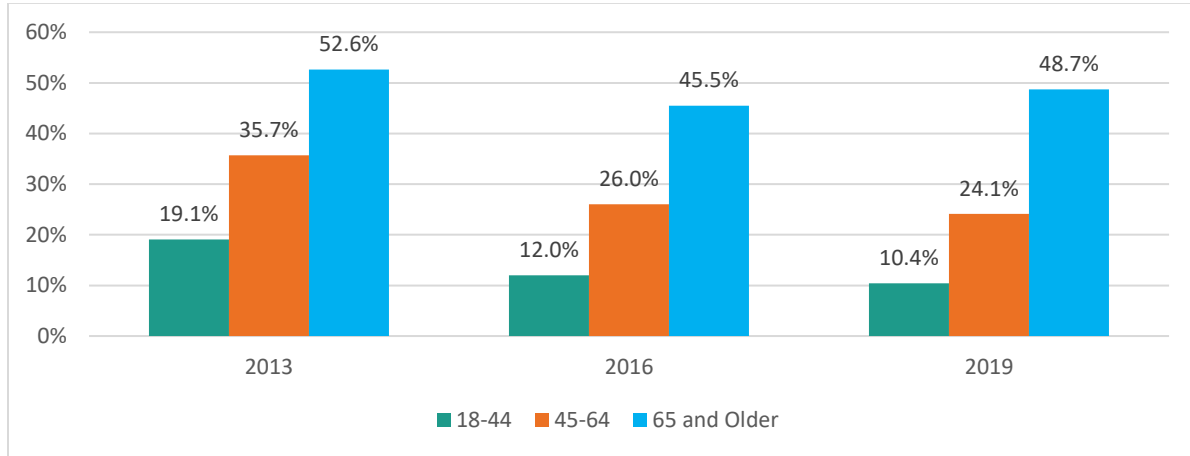
Exhibit HB45: Percent Adults Who are Former Smokers, By Age Group in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	18-44	45-64	65 and Older	18-44	45-64	65 and Older
2013	19.1%	35.7%	52.6%	15.6%	30.3%	47.4%
2016	12.0%	26.0%	45.5%	15.3%	27.1%	44.2%
2019	10.4%	24.1%	48.7%	14.4%	27.7%	42.8%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

Across time in Collier County, the lowest percentages of former smokers are found among those 18-44 and the highest percentages of former smokers are in those aged 65 and older.

Exhibit HB46: Percent Adults Who are Former Smokers, By Age Group in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, a higher percentage of adults who are married/coupled than those who are not married/coupled are former smokers. In 2019, more adults who are married/coupled in Collier County than in Florida reported being former smokers (35.5% Collier vs. 29.6% Florida).

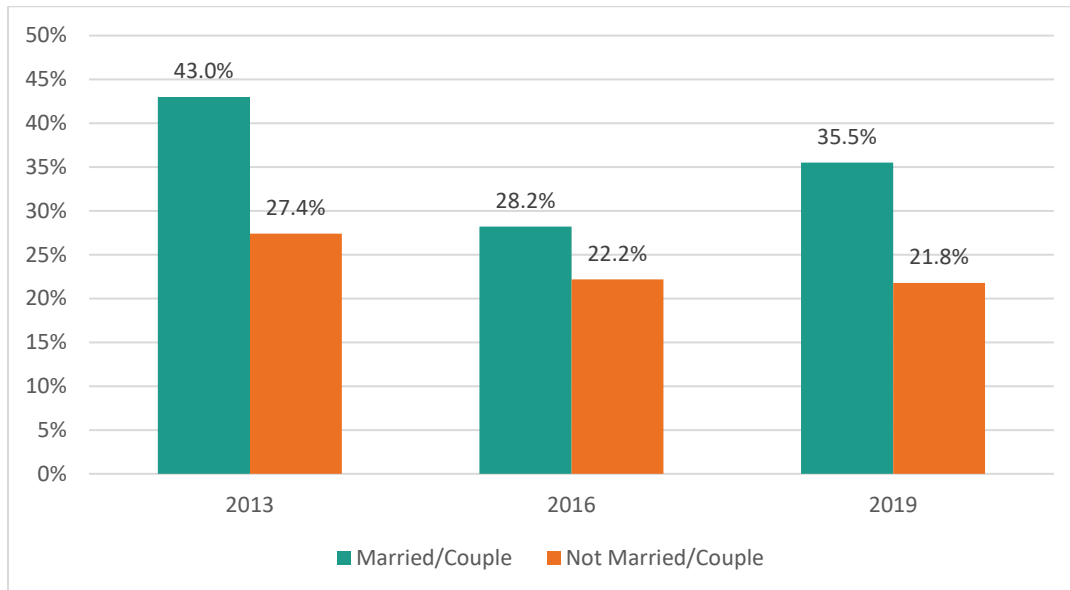
Exhibit HB47: Percent Adults Who are Former Smokers, By Marital Status in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Married/Coupled	Not Married/Coupled	Married/Coupled	Not Married/Coupled
2013	43.0%	27.4%	32.0%	23.7%
2016	28.2%	22.2%	30.7%	21.7%
2019	35.5%	21.8%	29.6%	22.4%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, a higher percentage of adults who were married/coupled or not married/coupled stated that they were former smokers in 2013 than in 2016 or 2019. Consistently a higher percentage of adults who are married/coupled in Collier County, than those who are not married/coupled state that they are former smokers.

Exhibit HB48: Percent Adults Who are Former Smokers, By Marital Status in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, adults with higher levels of education reported being former smokers at higher percentages than those with lower levels of education in 2013-2019. In Florida, the percentages were more similar among the various educational levels and did not show as clear of a pattern.

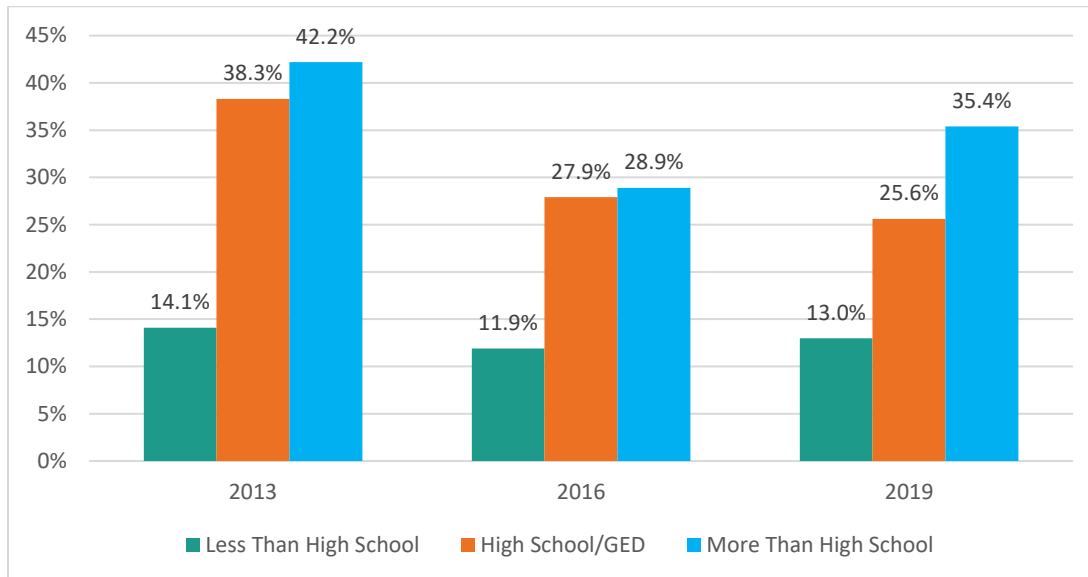
Exhibit HB49: Percent Adults Who are Former Smokers, By Education Level in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	Less Than High School	High School/GED	More Than High School	Less Than High School	High School/GED	More Than High School
2013	14.1%	38.3%	42.2%	25.7%	27.7%	29.1%
2016	11.9%	27.9%	28.9%	22.9%	25.9%	27.8%
2019	13.0%	25.6%	35.4%	24.2%	27.8%	26.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2013-2019, the highest percentages of former smokers in Collier County were among adults with more than a high school education and the lowest percentages of former smokers were among those with less than a high school education.

Exhibit HB50: Percent Adults Who are Former Smokers, By Education Level in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, adults with higher levels of annual income reported being former smokers at higher percentages than those with lower levels of annual income in 2013-2019. In Florida, the percentages were more similar among the various income levels and did not show as clear of a pattern.

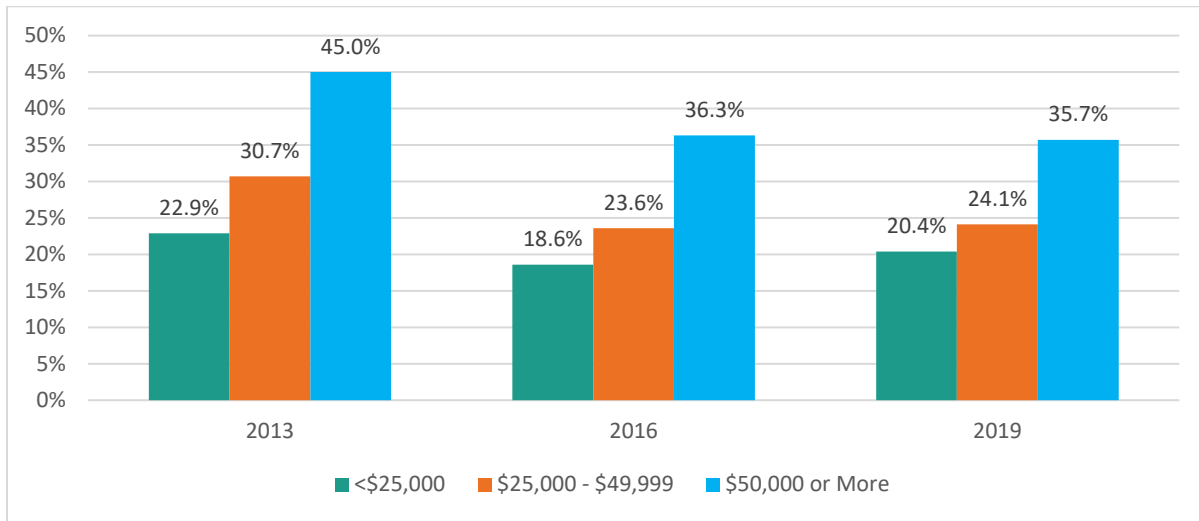
Exhibit HB51: Percent Adults Who are Former Smokers, By Annual Income in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	<\$25,000	\$25,000 - \$49,999	\$50,000 or More	<\$25,000	\$25,000 - \$49,999	\$50,000 or More
2013	22.9%	30.7%	45.0%	23.9%	31.9%	30.0%
2016	18.6%	23.6%	36.3%	23.2%	27.1%	30.0%
2019	20.4%	24.1%	35.7%	24.1%	29.0%	27.8%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2013-2019, the highest percentages of former smokers in Collier County were among adults with an income of \$50,000 or more and the lowest percentages of former smokers were among those with an income of less than \$25,000.

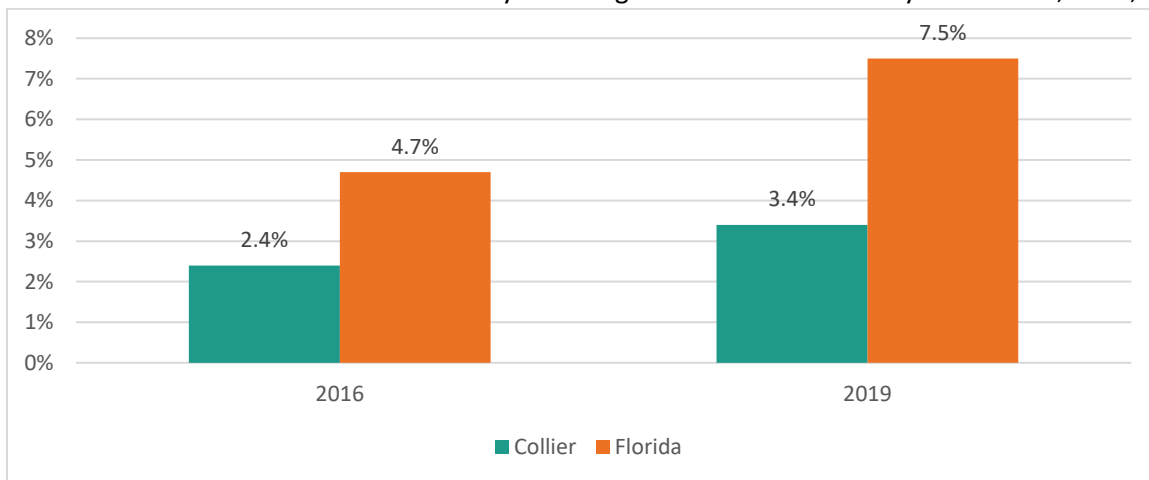
Exhibit HB52: Percent Adults Who are Former Smokers, By Annual Income in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

The usage of e-cigarettes was not tracked as a part of the BRFSS in 2013, so data is only available for 2016 and 2019. In both Collier County and Florida, the percentage of adults currently using e-cigarettes increased between 2016 and 2019. In 2019, the percentage of adults using e-cigarettes in Collier County was lower than in Florida (3.4% Collier vs. 7.5% Florida).

Exhibit HB53: Percent of Adults who Currently use E-Cigarettes in Collier County and Florida, 2016, 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County in 2019, a higher percentage of Non-Hispanic Black adults used e-cigarettes than the other race/ethnicity groups; however, the percentage for each group is under five percent. In Florida, Non-Hispanic white adults report using e-cigarette at a higher percentage than the other race/ethnicity groups.

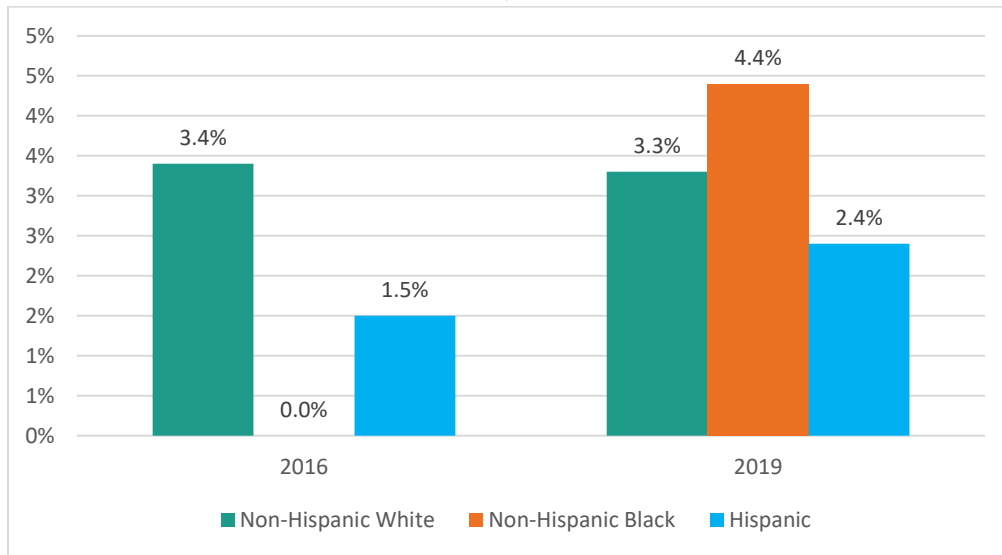
Exhibit HB54: Percent of Adults who Currently use E-Cigarettes, by Race/Ethnicity in Collier County and Florida, 2016, 2019

	Collier County			Florida		
	Non-Hispanic White	Non-Hispanic Black	Hispanic	Non-Hispanic White	Non-Hispanic Black	Hispanic
2016	3.4%	0.0%	1.5%	5.7%	2.8%	3.4%
2019	3.3%	4.4%	2.4%	8.6%	4.0%	6.3%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

The largest increase in e-cigarette usage between 2016 and 2019 in Collier County was among Non-Hispanic Black individuals; the percentage increased from 0.0 percent in 2016 to 4.4 percent in 2019.

Exhibit HB55: Percent of Adults who Currently use E-Cigarettes, by Race/Ethnicity in Collier County, 2016, 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and in Florida, a higher percentage of men than women reported that they currently use e-cigarettes. Both the men and women in Collier County current use e-cigarettes at a lower percentage than the Florida average.

Exhibit HB56: Percent of Adults who Currently use E-Cigarettes, by Sex in Collier County and Florida, 2016, 2019

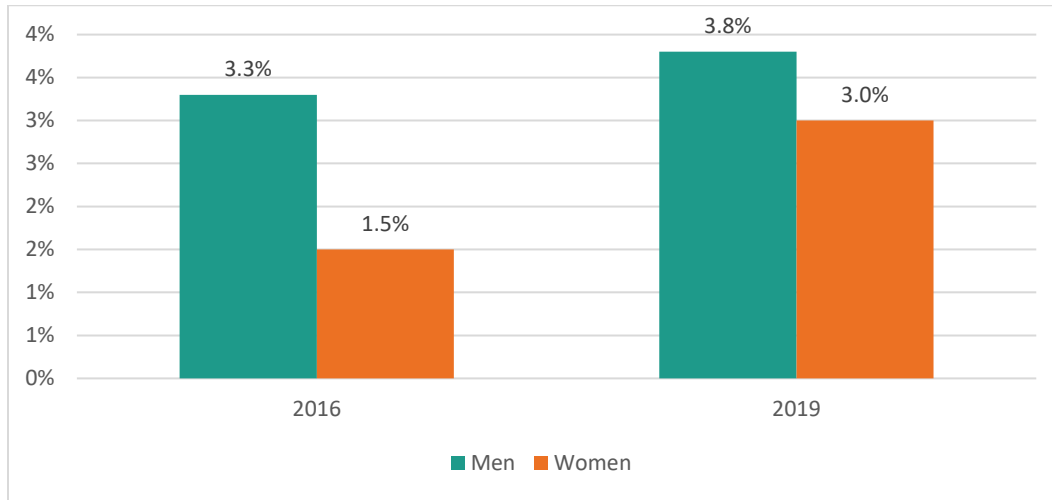
	Collier County		Florida	
	Men	Women	Men	Women
2016	3.3%	1.5%	5.6%	3.9%
2019	3.8%	3.0%	8.4%	6.7%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion



A higher percentage of men than women in Collier County currently use e-cigarettes; however, the women showed a higher percentage increase between 2016 and 2019.

Exhibit HB57: Percent of Adults who Currently use E-Cigarettes, by Sex in Collier County, 2016, 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, adults between the ages of 18 and 44 use e-cigarette at higher rates than older adults. Only 0.1 percent of adults over the age of 65 in Collier County reported using e-cigarettes in 2019.

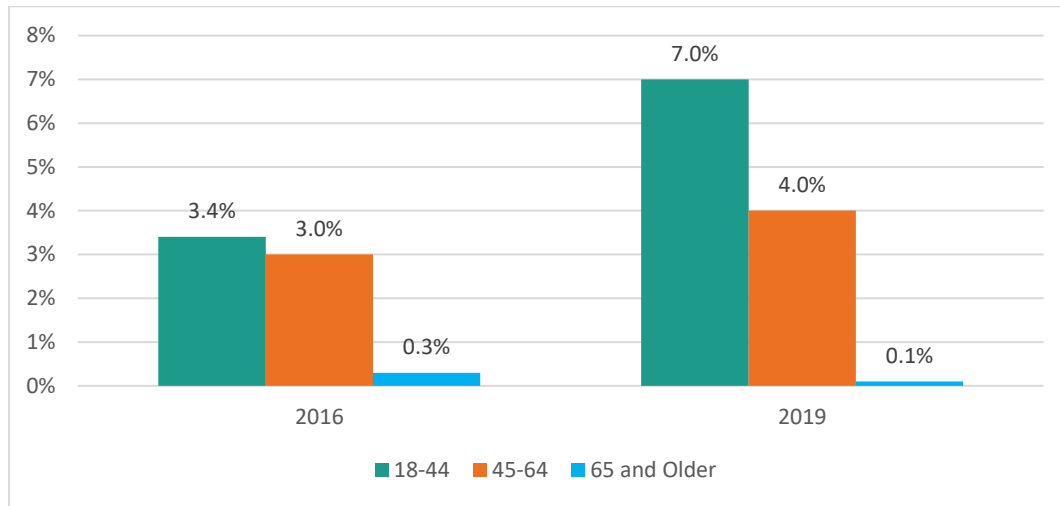
Exhibit HB58: Percent of Adults who Currently use E-Cigarettes, by Age Group in Collier County and Florida, 2016, 2019

	Collier County			Florida		
	18 – 44	45 – 64	65 and Older	18 – 44	45 – 64	65 and Older
2016	3.4%	3.0%	0.3%	7.0%	4.3%	1.4%
2019	7.0%	4.0%	0.1%	13.2%	5.9%	1.7%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

A higher percentage of adults in Collier County between the ages of 18 and 44 use e-cigarettes than older adults in the county; that age group also showed the highest percentage increase in usage between 2016 and 2019.

Exhibit HB59: Percent of Adults who Currently use E-Cigarettes, by Age Group in Collier County, 2016, 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, a higher percentage of adults who are not married/coupled use e-cigarettes than those who are married/coupled.

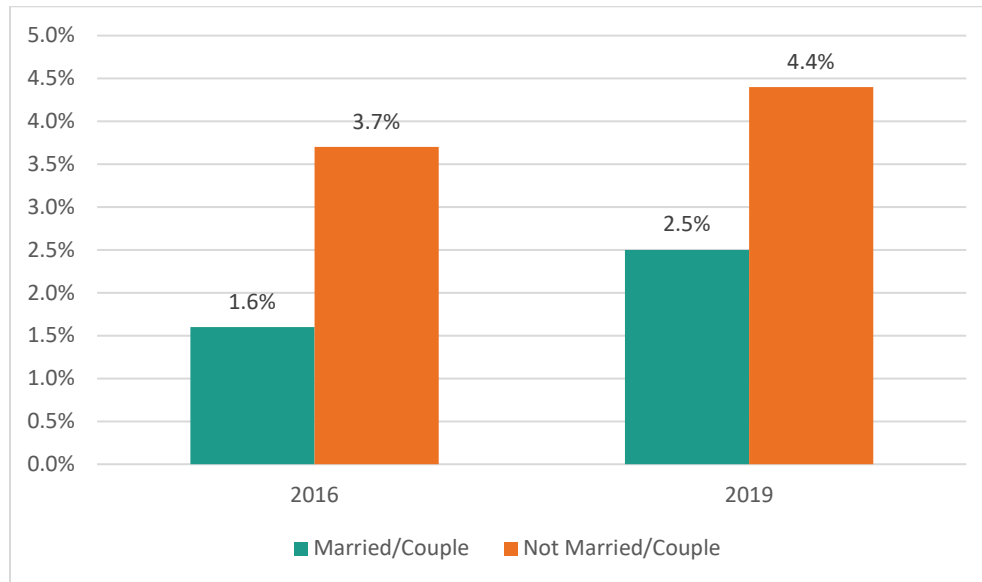
Exhibit HB60: Percent of Adults who Currently use E-Cigarettes, by Marital Status in Collier County and Florida, 2016, 2019

	Collier County		Florida	
	Married/Coupled	Not Married/Coupled	Married/Coupled	Not Married/Coupled
2016	1.6%	3.7%	3.3%	6.4%
2019	2.5%	4.4%	6.1%	9.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, there was an increase in the percent of adults who use e-cigarettes between 2016 and 2019 among those who are married/coupled or not married/coupled.

Exhibit HB61: Percent of Adults who Currently use E-Cigarettes, by Marital Status in Collier County, 2016, 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, in 2019, there was very little variation in the percent of adults who currently use e-cigarettes when broken down by education level.

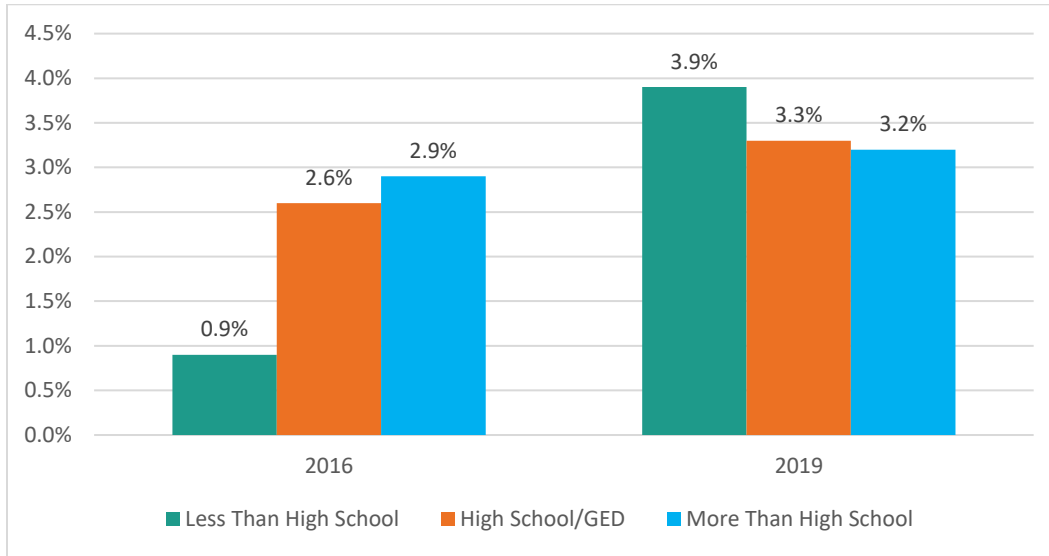
Exhibit HB62: Percent of Adults who Currently use E-Cigarettes, by Education Level in Collier County and Florida, 2016, 2019

	Collier County			Florida		
	Less Than High School	High School/GED	More Than High School	Less Than High School	High School/GED	More Than High School
2016	0.9%	2.6%	2.9%	4.6%	6.1%	4.0%
2019	3.9%	3.3%	3.2%	7.0%	7.5%	7.6%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, adults in Collier County who had less than a high school education were slightly more likely to use e-cigarettes than those with a high school education and those with more than a high school education, although the differences were less than one percent. A higher percentage of adults at all educational levels used e-cigarettes in 2019 than 2016.

