# Community Health Needs Assessment

## **Cecil County**

Fiscal Year 2019





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## **EXECUTIVE SUMMARY**

### **Collaboration**

Union Hospital collaborated with the Cecil County Health Department and the Cecil County Community Health Advisory Committee (CHAC) to conduct the Community Health Needs Assessment (CHNA). The CHNA planning team included Union Hospital's Community Benefit and Cecil County Health Department's Health Planning and Health Officer and Deputy Health Officer. The CHNA planning team was responsible to facilitate all component parts of the CHNA process, including writing and submitting the reports to the Internal Revenue Service (IRS) and updating CHAC. In addition, the CHNA planning team partnered with several community and governmental organizations to plan and prime for the implementation of the Community Health Improvement Plan (CHIP).

## **Key Partners**

### **Union Hospital of Cecil County**

Union Hospital is an award-winning, full-service, community hospital located in Elkton, Maryland. Nationally recognized for clinical excellence in the treatment and prevention of disease, this 84-bed, not-for-profit hospital is dedicated to providing superior, personalized, and quality health care to neighbors, families and friends. Union Hospital's values include: caring and compassion, leadership, integrity, and shared learning. Union Hospital is also in the community offering doctors, imaging, physical therapy, and other services to help people stay well.

#### **Cecil County Health Department**

Cecil County Health Department's mission is to improve the health of Cecil County and its residents in partnership with the community, by providing leadership to find solutions to the community's health problems through assessment, policy development, and assurance of quality health services and education. The health department offers services to all county residents through six divisions: 1) Administrative Services; 2) Addictions Services (Alcohol and Drug Recovery Center); 3) Community Health Services; 4) Environmental Health Services; 5) Health Promotion; and 6) Special Populations Services. The health department's goals include: preventing epidemics and the spread of disease, protecting against environmental hazards, preventing injury, promoting and encouraging healthy behavior and mental health, responding to disasters and assisting communities in recovery, and assuring the quality and accessibility of health services.

## **Community Health Advisory Committee**

The Cecil County Community Health Advisory Committee (CHAC) is a partnership of community organizations, government, groups, and individuals committed to improve the overall quality of health in Cecil County. CHAC serves as Cecil County's Local Health Improvement Coalition and is comprised of the five health task forces: 1) Cancer Task Force; 2) Tobacco Task Force; 3) Drug and Alcohol Abuse Council; 4) Core Services Agency Mental Health Advisory Board; and 5)

Healthy Lifestyles Task Force. Annual CHAC meetings are held to report progress on the Community Health Improvement Plan (CHIP) strategies from the five task forces. CHAC membership includes the following active organizations (attending since July 2017):

**Ashley Treatment Center** 

Cecil College

Cecil County Dept of Community Services

Cecil County Dept of Emergency Services

Cecil County Dept of Social Services

**Cecil County Government** 

Cecil County Health Department

**Cecil County Public Schools** 

**Health Care Professionals** 

Healthy Harford/Healthy Cecil WATCH Program

Maryland State Representatives

On Our Own of Cecil County

**Private Citizens** 

The Paris Foundation

Union Hospital of Cecil County

United HealthCare

**Upper Bay Counseling & Support Services** 

Voices of Hope

West Cecil Health Center

WIN Family Health

Meadow Wood Behavioral Health System

Youth Empowerment Source

## **Community Characteristics**

Union Hospital and Cecil County Health Department are responsible to meet the needs of a county with broad health and socio-economic factors. These factors can impact many health issues, so it is important to address them according to community need and in partnership with community organizations. According to NACCHO, when assessing the health and wellbeing of a community, it is important to analyze the population's demographics, health resources, quality of life, social determinants of health, societal health, behavioral risk factors, environmental health, maternal and child health, communicable disease, and mortality.

## **Location & Population**

Cecil County is located in the upper northeastern corner of the Chesapeake Bay in Maryland and borders Pennsylvania and Delaware. The county seat is located in Elkton, Maryland, and there are eight towns and seven unincorporated communities in the county.

Union Hospital and Cecil County Health Department serve all of Cecil County, providing services and care for residents in the zip codes listed in **Table 1**. These zip codes also make-up Union Hospital's primary and secondary service areas, as denoted in Table 10, and collectively are known as the Community Benefit Service Area (CBSA) for Union Hospital.

Table 1. Cecil County Zip Codes

| Primary Service Area    | Secondary Service Area |
|-------------------------|------------------------|
| 21921 – Elkton          | 21902 – Perrypoint     |
| 21922 – Elkton          | 21903 – Perryville     |
| 21901 – North East      | 21904 – Port Deposit   |
| 21916 – Childs          | 21917 – Colora         |
| 21920 – Elk Mills       | 21918 – Conowingo      |
| 21915 – Chesapeake City |                        |
| 21914 – Charlestown     |                        |
| 21911 – Rising Sun      |                        |
| 21912 – Warwick         |                        |
| 21913 – Cecilton        |                        |
| 21919 – Earleville      |                        |
|                         |                        |

In 2017, the total population of Cecil County was estimated to be 102,416. This is an increase of 2.3% from the estimated population in 2010 (100,139). By zip code the largest population centers in Cecil County are 21921 (44,397), 21901 (17,538) and 21911 (11,385).1

## Age & Sex

Approximately 23.3% of Cecil County residents were under 18 years of age from 2013-2017, while 14.4% were 65 years of age or older. During this time period, the median age in Cecil County was 40.3 years, with females having a slightly higher median age than males (40.7 years vs. 39.9 years). The largest age groups for both males and females in Cecil County were 50 to 54 years. Figure 1 shows a population pyramid for Cecil County residents by age and sex.<sup>2</sup>

Cecil County Population by Age and Sex, 2013-2017 Age 85+ 80 to 84 75 to 79 70 to 74 65 to 69 60 to 64 55 to 59 50 to 54 45 to 49 40 to 44 35 to 39 30 to 34 25 to 29 20 to 24 15 to 19 10 to 14 5 to 9 Under 5 6.00 Percent Male Percent Female

Figure 1. Cecil County Population by Age and Sex

US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Population by zip code [data file]. Accessed at: https://factfinder.census.gov

US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Population by age and sex [data file]. Accessed at: https://factfinder.census.gov

## **Race & Ethnicity**

Cecil County is less racially diverse than the State of Maryland, with 88.3% of Cecil County residents identifying as White alone from 2013-2017, compared to 56.6% in Maryland. Likewise, only 4.1% of Cecil County residents identify as Hispanic/Latino compared to 9.6% statewide. A majority of Cecil County residents (95.1%) speak only English at home. The town of Elkton has a greater proportion of minority populations than the rest of the county. **Figure 2** shows a breakdown of Cecil County residents by race.<sup>3</sup>

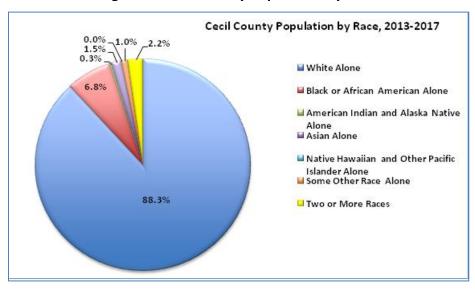


Figure 2. Cecil County Population by Race

## **Origins & Languages Spoken**

From 2013-2017 an estimated 3,460 foreign born individuals resided in Cecil County. A majority of Cecil County residents (95.1%) speak only English at home. Among Cecil County residents who speak a language other than English at home, an estimated 30.8% (1,460 individuals) speak English less than very well. The most common language spoken is Spanish (2.5%).<sup>4</sup>

## **Income & Poverty**

From 2013-2017, the median household income in Cecil County was \$70,516 and the median family income was \$85,539. This was significantly lower than the median household income of \$78,916 and median family income of \$95,597 for Maryland during this time period. In Cecil County, an estimated 9.4% of individuals live below the Federal Poverty Level (FPL) from 2013-2017, compared to 9.7% in Maryland. Certain populations in Cecil County are more likely to live below the FPL. **Figure 3** show the percentage of individuals below the poverty level by race/ethnicity.<sup>5</sup>

<sup>&</sup>lt;sup>3</sup> US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Population by Race [data file]. Accessed at: https://factfinder.census.gov

<sup>&</sup>lt;sup>4</sup> US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Population by Language Spoken [data file]. Accessed at: https://factfinder.census.gov

<sup>&</sup>lt;sup>5</sup> US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Poverty by Race and Ethnicity [data file]. Accessed at: <a href="https://factfinder.census.gov">https://factfinder.census.gov</a>

Percentage of Cecil County Population Living Below Poverty Level by Race & Ethnicity, 2013- 2017 36.60% 21.60% 18.90% 18.30% 13.40% 7.90% 2.10% 0.00% White alone Black or Asian alone American Native Some other Two or more Hispanic or African Indian and Hawaiian and race alone Latino origin races American Alaska Native Other Pacific (of any race) alone alone Islander alone

Figure 3. Poverty by Race & Ethnicity

Adults with less than a high school education in Cecil County are significantly more likely to be below the poverty level than those with at least a high school education. **Figure 4** shows the percentage of individuals ages 25 and older that are below the poverty level by educational attainment.<sup>6</sup>

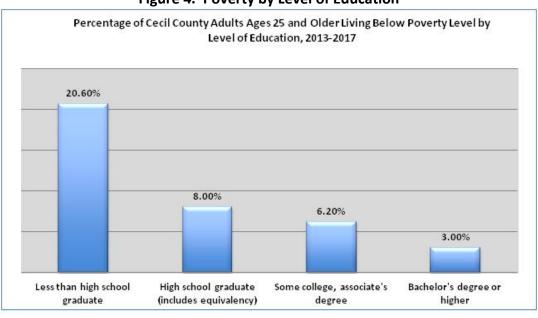


Figure 4. Poverty by Level of Education

<sup>&</sup>lt;sup>6</sup> US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Poverty by Level of Education [data file]. Accessed at: <a href="https://factfinder.census.gov">https://factfinder.census.gov</a>

Cecil County families with a female householder and no husband present are also significantly more likely to live in poverty (18.0%) than married couple families (2.7%). Among female householder families with children this percentage is even higher (27.4%).

Employment status is also a major influencing factor in the burden of poverty in an area, especially for families where there is only one parent present. From 2013-2017, the unemployment rate in Cecil County was at 5.8%.<sup>7</sup>

Estimates of poverty do not tell the whole picture when it comes to population struggling to afford basic needs. The United Way's ALICE (Asset Limited, Income Constrained, Employed) captures households that earn more than the FPL, but less than the basic cost of living for the county. In 2016 an estimated 30% of Cecil County households met these criteria in addition to 9% of households that were below the FPL. Certain areas of the county are more likely to be struggling. Households in the towns of Cecilton (66%), Elkton (56%), Port Deposit (56%), Chesapeake City (54%) and North East (52%) were most likely to be below the threshold for ALICE or the FPL in 2016.<sup>8</sup>

#### **Veterans**

From 2013-2017 an estimated 7,314 veterans resided in Cecil County. This is roughly 9.3% of the civilian population 18 years of age and older. The veteran population is largely male (92.5%) and has a higher burden of disability (24.8%) than the general population (14.8%).<sup>9</sup>

## **Assessing Community Health Needs**

The CHNA, conducted during Fiscal Year (FY) 2019, reflects the current status of the medical and social determinants of health for Cecil County and provides a quantitative and qualitative data analysis for key health issues. The health issues that were prioritized as a result of these data analyses were:

- 1) Cancer;
- 2) Behavioral Health (comprised of Substance Use and Mental Health); and
- 3) Childhood Trauma.

## Methodology

The CHNA, an IRB-exempt process, consisted of collecting and analyzing primary and secondary data, as well as facilitating strategic planning sessions to create the Community Health Improvement Plan (CHIP).

<sup>&</sup>lt;sup>7</sup> US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Unemployment [data file]. Accessed at: https://factfinder.census.gov

<sup>&</sup>lt;sup>8</sup> United Way. ALICE Report: A Study of Financial Hardship in Maryland. County Data, 2018. Accessed at: https://www.uwcm.org/main/alice/

<sup>&</sup>lt;sup>9</sup> US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Veterans [data file]. Accessed at: <a href="https://factfinder.census.gov">https://factfinder.census.gov</a>

#### **Data Collection**

Primary data collection consisted of:

- Facilitating an online community survey. The online community survey developed during the FY 2016 CHNA was used again with the FY 2019 CHNA (see Appendix A). The intention of this is to build previous data with each CHNA conducted. The survey was available from July 2018 to September 2018 through an online link and by paper (available at several community-based locations, like Cecil County Public Libraries and Union Hospital Multi-Specialty Practices). The survey consisted of twenty questions multiple choice, Likert Scale selections, and free text entry and covered four topics: 1) demographics; 2) community health; 3) quality of life; and 4) access to health care. The survey took 15-20 minutes to complete and 1,403 people completed the survey (more than double the number of respondents that completed the FY 2016 online community survey). Paper surveys received were manually entered as submissions into the online community survey. All data collected was managed by Cecil County Health Department using Survey Monkey's analytical tools.
- Hosting focus groups with vulnerable populations. Focus groups were hosted with five vulnerable populations in Cecil County: low-income housing, homeless, older adults, veterans, and a minority group. Sessions were held in the community at a location that was convenient to the participants. Food was provided. Sessions lasted 1.5-2 hours and included one Facilitator and one Scribe. Sessions were well attended (averaged 10 people per group). Feedback from participants was handwritten on large Post-it™ notes by the Scribe and information was reviewed in session with participants to ensure all feedback was accurately captured.
- Conducting interviews with community leaders. Interviews were conducted to garner
  a community leadership perspective about the health and quality of life in Cecil County.
  Interviews, made by appointment, were conducted by Union Hospital and took 1-2
  hours to complete. Interviews were conducted in a location convenient for the
  interviewees and all answers were confidential, accessible only by the CHNA planning
  team. Feedback was audio recorded (with permission), transcribed, and the audio files,
  notes, and transcriptions have been stored in a secure Google drive managed by Cecil
  County Health Department to maintain respondents' confidentiality.

Secondary data collection consisted of consulting and analyzing a variety of local, state, and national resources in order to create a comprehensive demographic, socio-economic, and health profile for Cecil County. Data sources consulted for this assessment included:

| ARCGIS: Business Analyst, Delorme map data, ESRI, & US Census Tigerline Files | Maryland Department of<br>Human Resources          | National Provider Identification<br>File                     |
|---|--|--|
| Area Health Resource File   | Maryland Department of the<br>Environment          | Prevention and Health Promotion Administration, DHMH         |
| Centers for Medicare and Medicaid Services                                    | Maryland Health Services Cost<br>Review Commission | Substance Abuse and Mental<br>Health Services Administration |

| Center for Sexually Transmitted Infection Prevention, DHMH | Maryland Medicaid Service<br>Utilization                  | The Maryland Uniform Crime<br>Reporting Program             |
|--|---|---|
| Children's Bureau  | Maryland Vital Statistics<br>Administration               | US Census Bureau  |
| Claritas, Inc.   | Maryland Youth Risk Behavioral<br>Survey                  | US Department of Agriculture:<br>Economic Research Services |
| County Health Rankings                                     | Maryland Youth Tobacco Survey                             | US Department of Education                                  |
| Fatality Analysis Reporting System                         | Meditech 6.1  | US Department of Health and<br>Human Services               |
| Feeding America  | National Center for Education<br>Statistics               | US Department of Housing and Urban Development              |
| Healthy Communities Institute                              | National Association for city and County Health Officials | US Department of Justice                                    |
| Maryland Behavioral Risk Factor<br>Surveillance System     | National Vital Statistics System –<br>Mortality           | United Way  |

#### **CHIP Planning**

The strategic planning portion of the CHNA involved the CHNA planning team meeting with Community Health Advisory Committee (CHAC) membership to create the Community Health Improvement Plan (CHIP). This usually requires several CHAC meetings held in the spring of a CHNA year to formulate objectives and strategies to address the prioritized health needs. The product of this process is a strategic plan created from scratch based on the expertise that is in the room during the meetings.

For this third cycle of CHNA, the CHNA planning team decided to try a different approach. The planning team met with several community groups who are currently connected with the prioritized health needs in order to determine what strategies currently exist to reduce the burden in the community regarding the priority health needs. The table below shows which groups were consulted per health priority.