Exhibit HB63: Percent of Adults who Currently use E-Cigarettes, by Education Level in Collier County, 2016, 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, a higher percentage of adults with an annual income of less than \$25,000 currently use e-cigarettes than those with higher incomes. In Florida for 2019, the trend was the opposite; the highest percentage of current users of e-cigarettes are among those with incomes of \$50,000 or more.

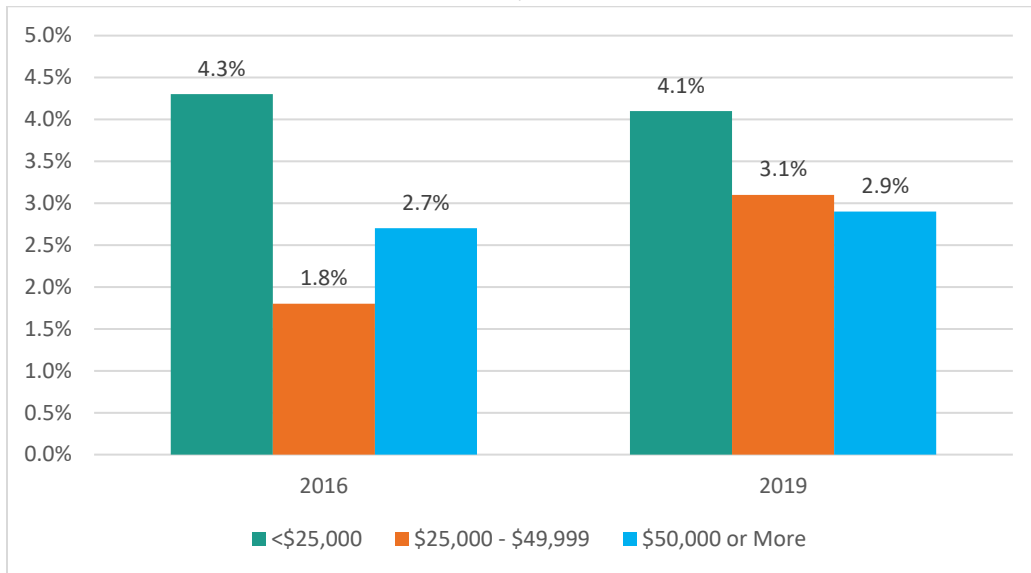
Exhibit HB64: Percent of Adults who Currently use E-Cigarettes, by Annual Income in Collier County and Florida, 2016, 2019

	Collier County			Florida		
	<\$25,000	\$25,000 - \$49,999	\$50,000 or More	<\$25,000	\$25,000 - \$49,999	\$50,000 or More
2016	4.3%	1.8%	2.7%	6.1%	5.3%	4.7%
2019	4.1%	3.1%	2.9%	5.9%	8.5%	8.6%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County, the percentage of adults who currently use e-cigarettes is below five percent for adults at all income levels. In 2019, adults in Collier County with lower income levels were slightly more likely to use e-cigarettes than those at higher income levels.

Exhibit HB65: Percent of Adults who Currently use E-Cigarettes, by Annual Income in Collier County, 2016, 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

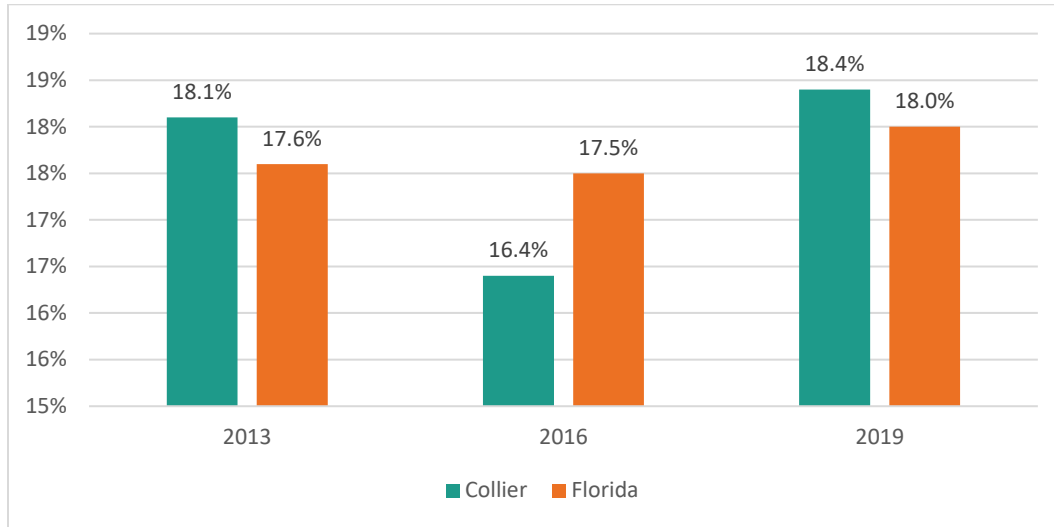
## Alcohol Use

Excessive alcohol consumption is a risk factor for numerous adverse health conditions and outcomes. Consumption of alcohol in excessive quantities can lead to alcohol poisoning, hypertension, heart disease, fetal alcohol syndrome, as well as violence and sexually transmitted diseases.

A strong association exists between alcohol consumption and alcohol-impaired driving. Data indicates that binge and heavy drinkers consistently account for most instances of alcohol-impaired driving. Alcohol-related motor vehicle collisions constitute a significant portion, if not a majority of the alcohol related deaths, depending upon the age-group.

In 2019, a slightly higher percentage of adults in Collier County than Florida reported engaging in heavy or binge drinking (18.4% Collier vs. 18.0% Florida). In both Collier County and Florida, the percentage of adults who engage in heavy or binge drinking was slightly higher in 2019 than it had been in 2013 or 2016.

Exhibit HB66: Percent of Adults Who Engage in Heavy or Binge Drinking in Collier County and Florida, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In both Collier County and Florida, the race/ethnic group with the lowest percentage of adults who engage in heavy or binge drinking is the Non-Hispanic Black population and the race/ethnic group with the highest percentage of adults who engage in heavy or binge drinking is the Non-Hispanic white population.

Exhibit HB67: Percent of Adults Who Engage in Heavy or Binge Drinking, by Race/Ethnicity in Collier County and Florida, 2013, 2016, and 2019

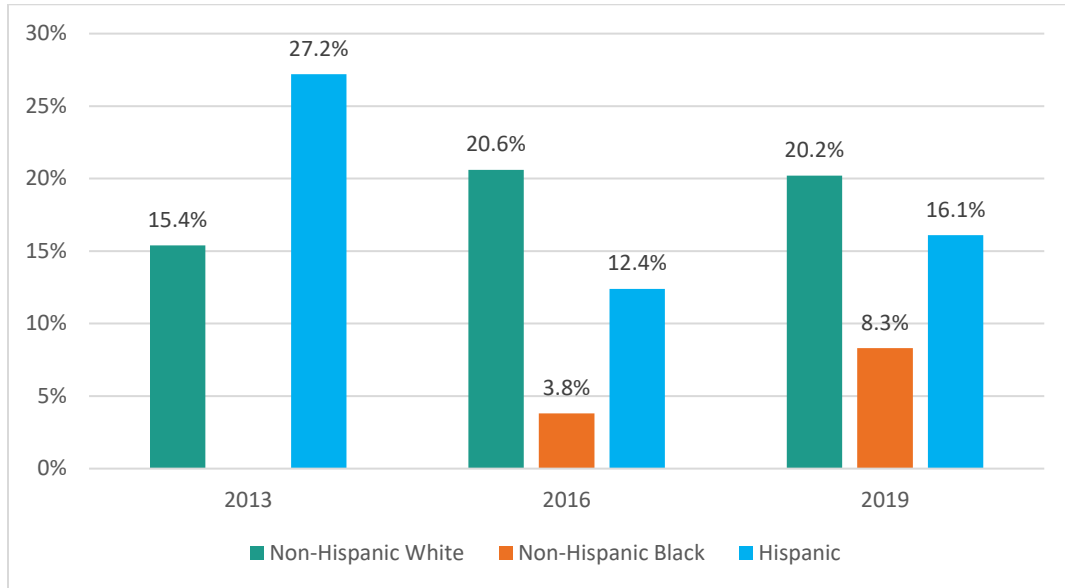
	Collier County			Florida		
	Non-Hispanic White	Non-Hispanic Black	Hispanic	Non-Hispanic White	Non-Hispanic Black	Hispanic
2013*	15.4%		27.2%	17.6%	14.0%	19.6%
2016	20.6%	3.8%	12.4%	19.6%	12.3%	16.1%
2019	20.2%	8.3%	16.1%	19.8%	14.3%	17.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

In Collier County, the race/ethnic group with the lowest percentage of adults who engage in heavy or binge drinking is the Non-Hispanic Black population and the race/ethnic group with the highest percentage of adults who engage in heavy or binge drinking is the Non-Hispanic white population. However, between 2016 and 2019, the percentage of Non-Hispanic Black and Hispanic adults who engage in heavy or binge drinking increased while the percentage among Non-Hispanic white adults decreased slightly.

Exhibit HB68: Percent of Adults Who Engage in Heavy or Binge Drinking, by Race/Ethnicity in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

In both Collier County and Florida, a higher percentage of men than women engage in heavy or binge drinking.

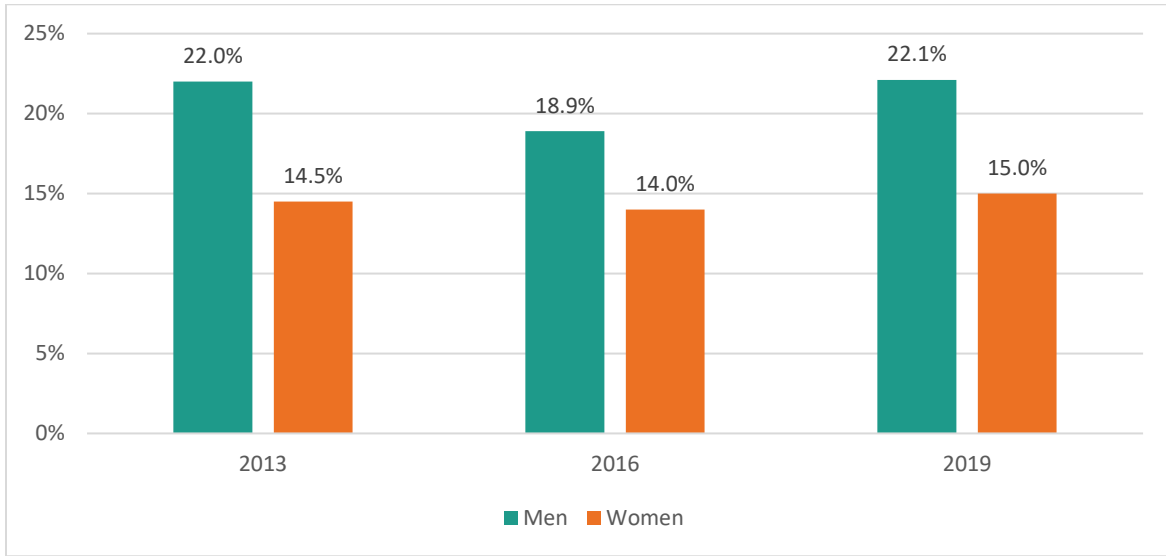
Exhibit HB69: Percent of Adults Who Engage in Heavy or Binge Drinking, by Sex in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Men	Women	Men	Women
2013	22.0%	14.5%	23.4%	12.2%
2016	18.9%	14.0%	21.7%	13.7%
2019	22.1%	15.0%	21.2%	15.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

Over the past six years men had a higher percentage of those who engage in heavy or binge drinking when compared to women. In 2016, both men and women had the lowest percentage of adults who engage in heavy or binge drinking in Collier County.

Exhibit HB70: Percent of Adults Who Engage in Heavy or Binge Drinking, by Sex in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In the 18 to 44 year age group, Collier County had a smaller percentage of adults who engaged in heavy or binge drinking when compared to the Florida average, but those who were 65 and older in Collier County had a higher percentage than the Florida average.

Exhibit HB71: Percent Adults Who Engage in Heavy or Binge Drinking, By Age Group in Collier County and Florida, 2013, 2016, and 2019

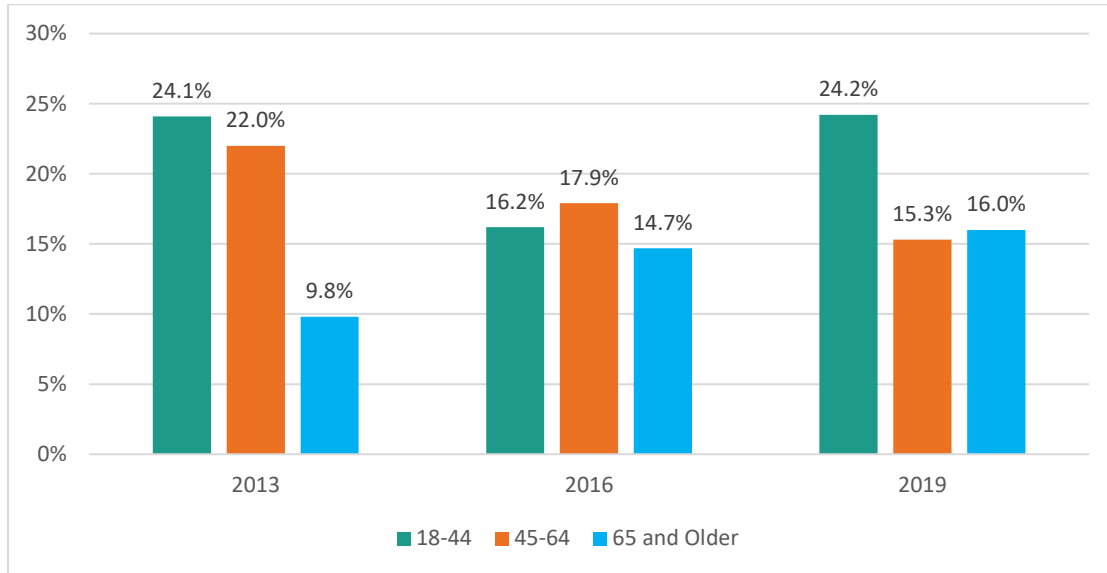
	Collier County			Florida		
	18-44	45-64	65 and Older	18-44	45-64	65 and Older
2013	24.1%	22.0%	9.8%	24.2%	16.9%	7.2%
2016	16.2%	17.9%	14.7%	23.1%	17.2%	8.7%
2019	24.2%	15.3%	16.0%	24.5%	17.9%	9.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

Those who were in the 18 to 44 year age group in Collier County had the highest percentage of adults who engaged in heavy or binge drinking in 2013 and 2019.



Exhibit HB72: Percent Adults Who Engage in Heavy or Binge Drinking, By Age Group in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2013 and 2019 adults who were not married/coupled had a higher percentage of engaging in heavy or binge drinking in both Collier County and Florida when compared to adults who are married/coupled.

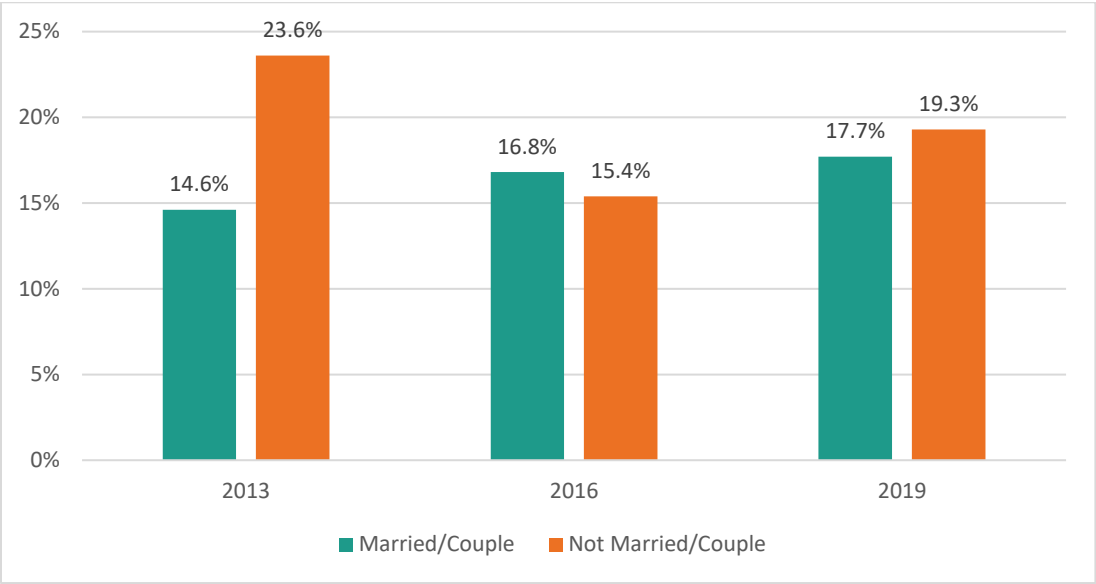
Exhibit HB73: Percent Adults Who Engage in Heavy or Binge Drinking, By Marital Status in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Married/Coupled	Not Married/Coupled	Married/Coupled	Not Married/Coupled
2013	14.6%	23.6%	14.9%	20.9%
2016	16.8%	15.4%	16.6%	18.8%
2019	17.7%	19.3%	16.3%	20.2%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

From 2013 to 2019, there was an increase in the percentage of married/coupled adults who engaged in heavy or binge drinking in Collier County. 2019 was the highest year for adults who were married/coupled that engaged in heavy or binge drinking.

Exhibit HB74: Percent Adults Who Engage in Heavy or Binge Drinking, By Marital Status in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, adults in Collier County with a high school education engaged in heavy or binge drinking more than the Florida average, while a lower percentage of those with less than a high school education engaged in heavy or binge drinking than the Florida average.

Exhibit HB75: Percent Adults Who Engage in Heavy or Binge Drinking, By Education Level in Collier County and Florida, 2013, 2016, and 2019

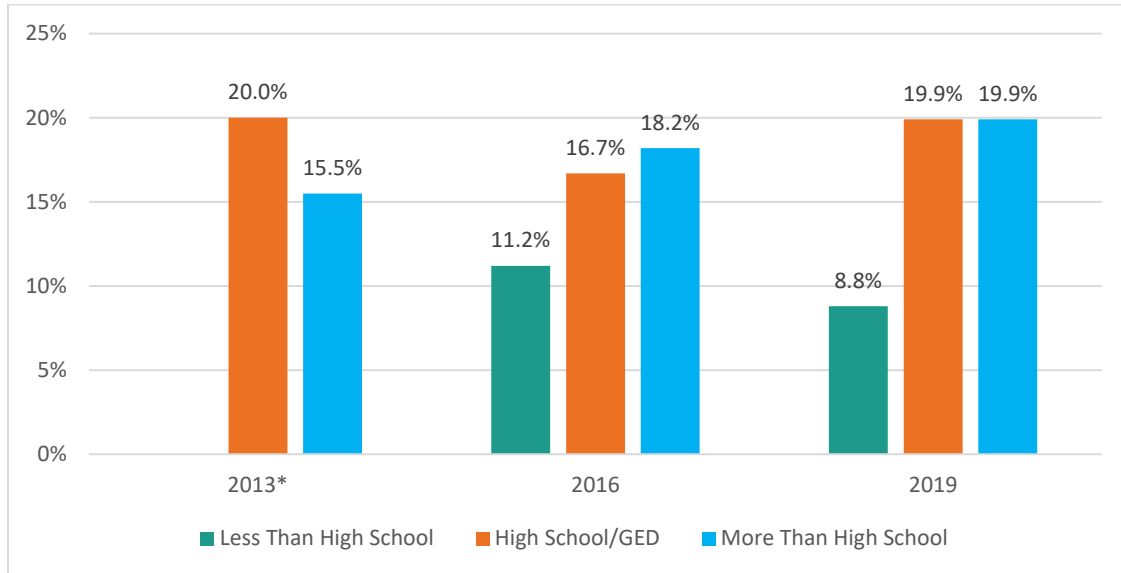
	Collier County			Florida		
	Less Than High School	High School/GED	More Than High School	Less Than High School	High School/GED	More Than High School
2013*		20.0%	15.5%	18.6%	16.3%	18.0%
2016	11.2%	16.7%	18.2%	14.7%	16.5%	18.8%
2019	8.8%	19.9%	19.9%	12.4%	17.3%	19.6%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Less than high school, no data was collected for this group

There was an increase in adults in Collier County that had more than a high school education that engaged in heavy or binge drinking from 2013 to 2019. From 2016 to 2019, there was a decrease in heavy or binge drinking among adults with less than a high school education. In 2019, both adults with a high school/GED and more than a high school education level had the same percentage (19.9%) of adults who engaged in heavy or binge drinking. Overall, those with less than a high school education had the lowest percentage who engage in heavy or binge drinking.

Exhibit HB76: Percent Adults Who Engage in Heavy or Binge Drinking, By Education Level in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Less than high school, no data was collected for this group

In 2016 and 2019, Collier County had a lower percentage of adults who made \$25,000 to \$49,999 annually who engaged in heavy or binge drinking than the Florida average. For those at higher and lower annual incomes in 2019, the percentage in Collier County was higher than the Florida average.

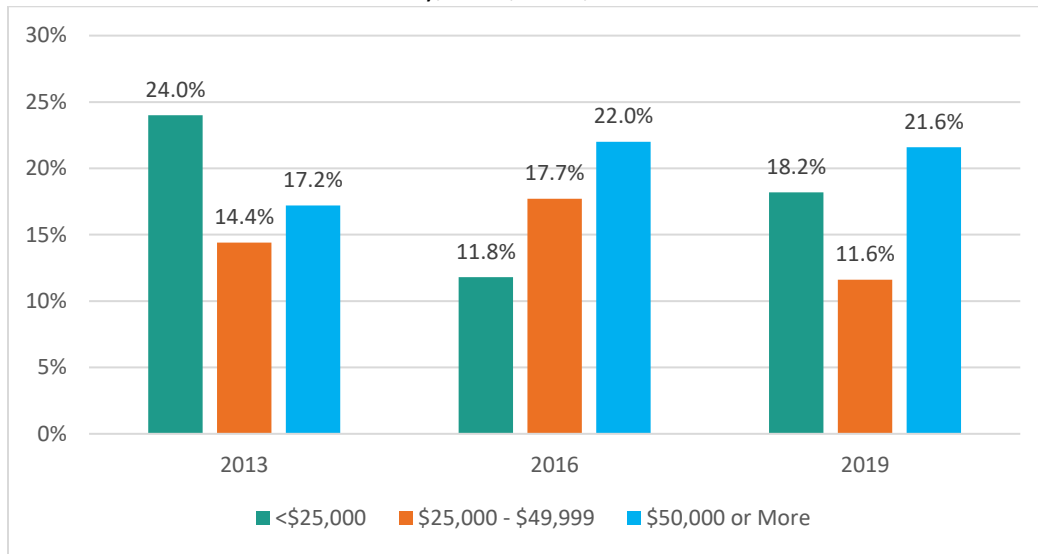
Exhibit HB77: Percent Adults Who Engage in Heavy or Binge Drinking, By Annual Income in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	<\$25,000	\$25,000 - \$49,999	\$50,000 or More	<\$25,000	\$25,000 - \$49,999	\$50,000 or More
2013	24.0%	14.4%	17.2%	16.3%	17.9%	20.3%
2016	11.8%	17.7%	22.0%	15.1%	17.7%	23.1%
2019	18.2%	11.6%	21.6%	15.7%	18.1%	22.4%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

Collier County adults who made \$50,000 or more a year in 2016 and 2019 had a higher percentage of engaging in heavy or binge drinking when compared to the other income brackets.

Exhibit HB78: Percent Adults Who Engage in Heavy or Binge Drinking, By Annual Income in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

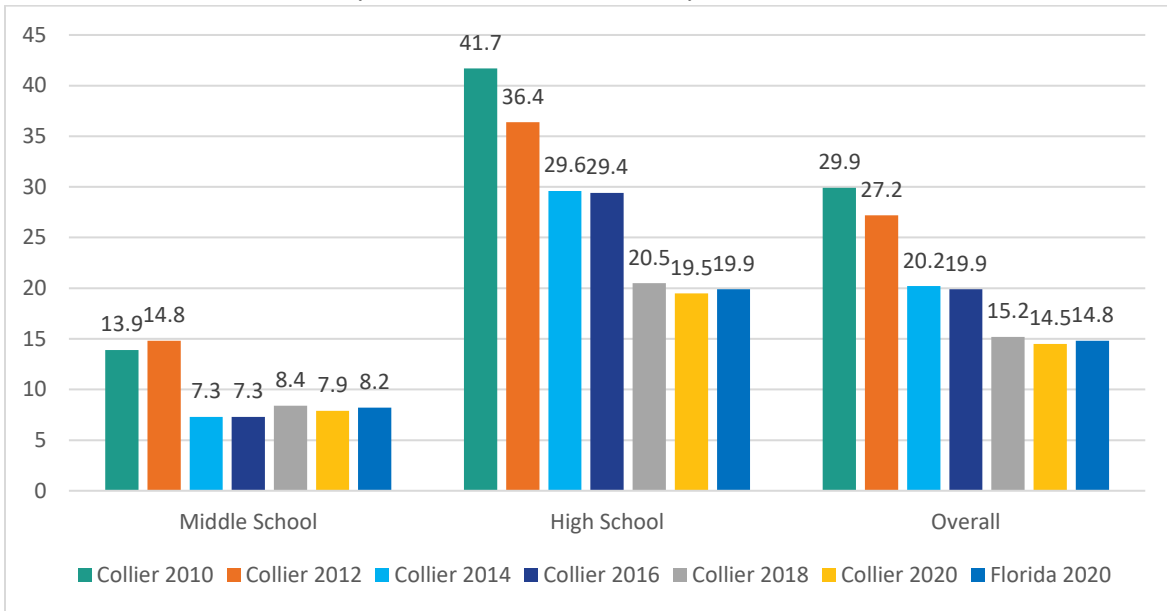
### Florida Youth Substance Abuse Survey (FYSAS)

Florida Youth Substance Abuse Survey (FYSAS) is a collaborative effort between the Florida Department of Health, Department of Education, Children and Families, Juvenile Justice, and the Governor’s Office of Drug Control. It is based on the “Communities That Care” survey, which measures the prevalence and frequency of drug use, the prevalence and frequency of other antisocial behaviors, and the degree to which risk and protective factors exist that can predict alcohol, tobacco, and other drug use, delinquency, gang involvement, and other problem behaviors in adolescents.

The FYSAS was administered to students in grades 6 through 12 in spring of 2020 (prior to schools transferring to at home learning due to the COVID-19 pandemic). In Collier County, 1,196 students completed the survey (644 middle school students, 552 high school students).

The percentage of both middle and high school students in Collier County who reported consuming alcohol in the past 30 days has decreased significantly over the past 10 years (29.2% 2010 to 14.5% 2020). Collier County high school students saw a continuous decrease in its students’ consuming alcohol from 2010 to 2020.

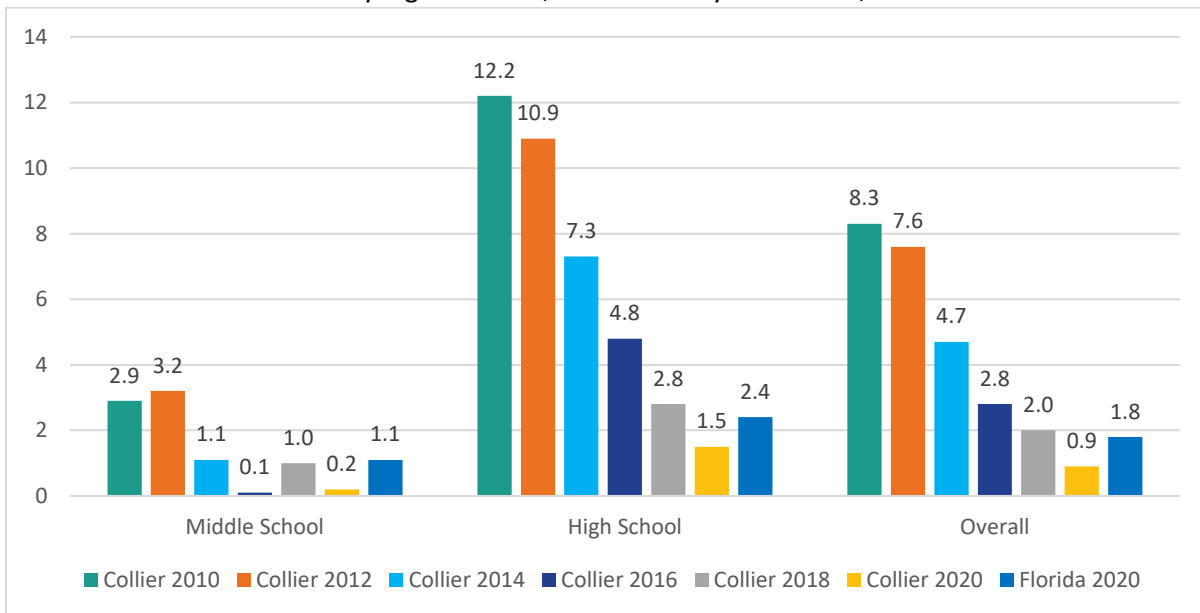
Exhibit HB79: Past 30-Day Alcohol Use, Collier County 2010-2020, Florida Statewide 2020



Source: Florida Youth Substance Abuse Survey (2020), Florida Department of Children and Families

Among both high school and middle school students in Collier County the percentage who reported cigarette use in the past 30 days has significantly decreased in the past decade (8.3% 2010 to 0.9% 2020). In 2016 and 2020, there were less than 0.3 percent of middle school students in Collier County who reported cigarette use in the past 30 days.

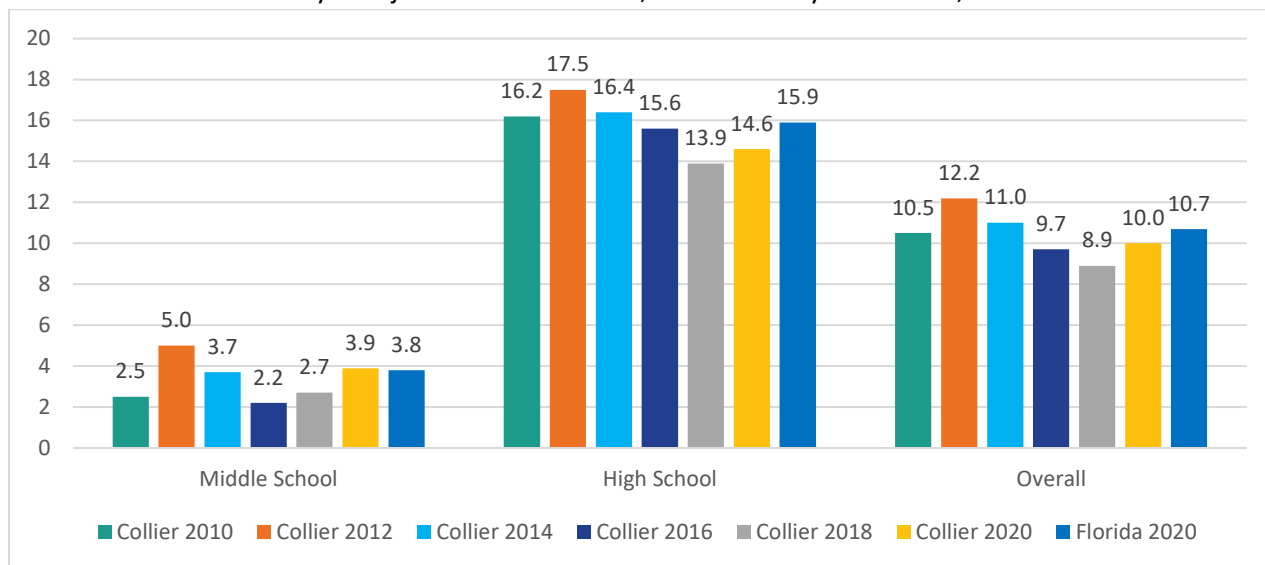
Exhibit HB80: Past 30-Day Cigarette Use, Collier County 2010-2020, Florida Statewide 2020



Source: Florida Youth Substance Abuse Survey (2020), Florida Department of Children and Families

From 2012 to 2018, the percentage of middle and high school students in Collier County who reported using marijuana or hashish decreased; however, there was a small increase from 2018 to 2020.

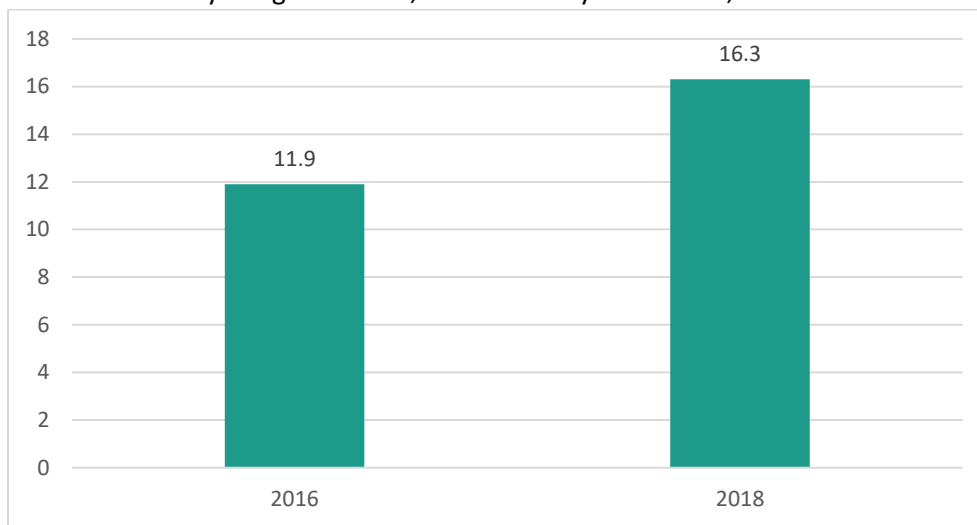
Exhibit HB81: Past 30-Day Marijuana or Hashish Use, Collier County 2010-2020, Florida Statewide 2020



Source: Florida Youth Substance Abuse Survey (2020), Florida Department of Children and Families

Starting in 2016, the FYSAS started tracking electronic vaporizer (vaping/e-cigarette) use among middle school and high school students. From 2016 to 2018, there was a significant increase in middle and high school students who used a vape/e-cigarette in the past 30 days.

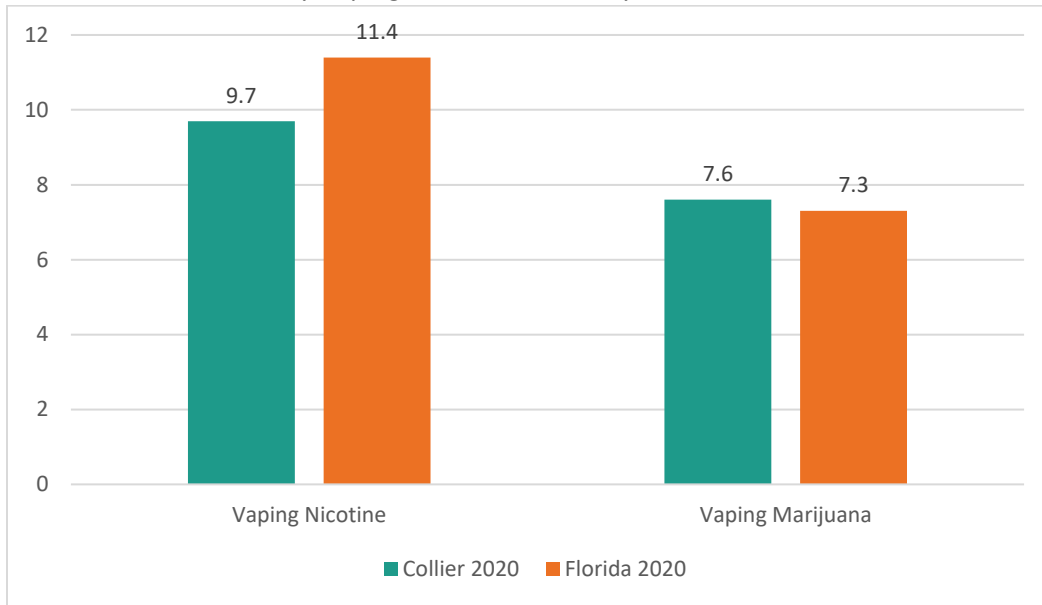
Exhibit HB82: Past 30-Day E-Cigarette Use, Collier County 2010-2020, Florida Statewide 2016, 2018



Source: Florida Youth Substance Abuse Survey (2020), Florida Department of Children and Families

In 2020, the vaping category was broken into two, vaping nicotine and vaping marijuana. It is likely that there is overlap between nicotine and marijuana users. In 2020, Collier County students reported using nicotine e-cigarettes less than the Florida average, but had a slightly higher use of vaping marijuana.

Exhibit HB83: Past 30-Day Vaping Use, Collier County 2010-2020, Florida Statewide 2020



Source: Florida Youth Substance Abuse Survey (2020), Florida Department of Children and Families

### Injury Mortality

Injuries affect the entire population regardless of gender, ethnicity, race, or socioeconomic status. Injuries remain a leading cause of death for residents of all ages in Collier County as well as Florida. While injuries impose a heavy burden on all communities in terms of mortality and morbidity their impact also creates a large economic burden on society as a whole.

The risk of mortality due to an injury will vary by age, gender, and the external cause of the injury. Males have significantly higher death rates from injuries than those for females at any age group while the elderly have the highest injury fatality rates.

All these causes of injuries are theoretically preventable; therefore, granting the opportunity and challenge to be able to reduce Years of Potential Life Lost (YPLL) and increase life expectancy at various ages.

More people in Collier County died from unintentional injuries than any other fatal injuries in 2020. The 85 and older age group had the highest number of unintentional injury fatalities followed by the 25 to 34 age group.

Exhibit HB84: Total Fatal Injuries by Intent and Age Group, Collier County and Florida, 2020

Intent	<4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	County Age Adj Rate	Florida Age Adj Rate
Homicide	0	1	0	0	1	0	2	0	2	1	0	0	2.1	7.7
Suicide	0	0	1	4	2	8	7	14	6	5	7	6	15.76	13.1
Undetermined	0	0	0	0	0	1	0	0	0	0	0	0	0.37	0.64
Unintentional	0	1	1	0	9	37	27	25	23	16	33	72	52.21	67.38

Source: Florida Department of Health, Bureau of Vital Statistics; Profile of Fatal Injuries  
Rates are per 100,000.

The top three fatal injury mechanisms for Collier County in 2020 were falls, poisoning, and firearms. Poisoning does include drug overdoses. Poisoning has a significantly higher age-adjusted rate of fatal injuries than falls because it impacts younger people more than falls.

Exhibit HB85: Total Fatal Injuries by Mechanism, Collier County and Florida, 2020

Mechanism	All Ages, Counts	County Age Adj Rate	Florida Age Adj Rate
Fall	96	8.71	11.11
Poisoning	90	29.8	35.96
Firearm	39	10.64	13.72
Suffocation	24	5.61	5.14
Drowning, Submersion (includes water transport)	12	2.98	2.38
Motor Vehicle Traffic – Occupant	12	4.12	7.56
Motor Vehicle Traffic – Motorcyclist	9	2.41	2.77
Transport, Other	7	1.67	0.57
Motor Vehicle Traffic - Other, Unspecified	6	1.91	1.39
Unspecified	5	0.45	1.47
Motor Vehicle Traffic – Pedalcyclist	3	0.37	0.62
Cut, Pierce	2	0.6	0.85
Motor Vehicle Traffic – Pedestrian	2	0.19	2.92
Other Specified & NEC	2	0.25	0.55
Fire, Flame	1	0.38	0.5
Natural, Environmental	1	0.17	0.23
Pedalcyclist, Other	1	0.17	0.15

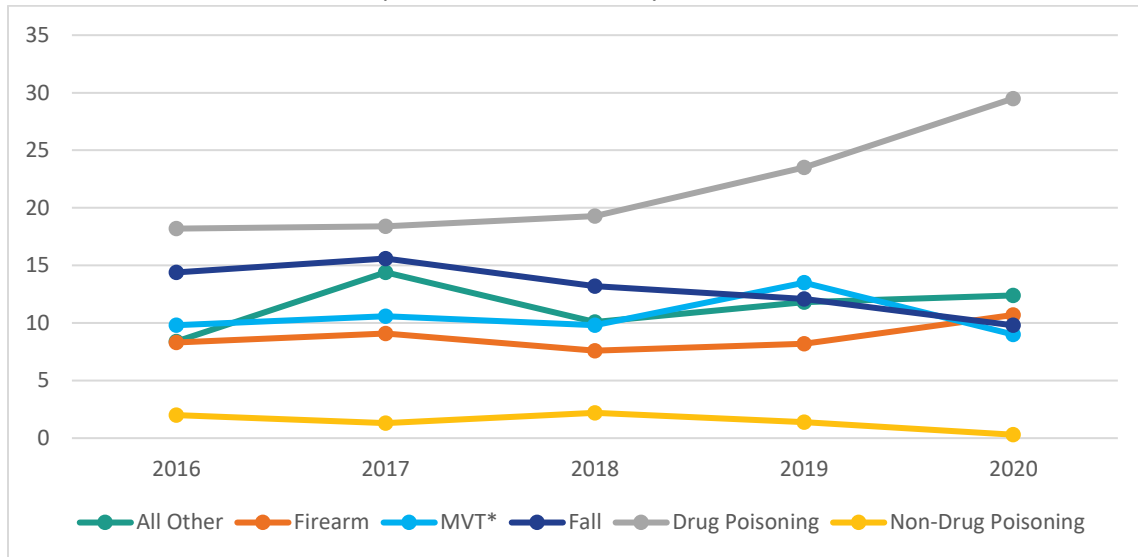
Source: Florida Department of Health, Bureau of Vital Statistics; Profile of Fatal Injuries  
Rates are per 100,000

Unspecified refers to injuries for which the underlying or precipitating cause is not adequately documented (i.e., on the death certificate)



In Collier County drug poisonings were responsible for fatal injuries at a higher age-adjusted rate than the other causes, while non-drug poisoning was responsible for fewer deaths. From 2018 to 2020 there was a drastic increase in drug poisoning deaths in Collier County (19.3 2018 to 29.5 2020). Starting in 2017 there was a decrease in the rate of deaths from falls. There was an increase in deaths from firearms in Collier County from 2018 to 2020.

Exhibit HB86: Leading Cause of Fatal Injury by Mechanism, Age-adjusted Death Rate, Rate per 100,00 Population, Collier County, 2016-2020



Year	All Other	Firearm	MVT*	Fall	Drug Poisoning	Non-Drug Poisoning
2016	8.4	8.3	9.8	14.4	18.2	2.0
2017	14.4	9.1	10.6	15.6	18.4	1.3
2018	10.1	7.6	9.8	13.2	19.3	2.2
2019	11.8	8.2	13.5	12.1	23.5	1.4
2020	12.4	10.7	9.0	9.8	29.5	0.3

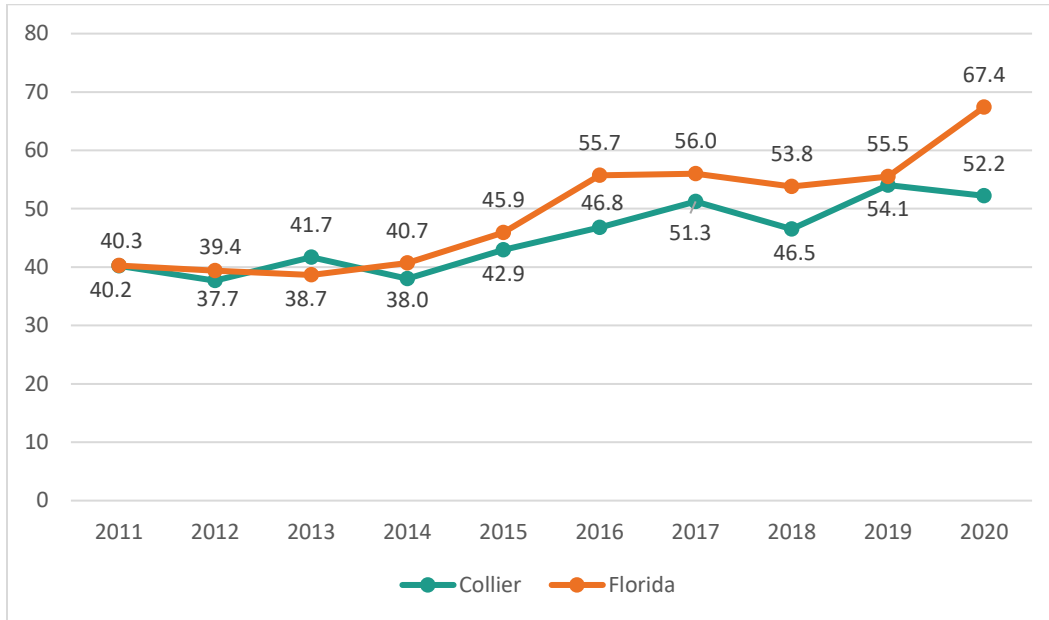
Source: Florida Department of Health, Bureau of Vital Statistics; Leading Causes of Fatal Injury Profile

\*Motor Vehicle Traffic

## Unintentional Injury

Unintentional injury are injuries that were not intended to harm oneself or intentionally cause harm to another person. From 2014 to 2017 there was a decrease in deaths from unintentional injuries, but overall, there was an increase in the death rate from unintentional injuries over the past 10 years. In 2013 Collier County's unintentional injury death rate was slightly higher than the Florida average. The unintentional injury death rate in 2020 in Collier County was significantly less than the State of Florida (52.2 Collier vs. 67.4 Florida).

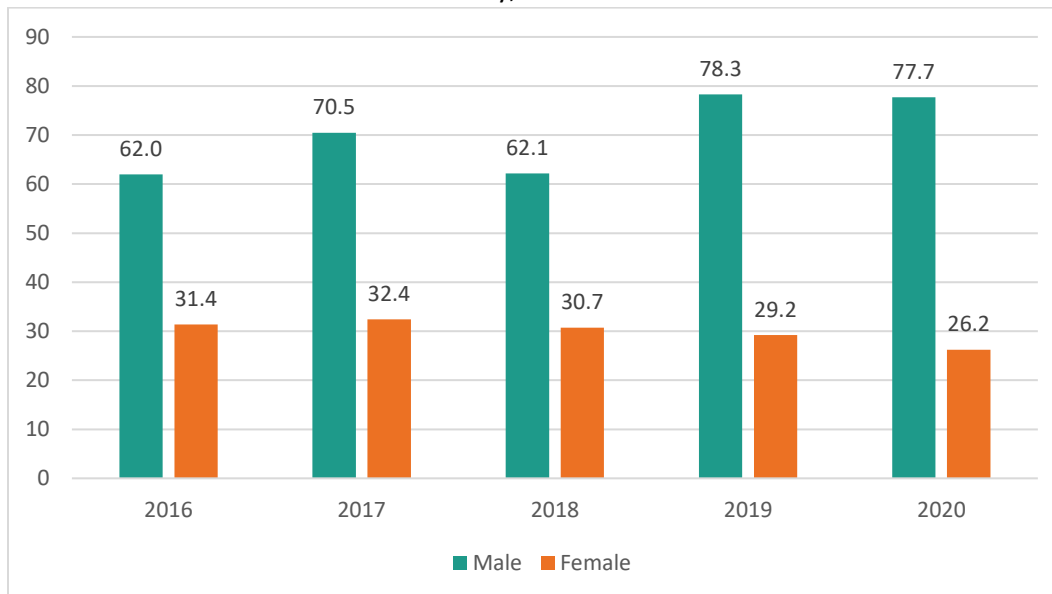
Exhibit HB87: Age-adjusted Deaths from Unintentional Injury, Rate per 100,000 Population, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

From 2016 to 2020, males had a higher death rate than females from unintentional injuries. There was a decrease in deaths from unintentional injuries over the past five years among Collier County females.

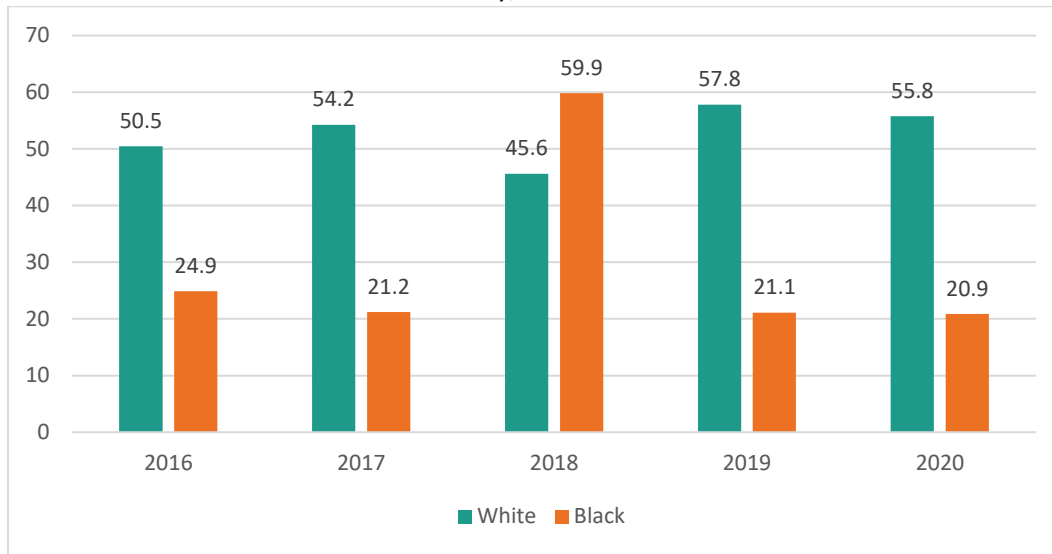
Exhibit HB88: Age-adjust Deaths from Unintentional Injury by Sex, Rate per 100,000 Population, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

White residents had the highest unintentional injury death rate every year in the table below, except in 2018 when the Black population had the highest death rate in Collier County. There was a decrease in unintentional injury deaths in Collier County among the Black population from 2018 to 2020.