Table 2. Community Groups Consulted by Health Priority

| Cancer     | Cecil County Cancer Task Force                        |  |
|------------|---|--|
| Behavioral | Substance Use   |  |
| Health     | Cecil County Drug and Alcohol Abuse Council           |  |
|            | Cecil County Drug-Free Communities Coalition          |  |
|            | Opioid Misuse Prevention Project                      |  |
|            | Mental Health   |  |
|            | Core Service Agency Mental Health Advisory Board      |  |
| Childhood  | Cecil County Local Management Board: Childhood Trauma |  |
| Trauma     | Subcommittee  |  |

Work plans per group were consulted to identify strategies where CHAC membership could help support current activities, promote prevention and education, and/or provide additional

in-kind support – the goal being to enhance the work already being done in the community around these issues.

## **Input from the Community**

The Community Health Needs Assessment must include input from people that represent the community. Required groups include: residents, local government, public health, community leadership, minorities, vulnerable populations (medically underserved, low-income, the poor, and working poor), and organizations representing these populations.

Union Hospital and Cecil County Health Department decided to work through the Cecil County Community Health Advisory Committee (CHAC), a major health coalition with sector representation from all the required groups as well as additional groups, to gather input for the CHNA. Information gathering included an online community survey (with a written comments section), focus groups, and interviews. The CHNA also conducted strategic planning sessions that engaged organizations and advocacy groups that represented vulnerable populations. These groups were identified according to their alignment with the health priorities selected in January 2019 by CHAC and the CHNA planning team.

#### Reporting

The CHNA process reflects the collaboration of community partners working together to achieve the same health improvement goals for Cecil County. The information presented in this CHNA report examines the processes involved in conducting the CHNA, the health needs prioritization process resulting in selected health priorities, and implementation planning resulting in the creation of the CHIP that will measure progress for community health improvement activities from FY 2020 – FY 2022.

## **Cecil County Health Priorities**

## **Health Priorities**

The health needs prioritized by the Cecil County CHNA collaborative during the FY 2019 CHNA are as follows:

- 1) Cancer
- 2) Behavioral Health (comprised of Substance Use and Mental Health)
- 3) Childhood Trauma

The following sections explain each of these priority areas in greater detail. Each synopsis includes Cecil County data. Where applicable/available, there may also be comparisons between data reported in the previous CHNA (FY 2016) and this current assessment.

#### **Cancer**

In 2016 the following cancer death rates were measured for Cecil County: 10

• All cancers: 201.6 deaths/100,000 population

• Lung cancer: 61.5 deaths/100,000 population

• Prostate cancer: 27.2 deaths/100,000 population

• Breast cancer: 23.5 deaths/100,000 population

• Colorectal cancer: 17.2 deaths/100,000 population

The information presented in the following sections explains each of these cancers. For more information on the impact of cancer in Cecil County, please refer to the Union Hospital Cancer Needs Assessment (<a href="https://www.uhcc.com/services-2/cancer-program/">https://www.uhcc.com/services-2/cancer-program/</a>). The Cancer Needs Assessment was compiled to meet the accreditation requirements for the Commission on Cancer in association with the Union Hospital Cancer Program, the Union Hospital Breast Center, and the Union Hospital Cancer Committee. The assessment also includes a Community Outreach Plan which describes the cancer supports in place to reduce barriers to cancer care created by the social determinants of health.

#### **Lung Cancer**

The risk for lung cancer increases for people who use tobacco products, especially those who smoke tobacco products. In 2017, an estimated 24.8% of adults reported smoking cigarettes in Cecil County. This is an increase from the last CHNA where data from 2014 showed that an estimated 12.4% of adults reported smoking cigarettes. The 2017 data is significantly more important when considering the age of the adults who smoked. Nearly 27% of adult smokers in 2017 were between the ages of 45 and 64 years old – the prime age group eligible for the low-

<sup>&</sup>lt;sup>10</sup> National Cancer Institute. Age-Adjusted Death Rate due to All Cancers, Lung Cancer, Prostate Cancer, Breast Cancer, and Colorectal Cancer, Cecil County, Maryland [data files]. Accessed at: <a href="https://statecancerprofiles.cancer.gov">https://statecancerprofiles.cancer.gov</a>

dose lung CT screening. Again, this showed an increase from the last CHNA which reported an estimated 24% of adult smokers in this age group. <sup>11</sup>

#### Low-Dose Lung CT Screenings

A screening protocol has been established to detect malignant tumors early, before symptoms appear, so that disease can be more successfully treated. This protocol uses a Low Dose Computed Topography (LDCT) scan with special X-ray equipment to detect malignant growths. The LDCT screening protocol is non-invasive and requires only stillness while the machine scans the chest and back areas (about 15 minutes). The earlier that lung cancer can be diagnosed and staged, the better the chances are of survival. With the LDCT scans available in Cecil County, there have been more lung cancers diagnosed in the Localized stage, which could correlate to a higher percentage of relative survival. A study by the National Cancer Institute and the National Lung Screening Trial found that LDCT scans can decrease lung cancer deaths by 15-20% (or 3 fewer deaths per 1,000 patients screened).<sup>12</sup>

Union Hospital's Lung Health Program includes the LDCT scan as a screening protocol for lung cancer. Annual lung cancer screenings with LDCT scans are recommended for patients that meet the following criteria:

- Aged between 55 and 74 years
- Current smoking status or have quit smoking within the past 15 years
- Have no symptoms of lung cancer
- Have a 30-pack year smoking history (pack year = number of packs of cigarettes smoked per day multiplied by number of years as a smoker)

#### **Prostate Cancer**

Prostate cancer is the leading cause of cancer death in men in the United States (US). The American Cancer Society states that 1 in 7 men will be diagnosed with prostate cancer and 1 in 36 men will die from it. In the US, Men over the age of 65 years and African American men have the highest risk for prostate cancer. In Cecil County, the incidence rate for prostate cancer has been on the decline over the last several years (Figure 5), especially among African American males (Figure 6).

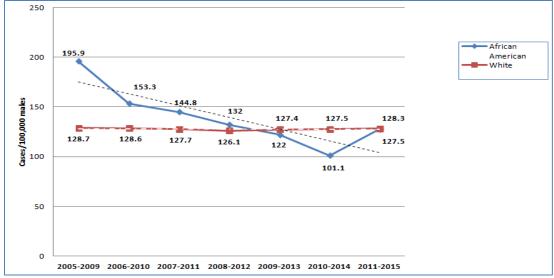
<sup>&</sup>lt;sup>11</sup> Maryland Behavioral Risk Factor Surveillance System. Adults who Smoke [data file]. Accessed at: https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/

<sup>&</sup>lt;sup>12</sup> National Cancer Institute. National Lung Screening Trial: Questions and Answers [webpage]. Accessed at: https://www.cancer.gov/types/lung/research/nlst-qa

American Cancer Society. Key statistics for prostate cancer [webpage]. Accessed at: <a href="http://www.cancer.org/cancer/prostatecancer/detailedguide/prostate-cancer-key-statistics">http://www.cancer.org/cancer/prostatecancer/detailedguide/prostate-cancer-key-statistics</a>

Figure 5. Prostate Cancer Incidence Rate, Cecil County<sup>14</sup> 140 138.0 137.5 136.2 cases/ 100,000 males 135 133.6 132.5 132.5 130.5 130 127.5 127.4 127.0 127.5 126.3 125

Figure 6. Prostate Cancer Incidence Rate, by Race, Cecil County<sup>15</sup>



#### **Prostate Screenings**

Each September, Union Hospital provides free prostate cancer screenings for men in Cecil County through Prostate Specific Antigen (PSA) testing. Table 3 shows the number of clients served by the Union Hospital free prostate screening program each September.

<sup>14</sup> National Cancer Institute. State Cancer Profiles: Incidence Rate Report for Maryland by County, Prostate, All Races (includes Hispanic), Both

Sexes, All Ages, Cecil County, Maryland [data file]. Accessed at: <a href="https://statecancerprofiles.cancer.gov/incidencerates/">https://statecancerprofiles.cancer.gov/incidencerates/</a>
National Cancer Institute. State Cancer Profiles: Incidence Rate Report for Maryland by County, Prostate, Black (includes Hispanic), Males, All Ages, Cecil County, Maryland [data file]. Accessed at: https://statecancerprofiles.cancer.gov/incidencerates/

Table 3. Clients Screened at Union Hospital

| Year | # Clients Screened |
|------|--------------------|
| 2011 | 72                 |
| 2012 | 70                 |
| 2013 | 47                 |
| 2014 | 60                 |
| 2015 | 48                 |
| 2016 | 60                 |
| 2017 | No data reported   |
| 2018 | 25                 |

#### **Breast Cancer**

Breast cancer is the second leading cause of cancer death for women in the US (second to lung cancer). The American Cancer Society states that 1 in 8 women will develop breast cancer and 1 in 38 women will die from it. However, death rates have dropped 40% since 1989, showing steady decline since 2007 in older women. Currently, there are more than 3.1 million breast cancer survivors in the US. <sup>16</sup> In comparison, Cecil County has shown a steady decrease in breast cancer incidence rates among women over the last ten years (Figure 7). Cecil County data also shows a racial disparity for African American women whose breast cancer incidence has steadily increased when compared to white women (Figure 8). In the US, higher incidence is historically uncharacteristic among African American women. However, according to a report called *Breast Cancer Facts & Figures 2015-2016*, published by the American Cancer Society, the breast cancer death rate for African American women by 2012 was 42% higher than that of white women. The report further explained that "Black women are more likely than other racial/ethnic groups to be diagnosed at later stages and have the lowest survival at each stage of diagnosis. They are also more likely to be diagnosed with triple negative breast cancer, an aggressive subtype that is linked to poorer survival." <sup>17</sup>

130

127.5

127.6

127.6

128

129

121.3

119.7

119.2

119.6

Figure 7. Breast Cancer Incidence Rate, Cecil County

<sup>&</sup>lt;sup>16</sup> American Cancer Society. *How Common is Breast Cancer*? [webpage]. Accessed at: <a href="https://www.cancer.org/cancer/breast-cancer/about/how-common-is-breast-cancer.html">https://www.cancer.org/cancer/breast-cancer/breast-cancer.html</a>

<sup>&</sup>lt;sup>17</sup> American Cancer Society. Report: Breast Cancer Rates Rising Among African-American Women. Accessed at: <a href="https://www.cancer.org/latest-news/report-breast-cancer-rates-rising-among-african-american-women.html#citations">https://www.cancer.org/latest-news/report-breast-cancer-rates-rising-among-african-american-women.html#citations</a>

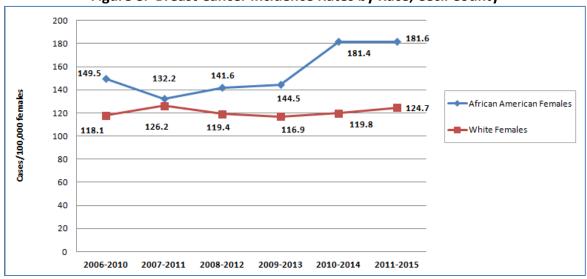


Figure 8. Breast Cancer Incidence Rates by Race, Cecil County

#### Screening Mammograms

While the number of new breast cancer cases for women are declining in Cecil County, the Union Hospital Breast Health Center has noted that there are still pockets in the female population in Cecil County that are not regularly receiving screening mammograms, if at all, despite the 6,000 screening mammograms provided by the Center each year.

Historically, screening mammograms have been provided every year for women 50 years or older. However, the US Preventive Services Task Force (USPSTF) now recommends that women 50-74 years old should receive screening mammograms every other year (on a biennial cycle). <sup>18</sup> This directly conflicts with the recommendation that the American Cancer Society, the American College of Radiology, and the National Comprehensive Cancer Network, which states that women should receive a screening mammogram every year starting at the age of 40 or 45 years. This mixed messaging can be confusing to women, especially if they are not already seeking screening mammograms.

Furthermore, health insurance carriers are mandated by the Affordable Care Act and the US Department of Health and Human Services to follow the USPSTF recommendation for receipt of biennial screening mammograms. This means that insurance benefits would not provide the beneficiary's "cost sharing" benefit for a screening mammogram performed in the off year of a biennial screening cycle. Therefore, the beneficiary would be responsible to pay for "noncovered" services rendered. Cost reporting in 2014 at Union Hospital showed that the out-of-pocket expense for a screening mammogram was \$206. This amount does not include radiology fees of \$144 and any additional costs related to follow-up care.

US Preventive Services Task Force. Breast Cancer: Screening [webpage]. Accessed at: <a href="https://www.uspreventivservicestaskforce.org/Page/Document/UpdateSummaryFinal/breast-cancer-screening1">https://www.uspreventivservicestaskforce.org/Page/Document/UpdateSummaryFinal/breast-cancer-screening1</a>

<sup>&</sup>lt;sup>19</sup> Kaiser Family Foundation. Preventive Services Covered by Private Health Plans under the Affordable Care Act [webpage]. Accessed at: <a href="http://kff.org/health-reform/fact-sheet/preventive-services-covered-by-private-health-plans/">http://kff.org/health-reform/fact-sheet/preventive-services-covered-by-private-health-plans/</a>

The Union Hospital Breast Health Center encourages women to receive their screening mammogram <u>every</u> year, but if health insurance benefits do not cover the screening, the Center's staff encourages patients to contact the Cecil County Health Department for breast cancer screening assistance.

#### **Colorectal Cancer**

Colorectal cancer is the third most diagnosed cancer in the US for both men and women. The lifetime risk for developing colorectal cancer is 1 in 21 for men and 1 in 23 for women.<sup>20</sup> Recent data for incidence of colorectal cancer in the US shows that there were 41 colorectal cancer cases/100,000 population and 15.1 deaths/100,000 population.<sup>21</sup> In Cecil County incidence for colorectal cancer has been steadily declining over the last nine years (Figure 9).

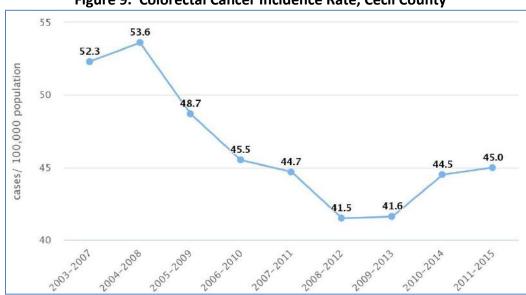


Figure 9. Colorectal Cancer Incidence Rate, Cecil County<sup>22</sup>

#### Colon Screenings

Colorectal cancer screenings can help detect polyps in the colon and rectum to be removed for prevention and/or biopsy if considered to be pre-cancerous based on size and shape. Early detection of colorectal cancer can increase chances of survival, especially if the cancer is diagnosed in an earlier stage. Over the last thirty years new diagnoses of colorectal cancer in the US have decreased by 30% which is believed to be directly linked to increased awareness and screening.<sup>23</sup> Union Hospital provides colorectal cancer screenings through the Union Gastroenterology outpatient practice for patients with insurance that will cover the procedures.

American Cancer Society. Key Statistics for Colorectal Cancer [webpage]. Accessed at: <a href="http://www.cancer.org/cancer/colon-rectal-cancer/about/key-statistics.html">http://www.cancer.org/cancer/colon-rectal-cancer/about/key-statistics.html</a>
National Cancer Institute: Surveillance, Epidemiology, and End Results Program. Cancer Stat Facts: Colon and Rectum Cancer [webpage].

National Cancer Institute: Surveillance, Epidemiology, and End Results Program. Cancer Stat Facts: Colon and Rectum Cancer [webpage] Accessed at: <a href="https://seer.cancer.gov/statfacts/html/colorect.html">https://seer.cancer.gov/statfacts/html/colorect.html</a>

National Cancer Institute. Incidence Rate Report for Maryland by County, Colon & Rectum, All Races (includes Hispanic), Both Sexes, All Ages [data file]. Accessed at: <a href="https://statecancerprofiles.cancer.gov/incidencerates/">https://statecancerprofiles.cancer.gov/incidencerates/</a>

<sup>&</sup>lt;sup>23</sup> National Cancer Institute: Surveillance, Epidemiology, and End Results Program. Cancer Stat Facts: Colon and Rectum Cancer [webpage]. Accessed at: <a href="https://seer.cancer.gov/statfacts/html/colorect.html">https://seer.cancer.gov/statfacts/html/colorect.html</a>

Cecil County Health Department provides assistance with colorectal screenings through its small media grant.

#### **Behavioral Health**

Substance use (related deaths, overdoses, prevention, treatment, recovery, and public safety) and mental health (services, access, treatment, and special population health) have been top priorities in Cecil County for at least the last ten years. In fact, the first and second CHNAs (conducted FY 2013 and FY 2016 respectively) revealed substance abuse as the number one health priority, followed by mental health as number two. As a result several resources have been advocated for and created over the last several years to address substance abuse prevention and treatment, as well as access to mental health services.