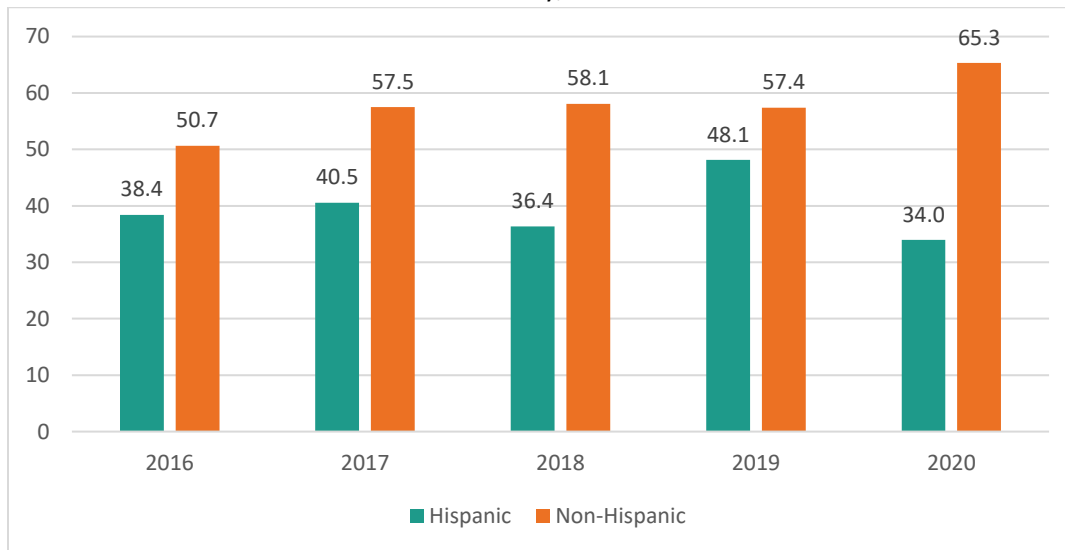
Exhibit HB89: Age-adjust Deaths from Unintentional Injury by Race, Rate per 100,000 Population, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Non-Hispanic residents in Collier County consistently experienced a higher rate of death from unintentional injuries when compared to Hispanic residents. In 2020, Non-Hispanics experienced its highest rate of deaths from unintentional injuries over the past five years.

Exhibit HB90: Age-adjust Deaths from Unintentional Injury by Ethnicity, Rate per 100,000 Population, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Falls, poisoning, and motor vehicle traffic – occupant were the top three leading causes of unintentional injury deaths in Collier County in 2020. Unintentional fatal injuries from poisoning do include overdose deaths, which has a higher impact among those under the age of 40.

Exhibit HB91: Unintentional Fatal Injuries by Mechanism, Collier County and Florida, 2020

Mechanism	All Ages, Counts	County Age Adj Rate	Florida Age Adj Rate
Fall	95	8.63	10.81
Poisoning	87	28.94	33.89
Motor Vehicle Traffic – Occupant	12	4.12	7.56
Drowning, Submersion (includes water transport)	11	2.61	2.18
Motor Vehicle Traffic – Motorcyclist	9	2.41	2.77
Suffocation	7	1.14	1.65
Motor Vehicle Traffic - Other, Unspecified	6	1.91	1.39
Transport, Other	6	1.23	0.51
Motor Vehicle Traffic – Pedalcyclist	3	0.37	0.62
Unspecified	3	0.25	0.93
Motor Vehicle Traffic – Pedestrian	2	0.19	2.92
Natural, Environmental	1	0.17	0.23
Other & Unspecified	1	0.08	0.27
Pedalcyclist, Other	1	0.17	0.15

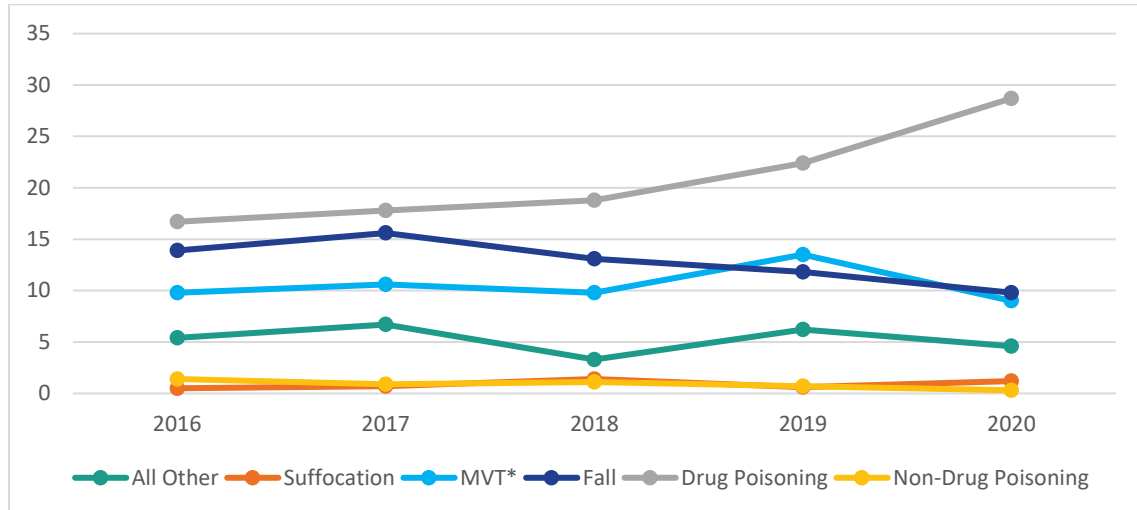
Source: Florida Department of Health, Bureau of Vital Statistics; Profile of Fatal Injuries

Rates are per 100,000

Unspecified refers to injuries for which the underlying or precipitating cause is not adequately documented (i.e., on the death certificate)

Drug poisonings were responsible for the largest percentage of fatal unintentional injuries in Collier County from 2016 to 2020. Over the past five years the death rate for drug poisonings has increased significantly in Collier County. The death rate from unintentional fall injuries decreased from 2017 to 2020.

Exhibit HB92: Leading Causes of Fatal Unintentional Injury, Age-adjusted Death Rate, Rate per 100,000 Population, Collier County, 2016-2020



Year	All Other	Suffocation	MVT*	Fall	Drug Poisoning	Non-Drug Poisoning
2016	5.4	0.5	9.8	13.9	16.7	1.4
2017	6.7	0.7	10.6	15.6	17.8	0.9
2018	3.3	1.4	9.8	13.1	18.8	1.1
2019	6.2	0.6	13.5	11.8	22.4	0.7
2020	4.6	1.2	9.0	9.8	28.7	0.3

Source: Florida Department of Health, Bureau of Vital Statistics; Leading Causes of Fatal Injury Profile

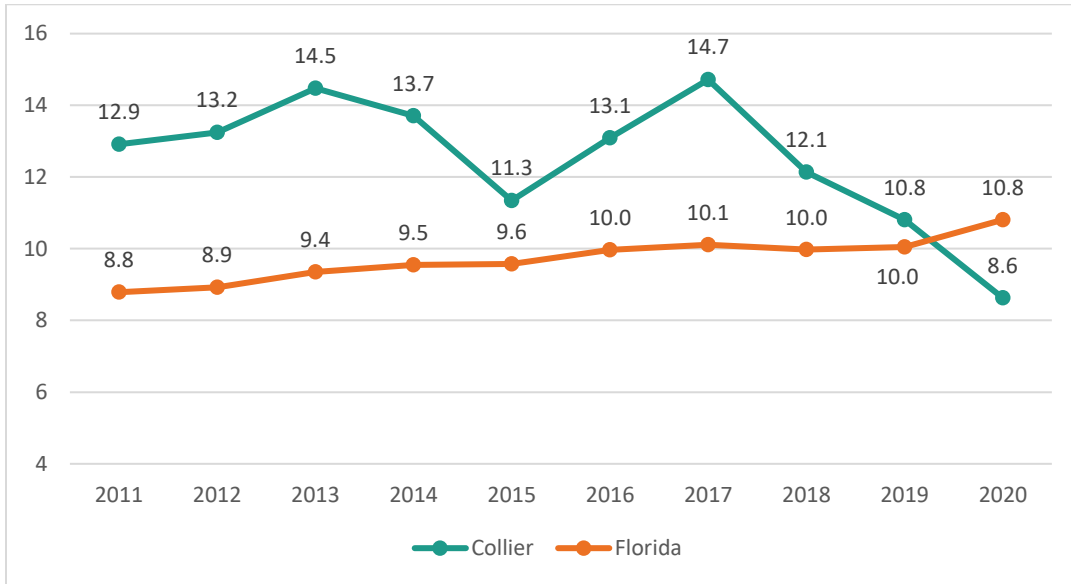
\*Motor Vehicle Traffic

## Falls

As discussed earlier in the section on injury mortality, deaths from falls in Collier County pose several challenges. There are several factors that increases someone’s risk for falling: lower body weakness, Vitamin D deficiency, poor footwear, and various home hazards such as throw rugs. The mortality rate is significantly higher in the 75 years of age and over age group, while this at-risk cohort is growing faster than the younger population due to the aging of the baby-boomer cohort.

There was a significant decline in the age adjusted death rate from falls in Collier County between 2017 and 2020. The rate in Collier County fell below the Florida average in 2020 after being higher than the average from 2011 through 2019.

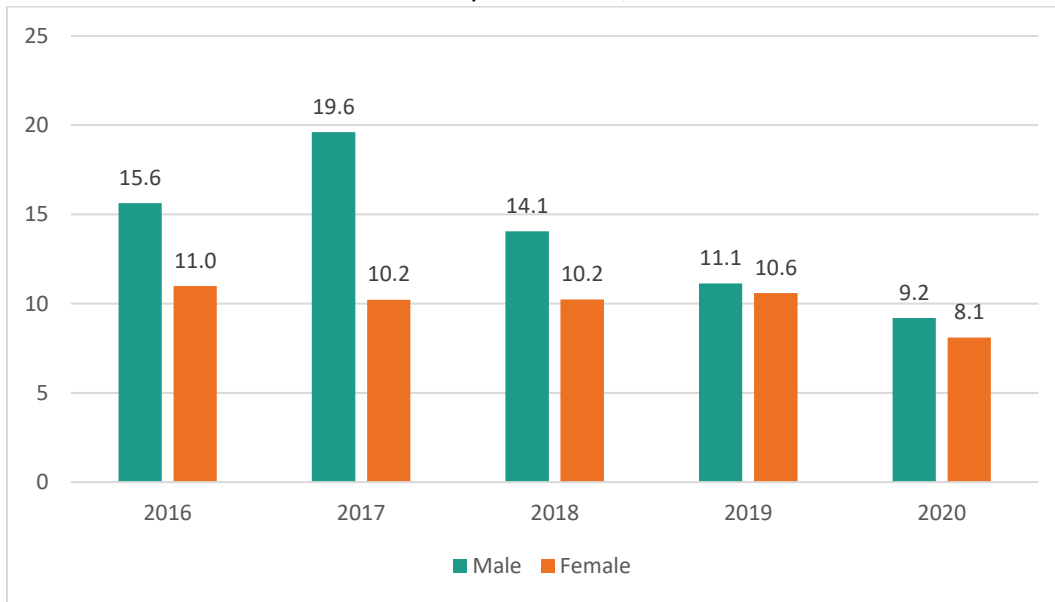
Exhibit HB93: Age-adjusted Total Deaths from Unintentional Falls, Rate per 100,000 Population, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, males have a higher age-adjusted death rate from unintentional falls than women. However, the rate for males is decreasing at a higher rate than the rate for women.

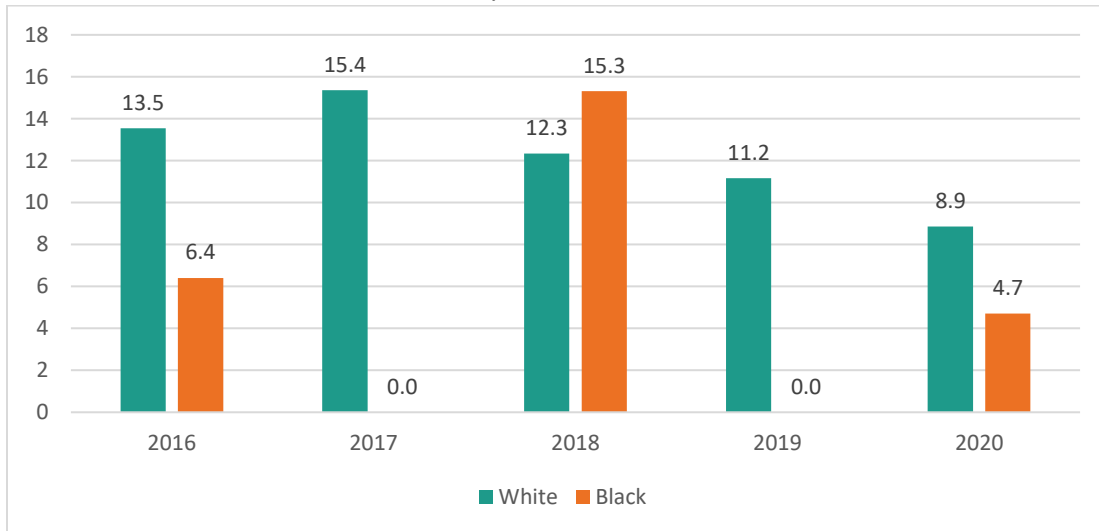
Exhibit HB94: Age-Adjusted Total Deaths from Unintentional Falls by Sex, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, the age-adjusted death rate from unintentional falls is higher among the white population than the Black population in most years. There is not a consistent pattern seen in the difference in the rates for the Hispanic vs. Non-Hispanic populations.

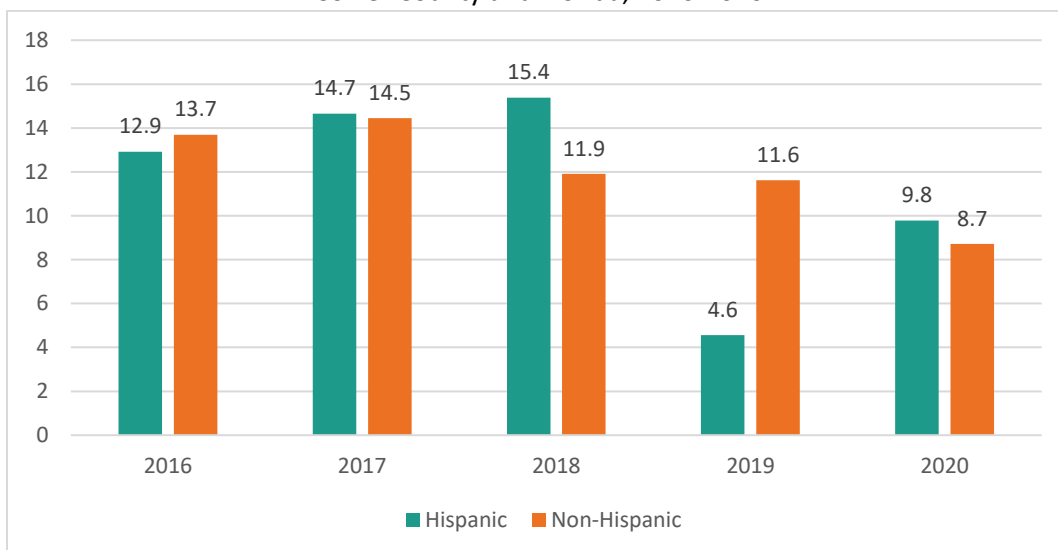
Exhibit HB95: Age-Adjusted Total Deaths from Unintentional Falls by Race, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

There is not a consistent pattern seen in the difference in the rates for the Hispanic vs. Non-Hispanic populations. In 2019, Hispanic residents saw its lowest rate of deaths from unintentional falls.

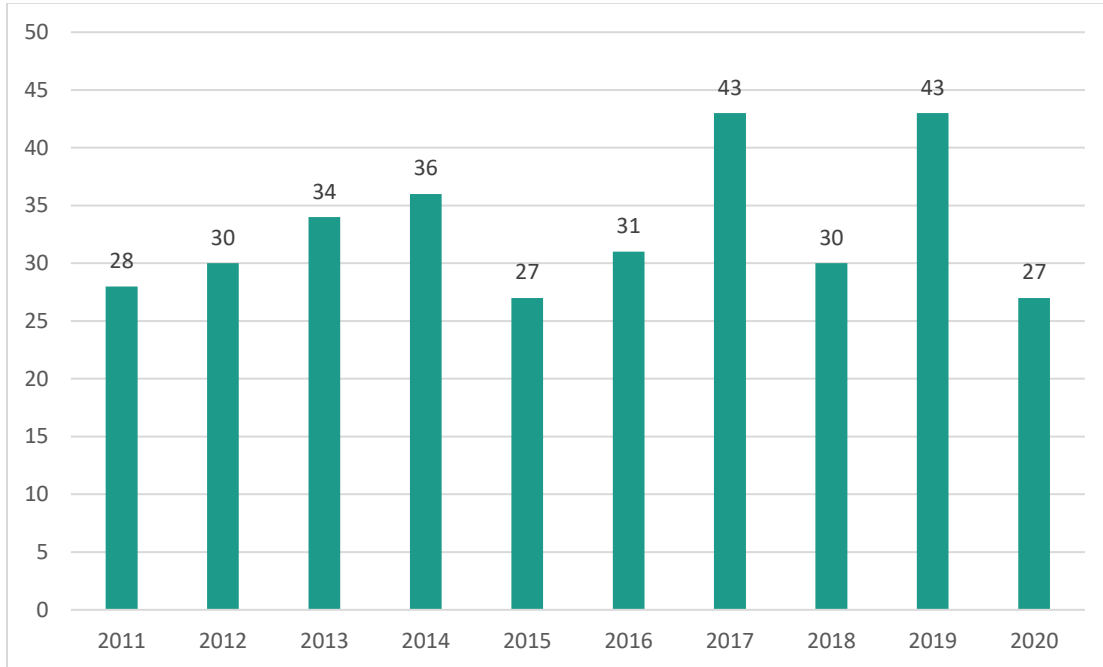
Exhibit HB96: Age-Adjusted Total Deaths from Unintentional Falls by Race, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

The total number of deaths from unintentional falls by adults 65 and over in Collier varies from year to year. In 2020, the number was the lowest that is has been since prior to 2011. It should be noted however, that adults over 65 was also the population hit hardest by the COVID-19 pandemic in 2020.

Exhibit HB97: Total Deaths from Unintentional Falls by Adults 65 and Over, Collier County, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

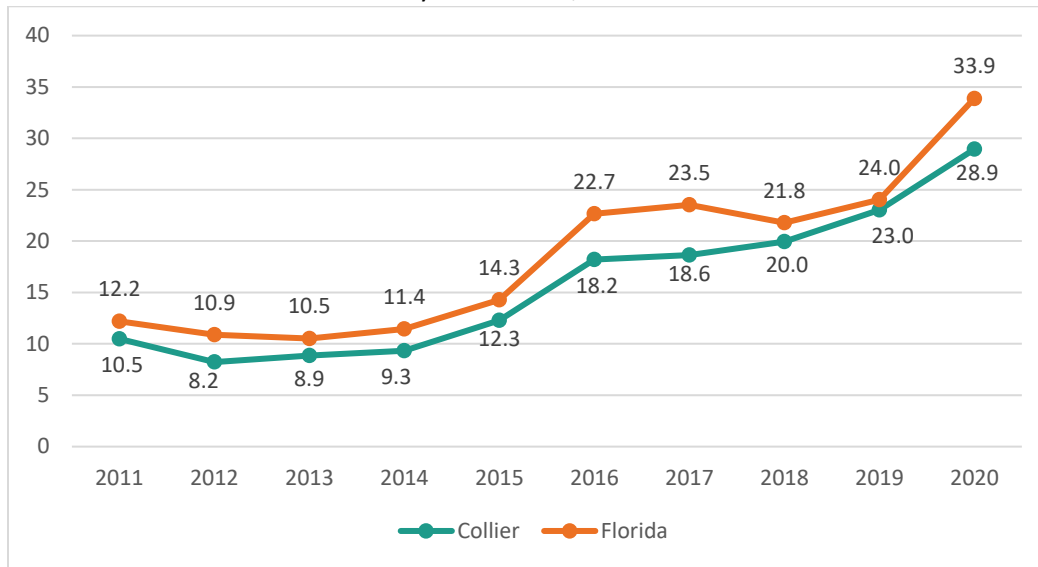
### Unintentional Poisoning

Unintentional poisoning is defined as poisoning by external causes such as drugs, medications, and/or biological substances. Unintentional poisoning occurs when the person who is consuming the substances takes too much, and they did not mean to cause themselves harm.

The age-adjusted death rate from unintentional poisoning is lower in Collier County than the Florida rate. However, the rate in Collier County, like the rate statewide, has increased dramatically since 2012. In Collier County, the rate in 2020 was more than triple the rate in 2012.



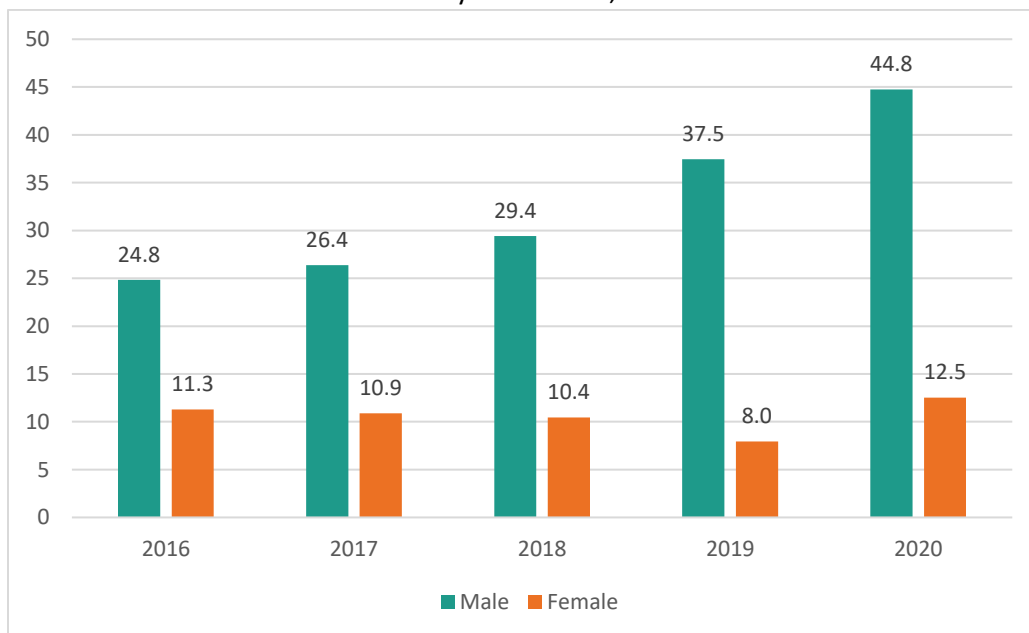
Exhibit HB98: Age-Adjusted Deaths from Unintentional Poisoning, Rate per 100,000 Population, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, the age-adjusted death rate from unintentional poisoning is significantly higher among men than women (44.8 men vs. 12.5 women in 2020). The rate among men has also been growing much more quickly than among women; the rate among men increased by over 80 percent between 2016 and 2020.

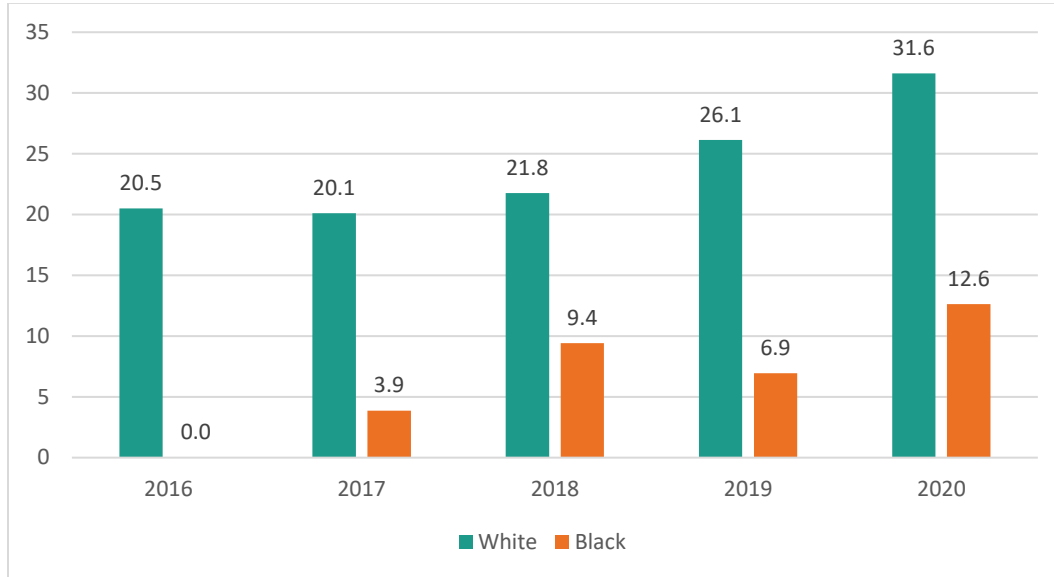
Exhibit HB99: Age-Adjusted Deaths from Unintentional Poisoning by Sex, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, the age-adjusted death rate from unintentional poisoning is significantly higher among the white population than the Black population (31.6 white vs. 12.6 Black in 2020).