#### **Substance Use**

Illicit drug use has steadily increased in Cecil County over the last several years, starting with prescription drug abuse and now more prominent with opioid abuse. Due to the county's geographic position along the I-95 corridor, which provides a more fluid movement of drugs throughout Maryland and to nearby states, stemming opioid trafficking continues to be a large priority for local and state law enforcement. In addition, the county's opioid crisis continues to have a major negative impact on co-occurring mental health issues.

#### Youth Substance Use

**Table 4** shows Maryland Youth Risk Behavior Survey (YRBS) data for the percentage of high school student substance use in 2014 (reported in the previous CHNA report) and 2016. There are significant percentage decreases from 2014 to 2016 which could be attributed to the great work being done in youth prevention in Cecil County, spearheaded by the Cecil County Drug-Free Communities Coalition, a part of the larger super coalition – Drug Free Cecil. In the last three years there has been an increase in the amount of prevention activities geared toward youth and today there is even a youth coalition, led by youth, which focuses on prevention, advocacy, and health promotions in the community and at the state and national levels.

Table 4. Substance Use among Cecil County High School Students<sup>24</sup>

| Survey Item  |       | 2016  |
|--|-------|-------|
| Percentage of students who used marijuana one or more times during their life  | 38%   | 34.8% |
| Percentage of students who used marijuana one or more times in the last 30 days  | 23.8% | 20.9% |
| Percentage of students who have taken a prescription drug, (ex. OxyContin, Percocet, Vicodin, codeine, Adderall, Ritalin, or Xanax), without a doctor's prescription one or more times during their life | 15.5% | 13.3% |

<sup>&</sup>lt;sup>24</sup> Maryland Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS). 2016 and 2014 Youth Risk Behavior Survey Data [webpage]. Accessed at: <a href="https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS-Main.aspx">https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS-Main.aspx</a>

| Percentage of students who have injected any illegal drug (ex. used a needle to inject any illegal drug into their body) one or more times during their life | 3.4%  | 3.5%  |
|--|-------|-------|
| Percentage of students who used heroin one or more times during their life   | 4.2%  | 2.7%  |
| Percentage of students who used any form of cocaine, (ex. powder, crack, or freebase), one or more times during their life                                   | 5.6%  | 4.6%  |
| Percentage of students who were offered, sold, or given an illegal drug by someone on school property during the past 12 months                              | 25.7% | 16.1% |

#### Overdose Deaths

Overall in the US: "Opioids contribute largely to drug overdose deaths; since 2000, there has been a 200 percent increase in deaths involving opioids."<sup>25</sup> Figure 10 shows a steady increase in overdose deaths for Cecil County from 2012-2016, but then there is a huge spike in 2017. As you can see from the graph, 57 of the deaths involved opioids, further solidifying the breadth and depth of the opioid crisis in Cecil County.

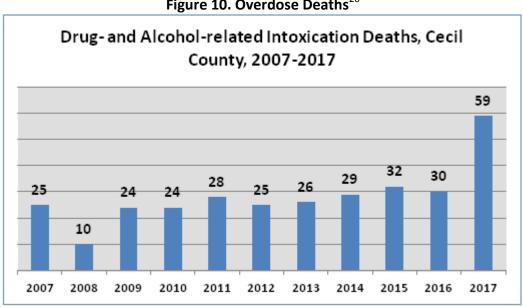


Figure 10. Overdose Deaths<sup>26</sup>

In 2014, right before the second cycle of CHNA was conducted, county health, government, and law enforcement leadership created an action plan to address prevention of drug overdose deaths in Cecil County. This plan was called for and supported by the Governor's office. In the second cycle of CHNA in 2016, substance use was again identified as the number one health

<sup>&</sup>lt;sup>25</sup> Centers for Disease Control and Prevention. Increases in Drug and Opioid Overdose Deaths — United States, 2000–2014. MMWR Morb Mortal Wkly Rep. 2016; 64(50);1378-82.

 $<sup>^{26}</sup>$  Maryland Vital Statistics Administration. Vital Statistics and Reports [webpage]. Accessed at: https://health.maryland.gov/vsa/Pages/reports.aspx

issue in Cecil County. The sustained increase in overdose deaths was one of many reasons that prompted instituting an office of the Heroin Coordinator.

In 2016, the Cecil County Executive hired a Heroin Coordinator to help address the opioid problem in the county. The Heroin Coordinator developed a digital tracking system that is used by first responders and law enforcement in the county to input data related to all substance-related arrests, overdoses, deaths, and other related infractions. This system was identified as a best practice by the White House and the digital platform was shared on a national scale to assist other communities in addressing the opioid crisis with real-time data.

Today, the Heroin Coordinator tracks opioid-related data and provides support to a number of community organizations and agencies on what the data means and what to expect with trending information. The Heroin Coordinator also participates in ride-alongs with law enforcement to educate officers on how to use the digital tracking system and witness first-hand what goes into the arrests and/or calls and how law enforcement is tracking applicable data.

#### **Emergency Room Visits**

The substance use emergency room (ER) visit rate has decreased between 2014 and 2017. This is the result of many factors, one of which could include more emergencies being handled at home or in the community due to the unrestrained access to and use of Naloxone which reverses the effects of an overdose.

Age-Adjusted ER Rate due to Alcohol/Substance Abuse (per 100,000 population) 2013 2010 2011 2012 2014 2016 2017 Cecil 1,538.6 2,121.9 2,234.8 2,057.6 2,165.7 2,133.2 2,084.1 Maryland 1,122.4 1,237.5 1,398.2 1,474.6 1,591.3 1,940.5 2,017

Table 5. ER Rate – Alcohol & Substance Abuse<sup>27</sup>

Previous CHNA

**Current CHNA** 

Cecil County Health Department provides free NARCAN certification classes for the community to educate on the use and administration of NARCAN to reverse the effects of an overdose. To give a frame of reference for the availability and use of NARCAN, Cecil County Health Department's Alcohol and Drug Recovery Center reported that from April 2014 to May 2019, there were 3,583 community members trained and 258 lives were reported as saved. For the same time frame there were 345 law enforcement officers trained and 253 lives reported as saved.

#### Opioid-Related Deaths

Heroin, prescription opioids, and fentanyl were the three substances that caused a majority of opioid-related deaths in Cecil County in 2017 (Figure 11).

<sup>&</sup>lt;sup>27</sup> Maryland Health Services Cost Review Commission. Research Level Statewide Outpatient Data Files. Emergency Department Visits for Addictions-Related Conditions [data file]. Accessed at: <a href="http://cecil.md.networkofcare.org/ph/ship-detail.aspx?id=md\_ship45">http://cecil.md.networkofcare.org/ph/ship-detail.aspx?id=md\_ship45</a>

Number of Opioid-Related Deaths, by Substance, 2017

1594

1078

Cecil
Maryland

Heroin Prescription Opioids Fentanyl

Figure 11. Opioid-Related Deaths<sup>28</sup>

Heroin, prescription opioids, and fentanyl are highly addictive and each is classified by a Schedule by the Drug Enforcement Administration. Heroin is a Schedule I drug and prescription opioids and fentanyl are Schedule II drugs. Schedule I drugs have no currently accepted medical use and have a high potential for abuse. Schedule II drugs have a high potential for abuse and their use may lead to severe psychological or physical dependence, making them extremely dangerous.<sup>29</sup> In addition, Heroin is often cut with other substances, like fentanyl and carfentanyl, to make its effect stronger but which also results in the greater likelihood of overdose and even death. In fact, recent data from the office of the Heroin coordinator showed that 85% of overdose deaths in Cecil County were attributed to fentanyl.

#### **Mental Health**

The Maryland Behavioral Risk Factor Surveillance System (BRFSS) surveyed Cecil County adults in 2010, and while adults reported that they felt supported mentally and socially (81%),<sup>30</sup> there were adults that reported experiencing four poor mental health days per month.<sup>31</sup> In addition to the impact on adults, youth experienced mental health issues too. **Table 6** shows comparative Maryland Youth Risk Behavior Survey (YRBS) data for youth mental health from 2014 (reported in the previous CHNA) and 2016.

<sup>&</sup>lt;sup>28</sup> Maryland Vital Statistics Administration. Drug-Induced Death Rate [data file]. Accessed at: <a href="http://cecil.md.networkofcare.org/ph/ship-detail.aspx?id=md\_ship29">http://cecil.md.networkofcare.org/ph/ship-detail.aspx?id=md\_ship29</a>
<sup>29</sup> United Only 20 Person Control of the Cont

<sup>&</sup>lt;sup>25</sup> United States Drug Enforcement Administration. Drug Scheduling [webpage]. Accessed at: https://www.dea.gov/drug-scheduling

Maryland Behavioral Risk Factor Surveillance System. Adequate Social and Emotional Support [data file]. Accessed at: <a href="https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/31">https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/31</a>

County Health Rankings. Poor Mental Health Days [data file]. Accessed at: http://www.countyhealthrankings.org/app/maryland/2019/measure/outcomes/42/data

Table 6. Depression and Thoughts of Suicide among Cecil County High School Students<sup>32</sup>

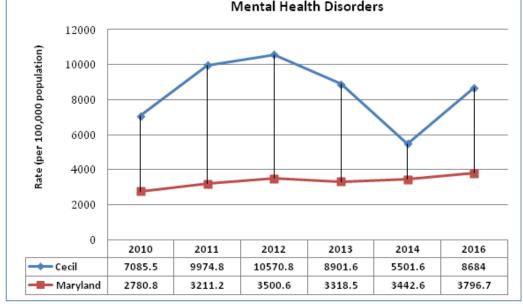
| Survey Item  | 2014  | 2016           |
|--|-------|----------------|
| Percentage of students who felt so sad or hopeless almost every day for two weeks or more in a row that they stopped doing some usual activities during the past 12 months | 29.4% | <b>=</b> 29.7% |
| Percentage of students who seriously considered attempting suicide during the past 12 months   | 18.5% | 16.9%          |

#### **Emergency Room Visits**

Cecil County has experienced a steady decrease in the number of ER visits related to behavioral health disorders, which include: adjustment disorders, anxiety disorders, attention deficit disorders, disruptive behavior disorders, mood disorders, personality disorders, schizophrenia and other psychotic disorders, suicide and intentional self-inflicted injury, and miscellaneous mental disorders. Figure 12 shows a year-to-year comparison between Cecil County and Maryland.

**Emergency Department Visit Rate for** Mental Health Disorders 12000 10000

Figure 12. Emergency Room Visits for Mental Health Disorders<sup>33</sup>



The 2017 Maryland State Health Improvement Process (SHIP) goal for rate of ER visits due to behavioral health disorders was 3,152.6 visits per 100,000 population. During the period from

<sup>&</sup>lt;sup>32</sup> Maryland Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS). 2016 and 2014 Youth Risk Behavior Survey Data [webpage]. Accessed at: <a href="https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS-Main.aspx">https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS-Main.aspx</a>
Health Services Cost Review Commission. Research Level Statewide Outpatient Data Files. Rate of emergency room visits related to mental

health disorders [data file]. Accessed at: https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/

2010-2013, Cecil County more than doubled the state's ER visit rate, primarily because of the increase of substance abuse and decrease of available health care providers to treat both substance abuse and behavioral health disorders. Improvements in 2014 may reflect the impact of programming established during the 2013-2016 Local Health Improvement Plan process where strategies focused on increasing access to behavioral health services and intervening with peer recovery advocates in the ER for patients with diagnoses of mental health disorders, as well as co-occurring diagnoses of mental health disorders and substance abuse.

#### **Childhood Trauma**

According to the Substance abuse and Mental Health Services Administration (SAMHSA), trauma results from "an event, series of events, or set of circumstances experienced by an individual as physically or emotionally harmful or life-threatening with lasting adverse effects on the individual's functioning and mental, physical, social, emotional, or spiritual well-being."<sup>34</sup> Traumatic events can take many forms, including: psychological, physical, or sexual abuse; neglect; serious accidents or life-threatening illness; community or school violence; witnessing or experiencing domestic violence; national disasters or terrorism; sexual exploitation; sudden or violent loss of a loved one; refugee or war experiences; military family-related stressors; and physical or sexual assault.<sup>35</sup>

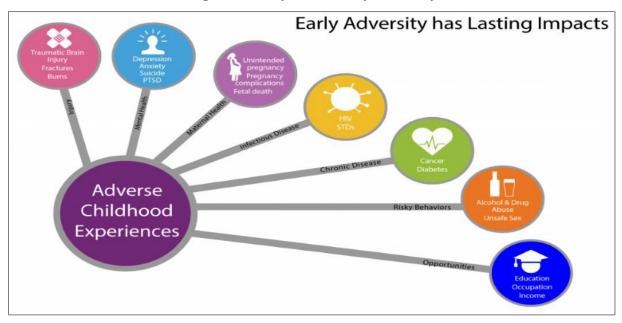
Adverse Childhood Experiences (ACEs) is the term commonly used to describe all types of abuse, neglect, and other potentially traumatic experiences that occur to people under the age of 18. ACEs have been linked to an increase in risky behaviors, chronic health conditions, low life potential and premature death. As the number of ACEs an individual has experienced increases, so does the risk for negative outcomes across an individual's life course. **Figure 13** details the many different negative consequences linked to ACEs.<sup>36</sup>

<sup>&</sup>lt;sup>34</sup> Substance abuse and Mental Health Services Administration. Trauma [webpage]. Accessed at: <a href="https://www.integration.samhsa.gov/clinical-practice/trauma">https://www.integration.samhsa.gov/clinical-practice/trauma</a>

<sup>&</sup>lt;sup>35</sup> Substance abuse and Mental Health Services Administration. Understanding Childhood Trauma [webpage]. Accessed at: <a href="https://www.integration.samhsa.gov/child-trauma/understanding-child-trauma">https://www.integration.samhsa.gov/child-trauma/understanding-child-trauma</a>

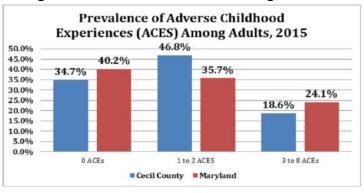
<sup>&</sup>lt;sup>36</sup> Centers for Disease Control and Prevention. About Adverse Childhood Experiences [webpage]. Assessed at: https://www.cdc.gov/violenceprevention/childabuseandneglect/acestudy/aboutace.html

Figure 13. Impacts of Early Adversity<sup>37</sup>



The BRFSS Adverse Childhood Experiences module measures eight types of childhood trauma. Three types deal with abuse (physical abuse, emotional abuse, sexual abuse) and five types are related to household challenges (intimate partner violence, substance abuse in the household, mental illness in the household, parental separation or divorce, incarcerated household member). **Figure 14** shows the estimated prevalence of ACEs among Cecil County and Maryland adults in 2015. In Cecil County, nearly two-thirds (65.3%) of adults reported having experienced at least one of these ACEs during their childhood. This was higher than the estimated prevalence of ACEs among Maryland adults (59.8%) during this time period. Among Cecil County Adults at least one ACE, 18.6% reported experiencing at least three of the ACEs included in the BRFSS questionnaire. It is important to note that the ACE score does not capture the frequency or severity of any given ACE and is not comprehensive of all types of childhood trauma.

Figure 14. Prevalence of ACEs among Adults<sup>38</sup>



<sup>&</sup>lt;sup>37</sup> Centers for Disease Control and Prevention. About Adverse Childhood Experiences [webpage]. Assessed at: https://www.cdc.gov/violenceprevention/childabuseandneglect/acestudy/aboutace.html

Maryland Behavioral Risk Factor Surveillance System. 2015 Maryland BRFSS ACEs Data Tables 9 [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/ccdpc/Reports/Documents/MD-BRFSS/2015">https://phpa.health.maryland.gov/ccdpc/Reports/Documents/MD-BRFSS/2015</a> MD BRFSS ACEs Data Tables.pdf

**Figure 15** details the prevalence of different types of ACEs included in Maryland's BRFSS questionnaire during 2015. The most commonly reported ACEs among Cecil County adults were Emotional Abuse (38.3%), Household Substance Use (25.4%), Parental Separation or Divorce (19.9%) and Household Mental Illness (15.8%).

Figure 15. Prevalence of ACES among Adults by Type<sup>39</sup>

| Prevalence of Adverse Childhood Experiences (ACEs) among Adults, 2015 |              |          |
|---|--------------|----------|
|   | Cecil County | Maryland |
| Household Mental Illness  | 15.8%        | 15.0%    |
| Household Substance Abuse   | 25.4%        | 24.9%    |
| Incarcerated Household Member   | *            | 7.6%     |
| Parental Separation or Divorce  | 19.9%        | 27.5%    |
| Intimate Partner Violence   | *            | 17.4%    |
| Emotional Abuse   | 38.3%        | 31.2%    |
| Physical Abuse  | *            | 16.9%    |
| Sexual Abuse  | *            | 11.1%    |

<sup>\*</sup>Data suppressed due to denominator < 50

## **Health Needs Not Prioritized**

There were health needs and barriers to care that were not feasible to address due to factors, like resource availability and community resources already in play (Table 7). For additional information on community resources available, please refer to **Appendix B** which provides an **Asset Inventory** of Cecil County community resources.

Table 7. Health Needs & Barriers to Care Identified but not Prioritized

| Health Need     | Rationale   |
|-----------------|---|
| Access to care  | Ongoing efforts through health services to bring more providers into the community covering a range of specialties, including primary care and geriatric services.  |
| Homelessness    | CHAC does not have enough resources to manage this problem. Homeless providers in the area meet through the Cecil County Interagency Council on Homelessness to work through issues and find additional supports. |
| Chronic disease | Chronic diseases identified: arthritis, Asthma, COPD, heart disease, hypertension, obesity, stroke, and diabetes. There are simply not enough resources or time to address every single                           |

<sup>&</sup>lt;sup>39</sup> Maryland Behavioral Risk Factor Surveillance System. 2015 Maryland BRFSS ACEs Data Tables [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/ccdpc/Reports/Documents/MD-BRFSS/2015">https://phpa.health.maryland.gov/ccdpc/Reports/Documents/MD-BRFSS/2015</a> MD BRFSS ACEs Data Tables.pdf

|  | chronic disease. However, there are many programs in the community that manage these conditions and provide support.   |  |
|--|--|--|
| Dental health                            | With the dental clinic closure starting a new effort to manage dental health needs in vulnerable communities was not feasible.  The Dental Advisory Committee is currently working on strategies to increase awareness around dental health in vulnerable and underserved neighborhoods, primarily working through neighborhood community centers and local libraries. |  |
| Tobacco use                              | Tobacco use is a risk factor that is addressed through programs at the Cecil County Health Department and through the Maryland QuitLine.   |  |
| Infectious &                             | There are programs in place through the Cecil County Health  |  |
| Communicable Diseases                    | Department to address infectious and communicable disease.   |  |
| Vaccination                              | Addressed by the schools, Cecil County Health Department, Union Hospital, and physician practices  |  |
| Environmental health                     | Addressed by Dept of Natural Resources and Cecil County Heath Dept. Lack of available resources; too broad.  |  |
| Injuries – Motor vehicle & pedestrian    | Addressed by law enforcement and the Dept of Transportation  |  |
| Child abuse and neglect                  | Handled through reports to CPS and medical exams from the Cecil County Child Advocacy Center   |  |
| Domestic violence                        | Addressed by the domestic violence shelter, a part of the Department of Social Services, and local law enforcement   |  |
| Violent Crime                            | Addressed by local and state law enforcement in Cecil County.  Agencies and health care services also partner with law enforcement to support their efforts.   |  |
| Suicide                                  | Addressed through inpatient and outpatient programs in the community, mediation services like Eastern Shore Mobile Crisis, Upper Bay Counseling Services, and hot- and warm-lines providing real-time interventions to those at-risk for suicide   |  |
| Barrier to Care                          | Rationale  |  |
| Income & Poverty                         | May be addressed as part of each of the health priority areas.  Requires stronger political will and funding to support overcoming these barriers. CHAC does not have either.  |  |
| Employment                               | May be addressed as part of the Behavioral health priority. Otherwise addressed by Susquehanna Workforce Network, Cecil College, and other local non-profits, like those that assist veterans.   |  |
| Health insurance availability & coverage | Addressed through the Maryland Health Connection and Seedco  |  |
| Transportation                           | Addressed through voucher programs at Dept of Community Services and through local partnerships  |  |

| Health care costs   | Addressed through programs like: Union Hospital Community Assisted Medication Program (CAMP), the Union Hospital Cancer Program community outreach support, many outreach programs at the Cecil County Health Department, local pharmacy assistance programs, and the Department of Community Services assistance programs through MAPP, options counseling, and Community First Choice   |
|---|---|
| Home Health eligibility   | Addressed through programs that assist persons with the application process (ex. the county Department of Community Services)   |
| Lack of knowledge (incl. low health literacy, lack of access to health information) | Opportunities to address health literacy are being explored for all priority areas  |
| Public assistance qualifications  | Addressed through Cecil County Health Department, the Department of Community Services, the Department of Social Services, and the certified health insurance navigators through Seedco and the Maryland Health Connection  |
| Need for more medical and social supports   | Addressed by Dept of Social Services, Dept of Community Services, Cecil County Health Department, and other social services   |
| Educational Attainment  | Addressed by local non-profits work with special and vulnerable populations who experience barriers to getting a GED; local federal credit unions provide education on how to affordably finance education; Cecil College offers scholarships to eligible individuals; and workplaces provide tuition reimbursement for applicable educational attainment (ex. workplace certifications or degrees)   |
| Affordable housing  | Affordable housing is a large barrier in Cecil County, especially among the poor and low-income. While wait lists are long for most housing programs, there are agencies in the community that manage this issue. Also, there are limited resources available to purchase existing or new properties to rehab in order to assist with programs like transitional housing. Land for new development is expensive. Some community work has been done to strike compromises with landlords to house homeless and other tenants who can demonstrate the ability to sustain housing. |
| Language barriers   | Language barriers can be addressed through the use of interpreters. Most programs in the county have access to medical and social interpreters or contracted interpreter services. If access is a problem then there is opportunity to partner with organizations that have these resources. For patients or clients  |

|                  | having trouble with language barriers there is opportunity for organizations to provide materials in other languages and/or hire or borrow professionals that can speak other languages.   |
|------------------|--|
| Time limitations | In all the focus groups it was voiced that there are not enough doctors' offices open in the evening hours. Union Hospital and many other providers in the community have added evening and weekend hours for frequently used services, like primary care and urgent care. |

## **PRIMARY DATA COLLECTION & ANALYSIS**

## **Online Community Survey**

The online community survey was developed by the Director of Health Planning (Cecil County Health Department) and Community Benefits Coordinator (Union Hospital) with input from the Community Health Advisory Committee (CHAC). The survey was created using Survey Monkey and consisted of twenty questions — a variety of multiple choice, Likert Scale selections, and free text entry (Appendix A). The survey was divided into four sections and asked questions about demographics, community health, quality of life, and access to health care. The survey took approximately 15 to 20 minutes to complete and 1,403 people completed the survey. The following sections provide an overview of the results from the online community survey.

## **Demographics**

In this section of the survey respondents were asked to answer questions related to their demographics.

#### **Zip Codes**

Survey respondents were asked to provide their zip code. Respondents to the survey were distributed across Cecil County zip codes. The highest proportion of survey respondents (40.7%) were from the 21921 zip code area. Another 18.6% and 11.1% of survey respondents reside in the 21901 and 21911 zip code areas respectively. **Table 8** contains a listing of respondents' zip codes.

**Table 8. Zip Codes in Cecil County** 

| Zip Code | % Respondents |  | The state of the s |
|----------|---------------|--|--|
| 21921    | 40.7%         |  | 21918 21917 21911  |
| 21901    | 18.6%         | Zip Codes                                      | 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2  |
| 21911    | 11.1%         | 21901 – North East                             | 21904 21921  |
| 21904    | 5.7%          | 21902 – Perry Point                            | 21901  |
| 21903    | 5.4%          | 21903 – Perryville<br>21904 – Port Deposit     | 21903  |
| 21918    | 4.1%          | 21904 – Port Deposit<br>21911 – Rising Sun     | The state of the s |
| 21915    | 3.6%          | 21912 – Warwick                                | CECIL COUNTY, MD 21915   |
| 21917    | 2.9%          | 21913 – Cecilton                               | 21915  |
| 21919    | 2.8%          | 21914 – Charlestown<br>21915 – Chesapeake City | ) Complete   |
| 21912    | 1.4%          | 21916 – Childs                                 | 21912  |
| 21914    | 1.1%          | 21917 – Colora                                 | 21919  |
| 21913    | 0.5%          | 21918 – Conowingo<br>21919 – Earleville        | well a stranger  |
| 21920    | 0.4%          | 21920 – Elk Mills                              |  |
| 21902    | 0.1%          | 21921 – Elkton                                 |  |
| 21922    | 0.1%          | 21922 – Elkton                                 |  |
| 21916    | 0.1%          | 21930 – Georgetown                             |  |
| 21930    | 0.0%          |  |  |
| Other    | 1.4%          |  |  |

#### **Demographic Profile**

A demographic profile of respondents who completed the online community survey is included in **Table 9.** Females made up 81.2% of survey respondents, while males made up 18.6%. An additional 0.1% of survey respondents identified as gender fluid. By age, the largest proportion of respondents (35.9%) was between 40 and 54 years of age. An additional 24.8% of respondents were between 55 and 64 years of age, 19.1% were between 35 and 44 years of age, 13.2% were between 25 and 34 years of age, 12.7% were 65 years of age or older, and 4.4% were between 18 and 24 years of age. Residents identifying as White comprised 95.3% of survey respondents, with Black or African Americans representing 2.9% of respondents, Some Other Race representing 2.1% of respondents, American Indians or Alaskan Natives representing 1.2% of respondents, and Asians representing 0.6% of respondents. An additional 2.4% of respondents identified their ethnicity as being Hispanic, Latino or of Spanish origin.

The survey also asked respondents about their marital status, level of educational attainment and household income. Among respondents, nearly two thirds (64.6%) identified as being married. The largest proportion of respondents (29.9%) answered that they have Some College, No Degree, followed by High School Graduate or GED (19.0%), Graduate or Professional Degree (18.2%), Bachelor's Degree (17.4%), and Associate's Degree (11.9%). Nearly two percent of respondents had not completed high school. Among those answering "Other," most had completed a technical or trade school. In addition, 30.9% of respondents have a household income of over \$100,000, while 5.2% have a household income of less than \$15,000.

**Table 9. Demographics of Survey Respondents** 

| Gender                                    |       |  |  |
|---|-------|--|--|
| Male                                      | 18.6% |  |  |
| Female                                    | 81.2% |  |  |
| Gender-fluid                              | 0.1%  |  |  |
| Age                                       |       |  |  |
| 18-25                                     | 7.9%  |  |  |
| 26-39                                     | 23.0% |  |  |
| 40-54                                     | 37.1% |  |  |
| 55-64                                     | 23.2% |  |  |
| 65 or Older                               | 8.7%  |  |  |
| Race (All that Apply)                     |       |  |  |
| White                                     | 95.3% |  |  |
| Black or African American                 | 2.9%  |  |  |
| Asian                                     | 0.6%  |  |  |
| American Indian or Alaskan Native         | 1.2%  |  |  |
| Native Hawaiian or Other Pacific Islander | 0.0%  |  |  |
| Some Other Race                           | 2.1%  |  |  |

| Ethnicity                           |       |  |
|-------------------------------------|-------|--|
| Hispanic, Latino, or Spanish Origin | 2.4%  |  |
| Marital Status                      |       |  |
| Married                             | 64.6% |  |
| Divorced                            | 15.6% |  |
| Widowed                             | 4.7%  |  |
| Separated                           | 2.1%  |  |
| Never Married                       | 13.0% |  |
| Educational Attainment              |       |  |
| No High School                      | 0.4%  |  |
| Some High School, No Diploma        | 1.4%  |  |
| High School Graduate or GED         | 19.0% |  |
| Some College, No Degree             | 29.9% |  |
| Associate's Degree                  | 11.9% |  |
| Bachelor's Degree                   | 17.4% |  |
| Graduate or Professional Degree     | 18.2% |  |
| Other                               | 1.7%  |  |
| Household Income                    |       |  |
| Less than \$15,000                  | 5.2%  |  |
| \$15,000 - \$24,999                 | 5.5%  |  |
| \$25,000 - \$ 34,999                | 7.7%  |  |
| \$35,000 - \$49,999                 | 11.3% |  |
| \$50,000 - \$74,999                 | 21.4% |  |
| \$75,999 - \$99,999                 | 18.0% |  |
| \$100,000 or More                   | 30.9% |  |

## **Community Health**

In this section of the survey respondents were asked to answer questions related to the health of the Cecil County community.

## **Important Health Issues**

Survey respondents were asked to select the three most important health issues in Cecil County from a list of 26 health issues. Substance Abuse was by far the most concerning health issue, with three out of every four (75.3%) of survey respondents choosing it as one of the three most important health issues in the county. Additionally, Mental Health (37.7%) and Homelessness (32.9%) were both selected as one of the three most important health issues by approximately one third of survey respondents. A complete listing of responses is included in the table below.

Table 10. Important Health Issues

| Rank | Health Issue                         | % Respondents |
|------|--------------------------------------|---------------|
| 1    | Substance Abuse                      | 75.3%         |
| 2    | Mental Health                        | 37.7%         |
| 3    | Homelessness                         | 32.9%         |
| 4    | Access to Health Services            | 18.9%         |
| 5    | Poverty                              | 15.7%         |
| 6    | Obesity                              | 14.2%         |
| 7    | Affordable Housing                   | 13.9%         |
| 8    | Child Abuse and Neglect              | 13.5%         |
| 9    | Dental Health                        | 10.9%         |
| 10   | Cancer                               | 10.7%         |
| 11   | Violent Crime                        | 7.9%          |
| 12   | Unemployment                         | 6.8%          |
| 13   | Childhood Trauma                     | 5.9%          |
| 14   | Educational Attainment               | 5.6%          |
| 15   | Diabetes                             | 5.0%          |
| 16   | Heart Disease and Stroke             | 4.5%          |
| 17   | Domestic Violence                    | 4.4%          |
| 18   | Tobacco Use                          | 4.4%          |
| 19   | Environmental Health                 | 4.3%          |
| 20   | Maternal, Infant and Child Health    | 3.8%          |
| 21   | Motor Vehicle/ Pedestrian Injuries   | 3.3%          |
| 22   | High Blood Pressure                  | 2.9%          |
| 23   | Suicide                              | 2.9%          |
| 24   | Respiratory/ Lung Disease            | 1.7%          |
| 25   | Sexually Transmitted Diseases (STDs) | 1.2%          |
| 26   | Immunization and Infectious Disease  | 1.1%          |

Respondents were also given the opportunity to write in other important health issues in the county that were not among those listed. Of the 74 responses, the majority of comments were related to substance abuse (24) and the accessibility and quality of health services in the county (15). Responses included:

- "Affordability of health services"
- "Senior healthcare. Seniors have no dental or eye care and medication costs are very high"
- "Senior care (dementia, alzheimer's, etc)"
- "Drug addiction"
- "Lack of public transportation and walkways"
- "Young people dying of overdoses. We can do better"
- "The out of control Oxy-pill epidemic"

- "Doctors are overwhelmed with patients . Getting appointments is almost impossible for a new patient"
- "Affordable insurance"
- "Helping someone with a disability"
- "Finding doctors to listen to your concerns"
- "Doctors available for people with state insurance"
- "Medical Specialists"
- "Heroin! Our community is losing the battle"
- "Healthy diets and lifestyle choices"
- "Care for adults with certain disabilities from childhood"
- "Smoking"
- "Drinkable water"
- "The mental health issue is first all other are interlinked."
- "Behavior in school. Need therapy for these kids."
- "Lack of public transportation and walkways."
- "Child mental health"
- "Mental health services for children and adults with disabilities"
- "Sexual assault"
- "Radon; well water safety"
- "Quality Professional Medical Providers + Sub-specialty"
- "Help with transporting elderly to appointments"
- "Nonviolent crime"
- "Tick and mosquito illnesses"
- "Unemployable due to substance abuse"

## **Health of the Community**

Survey respondents were asked to rate the overall health of the community (Figure 16). A majority of respondents (61.9%) rated the overall health of the community as being not at all healthy or slightly healthy while only 1.5% rated the overall health of the community as being very healthy or extremely healthy. In general, respondents feel that the overall health of the community in Cecil County is poor.