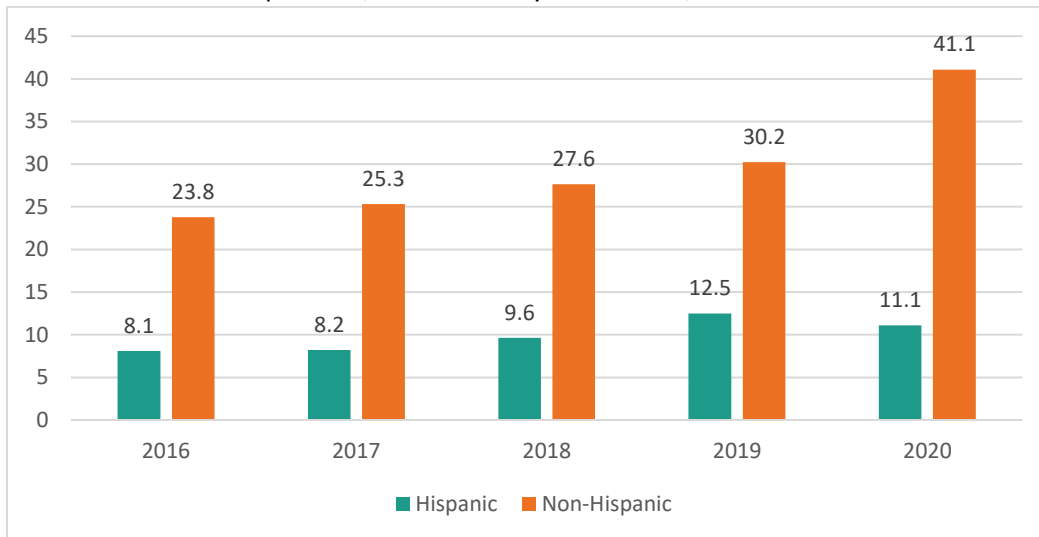
Exhibit HB100: Age-Adjusted Deaths from Unintentional Poisoning by Race, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, the age-adjusted death rate from unintentional poisoning is significantly higher among the Non-Hispanic population than among the Hispanic population (41.1 Non-Hispanic vs. 11.1 Hispanic in 2020).

Exhibit HB101: Age-Adjusted Deaths from Unintentional Poisoning by Ethnicity, Rate per 100,000 Population, Collier County and Florida, 2016-2020

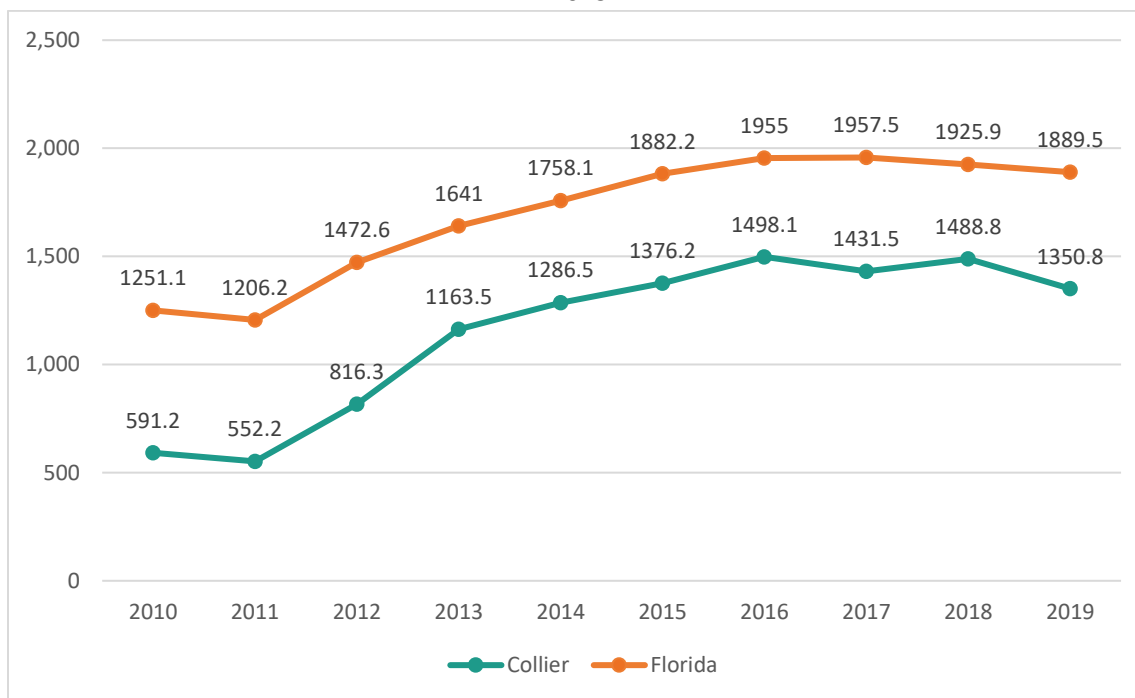


Source: Florida Department of Health, Bureau of Vital Statistics

## Motor Vehicle Crashes

Collier County consistently has had a lower rate of motor vehicles crashes compared to the Florida average. 2011 had the lowest rate of motor vehicle crashes, 555.2 per 100,000; that rate greatly increased to the highest rate of motor vehicle crashes in 2016, 1,498.8 per 100,000.

Exhibit HB102: Total Motor Vehicle Traffic Crashes, Rate per 100,000, Collier County and Florida, 2010-2019



Source: Florida Department of Highway Safety and Motor Vehicles

When compared to Florida, Collier County has a slightly higher rate of alcohol-confirmed motor vehicle traffic crashes, injuries, and fatalities.

Exhibit HB103: Alcohol Confirmed Motor Vehicle Traffic, 3-year Rate per 100,000, Collier County and Florida, 2017-2019

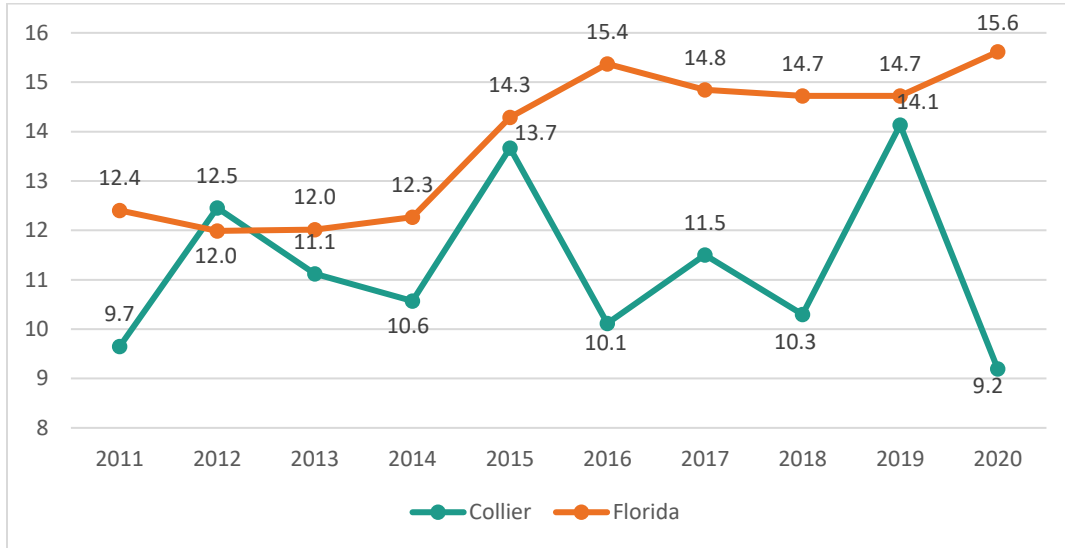
	Collier	Florida	Quartile*
Motor Vehicle Traffic Crashes	25.2	24.2	2
Motor Vehicle Traffic Injuries	16.4	14.5	2
Motor Vehicle Traffic Crash Fatalities	2.2	1.8	2

Source: Florida Department of Highway Safety and Motor Vehicles

\*County compared to other Florida Counties. The lowest quarter equals the lowest number

Collier County has had a lower rate of age-adjusted deaths from motor vehicle crashes than the Florida rate for the past ten years except for in 2012. In Collier County the rate for 2020 was the lowest rate during that ten-year period.

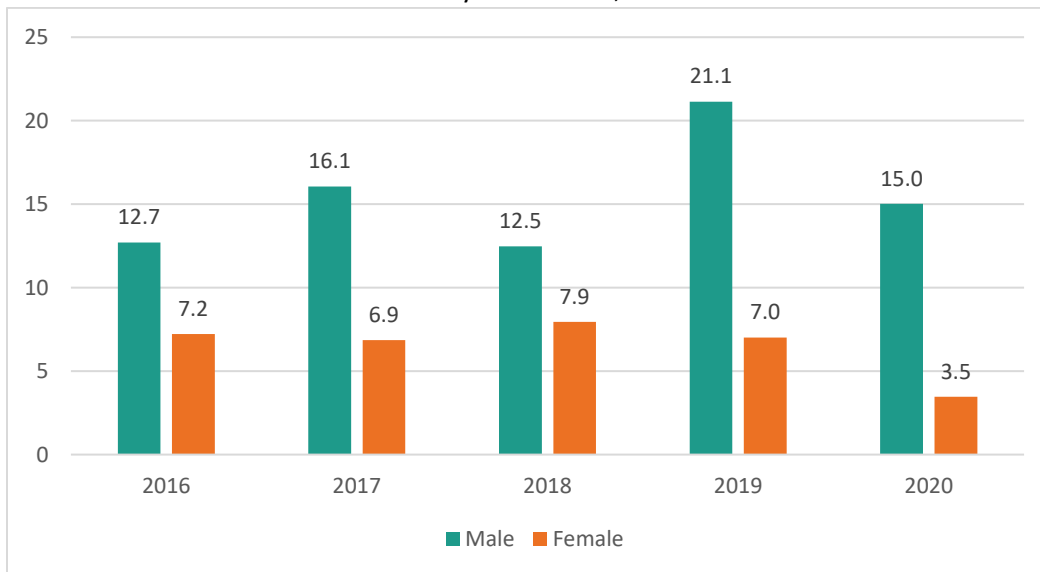
Exhibit HB104: Age-adjusted Deaths from Motor Vehicle Crashes, Rate per 100,000 Population, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, men have a higher rate of age-adjusted deaths from motor vehicle crashes than women.

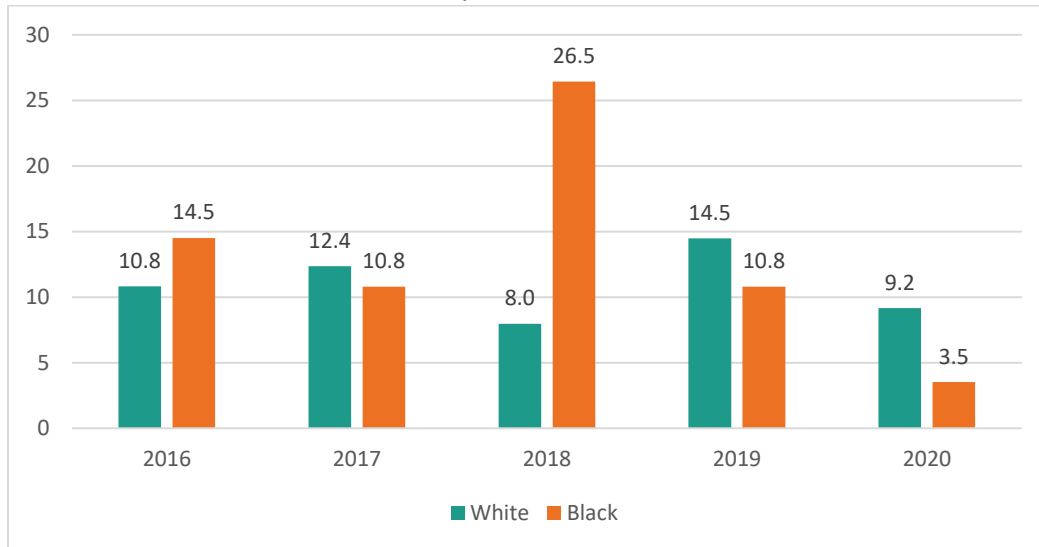
Exhibit HB105: Age-Adjusted Deaths from Motor Vehicle Crashes by Sex, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, the age-adjusted death rate from motor vehicle crashes do not show a consistent pattern when viewed by race. In 2018, Black Collier County residents experienced the highest rate of deaths from motor vehicle crashes.

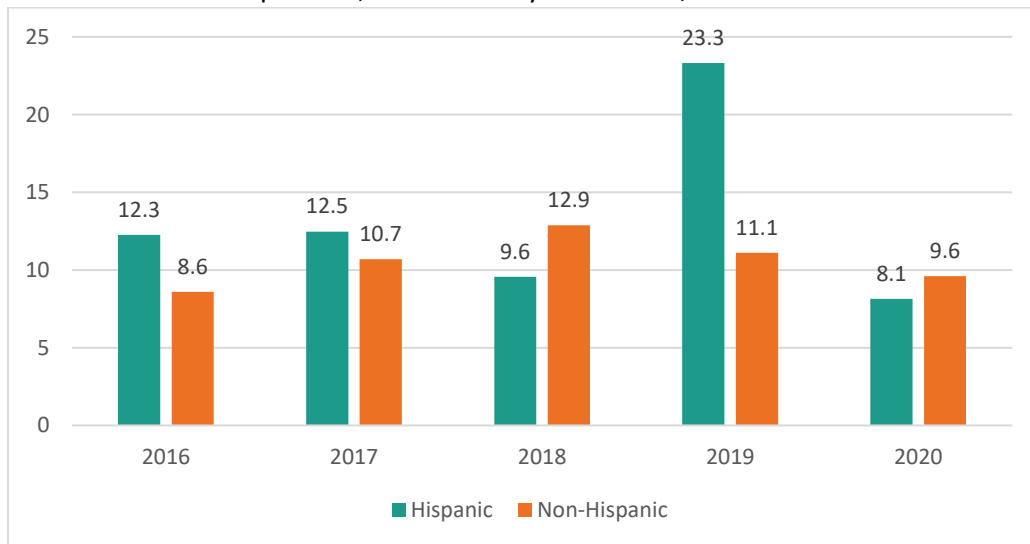
Exhibit HB106: Age-Adjusted Deaths from Motor Vehicle Crashes by Race, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, the age-adjusted death rate from motor vehicle crashes do not show a consistent pattern when viewed by ethnicity. In 2019, Hispanic Collier County residents experienced the highest rate of deaths from motor vehicle crashes.

Exhibit HB107: Age-Adjusted Deaths from Motor Vehicle Crashes by Ethnicity, Rate per 100,000 Population, Collier County and Florida, 2016-2020

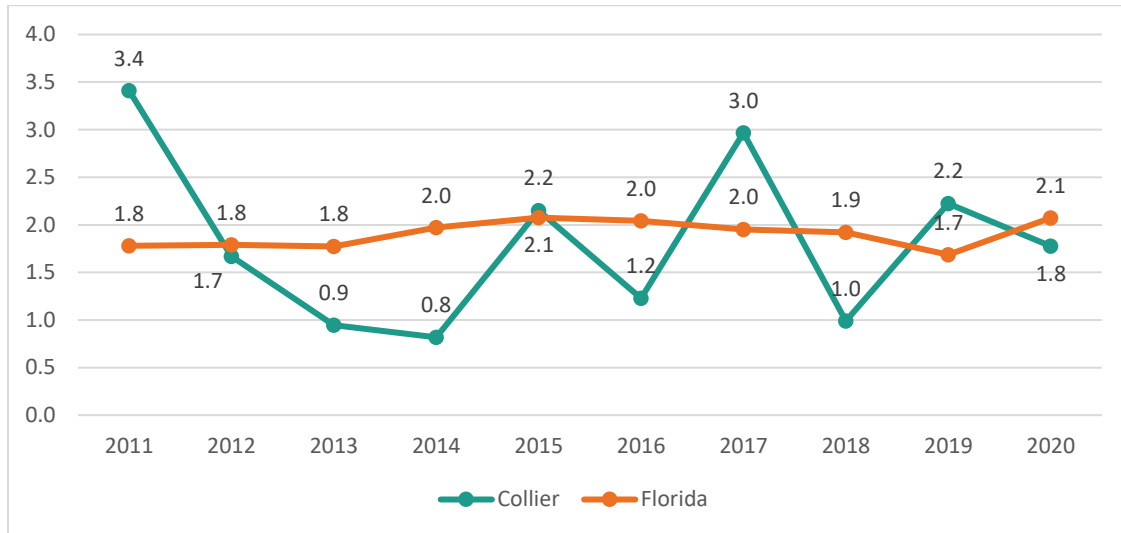


Source: Florida Department of Health, Bureau of Vital Statistics

## Drownings

Age-adjusted unintentional drowning deaths in Collier County has not been higher than 3.5 per 100,000 in the past five years. The rate is generally similar to the overall state rate, although it is sometimes higher and sometimes lower.

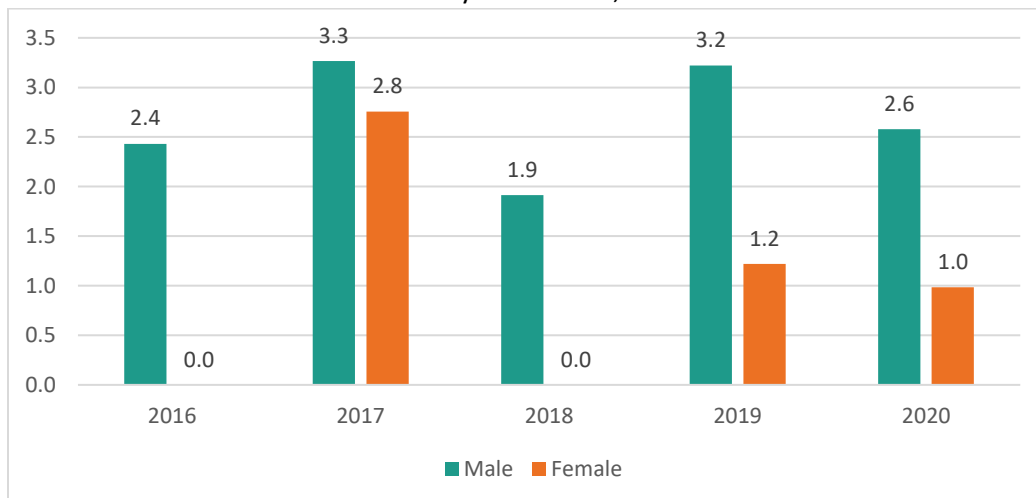
Exhibit HB108: Age-adjusted Unintentional Drowning Deaths, Rate per 100,000 Population, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

The age-adjusted death rate from drowning in Collier County was higher among males than females each year between 2016 and 2020; however, the rates among each has not been above 3.3 per 100,000.

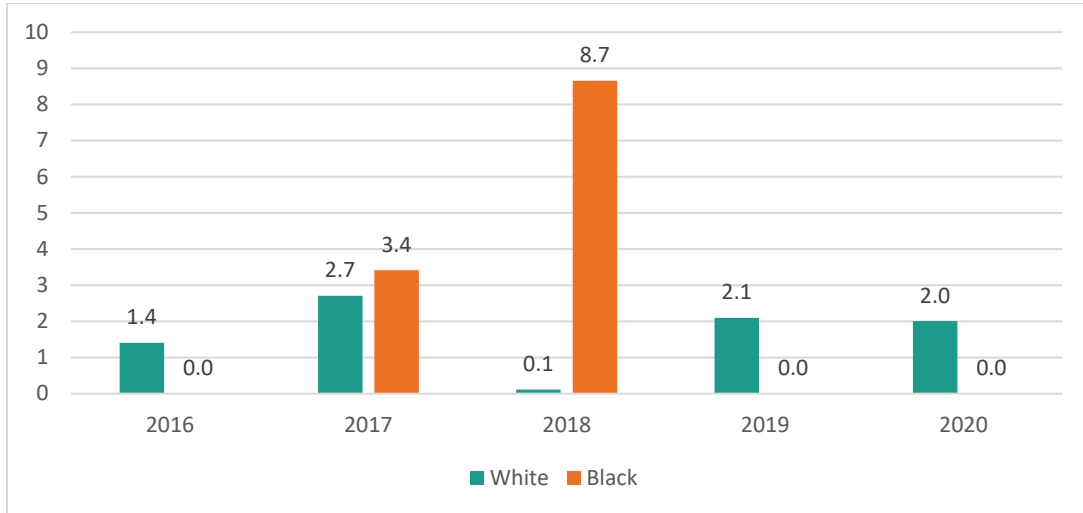
Exhibit HB109: Age-Adjusted Unintentional Drowning Deaths by Sex, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

There is not a clear pattern to be seen when viewing age-adjusted death rates in Collier County due to unintentional drowning deaths by race.

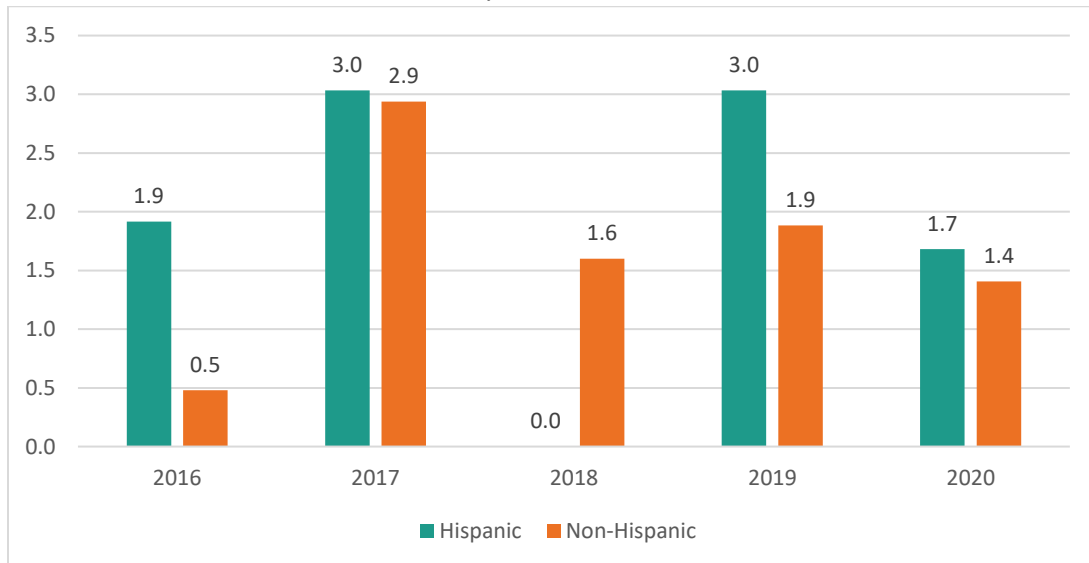
Exhibit HB110: Age-Adjusted Unintentional Drowning Deaths by Race, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

The Hispanic population in Collier County experience a higher rate of unintentional drowning deaths, when compared to the Non-Hispanic population, every year except for 2018.

Exhibit HB111: Age-Adjusted Unintentional Drowning Deaths by Ethnicity, Rate per 100,000 Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

## Maternal and Infant Health

Healthy pregnancy and the resulting birth of a healthy baby in a positive environment leads to an increase in the quality of life for the mother, the child, and the community.

Maternal related health outcomes are influenced by the health status and health behaviors of the woman bearing the child as well as numerous other factors such as ethnicity, race, age, education, and income. The healthier the pregnancy the lower the probability of delivering an infant with disorders or complications potentially resulting in unfavorable maternal outcomes or infant mortality.

Infant mortality refers to deaths that occur during the first year of life from a live birth through age one. The rate is measured as the number of infant deaths per 1,000 live births within the same specified calendar year.

In public health, birthweight of a newborn is considered a vital indicator in the monitoring and evaluation of the health situation of a community, county, and state. For public health assessment purposes birthweight is dichotomized into: 1) Low birthweight (less than 2,500 grams or 5 lb., 8 oz.) and 2) Very low birthweight (less than 1,500 grams or 3 lb., 4 oz.).

Considered as a community predictor indicator of levels of infant morbidity and premature mortality, low birthweight is more widely used in geographical health analyses since it is a more common event and therefore lends itself to population-based assessments.

Infants born with very low birthweight have a 24 percent chance of dying during their first year of life. Mortality among low birthweight babies between 1,500 and 2,499 grams or 3 lb., 4 oz. to 5 lb., 8 oz. is significantly lower, at approximately one percent, which is still a much higher rate than infants born above 2,500 grams, about 0.25 percent.

Risk factors among pregnant women for low birthweight outcomes include maternal smoking, low maternal weight gain or low pre-pregnancy weight, multiple births, and violence and abuse during pregnancy.