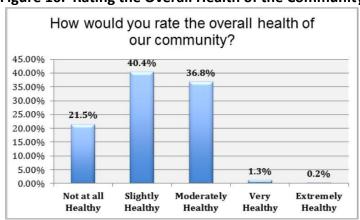


Figure 16. Rating the Overall Health of the Community

#### **Personal Health**

Survey respondents were also asked to rate their own personal health (Figure 17). Nearly half (48.9%) of respondents rated their personal health as moderately healthy, while approximately one third (35.3%) rated their personal health as being very healthy or extremely healthy and less than a quarter (21.6%) rated their personal health as being slightly healthy or not at all healthy. In general, respondents feel more positive about their personal health than the overall health of the community.

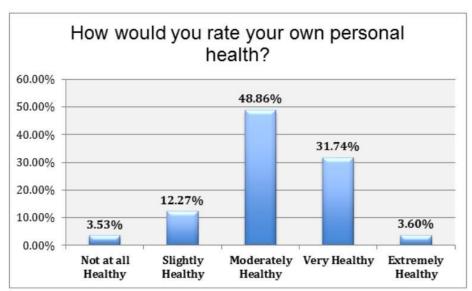


Figure 17. Rating Personal Health

## **Quality of Life**

In this section of the survey respondents were asked about the quality of life in Cecil County.

## **Quality of Life in Cecil County**

Survey respondents were asked to rate twelve statements about the quality of life in Cecil County on a scale from 1 (strongly disagree) through 5 (strongly agree) (Figure 18). There were a higher proportion of negative responses (disagree or strongly disagree) than positive responses (agree or strongly agree) for 9 out of 12 statements. Respondents felt most negatively about the statements "All Cecil County residents believe that they can make Cecil County a better place to live," "There is economic opportunity in Cecil County," and "Cecil County is a good place to grow old. For each of these statements, approximately half of respondents answered "strongly disagree" or "disagree." Respondents felt most positively about the statement "All individuals and groups have the opportunity to contribute to and participate in Cecil County's quality of life". This statement received nearly double the amount of positive responses than negative responses. There is an interesting juxtaposition between belief data (top negative response) and opportunity data (top positive response).

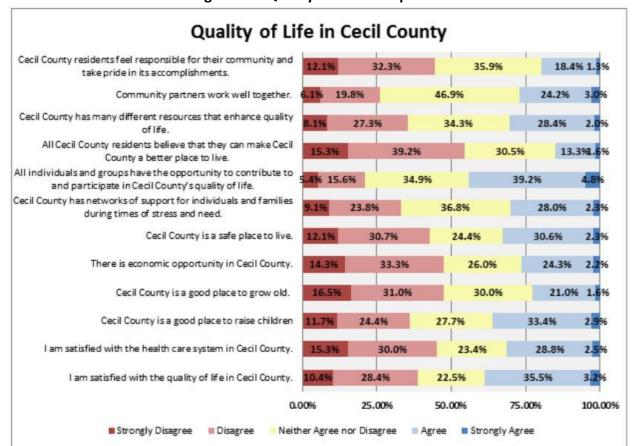


Figure 18. Quality of Life Perceptions

## **Access to Health Care**

In this section of the survey respondents were asked questions related to health care access in Cecil County.

# **Health Literacy**

Respondents were asked to rate their ability to get health information, understand it and use it (Figure 19). Health literacy can play a large role in a person's ability to understand health information and act upon the information they receive. Over half of respondents (58.6%) answered that they are either very able or extremely able to get health information, understand it, and use it.

How would you rate your ability to get health information, understand it and use it? 40.00% 34.8% 35.00% 26.8% 30.00% 23.9% 25.00% 20.00% 12.0% 15.00% 10.00% 2.5% 5.00% Responses Moderately Ante Extremely Ante 0.00% Slightly Able

Figure 19. Personal Use of Health Information

### **Source of Health Information**

Respondents were asked where they get most of their health-related information from (Figure 20). A majority of respondents reported getting most of their health related information from either the internet (42.9%) or from their primary care provider (41.2%). Among those respondents selecting other, the most common responses were professional journals and through their employment in the health care field.

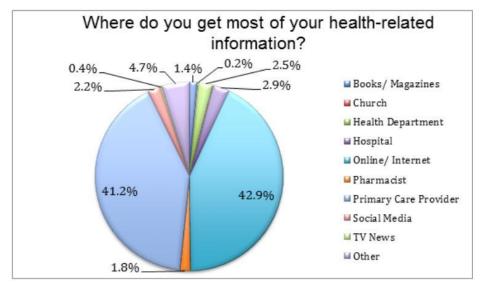


Figure 20. Sources of Health Information

#### **Health Care Access**

Respondents were asked to rate nine statements about access to health care services in Cecil County on a scale from 1 (strongly disagree) through 5 (strongly agree) (Figure 21). There were a higher proportion of negative responses (disagree or strongly disagree) than positive responses (agree or strongly agree) for 7 out of 9 statements. Respondents felt most negatively about the statements "There are enough mental health providers for children

in Cecil County," "There are enough mental health providers for adults in Cecil County," and "There are enough substance use disorder treatment providers for adults in Cecil County," with over half of respondents answering negatively. Respondents felt most positively about the statement "Cecil County residents are able to see a primary care provider when needed," with over half of respondents answering positively and "Cecil County residents are able to see a dentist when needed," with 45.5% of respondents answering positively.

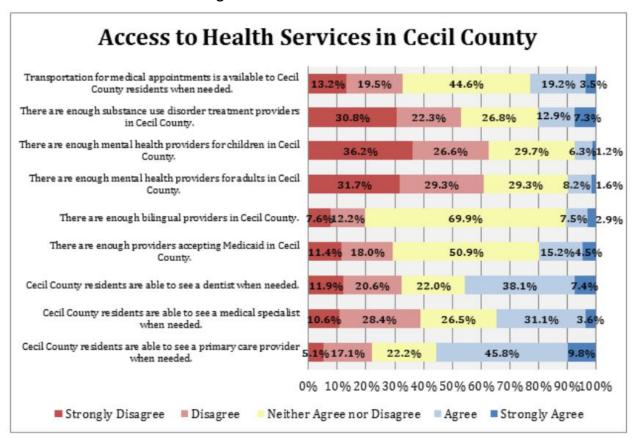


Figure 21. Health Services Access

#### **Barriers to Care**

Respondents were asked to select the three most significant barriers to accessing health services in Cecil County (Figure 22). The most commonly reported barrier was the inability to pay out of pocket expenses (57.2%). Health care coverage not covering needed services (33.8%), the availability of doctors or other providers/ appointments (30.4%), time limitations (25.9%), and basic needs not being met (25.6%) were also reported as significant barriers by many respondents. Many of the written responses focused on insufficient health insurance coverage, the availability of providers and specialists in Cecil County, and an individual's personal choices in seeking services.

What are the most significant barriers to accessing health services in Cecil County? Language / Cultural Barriers 2.6% No Barriers 5.1% 6.0% Other 6.5% Lack of Child Care Lack of Trust in Medical Services **12.8%** Difficult to Understand/ Navigate Health... 18.7% Lack of Health Insurance 21.5% 22.2% Lack of Dental Insurance 22.9% Lack of Transportation 25.6% Basic Needs Not Met Time Limitations 25.9% Availability of Doctors or Other Providers/. 30.4% 33.8% Health Care Coverage Does Not Cover. Inability to Pay Out of Pocket Expenses 57.2%

Figure 22. Indentifying Barriers to Care

# **Under-Served Populations**

Respondents were asked if there were specific populations in Cecil County that are not being adequately served by local health services (Figure 23). The most commonly reported populations were the uninsured/underinsured (43.7%), homeless (43.1%), low-income and poor (41.9%), and Seniors/Aging/Elderly (33.5%). In addition to the populations identified below, the middle class, veterans, those living outside of Elkton, LGBTQ, and individuals with behavioral health disorders were mentioned as populations that are not being adequately served.

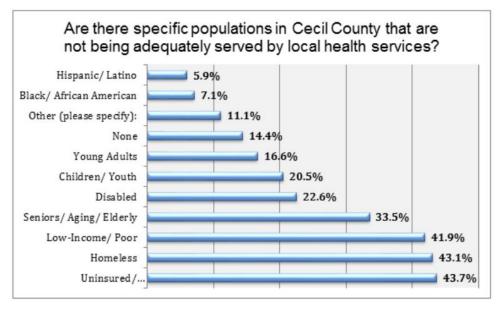


Figure 23. Identifying Under-Served Populations

## **Missing Resources and Services**

Respondents were asked to identify resources or services related to health and quality of life that are missing in Cecil County (Figure 24). The most commonly reported resources or services that are missing in the county are mental health services (50.2%), free or low cost dental care (46.8%), substance use disorder services (42.7%), and free or low cost medical care (36.2%). Other resources or services that are missing in Cecil County mentioned by survey respondents include transportation, job training, parks and recreation, assistance for elderly individuals, mental and behavioral health services for children and adults, trauma therapy, quality health care, homeless services, and a one stop shop for services.

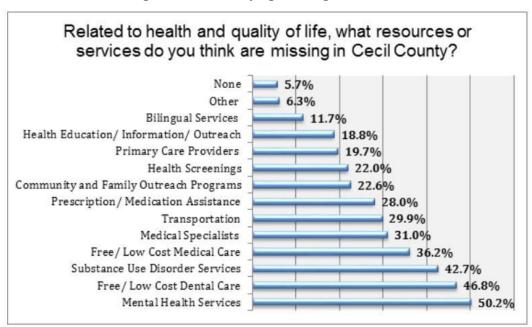


Figure 24. Identifying Missing Resources

## **Additional Information**

# **Health and Quality of Life**

Survey respondents were asked to share additional information about the health and quality of life of Cecil County residents. Many of the responses were related to the availability of medical specialists and high rates of substance abuse in Cecil County. Lack of mental health providers, homelessness, the cost of health services, and the need for transportation services were also frequently mentioned as concerns. Respondents also indicated the need for more health education in the community and the need for people to take personal responsibility for their health. A selection of responses is provided below:

- "We need to increase funding for education and prevention as it relates to substance abuse and the drug epidemic!"
- "People have a hard time justifying preventative health and dental care because they
  can't afford the cost. They wait until they NEED to go. That's not good for their overall
  health. Most people in Cecil County barely make a living wage to pay the rent. Medical
  needs aren't a priority until it's an emergency or the self-medicate."

- "The community needs to be motivated to get healthy. Not everyone will take the
  opportunity but start with providing the children somewhere to go and play safely like a
  community center in each town that offers programs free to more than just one age
  group. If the children stay active and positive the chances of drug abuse are reduced
  dramatically."
- "There basically are no psychiatrists or psychologists in the county that anyone can see quickly or regularly unless on assistance or court ordered."
- "I really think two of the big issues that need to be addressed in Cecil County is substance abuse and homelessness (especially homelessness in Elkton, it worries me that there aren't enough services being provided to help these people). Also the topic of substance abuse is concerning to me because it makes me wary of raising my kids in Cecil County (or at least in Elkton) in the future."
- "Not enough specialists in the area. To see a Hepatologist, Oncologist, Orthopedic, Rheumatoid etc...you're required to travel to Delaware or Baltimore. Cecil County needs to start recruiting for specialists in all fields for its residents."
- "Many people have health insurance but they can't afford their deductible or copays or medications."
- "The drug use is out of control and the children growing up in these homes are exposed to trauma and abuse. When they come to school, they are often have difficulty in the areas of academics or behaviors. When you are living in trauma you aren't going to be able to learn-your brain is not ready to learn. Often times these children bring unwanted behaviors to school. They are not "bad" children-they just don't have the upbringing and support to succeed. This in turn exposes the other children in the classroom to 2nd hand trauma. And there are not enough mental health providers to support the children and their families. So...the cycle of trauma and poverty continues."
- "We need to find adequate ways of helping our substance abuse population. Most of the
  negative issues in the county stem from addiction. We need to start substance abuse
  education at the elementary school level and have more free after school opportunities
  for children. Hopefully that would allow them to not be home alone and getting into
  trouble."

### **How Respondents Heard about the Survey**

The last question of the survey asked respondents how they heard about the online community survey. Over half of respondents reported hearing about the survey through Facebook or other social media postings. The Health Department, Union Hospital, Cecil Whig, Cecil County Public Library, Cecil County Fair, West Cecil Health Center and word of mouth were also common responses.

# **Focus Groups**

The CHNA planning team held focus groups with four vulnerable populations to get input on the health and quality of life issues in Cecil County. Populations included: homeless, veterans, older adults, and low-income or ALICE. There was also a fifth focus group held with African Americans who discussed health disparities in Cecil County.

# **Sessions**

Each session included a description of the CHNA, the purpose of the focus group, an introduction of the facilitators, the rules of engagement, and a reference worksheet with session questions. Participation was anonymous; no sign-in information was collected. A head count provided number of participants. The average was 10 participants. Focus group sessions lasted 1-1.5 hours based on group size, when the meal or food was accessed, and how many participants chose to participate.

### **Facilitation**

There was a facilitator and a scribe. The scribe recorded session information up on large wall-hanging sheets visible to the whole group. Participants were asked to respond to the following questions:

- 1) What are the greatest strengths of our community?
- 2) What do you think are the most important health issues in Cecil County?
- 3) What would most improve the quality of life in Cecil County?
- 4) What are the most significant barriers to accessing health care in Cecil County?
- 5) Related to health and quality of life, what resources or services do you think are missing in Cecil County?

# Responses

Because of the richness of the data, responses were analyzed based on the number of times a health or quality of life theme was referenced. Information listed in the table below collates responses from all focus groups. Additional information about responses specific to each focus group is available upon request. Major health themes included: diabetes, mental health, nutrition, and substance use. Major quality of life themes included: access to health services, transportation, aging, and health insurance.

| Table 11. | Focus | Group | Responses |
|-----------|-------|-------|-----------|
|-----------|-------|-------|-----------|

| Health Theme  | # Mentions |
|---------------|------------|
| Diabetes      | 3          |
| Mental health | 3          |
| Nutrition     | 3          |
| Substance use | 3          |
| Cancer        | 2          |
| Tobacco use   | 2          |
| Allergies     | 1          |
| Arthritis     | 1          |

| COPD          | 1 |
|---------------|---|
| Dental health | 1 |
| Hygiene       | 1 |
| Hypertension  | 1 |
| Lung disease  | 1 |
| Obesity       | 1 |
| Stroke        | 1 |

| Quality of Life<br>Theme  | # Mentions |
|---------------------------|------------|
| Access to health services | 4          |
| Transportation            | 4          |
| Aging                     | 3          |
| Health insurance          | 3          |
| Poverty                   | 2          |
| Resource availability     | 2          |
| Community trust           | 1          |
| Cost of care              | 1          |
| Education                 | 1          |
| Homelessness              | 1          |
| Law enforcement           | 1          |
| Trash                     | 1          |

# **Interviews**

The CHNA planning team added interviews to this year's CHNA in order to add another layer of depth to the primary data collection process. Interviews also provided key insights into health care and access to care from the perspectives of community leaders engaged in supporting the community. Each interview was conducted with between 2 and 5 community leaders, depending on the organization or group consulted. Altogether there were 12 interviews.

## **Sessions**

Each session included a description of the CHNA, the purpose of the interview, and a reference worksheet with session questions. All interviews are anonymous and all were recorded with permission of the interviewees obtained prior to the start of the interviews. All recorded material is confidential and is stored in the cloud. Data is only accessible by Jean-Marie Kelly (hospital) and Dan Coulter (health department).

#### **Facilitation**

One interviewer facilitated the sessions which lasted 30 minutes-1.5 hours, depending on the number of interviewees and the amount of time spent on each question. The average time was one hour. Interviewees were asked to answer the following questions:

- 1) What work do you/your organization do in the community?
- 2) How would you rate the health and quality of life in Cecil County?
- 3) Has the health and quality of life in Cecil County improved, stayed the same, or declined over the past few years?
- 4) Are there groups of people in Cecil County whose health or quality of life is not as good as others?
- 5) What barriers, if any, exist to improving the health and quality of life of Cecil County residents?
- 6) Do you feel a person's ability to access and use health information is important? Why?
- 7) What are the most important health and quality of life issues in Cecil County?
- 8) What needs to be done to address these issues?
- 9) If you had unlimited funds, what is the one thing you would do to improve the health and quality of life of Cecil County residents?
- 10) Is there anything else you would like to add?

# Responses

Because of the richness of the data, responses were analyzed based on the number of times a health or quality of life theme was referenced. Information listed in the table below collates responses from all focus groups. Additional information about responses specific to each focus group is available upon request. Major health themes included: substance use, mental health, and cancer. Major quality of life themes included: access to health services, transportation, homelessness, and poverty.