Lower birthweight increases the newborn's likelihood of having a school-age learning disability and impaired development. Infants born weighing less than 2,500 grams are more likely than heavier infants to experience delayed motor skills.

Teenage pregnancy is correlated with low levels of prenatal care and pre-term delivery. Pregnant teenagers have a higher likelihood of receiving no prenatal care or limited care as well as achieving poor maternal weight levels. Births to teenage mothers are much more likely to result in low birthweight deliveries when compared to older mothers in population-based assessments.

Access to prenatal care beginning with the 1st trimester and continuing throughout the pregnancy is an essential component for a healthy baby and a successful maternal experience. A pregnant women's nutritional status and lifestyle behaviors such as tobacco and alcohol use are all highly correlated with being able to give birth to a healthy and adequate weight infant.

When compared to other Florida counties for the years 2018-2020, Collier County is not in the lowest quartile for any indicators related to maternal and infant health. The trends for Collier County are all



positive, steady, or inconsistent except for births with adequate prenatal care (Kotelchuck index) [%]; for that measure, Collier is also below the State average (68.4% Collier vs. 69.2% Florida).

Exhibit HB112: Maternal & Infant Health Indicators, 3-year Figures, Collier County and Florida, 2018-2020

	County	State	Trend	Quartile*
<b>Birth Family Characteristics</b>				
Total Births (Count, 3-year annual avg.)	3,160	217,054.3		1
Births to Mothers ages 15-44, per 1,000	29.0	27.6		3
Births to Unwed Mothers ages 15-44 (%)	44.2%	46.7%		1
Births to Mothers ages 15-19, per 1,000	17.9	16.0	Steady	2
Births to Mothers 19 and Over Without High School Education (%)	14.0%	9.9%	Positive	3
<b>Infant Deaths</b>				
Infant Deaths (0-364 days) per 1,000 Live Births	3.4	6.0	Positive	1
Neonatal Deaths (0-27 days) per 1,000 Live Births	2.5	4.0	Positive	1
Post-Neonatal Deaths (28-364 days) per 1,000 Live Births	0.8	1.9	Inconsistent	1
	County	State	Trend	Quartile*
<b>Low Birth Weight</b>				
Births <1500 Grams (Very Low Birth Weight) %	1.2%	1.6%	Inconsistent	1
Births < 2500 Grams (Low Birth Weight) %	7.1%	8.7%	Steady	1
<b>Prenatal Care</b>				
Births with 1 <sup>st</sup> Trimester Prenatal Care (%)	74.0%	76.1%	Positive	2
Births with Late or No Prenatal Care (%)	7.3%	7.2%	Inconsistent	2
Births with adequate prenatal care (Kotelchuck index) [%]	68.4%	69.2%	Negative	3

Source: Florida Department of Health, Bureau of Vital Statistics

\*County compared to other Florida counties. 1 is the best to 4 as the lowest.

Between 2015-2017 and 2018-2020, Collier County has seen an increase in the rate of women between the ages of 15-34 with sexually transmitted diseases and the percent of births to mothers who were overweight at the time pregnancy occurred. There was also an increase in the percent of mothers in Collier County who initiate breastfeeding.

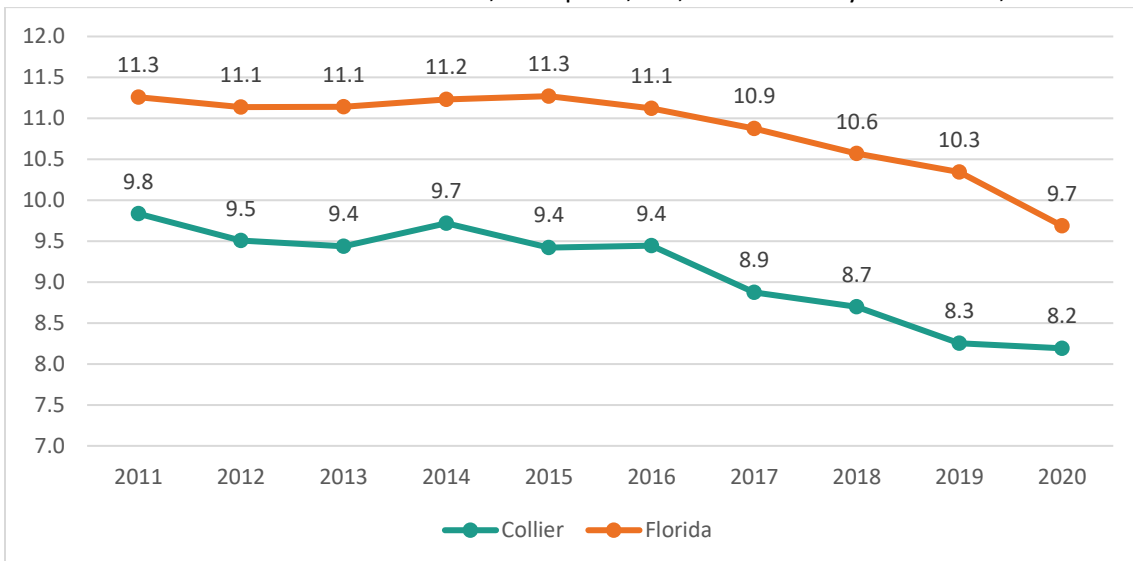
Exhibit HB113: Reported Pre-conception, Pregnancy, and Mother’s Health and Behaviors, 3-Year Figures, Collier County and Florida, 2015-2017, 2018-2020

	2015-2017		2018-2020	
	Collier	Florida	Collier	Florida
Women 15-34 with sexually transmitted diseases, per 100,000 females 15-34 years of age	1,966.0	2,818.4	2,222.8	2,958.9
Births to underweight mothers at time pregnancy occurred, percent of births	3.2%	4.1%	2.5%	3.6%
Births to overweight mothers at time of pregnancy occurred, percent of births	28.5%	26.3%	31.0%	27.5%
Births with inter-pregnancy interval <18 months, percent of births	30.3%	34.7%	31.5%	35.0%
Repeat births to mothers ages 15-19 years of age, percent of births 15-19 years	15.6%	15.7%	11.2%	14.2%
Births to mothers >35 years of age, per 1,000 females >35 years of age	4.3	4.9	4.2	5.1
Births to uninsured women (“self-pay” check on birth certificate), percent of births	17.5%	6.3%	14.1%	5.8%
Births covered by Medicaid, percent of births	42.6%	48.8%	42.1%	47.3%
C-section births, percent of births	39.6%	37.3%	35.1%	36.4%
Mothers who initiate breastfeeding, percent	78.4%	85.7%	79.2%	85.9%

Source: Florida Department of Health, Bureau of Vital Statistics; Florida Department of Health, Bureau of Communicable Diseases

The birth rate in Collier County was lower than the Florida average every year during the period of 2011 through 2020. Both the rate in Collier County and the rate in Florida have been declining across this period

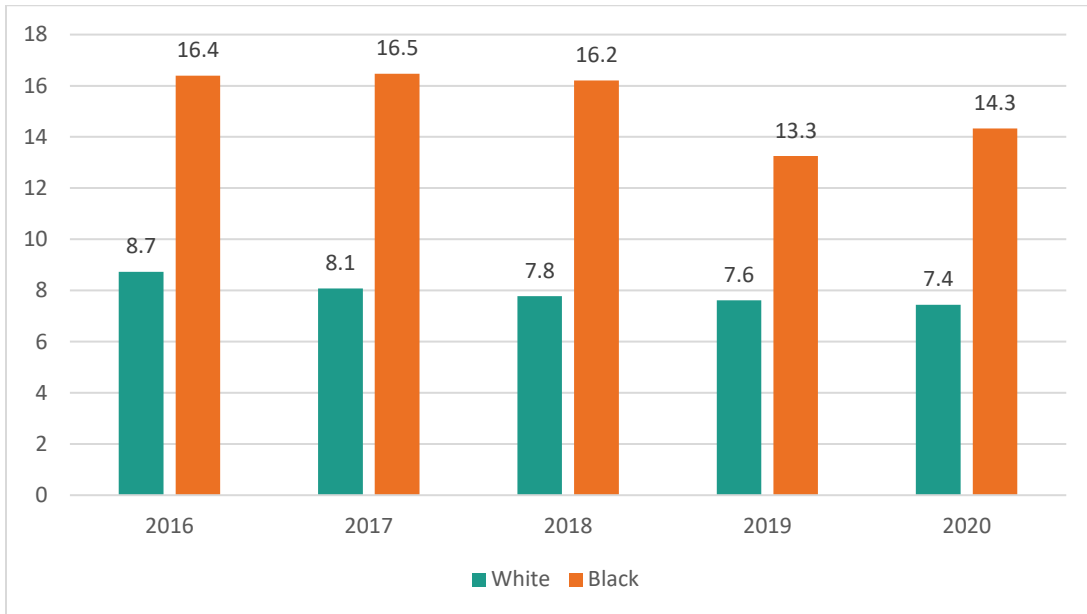
Exhibit HB114: Total Resident Live Births, Rate per 1,000, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Between 2016 and 2020, the birth rate in Collier County was higher among the Black population than among the white population.

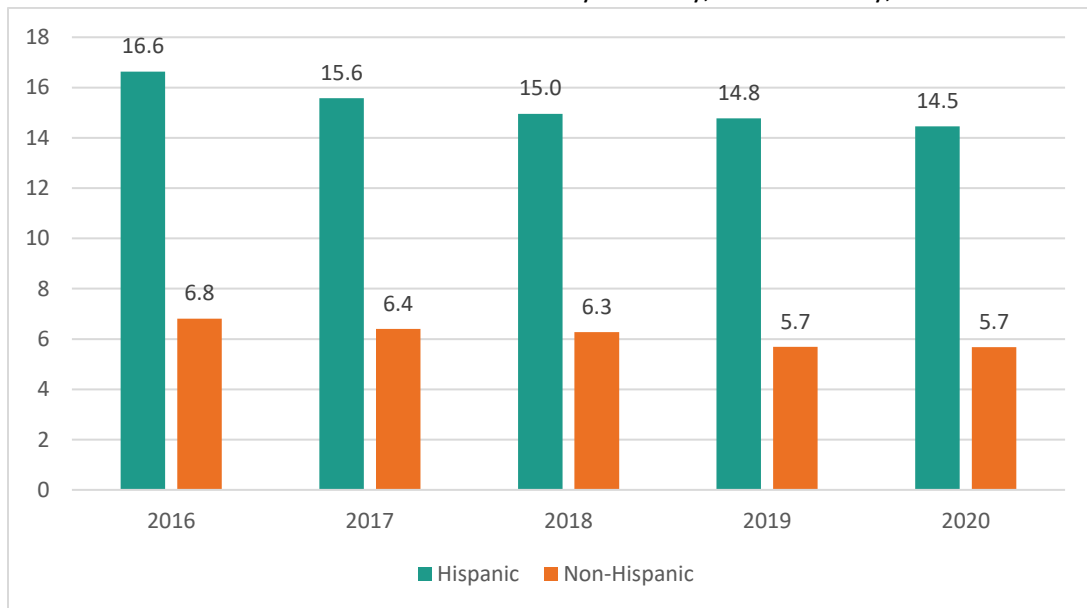
Exhibit HB115: Total Resident Live Births by Race, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Between 2016 and 2020, the birth rate in Collier County was higher among the Hispanic population than among the Non-Hispanic population.

Exhibit HB116: Total Resident Live Births by Ethnicity, Collier County, 2016-2020

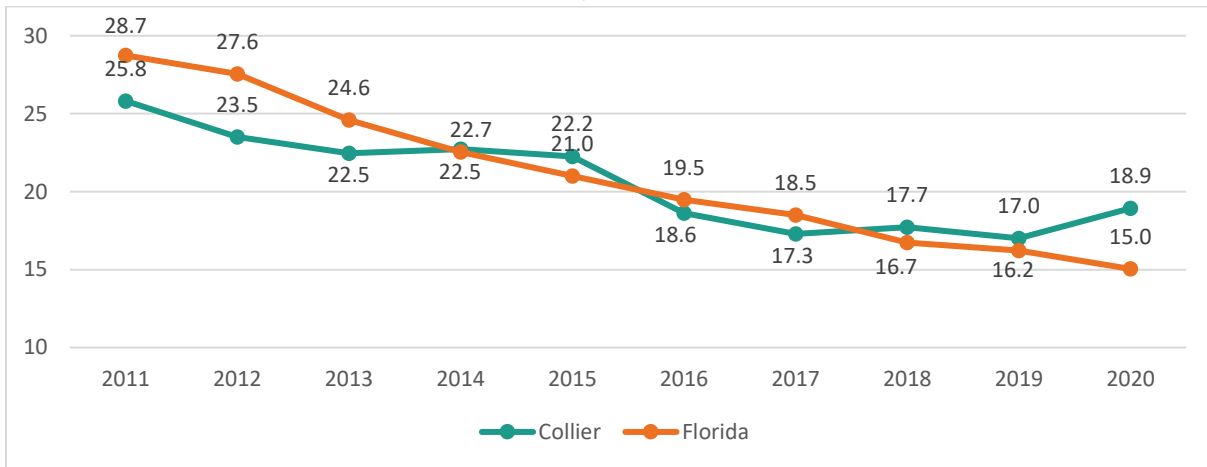


Source: Florida Department of Health, Bureau of Vital Statistics

Teenage pregnancy has been a priority area within public health for many decades. A birth to a teenager is at higher risk of a low birthweight baby, preterm birth, and infant death compared with babies born to older mothers.

While teenage birth rates have been in a long-term decline in the United States since the 1960s, the teen birth rate remains one of the highest among all industrialized countries. The rate of births to mothers aged 15-19 significantly declined in both Collier County and Florida between 2011 and 2019. However, there was an increase in Collier County in 2020 while the Florida rate continued to decline.

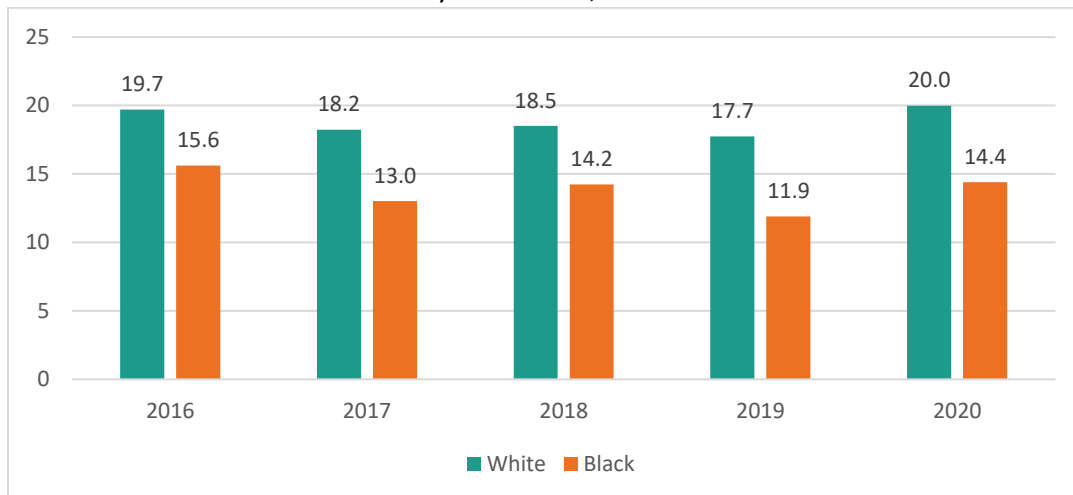
Exhibit HB117: Births by Mothers' Age, Age 15-19, Rate per 1,000 Total Population, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, between 2016 and 2020, the rate of births to mothers between the ages of 15 and 19 was higher among the white population than the Black population.

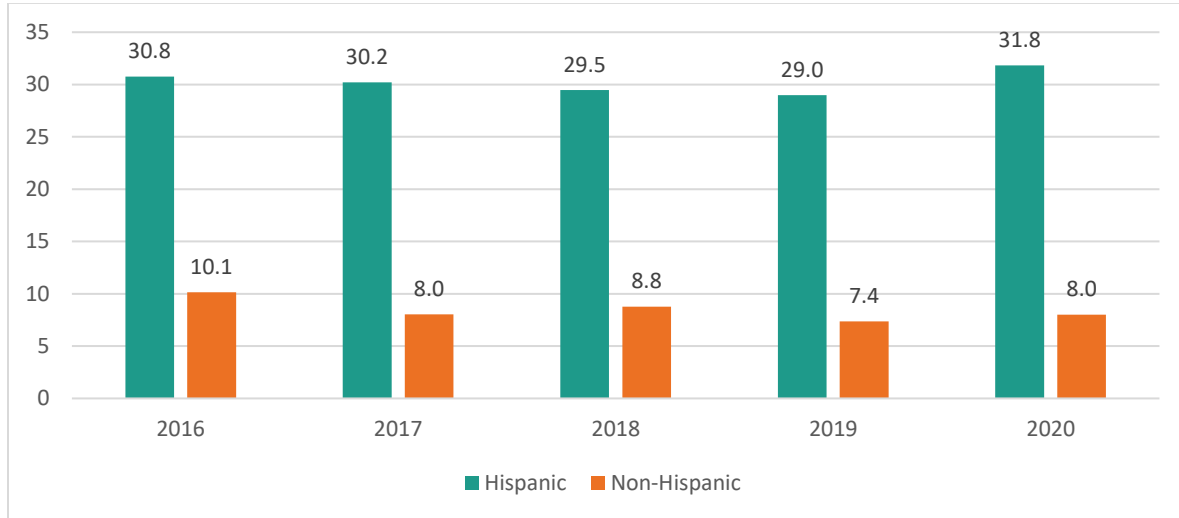
Exhibit HB118: Births by Mothers' Age, Age 15-19 by Race, Rate per 1,000 Total Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

In Collier County, between 2016 and 2020, the rate of births to mothers between the ages of 15 and 19 was significantly higher among the Hispanic population than the Non-Hispanic population.

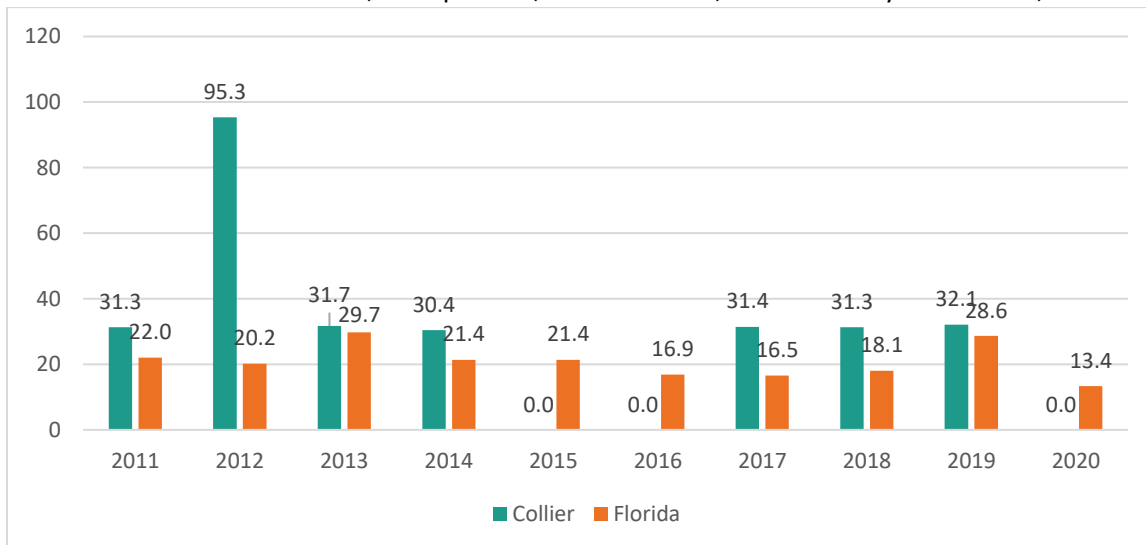
Exhibit HB119: Births by Mothers' Age, Age 15-19 by Ethnicity, Rate per 1,000 Total Population, Collier County and Florida, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Maternal death is a relatively rare event in the United States. According to the Centers for Disease Control and Prevention (CDC) approximately 700 women die each year because of their pregnancy, complications during delivery, or after delivery. While numerous factors influence the health outcome of a pregnancy, it is very crucial that women of reproductive age adopt and maintain healthy lifestyles before and during their pregnancy as well as receive routine prenatal care and attention throughout gestation. Collier County did not have any maternal deaths in 2020.

Exhibit HB120: Maternal Deaths, Rate per 100,000 Live Births, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

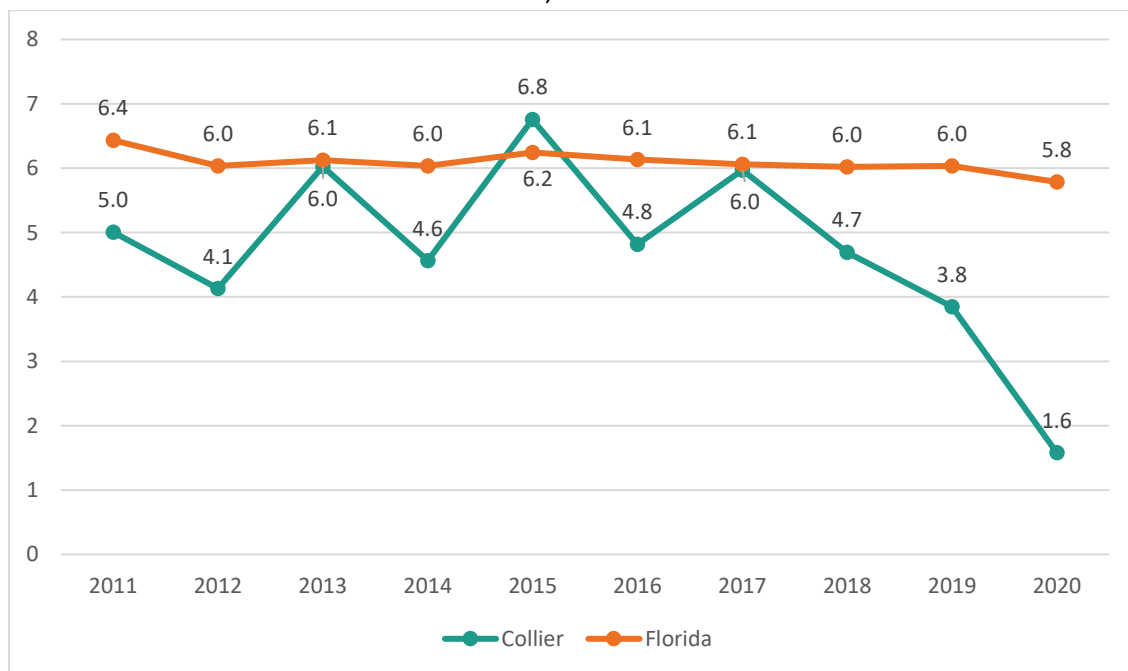
The infant mortality rate, the number of deaths occurring in the first year of life out of every 1,000 live births, has been used for over a century as a gauge of the overall health status of the nation, state, and county, and is frequently used for state to state and county comparisons by various public health agencies and medical and health oriented academic and service institutions. As of 2019, the infant mortality rate of the United States was 5.6 (Centers for Disease Control and Prevention).

The infant mortality rate varies geographically by state and is associated and affected by a myriad of factors which include: the education, income and age of the mother, the mother’s health status during pregnancy and her access to healthcare. Southern states have the highest infant mortality rates while states in New England and the Pacific Northwest have the lowest. Research has determined that the higher rates in the southern states are likely to be explained by the higher incidence of low birthweight outcomes and short gestational age births in these states. The ethnic and racial composition of the population within a state or county directly affects the level of the overall infant mortality rate due to the fact that certain racial and ethnic groups are associated with higher levels of infant deaths. The level of infant mortality rate is influenced by and correlated with the mother’s health and lifestyle behaviors, such as smoking, drinking, diet, substance abuse, physical activity, and her access to and use of prenatal care.

As discussed in the section covering mortality, life expectancy at birth is heavily weighted by infant mortality. Assuming actuarial methods used in the calculation of life expectancy, the lower the infant mortality rate, the higher the average number of years a person can expect to live when born.

The infant mortality rate in Collier County fell significantly between 2017 and 2020; it is lower than the rate for Florida (1.6 Collier vs. 5.8 Florida in 2020).

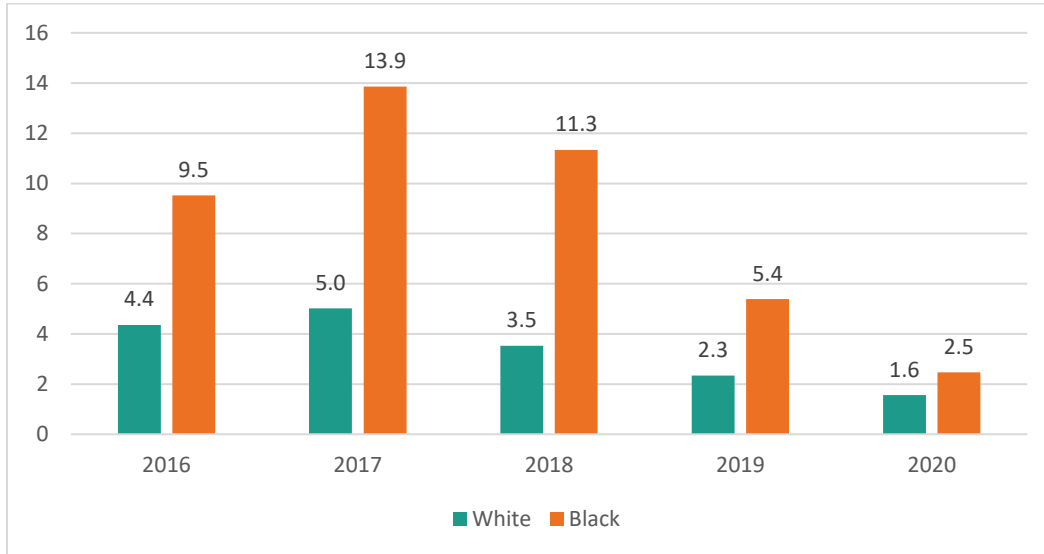
Exhibit HB121: Infant Mortality (0-364 days from birth), Rate per 1,000 Live Births, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

For the years 2016-2020, the infant mortality rate in 2020 was the lowest seen for white and Black populations in Collier County. The infant mortality rates for 2016-2020 are higher among the Black population than the white population.

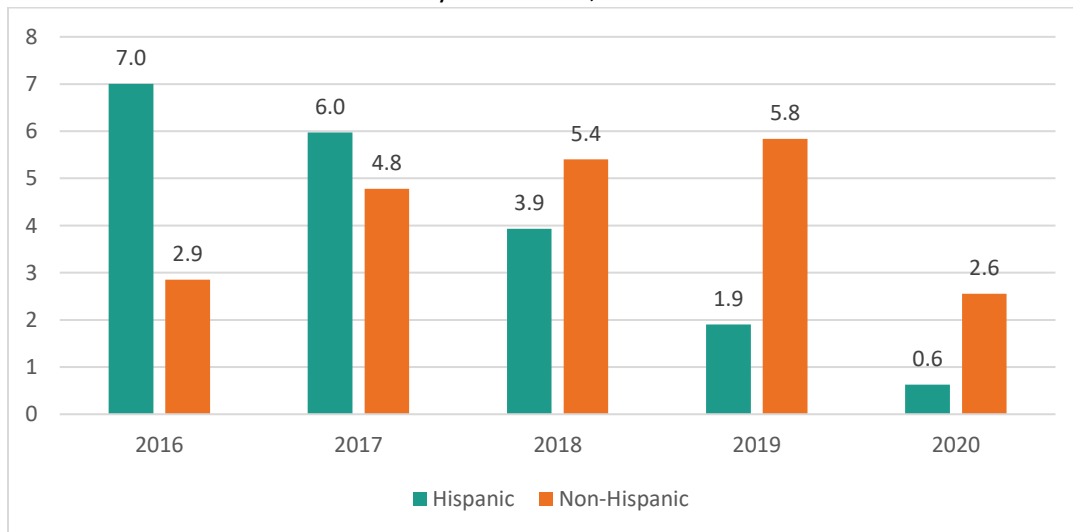
Exhibit HB122: Infant Mortality (0-364 days from birth) by Race, Rate per 1,000 Live Births, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

For the years 2016-2020, the infant mortality rate in 2020 was the lowest seen for Hispanic and Non-Hispanic populations in Collier County. The infant mortality rates for 2016-2020 are higher among the Non-Hispanic population than among the Hispanic population.

Exhibit HB123: Infant Mortality (0-364 days from birth) by Ethnicity, Rate per 1,000 Live Births, Collier County and Florida, 2011-2020



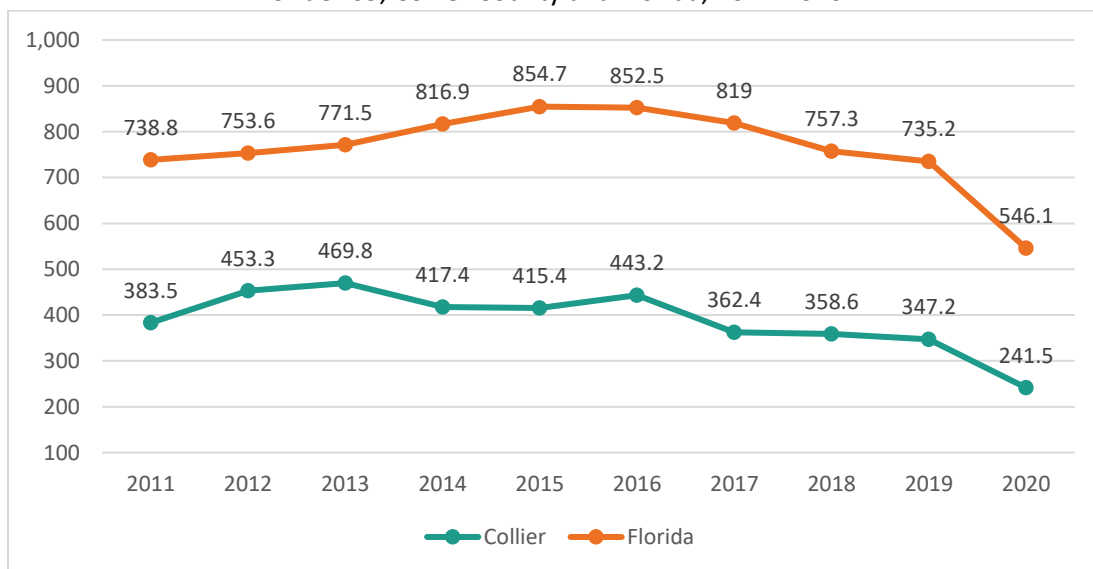
Source: Florida Department of Health, Bureau of Vital Statistics

## Oral Health

Oral health is central to a person’s overall health, well-being, and quality of life. In the United States, significant improvement in oral health over the past 50 years is a public health success story. Most of this improvement is due to effective treatment and prevention efforts. This also includes community water fluoridation, which now benefits almost 70 percent of people in the United States who get water through public water systems. Despite major improvements, some challenges persist. A person’s ability to access oral health care is influenced by factors such as income and education level. In general, people with lower levels of income and education are more likely to have poor oral health.

Dental conditions include teeth malformations, gingivitis, and caries. From 2016 to 2020, there was a decrease in preventable emergency room visits from dental conditions in Collier County (443.2 2016, 241.5 2020). Collier County in the past decade consistently had fewer people visit the emergency room for dental conditions than the Florida average.

Exhibit HB124: Preventable ER Visits Under 65 from Dental Conditions, Rate per 100,000 Population Under 65, Collier County and Florida, 2011-2020



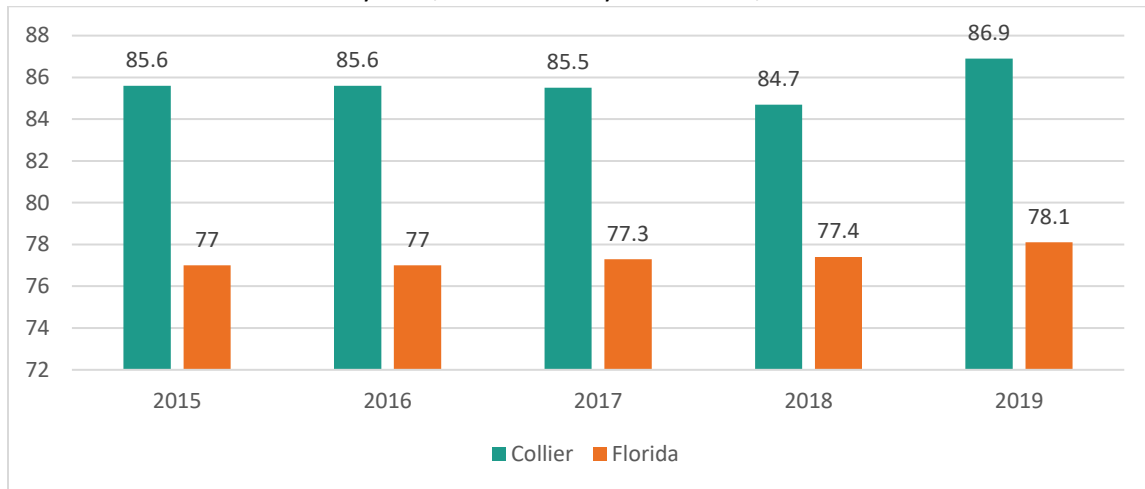
Source: Florida Agency for Health Care Administration (AHCA)

The Centers for Disease Control and Prevention (CDC) recognized community water fluoridation as one of 10 great public health achievements of 20<sup>th</sup> century. Community water fluoridation is the adjustment of existing fluoride level in the drinking water to a level (0.7-1.2 parts per million) recommended by the U.S. Public Health Service. The American Dental Association endorses community water fluoridation as a safe and effective way of preventing tooth decay.

Collier County consistently has a higher percentage of its population receiving fluoridated water when compared to the Florida average.



Exhibit HB125: Population Receiving Fluoridated Water, Percentage of Population Served by Community Water System, Collier County and Florida, 2015-2019



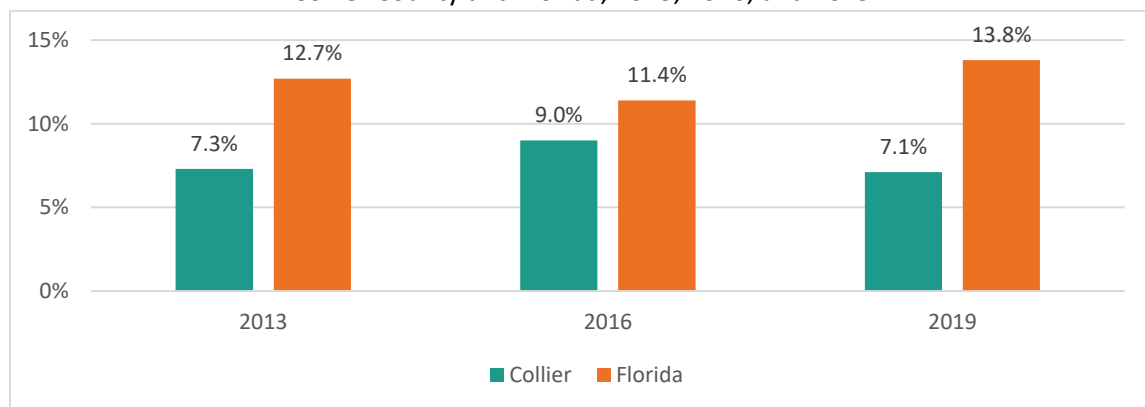
Source: Florida Department of Health, Public Health Dental Program (PHDP)

## Mental Health

Mental illnesses are defined as those health conditions that change a person’s behavior, feelings or thinking and cause the person distress and difficulty in performing daily life functions. Mental health affects how a person feels, thinks, and deals with daily stresses of life. Mental Health is important at every stage of life and includes social, emotional, and psychological well-being. Like other diseases, mental illness can range from mild to severe. People with mild mental illness may not display any visible signs and despite effective treatments, there can be long delays between the first onset of symptoms and when the person seeks treatment. There are also racial and ethnic disparities in access to mental health services.

From 2013 to 2019 when compared to the Florida average, Collier County had a smaller percentage of adults who experienced poor mental health on 14 or more of the past 30 days.

Exhibit HB126: Percent of Adults Who had Poor Mental Health on 14 or More of the Past 30 Days in Collier County and Florida, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

Regardless of race/ethnicity, Collier County had a smaller percentage of adults experiencing poor mental health on 14 or more of the past 30 days compared to the Florida average.

Exhibit HB127: Percent of Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, by Race/Ethnicity in Collier County and Florida, 2013, 2016, and 2019

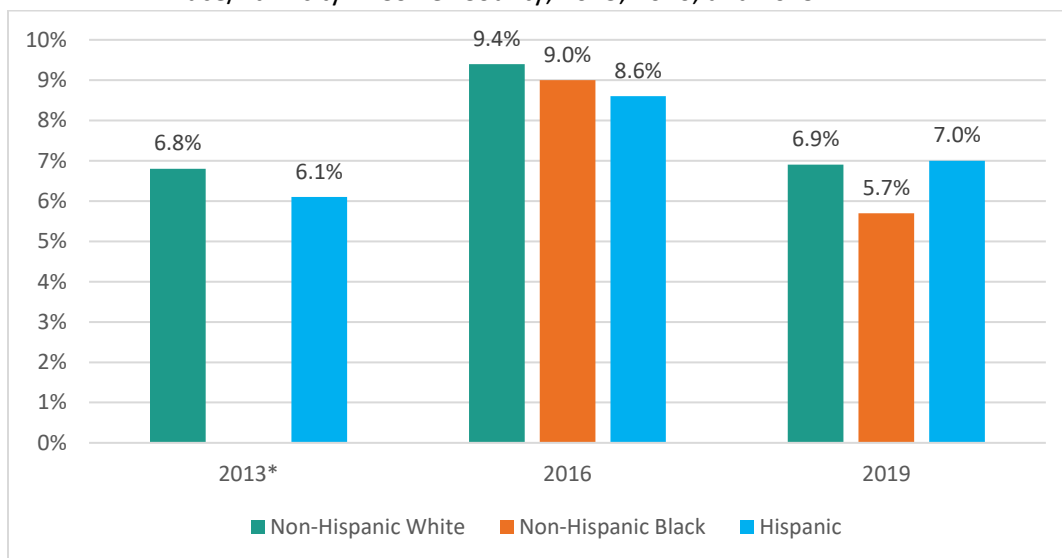
	Collier County			Florida		
	Non-Hispanic White	Non-Hispanic Black	Hispanic	Non-Hispanic White	Non-Hispanic Black	Hispanic
2013*	6.8%		6.1%	11.9%	14.75	13.1%
2016	9.4%	9.0%	8.6%	12.2%	10.8%	9.9%
2019	6.9%	5.7%	7.0%	15.0%	12.3%	12.5%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

From 2016 to 2019, there was a decrease in the percentage of Collier County adults in each of the racial/ethnic groups who experienced poor mental health on 14 or more of the past 30 days.

Exhibit HB128: Percent of Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, by Race/Ethnicity in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

\* Collier County 2013 Non-Hispanic Black, no data was collected for this group

In Collier County and Florida, a higher percentage of women experienced poor mental health on 14 or more of the past 30 days than men over the past six years.

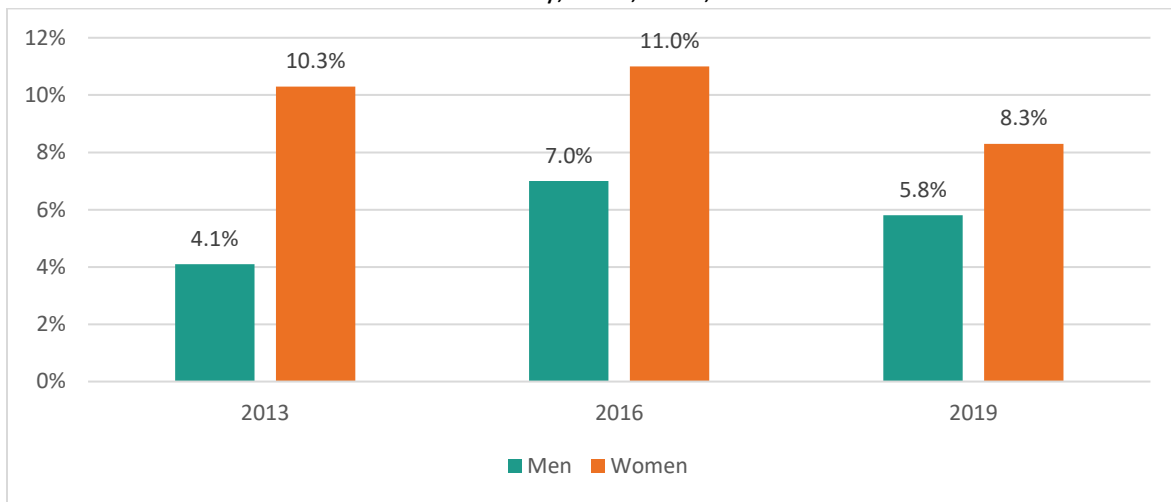
Exhibit HB129: Percent of Adults Who had Poor Mental Health on 14 or More of the Past 30 Days by Sex in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Men	Women	Men	Women
2013	4.1%	10.3%	10.9%	14.4%
2016	7.0%	11.0%	9.5%	13.2%
2019	5.8%	8.3%	11.4%	16.1%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

From 2013 to 2020, a higher percentage of women in Collier County experienced more poor mental health on 14 or more of the past 30 days than men.

Exhibit HB130: Percent of Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, by Sex in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In Collier County and Florida, a smaller percentage of those aged 65 and older experienced poor mental health days when compared to those 18 to 44 and 45 to 64 from 2013 to 2020.

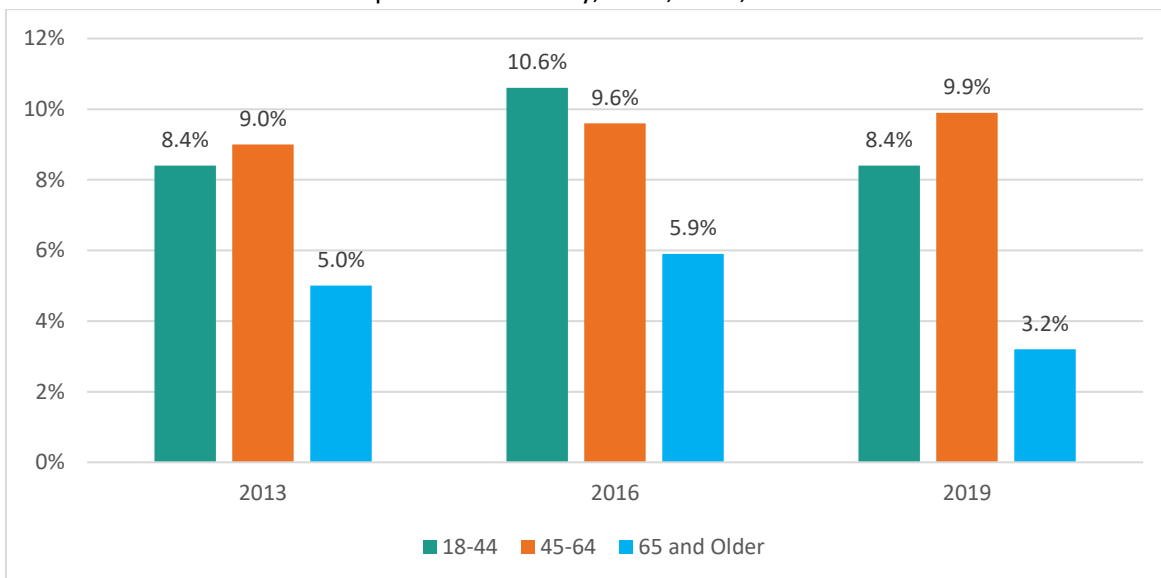
Exhibit HB131: Percent Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, By Age Group in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	18-44	45-64	65 and Older	18-44	45-64	65 and Older
2013	8.4%	9.0%	5.0%	12.6%	16.0%	8.4%
2016	10.6%	9.6%	5.9%	12.5%	13.0%	7.3%
2019	8.4%	9.9%	3.2%	15.6%	15.0%	9.7%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

When compared to the other age groups, a smaller percentage of those 65 and older experienced poor mental health on 14 or more of the past 30 days in Collier County; in 2019 the highest percentage who cited experiencing poor mental health on 14 or more days in the past month were between the ages of 45 and 64.

Exhibit HB132: Percent Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, By Age Group in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

A smaller percentage of adults in Collier County and Florida who were married/coupled experienced poor mental health on 14 or more of the past 30 days than adults who were not married/coupled.

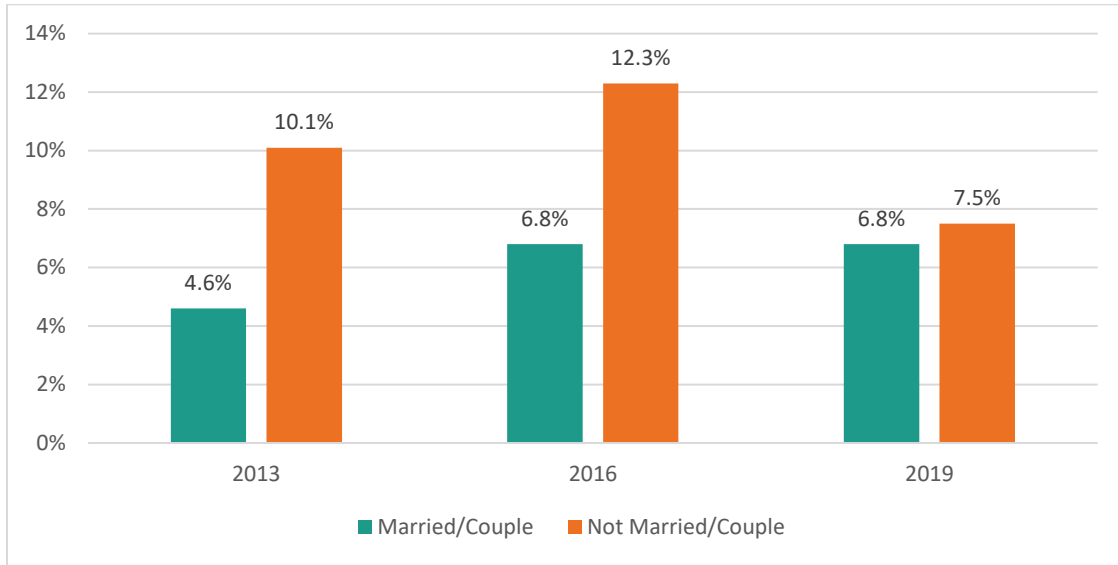
Exhibit HB133: Percent Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, By Marital Status in Collier County and Florida, 2013, 2016, and 2019

	Collier County		Florida	
	Married/Coupled	Not Married/Coupled	Married/Coupled	Not Married/Coupled
2013	4.6%	10.1%	10.5%	15.4%
2016	6.8%	12.3%	8.7%	14.5%
2019	6.8%	7.5%	10.7%	17.4%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

A higher percentage of adults in Collier County who are not married/coupled experienced having poor mental health on 14 or more of the past 30 days than those who are married/coupled from 2013 to 2019.

Exhibit HB134: Percent Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, By Marital Status in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2019, a lower percentage of adults with more than a high school education in both Collier County and Florida had poor mental health on 14 or more of the past 30 days when compared to those with less than a high school education and a high school/GED education.

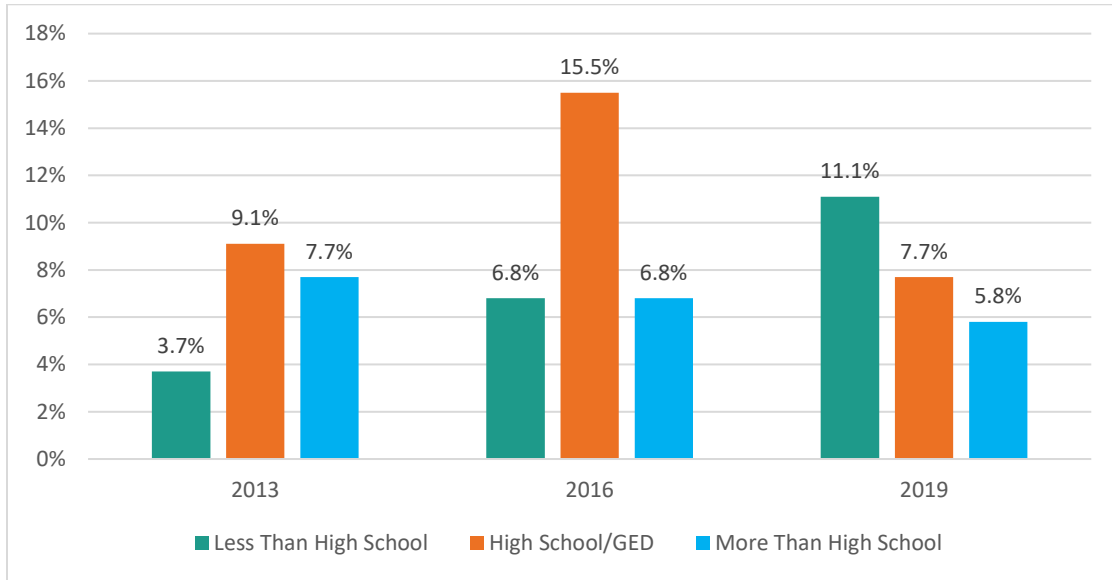
Exhibit HB135: Percent Adults Who had Poor Mental health on 14 or More of the Past 30 Days, By Education Level in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	Less Than High School	High School/GED	More Than High School	Less Than High School	High School/GED	More Than High School
2013	3.7%	9.1%	7.7%	19.7%	13.5%	10.4%
2016	6.8%	15.5%	6.8%	15.3%	12.1%	10.1%
2019	11.1%	7.7%	5.8%	19.5%	14.2%	12.5%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

From 2013 to 2019, adults in Collier County with less than a high school education saw an increase in the percentage of those who had poor mental health on 14 or more of the past 30 days, while adults who had more than a high school education had a decrease. In 2016, adults with a high school/GED education in Collier County had a significantly higher percentage, when compared to the other education levels, of having poor mental health on 14 or more of the past 30 days.