Table 12. Interview Responses by Theme

| Health Theme          | # Mentions |
|-----------------------|------------|
| Substance use         | 8          |
| Mental health         | 7          |
| Cancer                | 5          |
| COPD                  | 2          |
| Dental health         | 2          |
| Diabetes              | 2          |
| Heart disease         | 2          |
| Nutrition             | 2          |
| Obesity               | 2          |
| Tobacco use           | 2          |
| Arthritis             | 1          |
| Asthma                | 1          |
| Child & Family health | 1          |
| Childhood trauma      | 1          |
| Chronic disease (all) | 1          |
| Lung disease          | 1          |
| Stroke                | 1          |

| Quality of Life<br>Theme  | # Mentions |
|---------------------------|------------|
| Access to health services | 7          |
| Transportation            | 7          |
| Homelessness              | 6          |
| Poverty                   | 5          |
| Economic issues           | 4          |
| Health insurance          | 4          |
| Resource availability     | 3          |
| Care coordination         | 2          |
| Funding                   | 2          |
| Health literacy           | 2          |
| Public perception         | 2          |
| Utilization               | 2          |
| Cultural competency       | 1          |
| Aging                     | 1          |
| Disabilities              | 1          |
| Education                 | 1          |
| Emergency preparedness    | 1          |
| Health disparities        | 1          |
| Housing                   | 1          |
| Language                  | 1          |
| Partnerships              | 1          |
| Provider support          | 1          |
| Reimbursement             | 1          |
| Social determinants (all) | 1          |

# SECONDARY DATA ANALYSIS

# **Secondary Data**

Secondary data for the CHNA was obtained from local, state, and national sources and the data analysis was formatted according to data categories from the "Community Health Status Assessment Core Indicators List" from the National Association for County and City Health Officials (NACCHO). The data categories include:

- Health Resources
- Quality of Life
- Social Determinants
- Societal Health
- Behavioral Risk Factors
- Environmental Health
- Maternal and Child Health
- Communicable Disease
- Mortality

The categories are described in greater detail below and include Cecil County health and socioeconomic data per category.

## **Health Resources**

Health care provider availability can influence whether the population is able to regularly seek care. The health care landscape is defined by the following factors in Cecil County:

- Union Hospital has 16 physician practices, including two primary care practices;
- Many private practice providers have offices around the county;
- Local and chain pharmacies provide minute-clinics with quick access to primary care services; and
- There are around five urgent care centers with extended hours.

The following changes in health care provider data for Cecil County have been observed between the previous CHNA and this current assessment:

- Personal health care provider<sup>41</sup> decrease
  - <u>Current</u>: In 2016, 85.9% of people reported that they had a personal doctor or health care provider
  - Previous: In 2014, 90.5% of people reported that they had a regular source of primary care

<sup>40</sup> NACCHO. White Paper: Community Health Status Assessment Core Health Indicators List. Accessed at: https://www.naccho.org/

<sup>&</sup>lt;sup>41</sup> Maryland Behavioral Risk Factor Surveillance System. Personal Doctor or Health Care Provider [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/ccdpc/Reports/Pages/brfss.aspx">https://phpa.health.maryland.gov/ccdpc/Reports/Pages/brfss.aspx</a>

- Primary care provider rate<sup>42</sup> increase
  - o Current: In 2016, there were 38 primary care providers per 100,000 population
  - o Previous: In 2012, there were 35 primary care providers per 100,000 population
- Non-physician primary care providers<sup>43</sup> increase
  - o Current: In 2018, there were 52 providers per 100,000 population
  - o Previous: In 2014, there were 29 providers per 100,000 population
- Dental providers<sup>44</sup> no change
  - <u>Current</u>: In 2016, the ratio of population to dentists was 2,503 people to 1 dentist
  - Previous: In 2014, the ratio of population to dentists was 2,560 people to 1 dentist

Despite the increasing rate of providers, two factors remain constant. First, in Cecil County there are significant wait times for gap services like endocrinology and OB/GYN. These services are not widely available in the county and therefore many patients rely on the medical care provided. Also, there are services that have left the county altogether, like cardio-pulmonary rehabilitation, a primary resource for patients with heart and lung conditions. Without available appointments, patients are forced to seek care either down-state in the Baltimore area or out-of-state, which both require longer drive times and the possibility care being out-of-network. Furthermore, if patients with access issues have Medicaid, out-of-state options are not open to them because their insurance will not cover the care.

Second, the health care provider workforce is changing. More and more providers are aging out of the field (retiring) and there are not enough providers to take their place. This causes a shortage. In Cecil County, the provider shortage is primarily due to geographic and economic factors. Newly graduated physicians, extenders, and non-physician providers are not always looking to move to rural areas. They are also looking for higher paid positions with incentives within larger practices and hospital systems. Union Hospital is a small, community hospital located in a rural community, and is often unable to offer competitive compensation and benefits packages when compared to health systems like Christiana Care in Newark and Wilmington, Delaware or the University of Maryland Medical System with locations in eastern and central Maryland. In fact, a majority of Union Hospital providers live in Delaware or Baltimore and commute to Elkton.

# **Quality of Life**

Quality of life indicates an overall sense of well-being for individuals with a supportive community environment. Quality of life can be quantified using indicators related to the determinants of health and community-well being, as well as qualitative perceptions from

<sup>&</sup>lt;sup>42</sup> County Health Rankings. Access to Primary Care Physicians, Cecil County, Maryland [data file]. Accessed at: https://www.countyhealthrankings.org/app/maryland/2019/rankings/cecil/county/outcomes/overall/snapshot

<sup>&</sup>lt;sup>43</sup> County Health Rankings. Non-Physician Primary Care Provider Rate, Cecil County, Maryland [data file]. Accessed at: https://www.countyhealthrankings.org/app/maryland/2019/rankings/cecil/county/outcomes/overall/snapshot

<sup>&</sup>lt;sup>44</sup> County Health Rankings. Dentists, Cecil County, Maryland [data file]. Accessed at: http://www.countyhealthrankings.org/app/maryland/2016/measure/factors/88/data

community residents about aspects of their neighborhoods that either enhance or diminish their quality of life.

The following quality perception data was observed among Cecil County adult residents between the previous CHNA and this current assessment:

- Quality of health care received<sup>45</sup> no change
  - <u>Current</u> (same as previous): In 2014, satisfaction with health care received was 96.9%

As stated before, other indicators of quality of life include perceptions about the community people live in, like public safety, the environment, access to social and other community services. Since there is not a lot of national or state data that can be drilled down to the county level, the CHNA planning team instituted an online community survey that collects local-level data on how the residents of Cecil County perceive their quality of life. It is the intention of the CHNA planning team to build upon this data with every CHNA cycle so that a more robust quality of life data is available for the community's use in order to enhance the social, economic, health, and political structures that support the growth and development of Cecil County.

## **Social Determinants of Health**

There are many determinants that affect health, health outcomes, and access to health care services. In this section, several social determinants of health are discussed in terms of how they impact health outcomes and health behaviors in Cecil County. Healthy People 2020 defines the social determinants of health as, "conditions in the environments in which people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks." Social determinants are part of the social constructs of a society, as well as barriers that must be managed in order to enhance the health and wellbeing of a population. In general, there are five domains of social determinants of health: 1) economic stability, 2) built environment, 3) education, 4) social and community context, and 5) health care systems. The following indicators are categorized by their social determinant domain.

# **Economic Stability**

Income, employment, and transportation are indicators normally associated with this domain. For income and poverty, please refer to the data presented in the Executive Summary.

#### **ALICE**

ALICE or the Asset Limited Income Constrained Employed population holds jobs like child care workers, cashiers, waitresses, home health aides, sanitation workers, and office clerks. These are people who have jobs but also have little to no savings, cannot always pay the bills, and in

<sup>&</sup>lt;sup>45</sup> Maryland Behavioral Risk Factor Surveillance System. Percentage of Adults who Report that they are Satisfied with the Health Care that they Received, Cecil County, Maryland [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/ccdpc/Reports/Pages/brfss.aspx">https://phpa.health.maryland.gov/ccdpc/Reports/Pages/brfss.aspx</a>

<sup>&</sup>lt;sup>46</sup> Healthy People 2020. Social Determinants of Health [webpage]. Accessed at: <a href="https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health">https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health</a>

many cases are forced to make tough choices between things like keeping the utilities on and purchasing medications or feeding their children and putting gas in their car for the commute to work. ALICE individuals are often one emergency away from losing a livelihood, becoming homeless, or not being able to feed the family.

**Figure 25** shows the monetary difference between living as a single adult and living as a family of four with both children under 5 years old. To put this into further context, if the family is only making minimum wage and one of the adults is disabled and cannot work (and perhaps does not qualify for disability based on the total household income), this puts the family at a huge disadvantage to meet the cost of living and still function in a way that provides safety and health for the whole family.

Figure 25. Household Survival Budget, Cecil County, 2016<sup>47</sup>

| Household Survival Budget - Cecil, Maryland, 2016 |              |                                   |  |
|---|--------------|-----------------------------------|--|
|   | Single Adult | 2 Adults, 1 Infant, 1 Preschooler |  |
| Housing   | \$830        | \$1,210                           |  |
| Child Care  | \$0          | \$1,216                           |  |
| Food  | \$182        | \$603                             |  |
| Transportation                                    | \$397        | \$794                             |  |
| Health Care                                       | \$235        | \$884                             |  |
| Technology  | \$55         | \$75                              |  |
| Miscellaneous                                     | \$208        | \$556                             |  |
| Taxes   | \$384        | \$780                             |  |
| Monthly Total                                     | \$2,291      | \$6,118                           |  |
| ANNUAL TOTAL                                      | \$27,492     | \$73,416                          |  |
| Hourly Wage                                       | \$13.75      | \$36.71                           |  |

Discussing the ALICE population is important because their social issues make them more at-risk for higher disease burden and make managing risk factors like diet, exercise, tobacco use, and social supports difficult or even impossible. Their health literacy may also be low or non-existent. In addition, these individuals, due to their employment and asset status, do not qualify for many governmental assistance programs and/or Medicaid. Furthermore, because of these factors, this population could be considered rising risk for higher rates of emergency room visits, admissions, and readmissions. They are the uncontrolled diabetics, the children with mismanaged asthma, and the older adults with severe, debilitating Chronic Obstructive Pulmonary Disease (COPD). Many of their health risk factors are preventable, but due to their constrained life circumstances, they suffer.

<sup>&</sup>lt;sup>47</sup> United Way. Research Center – Selected State: Maryland State Level Details [data file]. Accessed at: <a href="https://www.unitedforalice.org/maryland">https://www.unitedforalice.org/maryland</a>

The next series of figures show the density of ALICE households in Cecil County in 2016 by age, race/ethnicity, income, and families with children.<sup>48</sup> Notice how the percentage or number of ALICE households is greater than households designated as impoverished.

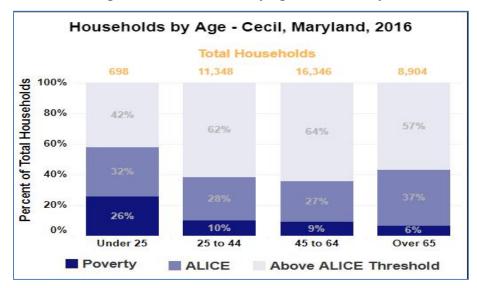
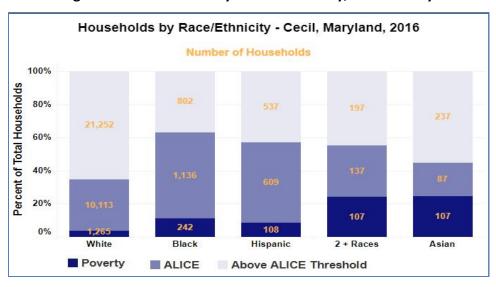


Figure 26. Households by Age, Cecil County

Figure 27. Households by Race & Ethnicity, Cecil County



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<sup>&</sup>lt;sup>48</sup> United Way. Research Center – Selected State: Maryland State Level Details [data files]. Accessed at: <a href="https://www.unitedforalice.org/maryland">https://www.unitedforalice.org/maryland</a>

Figure 28. Households by Income, Cecil County

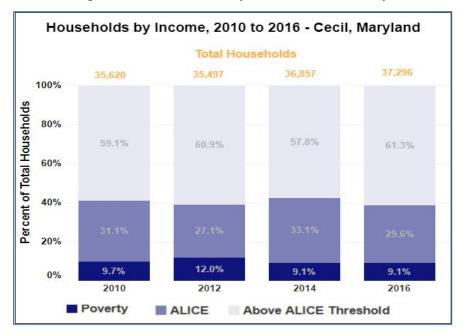
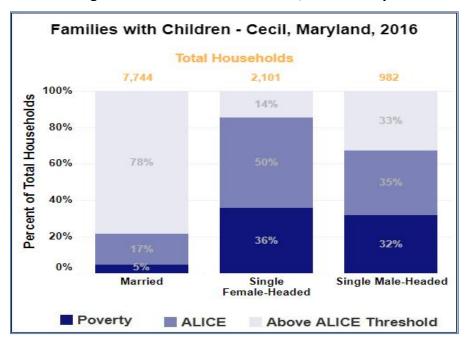


Figure 29. Families with Children, Cecil County



## **Transportation**

Access to transportation is a major factor in determining access to health care in a community. The following transportation data was reported for Cecil County households between the previous CHNA and this current assessment:

- Households without a vehicle<sup>49</sup> no change
  - o <u>Current</u>: In 2017, 5.1% of households did not own a vehicle
  - o Previous: In 2014, 5% of households did not own a vehicle
- Workers (16 years +) commuting by public transportation <sup>50</sup> no change
  - o Current: In 2017, 1.2% of workers used public transportation to get to work
  - o <u>Previous</u>: In 2014, 0.7% of workers used public transportation to get to work

This data, which does not show a change over a three-year period, indicates vehicle ownership does not contribute to a lack of transportation in Cecil County. However, this is not general public opinion. In all community conversations conducted as part of this CHNA and through the Online Community Health Survey, transportation continues to be identified as a top area of concern in Cecil County, especially among special populations, like older adults, the homeless, and those with behavioral health issues. More specifically, lack of transportation was identified as a major barrier to health care by nearly 23% of the Online Community Health Survey respondents, as well as a major resource missing in Cecil County by nearly 30% of survey respondents.

## **Built Environment**

Food, housing, and public safety are indicators normally associated with this domain. In addition to a discussion of the impact of these social determinants, this section includes an analysis of data between the previous and current CHNA reporting periods.

#### Food

Hunger is indiscriminate. It affects all populations and can be based on how much food is consumed to even the proximity to food sources available in the community. The concept of having limited or uncertain availability of and/or ability to access nutritionally adequate foods in socially acceptable ways, is known as food insecurity.

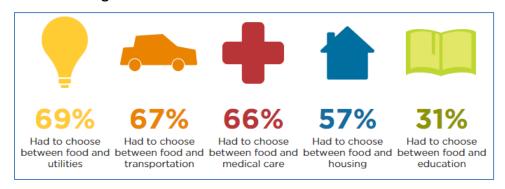
Food insecurity, like hunger, is indiscriminate, but it more frequently impacts populations that are negatively impacted by the social determinants of health, like resource-poor communities and depressed or low-income neighborhoods. The non-profit Feeding America conducted a study with families in 2014 called the *Hunger in America* study, which assessed the impact of social and economic constraints and food. **Figure 30** shows the impact of how limited resources forced hard choices among study participants between food and other staple needs, like utilities, transportation, medical care, housing, and education. <sup>51</sup>

<sup>&</sup>lt;sup>49</sup> US Census Bureau. American Community Survey, 5-year Estimates. Households without a Vehicle, Cecil County [data file]. Accessed at: https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/

<sup>&</sup>lt;sup>50</sup> US Census Bureau. American Community Survey, 5-year Estimates. Workers Commuting by Public Transportation, Cecil County [data file]. Accessed at: <a href="https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/">https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/</a>

<sup>&</sup>lt;sup>51</sup> Feeding America. Compromises and Coping Strategies [webpage]. Accessed at: <a href="https://www.feedingamerica.org/hunger-in-america/impact-of-hunger">https://www.feedingamerica.org/hunger-in-america/impact-of-hunger</a>

Figure 30. The Hard Choice: Food or Other Needs



Children and older adults have higher risk for the consequences of food insecurity. Poor health outcomes among adults attributable to food insecurity include obesity, high cholesterol, high blood pressure, and heart disease. Children who are food insecure are more likely to be hospitalized and are more likely to be at risk for developing asthma, obesity, and social and behavioral issues.