Exhibit HB136: Percent Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, By Education Level in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

In 2013 and 2019, a higher percentage of adults in Collier County and Florida who made \$25,000 or less annually experienced having poor mental health on 14 or more of the past 30 days than those earning \$25,000 - \$49,999 and \$50,000 or more a year.

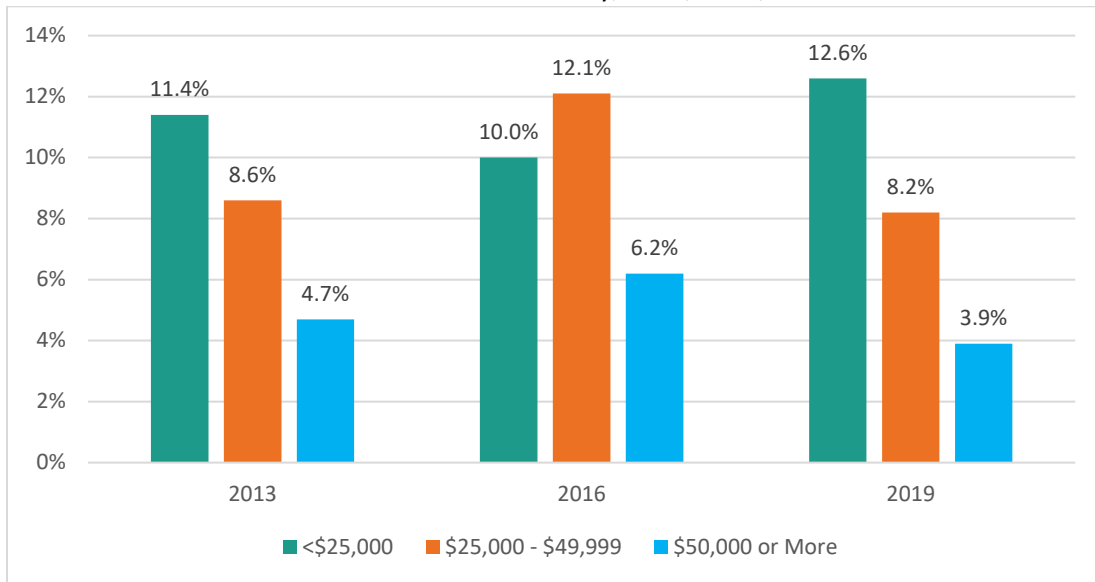
Exhibit HB137: Percent Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, By Annual Income in Collier County and Florida, 2013, 2016, and 2019

	Collier County			Florida		
	<\$25,000	\$25,000 - \$49,999	\$50,000 or More	<\$25,000	\$25,000 - \$49,999	\$50,000 or More
2013	11.4%	8.6%	4.7%	20.1%	13.0%	6.7%
2016	10.0%	12.1%	6.2%	17.8%	11.9%	7.6%
2019	12.6%	8.2%	3.9%	20.9%	13.4%	9.3%

Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

From 2013 to 2019, there was a decrease in the percentage of adults who made \$50,000 or more annually who had poor mental health on 14 or more of the past 30 days. Also, a smaller percentage of Collier County adults who make \$50,000 or more experienced poor mental health days when compared to those who make \$25,000 or less and \$25,000 to \$49,999 a year.

Exhibit HB138: Percent Adults Who had Poor Mental Health on 14 or More of the Past 30 Days, By Annual Income in Collier County, 2013, 2016, and 2019



Source: Florida Behavioral Risk Factor Surveillance System telephone survey conducted by the Centers for Disease Control and Prevention (CDC) and Florida Department of Health, Division of Community Health Promotion

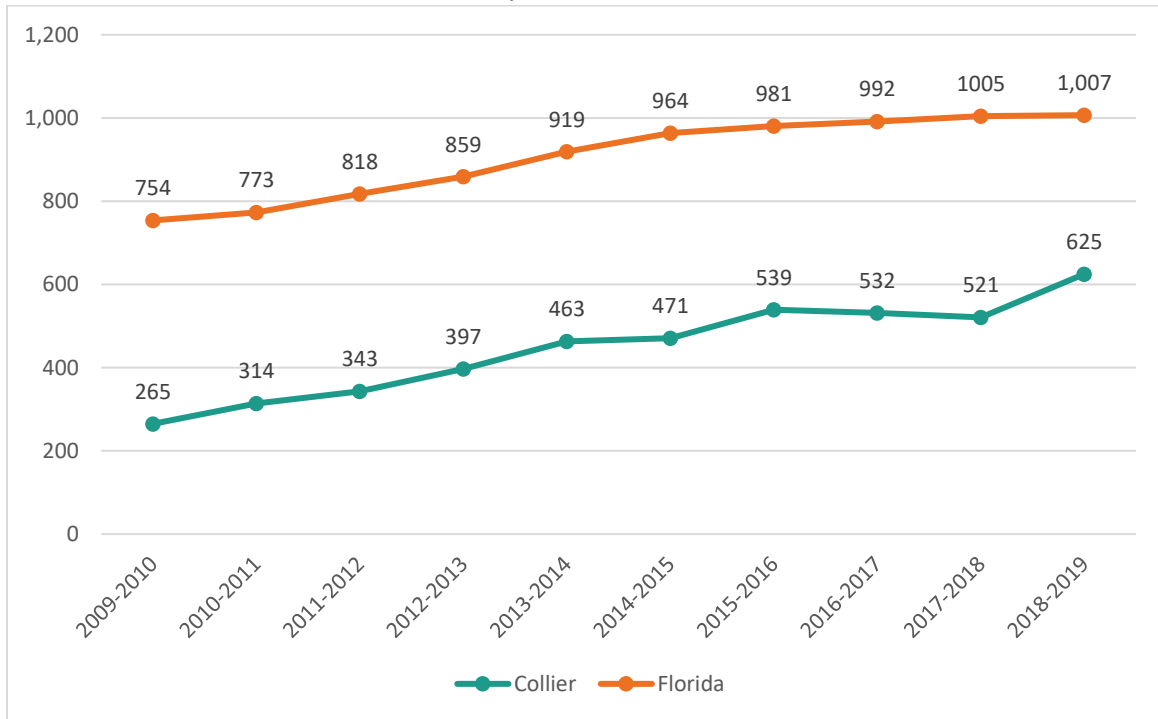
The Florida Mental Health Act of 1971 (commonly known as the “Baker Act”) is a statute allowing for involuntary examination of an individual. It was originally enacted, at least in part, because of widespread instances of elder abuse in which one or more family members would have another family member committed to gain control over their estate prior to their death. Once committed, it was difficult for patients to obtain representation, and they became warehoused until their death. The Baker Act allows for involuntary examination (what some call emergency or involuntary commitment). It can be initiated by judges, law enforcement officials, physicians, or mental health professionals. There must be evidence that the person has a mental illness (as defined in the Baker Act) and is a harm to self, harm to others, or self-neglectful (as defined in the Baker Act). Examinations may last up to 72 hours and occur in over 100 facilities statewide.

There are many possible outcomes following examination of the patient. This includes the release of the individual to the community (or other community placement), a petition for involuntary inpatient placement (what some call civil commitment), involuntary outpatient placement (what some call outpatient commitment or assisted treatment orders), or voluntary treatment (if the person is competent to consent to voluntary treatment and consents to voluntary treatment).

According to the Florida Baker Act Annual Report Fiscal Year 2018/2019, Collier County residents who received an involuntary examination were either seen at the David Lawrence Mental Health Center (62.8%) and/or Park Royal Hospital (19.9%).

From 2009 to 2019, there was a significant increase in involuntary examinations in Collier County. Even though there was an increase in Baker Acts among Collier County residents the county remains significantly lower than the Florida average (625 Collier vs. 1,007 Florida, 2020).

Exhibit HB139: Involuntary Examinations\*: Residents of Collier County and Florida of All Ages, Rate per 100,000, by Fiscal Year, 2009-2019



Source: 2018/2019 Florida Mental Health Act (The Baker Act) Reports, Baker Act Center

\*Involuntary examination forms for people who never reach a receiving facility are not received by the Baker Act Reporting Center, so are not included in the data

Between 2009 and 2019, there was an increase of 500 children who received involuntary examinations per year in Collier County (175 2009 vs. 680 2020). In the 2018 – 2019 fiscal year, 29 percent of the involuntary examinations were children, while 7 percent were older adults (65 or older).



Exhibit HB140: Involuntary Examinations\*: Residents of Collier County for Ten Years, 2009-2019

Fiscal Year	All Ages		Children % (<18)			Older Adults % (65+)		
	Exams	Rate per 100,000	Exams		Rate per 100,00	Exams		Rate per 100,000
			#	%		#	%	
2018-2019	2,295	625	680	29.63%	1,445.06	180	7.84%	155.60
2017-2018	1,861	521	436	23.43%	895.91	140	7.52%	138.68
2016-2017	1,864	532	428	22.96%	890.57	143	7.67%	145.78
2015-2016	1,853	539	459	24.77%	966.46	154	8.31%	161.02
2014-2015	1,585	471	392	24.73%	827.51	136	8.58%	146.63
2013-2014	1,546	463	318	20.57%	672.61	117	7.57%	130.31
2012-2013	1,310	397	265	20.23%	567.61	100	7.63%	112.97
2011-2012	1,111	343	185	16.65%	402.02	81	7.29%	94.02
2010-2011	1,008	314	170	16.87%	371.09	62	6.15%	72.98
2009-2010	884	265	175	19.80%	363.66	59	6.67%	73.65

Source: 2018/2019 Florida Mental Health Act (The Baker Act) Reports, Baker Act Center

\*Involuntary examination forms for people who never reach a receiving facility are not received by the Baker Act Reporting Center, so are not included in the data

During the 2018-2019 fiscal year, 60.3 percent of involuntary examinations were initiated by law enforcement, 39.4 percent were initiated by those with a professional certificate, and 0.4 percent were initiated through a ex parte order. Physicians had a larger percentage, almost 40 percent, of initiating a Baker Act when compared to other professionals.

Exhibit HB141: Fiscal Year 2018/2019 Involuntary Examinations\* for Collier County Residents by Initiation Type

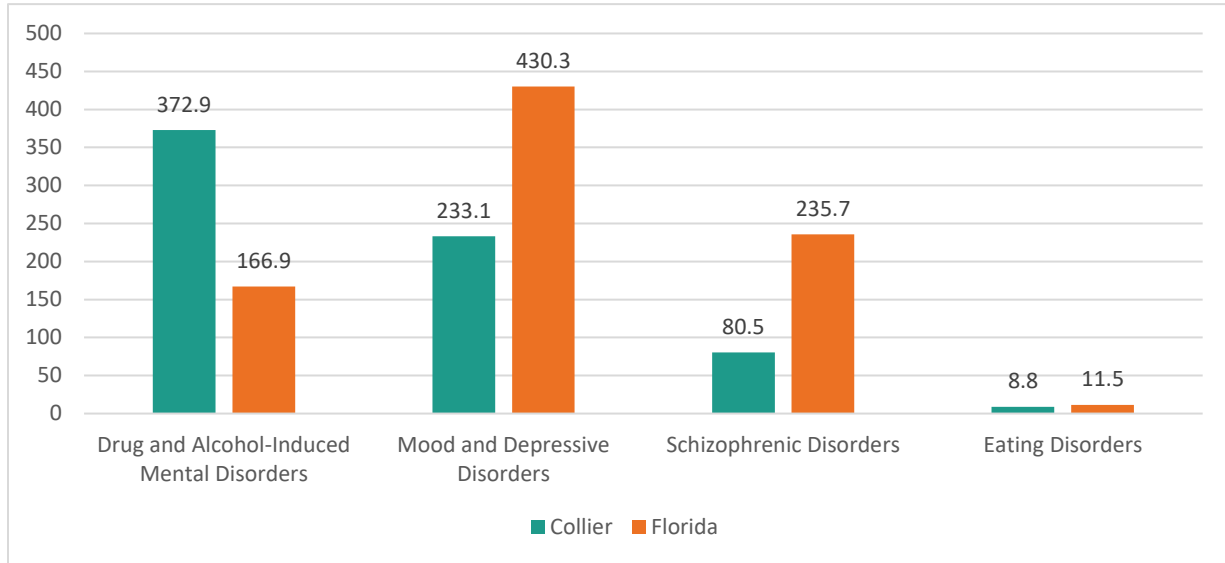
Professional Certificate Type	Percentage of Initiation
Physician (Not a psychiatrist)	39.65%
Licensed Mental Health Counselor	20.38%
Licensed Clinical Social Worker	14.62%
Physician (Psychiatrist)	9.19%
Psychiatric Nurse	5.76%
Physician Assistant	5.09%
Clinical Psychologist	1.66%
Not Reported	1.33%
Multiple Professional Types Reported	0.44%
Licensed Marriage and Family Therapist	0.00%

Source: 2018/2019 Florida Mental Health Act (The Baker Act) Reports, Baker Act Center

\*Involuntary examination forms for people who never reach a receiving facility are not received by the Baker Act Reporting Center, so are not included in the data

In Collier County in 2020, many of the hospitalizations for mental and behavioral health disorders were for drug and alcohol-induced mental disorders, while eating disorders had the smallest percentage. When compared to the Florida average, Collier County experienced a significantly higher rate of hospitalizations for drug and alcohol-induced mental disorders in 2020 (372.9 Collier vs. 166.9 Florida) and a significantly lower rate for mood and depressive disorders (233.1 Collier vs. 430.3 Florida) and for schizophrenic disorders (80.5 Collier vs, 235.7 Florida). It should be noted that the availability of services can have a large impact on the number of hospitalizations.

Exhibit HB142: Hospitalizations for Mental and Behavioral Health Disorders, All Ages, Rate per 100,000 Population, Collier County and Florida, 2020

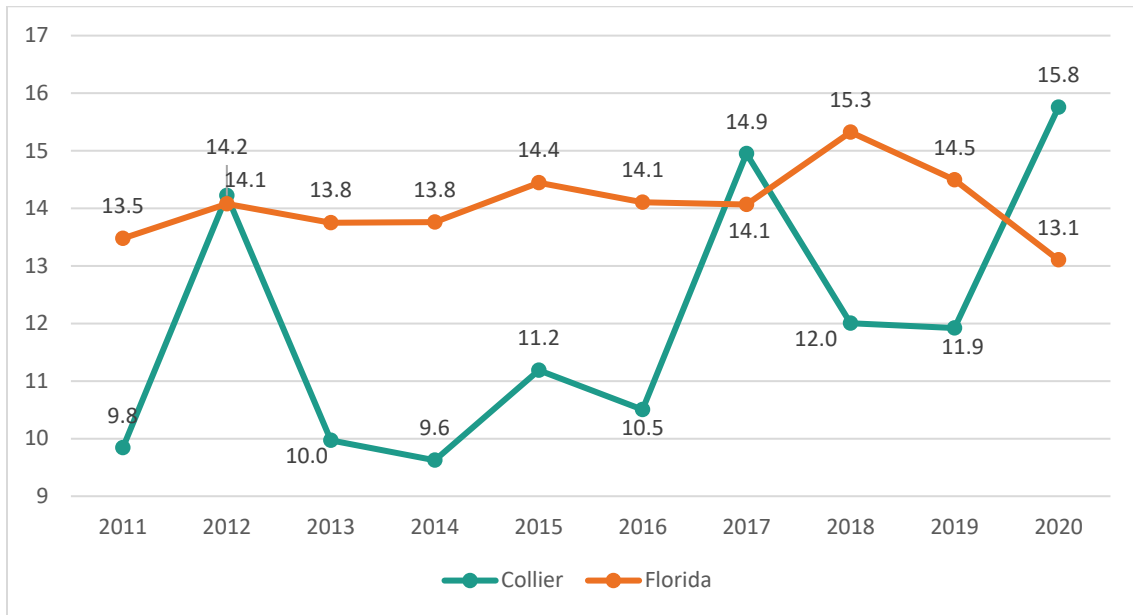


Source: Florida Agency for Health Care Administration

Suicide is a significant preventable public health problem in the United States. Several risk factors including history of depression or other mental illnesses, family history of suicide, and previous suicide attempts can increase the likelihood of someone attempting or dying from suicide.

Over the past decade there was a significant increase in suicide deaths in Collier County (9.8 2011 vs. 15.8 2020). 2014 saw the lowest rate of suicide deaths, 9.6 per 100,000, while 2020 had the highest suicide death rate. Collier County had a higher suicide death rate than Florida in 2012, 2017, and 2020.

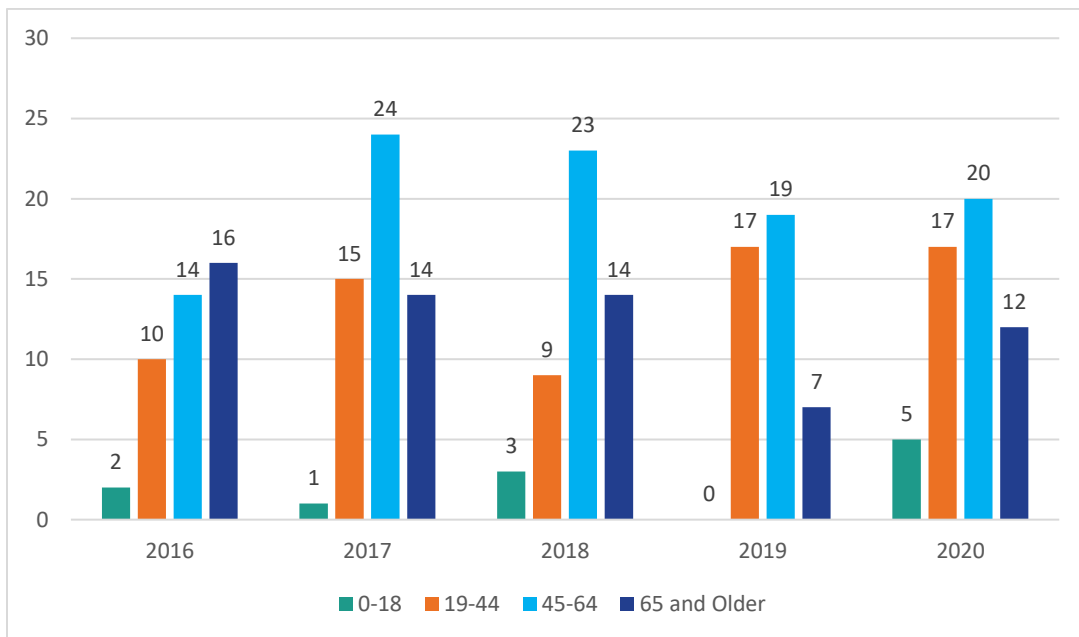
Exhibit HB143: Age-adjusted Suicide Deaths, Rate per 100,000 Population, Collier County and Florida, 2011-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Since 2017, the largest number of suicide deaths in Collier County have been among those aged 45-65.

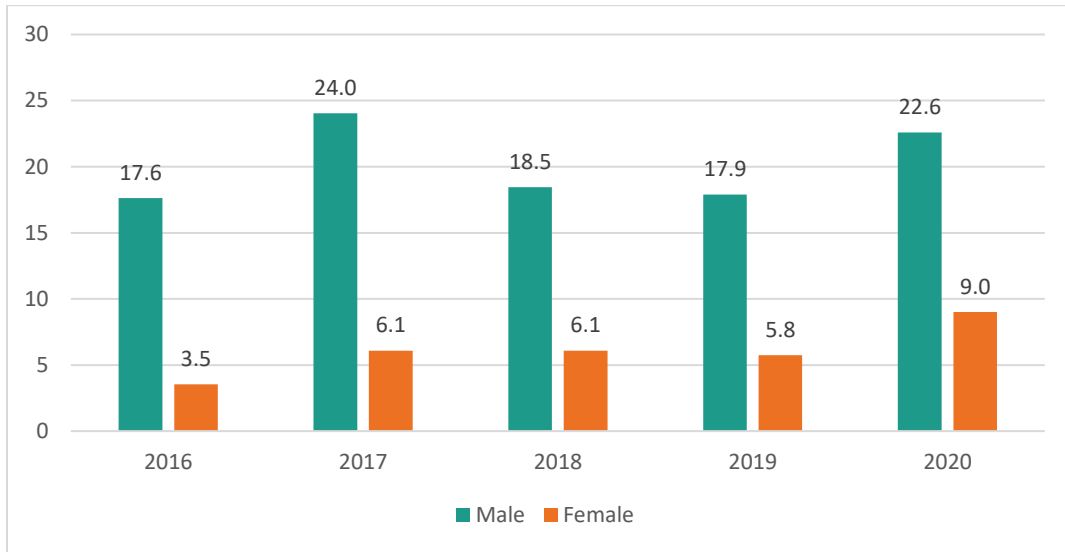
Exhibit HB144: Number of Suicide Deaths by Age, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

When compared to females, males have had a significantly higher rate of suicide deaths in Collier County. There was an overall increase over the past five years in the rate of female suicide deaths.

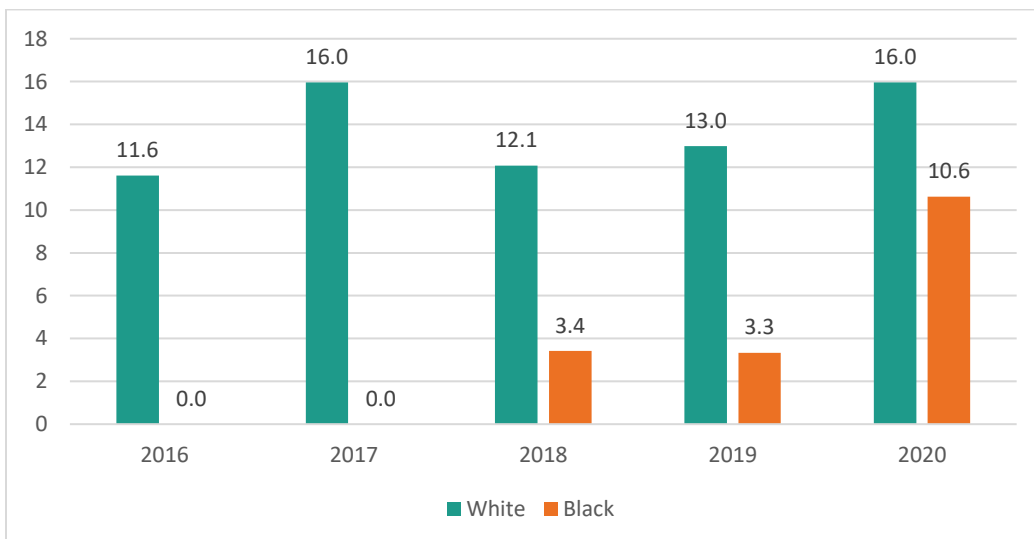
Exhibit HB145: Age-adjusted Suicide Deaths by Sex, Rate per 100,000 Population, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Between 2016 and 2020 in Collier County, white people had a higher suicide death rate when compared to Black people.

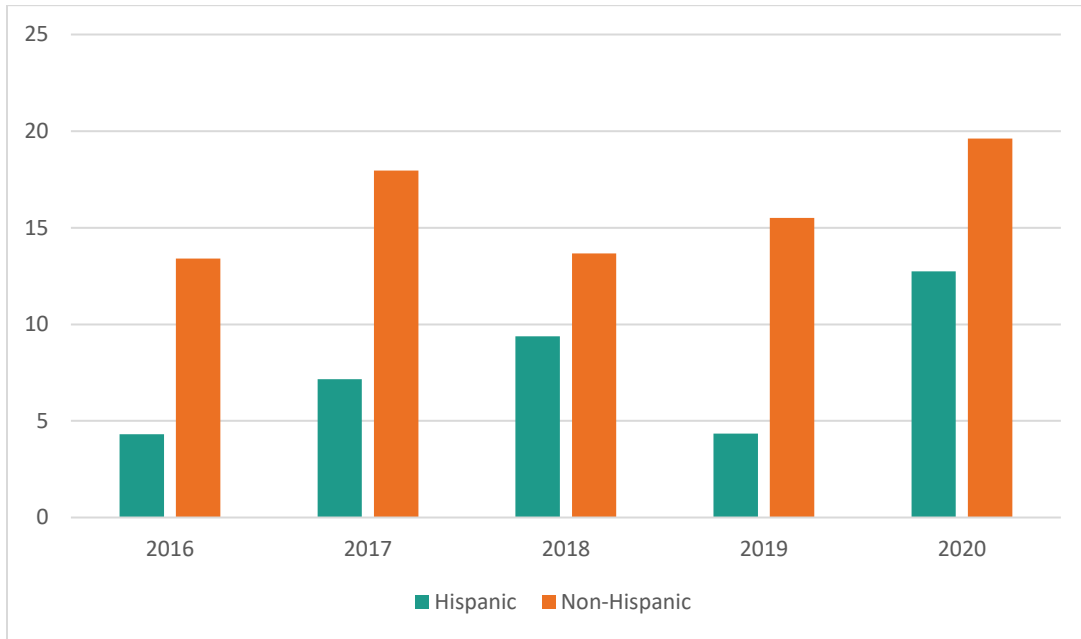
Exhibit HB146: Age-adjusted Suicide Deaths by Race, Rate per 100,000 Population, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics

Between 2016 and 2020 in Collier County, Non-Hispanic people had a higher suicide death rate when compared to Hispanic people.

Exhibit HB147: Age-adjusted Suicide Deaths by Ethnicity, Rate per 100,000 Population, Collier County, 2016-2020



Source: Florida Department of Health, Bureau of Vital Statistics