Rural and urban landscapes each are presented with unique challenges when mitigating the factors leading to and resulting from food insecurity. For example, some places in the US are considered food deserts because of their lack of access to healthy foods. Food deserts are often characteristic of low-income or poor areas, hindered by the social determinants of health. While Cecil County is not a food desert, food insecurity for children is a problem. During the previous CHNA it was reported that in 2013, 22% of children under 18 years old were food insecure in Cecil County. For this current CHNA updated Map the Meal Gap data (Feeding America research) for 2017 in Cecil County shows a decrease in rates – now, only 16.4% of children are food insecure.<sup>52</sup>

#### Housing

Housing quality is important to examine because poor quality housing can lead to the following:

- Asthma and other chronic lower respiratory diseases in youth and adults due to mold issues
- Lead poisoning, especially in infants and children
- Bed bugs or other parasitic outbreaks
- Poor pest control, especially from households with pets
- Violence and crime, especially in slum housing

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<sup>&</sup>lt;sup>52</sup> Feeding America. Child Food Insecurity Rate [data file]. Accessed at: <a href="http://www.feedingamerica.org/hunger-in-america/our-research/map-the-meal-gap/data-by-county-in-each-state.html">http://www.feedingamerica.org/hunger-in-america/our-research/map-the-meal-gap/data-by-county-in-each-state.html</a>

Housing quality can also include severe housing problems like overcrowding, high housing costs, lack of a kitchen, and lack of plumbing facilities. Housing data reported for Cecil County households between the previous CHNA and this current assessment included:

- Severe Housing Problems<sup>53</sup> no change
  - <u>Current</u>: In 2015, 15.2% of households encountered at least one of four of the above-mentioned severe housing problems
  - o Previous: In 2012, it was 16% of households

In a three-year reporting period there was almost no change in exposure to severe housing problems in Cecil County. Consistent exposure to these unsafe and unhealthy living conditions can increase risk for health issues, like chronic disease and obesity, as well as infectious disease spread by overcrowding, poor sanitation, and the presence of vermin. Low-income families may have increased risk for exposure to these sub-standard living conditions if they are unable to afford the high price tag of more quality (and regulated) housing.<sup>54</sup>

### **Education**

Among Cecil County adult residents ages 25 and older 88.8% of residents are at least a high school graduate and 23.0% possess a bachelor's degree or higher. This is lower than the overall education level of Maryland adult residents ages 25 and older, where 89.8% of residents are high school graduates or higher and 39.0% possess a bachelor's degree or higher. A breakdown of educational attainment among Cecil County adults is included in **Figure 31**.55

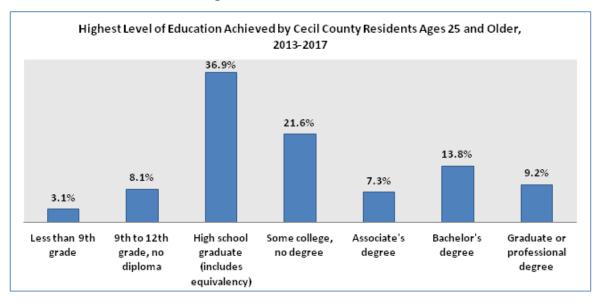


Figure 31. Educational Attainment

<sup>&</sup>lt;sup>53</sup> US Department of Housing and Urban Development. Comprehensive Housing Affordability Strategy. Severe Housing Problems, Cecil County, Maryland [data file]. Accessed at: <a href="http://www.countyhealthrankings.org/app/maryland/2016/measure/factors/136/data">http://www.countyhealthrankings.org/app/maryland/2016/measure/factors/136/data</a>

<sup>&</sup>lt;sup>54</sup> Union Hospital. Cecil County Health Data. Severe Housing Problems, Cecil County: Why is this Important? [data file]. Accessed at: <a href="https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/">https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/</a>

<sup>55</sup> US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Educational Attainment [data file] Accessed at: https://factfinder.census.gov

High school graduation rates in Cecil County have been improving and compare favorably to statewide rates. The four-year graduation rate in Cecil County improved from 80.5% for 2009-2010 to 90.5% for 2017-2018. The statewide four-year graduation rate for 2017-2018 was 87.67%. Some disparities four-year graduation rates exist in Cecil County. Females have had consistently higher graduation rates than males in Cecil County over this timeframe. Also, students who identified as Black or African American or Hispanic/Latino of any race had lower high school graduation rates than students who identified as White for 2017-2018. **Figure 32** shows four-year graduation rates by race/ethnicity for Cecil County in 2017-2018.

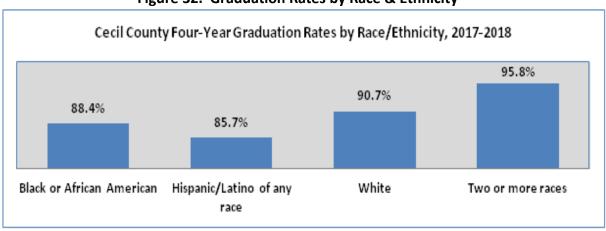


Figure 32. Graduation Rates by Race & Ethnicity<sup>56</sup>

## **Health Care Systems**

Access to health care services (discussed in Health Resources), health insurance coverage, and health literacy are the social determinants found within this domain. These are factors that impact the way individuals engage in health behaviors that determine health outcomes. The following information explains these determinants in more detail.

## Health Insurance Coverage

Since the adoption of the Affordable Care Act (ACA), the percentage of uninsured persons in the county has decreased significantly. From 2013-2017 an estimated 5.5% of Cecil County residents were uninsured. Of the estimated 94.5% of Cecil County residents with health insurance, 73.9% had private health insurance and 32.8% had public health insurance coverage.<sup>57</sup>

## Health Literacy

Health literacy encompasses a person's ability to access, use, and interpret health information. Sometimes it is assumed that patients or clients are health literate because often when they meet with their medical provider they do not give any indication that they do not understand the information that has been given to them. However, many patients, regardless of their

<sup>&</sup>lt;sup>56</sup> Maryland State Department of Education. Maryland Report Card: 2017 and 2018 [data files]. Accessed at: http://reportcard.msde.maryland.gov/

http://reportcard.msde.maryland.gov/

57 US Census Bureau. American Community Survey, 5-Year Estimates, 2013-2017. Health insurance coverage by type [data file]. Accessed at: https://factfinder.census.gov

education or reading level, have difficulty understanding and using health information. Health information examples include: medication instructions, pre- or post-surgical procedures, health care forms, pamphlets/brochures, and verbal instructions.

Low health literacy can lead to a person not being able to:

- Make proper health-related decisions for themselves or others;
- Adequately follow medication regimens;
- Over-utilize health care services that are not appropriate to their care regimen, like the ER; and/or
- Properly care for children's health issues.<sup>58</sup>

Barriers to health literacy include: language, ability to read, comprehension, vision or hearing impairments, and even culture. Other social determinants, like poverty and education, also impact health literacy.

It is important that health care providers, outreach workers, and other health professionals pay attention to defining health literacy levels in patients and clients and diffusing barriers. Strategies for increasing and sustaining health literacy include:

- Screening for health literacy;
- Providing visual aids or cues in addition to print materials;
- Using certified medical interpreters to break down language and culture barriers;
- Incorporating a teach-back method using open-ended questions to establish content retention; and
- Promoting a buddy system where patients/clients have access to additional peer support and instructional reinforcement during doctors' visits.

# **Societal Health**

Societal health is integral to the sustainability of a healthy community, so analyzing public safety indicators, like child abuse, domestic violence, violent crime, and suicide can develop a more comprehensive understanding of how these factors impact community health. Studying societal health can also create opportunities to intervene collaboratively with entities like public health, law enforcement, social services, emergency services, mobile crisis services, and behavioral health services.

#### **Child Abuse**

The Federal Child Abuse Prevention and Treatment Act (CAPTA) defines child abuse and neglect as "any recent act or failure to act on the part of a parent or caretaker which results in death, serious physical or emotional harm, sexual abuse or exploitation;" or "an act or failure to act which presents an imminent risk of serious harm." Child abuse is non-discriminate in that it

<sup>&</sup>lt;sup>58</sup> Healthy People 2020. Health Literacy [webpage]. Accessed at: <a href="https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/health-literacy">https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/health-literacy</a>

<sup>&</sup>lt;sup>59</sup> Children's Bureau. Child Welfare Information Gateway, 2016. Definitions of Child Abuse and Neglect in Federal Law [webpage]. Accessed at: <a href="https://www.childwelfare.gov/topics/can/defining/federal/">https://www.childwelfare.gov/topics/can/defining/federal/</a>

can be carried out by anyone at any time and it does not occur within any specific socioeconomic group.

**Figure 33** shows the rate of child maltreatment cases per 1,000 population under the age of 18 years in Cecil County from 2011 - 2016. The graph also indicates data reported during the previous CHNA and this current CHNA, which shows that there has been a significant decrease in the case rate from data reported during the previous CHNA and this current CHNA.

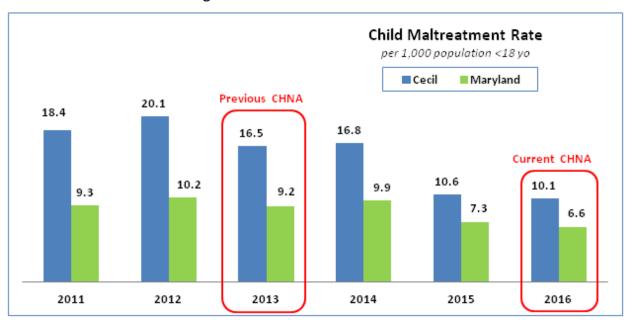


Figure 33. Child Maltreatment Rate<sup>60</sup>

During the last CHNA it was reported that the case rate nearly doubled that of the state from year to year (2011-2013). However, for this current CHNA, it is evident that the case rate is becoming more level with that of the state (2015-2016). This may indicate that more emphasis has been placed on benchmarking according to state best practice. This is further supported by the fact that in Cecil County over the last five years there have been many programs and activities created to promote prevention of child abuse by collaborating on strategies to strengthen families, educate on positive parenting skills, encourage mandatory reporting, and enhance access to child and family services available in the community.

### **Domestic Violence**

The US Department of Justice defines domestic violence as:

...A pattern of abusive behavior in any relationship that is used by one partner to gain or maintain power and control over another intimate partner. Domestic violence can be physical, sexual, emotional, economic, or psychological actions or threats of actions that influence another person. This includes any behaviors that intimidate, manipulate,

<sup>&</sup>lt;sup>60</sup> Maryland Governor's Office for Children. Results Scorecard – Cecil County [webpage]. Accessed at: <a href="https://goc.maryland.gov/cecil/">https://goc.maryland.gov/cecil/</a>

humiliate, isolate, frighten, terrorize, coerce, threaten, blame, hurt, injure, or wound someone.<sup>61</sup>

**Figure 34** shows the rate of domestic violence crimes in Cecil County compared to the state. Data reported during the previous CHNA showed a county rate higher than that of the state. However, the rate has decreased over the last 4 years, now showing the county rate (2017) below that of the state.

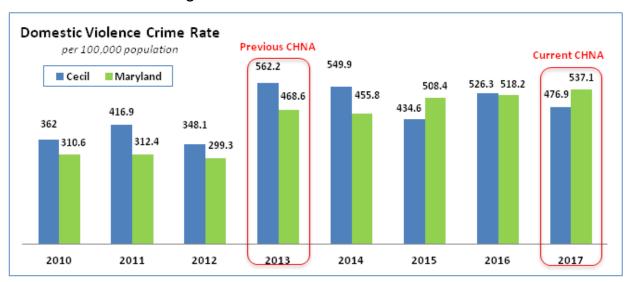


Figure 34. Domestic Violence Crime Rate<sup>62</sup>

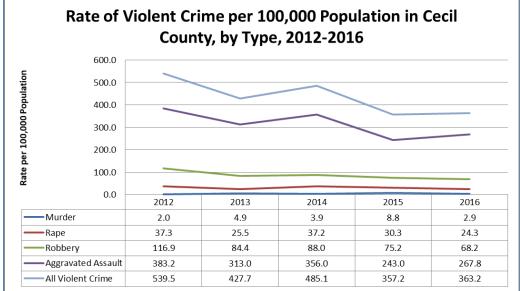
#### **Violent Crime**

Violent crimes are defined as offenses that involve face-to-face confrontation between the victim and the perpetrator, including homicide, rape, robbery, and aggravated assault. The violent crime rate is the number of violent crimes reported per 100,000 population. **Figure 35** shows violent crime rate by type in Cecil County from 2012-2016. For the previous CHNA, homicide deaths were reported instead, but there were no breakouts included so the indicator was changed for this assessment.

<sup>&</sup>lt;sup>61</sup> US Department of Justice. Domestic Violence [webpage]. Accessed at: <a href="https://www.justice.gov/ovw/domestic-violence">https://www.justice.gov/ovw/domestic-violence</a>

<sup>&</sup>lt;sup>62</sup> The Maryland Uniform Crime Reporting Program. Rate of domestic violence crimes per 100,000 population, Cecil County, Maryland [data file]. Accessed at: <a href="https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/">https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/</a>

Figure 35. Violent Crime Rate<sup>63</sup> County, by Type, 2012-2016



### **Suicide**

The Maryland Youth Risk Behavior Survey (YRBS) is a survey administered to middle and high school students across the state, asking various questions about youth risk behaviors. Table 13 shows the two survey questions monitored for the Cecil County CHNA. The 2013 YRBS data shows what was reported in the previous CHNA report, and the 2016 YRBS data goes with this current CHNA report. There was a slight increase in feelings of sadness and hopelessness among high school students during the three-year expanse between YRBS surveys.

Table 13. Depression and Thoughts of Suicide among Cecil County High School Students<sup>64</sup>

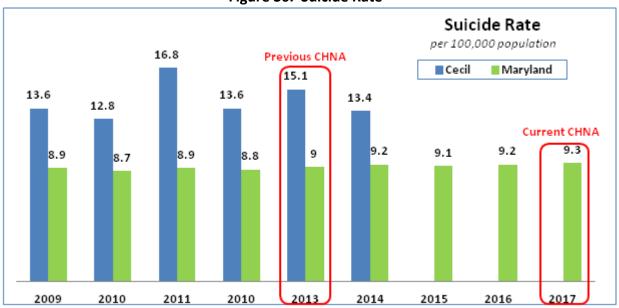
| Survey Item  | 2013  | 2016  |
|--|-------|-------|
| Percentage of students who felt so sad or hopeless almost every day for two weeks or more in a row that they stopped doing some usual activities during the past 12 months | 27.5% | 29.7% |
| Percentage of students who seriously considered attempting suicide during the past 12 months   | 15.5% | 16.9% |

Figure 36 shows the suicide death rate for adults in Cecil County. Cecil County rates were significantly higher than the state's rates for data analyzed during the previous CHNA; however, for data from 2015-2017 Cecil County rates dropped below the reporting threshold and were not reported in applicable Maryland data sets.

<sup>&</sup>lt;sup>63</sup> Maryland State Police. Crime in Maryland: 2016 Uniform Crime Report [webpage]. Accessed at: https://www.uhcc.com/aboutus/community-benefit/cecil-county-health-data/

<sup>64</sup> Maryland Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS). 2016 and 2013 Youth Risk Behavior Survey Data [webpages]. Accessed at: https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS-Main.aspx

Figure 36. Suicide Rate<sup>65</sup>



## **Behavioral Risk Factors**

A risk factor is a characteristic or exposure that increases the likelihood of developing a disease, condition, or altered state. Examples include tobacco use, inadequate physical activity, poor nutrition, high blood pressure, unsafe sex, substance use, and alcohol use. <sup>66</sup>

The following changes in behavioral risk factor data were observed in Cecil County between the reporting periods for the previous CHNA and this current assessment:

- Tobacco use Adults<sup>67</sup> increase
  - o Current: In 2017, an estimated 24.8% of adults reported smoking
  - Previous: In 2014, an estimated 12.4% of adults reported smoking
- Tobacco use Teens<sup>68, 69</sup> increase
  - <u>Current</u>: In 2016, 26.6% of high school students reported using any tobacco product, including electronic nicotine delivery systems (e-cigarettes, vaping)
  - Previous: In 2010, 20.5% of high school teens reported having smoked cigarettes on at least one day during the 30 days prior to the survey

<sup>&</sup>lt;sup>65</sup> Maryland Vital Statistics Administration. Vital Statistics and Reports [webpage]. Accessed at: https://health.maryland.gov/vsa/Pages/reports.aspx

<sup>66</sup> World Health Organization. Risk Factors [webpage]. Accessed at: https://www.who.int/topics/risk\_factors/en/

<sup>&</sup>lt;sup>67</sup> Union Hospital. Cecil County Health Data. Adults who Smoke [data file]. Accessed at: <a href="https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/">https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/</a>

Maryland Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS). 2016 Youth Risk Behavior Survey Data [webpage]. Accessed at: <a href="https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS2016.aspx">https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS2016.aspx</a>

<sup>&</sup>lt;sup>69</sup> MDQuit.org. Youth Tobacco Use. Maryland Youth Tobacco Survey [data files]. Accessed at: <a href="https://mdquit.org/tobacco-use/youth-tobacco-use/youth

- Excessive drinking adults<sup>70</sup> no change
  - Current: In 2016, 18% of adults reported excessive drinking
  - o Previous: In 2012, 18% of adults reported excessive drinking
- Binge drinking –teens<sup>71, 72</sup> decrease
  - Current: In 2016, 17.9% of high school students reported binge drinking (4+ drink for females, 5+ drinks for males, in a row, within a couple of hours, on at least one day in the 30 days prior to the survey)
  - Previous: In 2013, 23% of high school teens reported having had 5 or more drinks in a row, within a couple of hours, on one or more times during the last 30 days

The increases observed in tobacco use among adults and high school teens are significant and could be the result of the mass-marketing of electronic nicotine delivery systems (ENDS), like ecigarettes and JUULs, which began in 2015. The decrease in teen binge drinking could be a result of the crack-down on sales of alcoholic beverages to minors in Cecil County which was sponsored by the diligent efforts of the Maryland Strategic Prevention Framework 2 coalition (reducing underage drinking) and their collaboration with youth providers, law enforcement, alcohol distributors, and the Cecil County Liquor Board.

# **Environmental Health**

The places where people live, work, and play can have a great effect on our overall health and quality of life. People interact with the environment constantly and these interactions can negatively impact their health. The World Health Organization (WHO) defines environment, as it relates to health, as "all the physical, chemical, and biological factors external to a person, and all the related behaviors." According to the National Association of County and City Health Officials (NACCHO), clean air and water, as well as safely prepared food, are essential to physical health. Exposure to environmental substances such as lead or hazardous waste increases risk for preventable disease. Unintentional home, workplace, or recreational injuries affect all age groups and may result in premature disability or mortality. <sup>74</sup> Maintaining a healthy environment is important to increasing the health and quality of life of Cecil County residents.

# **Air Quality & Chronic Lower Respiratory Diseases**

The quality of the air impacts breathing and the ability to function in outdoor spaces. Poor air quality can lead to health conditions like asthma and other chronic lower respiratory diseases such as COPD and bronchitis. Cecil County has a higher prevalence of respiratory diseases than Maryland. Figure 37 shows the age-adjusted prevalence of asthma and COPD among Cecil

 $<sup>^{70}</sup>$  County Health Rankings. Excessive Drinking [data file]. Accessed at: https://www.countyhealthrankings.org/app/maryland/2018/measure/factors/49/data

<sup>71</sup> Maryland Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS). 2016 Youth Risk Behavior Survey Data [webpage]. Accessed at: https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS2016.aspx#Cecil

72 Maryland Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS). 2013 Youth Risk Behavior Survey Data [webpage]. Accessed at:

https://phpa.health.maryland.gov/ccdpc/Reports/Pages/yrbs2013.aspx

<sup>&</sup>lt;sup>73</sup> World Health Organization. *Report: Preventing disease through healthy environments, 2006.* Accessed at: https://www.who.int/quantifying\_ehimpacts/publications/preventing-disease/en/

<sup>74</sup> National Association of County and City Health Officials. Community Health Status Assessment: Core Indicators List, 2016. Category 6: Environmental Health Indicators [webpage]. Accessed at: https://www.naccho.org/

County and Maryland adult residents in 2017. Also, in 2017, 6.2% of Cecil County Medicare beneficiaries were treated for asthma and 16.4% were treated for COPD. 75, 76

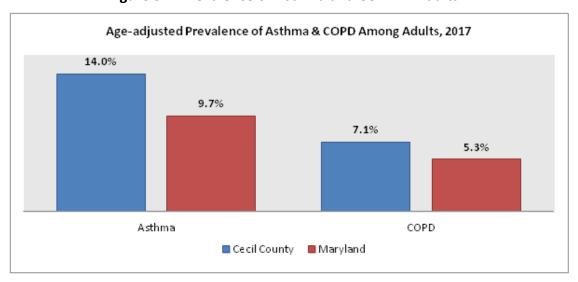


Figure 37. Prevalence of Asthma and COPD in Adults<sup>77</sup>

The prevalence of asthma is even higher among youth in Cecil County and Maryland. **Figure 38** shows the percentage of Cecil County and Maryland middle and high school students who reported ever being told by a doctor or nurse that they had asthma. Among Cecil County high school students, the prevalence of asthma was significantly higher for non-Hispanic Black students (37.0%) than non-Hispanic White students (25.8%).

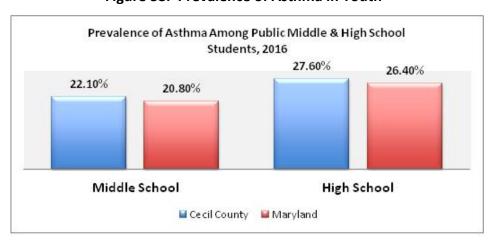


Figure 38. Prevalence of Asthma in Youth<sup>78</sup>

<sup>&</sup>lt;sup>75</sup> Centers for Medicare and Medicaid Services. Asthma: Medicare Population, Cecil County, Maryland [data file]. Accessed at: http://cecil.md.networkofcare.org/ph/

http://cecil.md.networkofcare.org/ph/

76 Centers for Medicare and Medicaid Services. COPD: Medicare Population, Cecil County, Maryland [data file]. Accessed at:

http://cecil.md.networkofcare.org/ph/

77 Manyland Baha in the first Services of the first Services o

<sup>77</sup> Maryland Behavioral Risk Factor Surveillance System. Adults with Asthma [data file]. Accessed at: http://cecil.md.networkofcare.org/ph/

<sup>78</sup> Maryland Youth Risk Behavior Survey/Youth Tobacco Survey (YRBS/YTS). 2016 Youth Risk Behavior Survey Data [webpage]. Accessed at: https://phpa.health.maryland.gov/ccdpc/Reports/Pages/YRBS2016.aspx#Cecil

In Cecil County ER utilization related to asthma has risen considerably over the last several years, surpassing state averages. **Figure 39** shows the rate of emergency room (ER) visits due to asthma per 10,000 population, from 2008 to 2017 in Cecil County compared to Maryland.

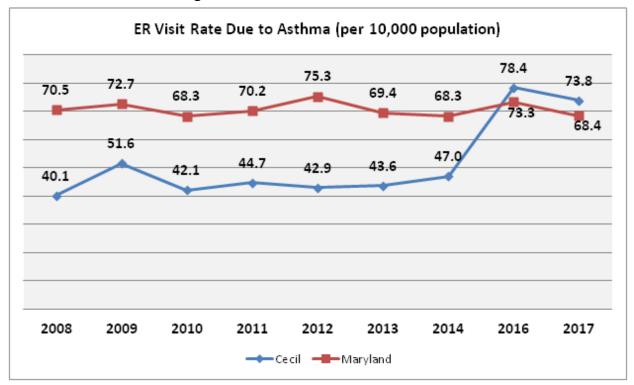


Figure 39. ER Visit Rate due to Asthma<sup>79</sup>

#### **Air Pollution & Poor Health Outcomes**

Air pollution is a leading environmental threat to human health. According to the CDC, exposure to fine particulate matter in the air can lead to breathing problems, make asthma symptoms or some heart conditions worse, and lead to low birth weight. In 2014, Cecil County had an average daily density of fine particulate matter in micrograms per cubic meter ( $PM_{2.5}$ ) of 10.7, compared to an average daily density of 9.6 statewide. The national standard for  $PM_{2.5}$  is 12.0µg/m3. When  $PM_{2.5}$  levels are above 12, air quality is more likely to affect human health.

Exposure to ozone is another threat to human health. Ozone can cause the muscles in the airways to constrict, trapping air in the alveoli and leading to wheezing and shortness of breath. Long-term exposure to ozone can aggravate lung diseases such as asthma, and is likely to

<sup>&</sup>lt;sup>79</sup> Health Services Cost Review Commission. Research Level Statewide Outpatient Data Files. Rate of Emergency Room Visits due to Asthma per 100,000 population, Cecil County, Maryland, 2008-2017 [data file]. Accessed at: <a href="https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/">https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/</a>

county-health-data/
80 Centers for Disease Control and Prevention. National Environmental Public Health Tracking Network. Air Quality: Particulate Matter, 2014 [data file]. Accessed at: https://ephtracking.cdc.gov/

contribute to asthma development.<sup>81</sup> Cecil County residents were exposed to unhealthy levels of ozone for 5 Days in 2014.<sup>82</sup>

## **Water Quality**

Access to safe drinking water is important to prevent illness, birth defects and death. Health-related drinking water violations of community water systems are reported to the national Safe Drinking Water Information System. Cecil County has experienced at least one health-related drinking water violation among its community water systems in both 2016 and 2017. 83

### **Vector-Borne Disease**

A disease vector is any organism that carries and transmits an infectious pathogen into another living organism. The most common disease vectors are parasites, like mosquitoes, fleas, and ticks. Vector-borne diseases are categorized into four branches:

- 1) Arboviral Diseases viruses spread by mosquitoes and ticks (ex. West Nile, Malaria, Zika);
- 2) Bacterial Diseases bacteria spread by fleas and ticks (ex. Lyme disease, plague);
- 3) Dengue dengue viruses spread by mosquitoes; and
- 4) Rickettsial Zoonoses bacteria spread by fleas, ticks, and lice (ex. Rocky Mountain Spotted Fever, typhus fever). 84

If a person gets bitten by a disease vector and gets sick then they have a vector-borne disease.<sup>85</sup> Vector-borne diseases can pose a threat to infected individuals if the signs and symptoms are not recognized and treated in a timely manner. The most prevalent vector-borne diseases in Cecil County are Lyme disease and rabies.

#### Lyme Disease

Cecil County has a high incidence of Lyme disease, though the reported incidence has fallen over the past several years (Figure 40). Underreporting of Lyme disease is a problem. It is believed that the true incidence of Lyme disease in the United States is around ten times higher than what is reported.<sup>86</sup>

<sup>&</sup>lt;sup>81</sup> United States Environmental Protection Agency. Health Effects of Ozone Pollution [webpage]. Accessed at: <a href="https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozone-pollution">https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozone-pollution</a>

<sup>&</sup>lt;sup>82</sup> Centers for Disease Control and Prevention. National Environmental Public Health Tracking Network. Ground level Ozone, 2014 [data file]. Accessed at: <a href="https://ephtracking.cdc.gov/">https://ephtracking.cdc.gov/</a>

<sup>83</sup> United States Environmental Protection Agency. Safe Drinking Water Information System [data file]. Accessed at: https://www.countyhealthrankings.org/app/maryland/2019/measure/factors/124/datasource

<sup>&</sup>lt;sup>84</sup> Centers for Disease Control and Prevention. Division of Vector-Borne Diseases [webpage]. Accessed at: https://www.cdc.gov/ncezid/dvbd/about.html

<sup>&</sup>lt;sup>85</sup> Centers for Disease Control and Prevention. Division of Vector-Borne Diseases [webpage]. Accessed at: https://www.cdc.gov/ncezid/dvbd/index.html

<sup>&</sup>lt;sup>86</sup> Centers for Disease Control and Prevention. Lyme Disease: Data and Surveillance [webpage]. Accessed at: https://www.cdc.gov/lyme/datasurveillance/index.html

Lyme Disease Cases per 100,000 Population, Cecil County 111.8 89.5 84.6 **Previous CHNA** 66.4 65.4 61.3 60.4 57.8 2014 2010 2011 2012 2013 2015 2016 2017

Figure 40. Lyme Disease in Cecil County<sup>87</sup>

### **Rabies**

Rabies is a nearly universally fatal zoonotic disease, but is preventable in humans through the administration of post exposure prophylaxis (PEP) to exposed individuals. In Maryland, rabies is most often found in raccoons, skunks, foxes, cats, bats, and groundhogs. Other mammals including dogs, ferrets, and farm animals can get rabies if they are not vaccinated. There have been no reported rabies cases in humans in Cecil County during recent history, however from 2013-2017 there were 34 cases of rabies found in animals in the county. Some 1,466 animal bites were reported in Cecil County during this time period. <sup>88,89</sup>

## **Lead Exposure**

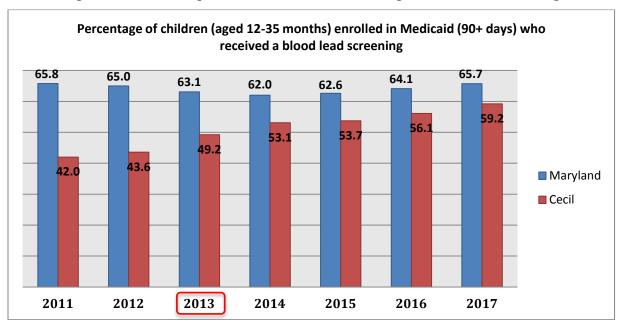
Lead exposure can contribute to a number of health issues, especially developmental issues among children. Most often lead exposure is identified from children ingesting dust and paint chips from chipping or peeling lead paint found in homes constructed before lead paint was banned in 1978. **Figure 41** shows the percentage of children (12-35 months) enrolled in Medicaid that received blood lead screenings from 2011 to 2017 in Cecil County and Maryland, while **Figure 42** shows the percentage of all children (0-72 months) tested who screened positive for elevated blood levels (>10  $\mu$ g/dL) from 2009-2017 in Cecil County and Maryland.

Maryland Department of Health. Prevention and Health Promotion Administration. National Electronic Disease Surveillance System Database. Case Rates of Lyme Disease, Cecil County, Maryland, 2010-2017 [data file]. Accessed at: https://phpa.health.maryland.gov/Pages/disease-conditions-count-rates.aspx

Maryland Department of Health. Prevention and Health Promotion Administration. National Electronic Disease Surveillance System Database. Rabies-Animal, Cecil County, Maryland, 2013-2017 [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/Pages/disease-conditions-count-rates.aspx">https://phpa.health.maryland.gov/Pages/disease-conditions-count-rates.aspx</a>

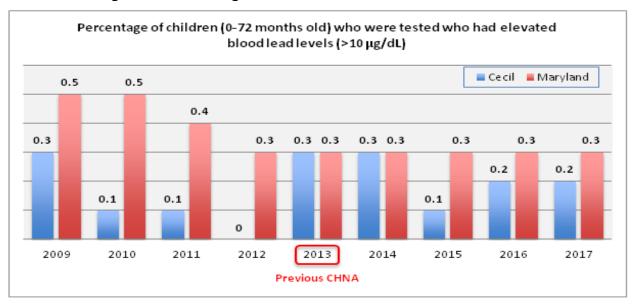
Maryland Department of Health. Prevention and Health Promotion Administration. National Electronic Disease Surveillance System Database. Animal Bites, Cecil County, Maryland, 2013-2017 [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/Pages/disease-conditions-count-rates.aspx">https://phpa.health.maryland.gov/Pages/disease-conditions-count-rates.aspx</a>

Figure 41. Percentage Medicaid Children Receiving a Blood Lead Screening<sup>90</sup>



**Previous CHNA** 

Figure 42. Percentage Children with Elevated Blood Lead Levels<sup>91</sup>



Maryland Medicaid Service Utilization. Percentage of children (aged 12-35 months) enrolled in Medicaid (90+ days) who received a blood lead screening, Cecil County, Maryland, 2011-2017 [data file]. Accessed at: <a href="http://ship.md.networkofcare.org/ph/ship-details.aspx?id=md\_ship43">http://ship.md.networkofcare.org/ph/ship-details.aspx?id=md\_ship43</a>
Maryland Department of the Environment. Percentage of children (0-72 months old) who were tested and who had elevated blood lead

<sup>&</sup>lt;sup>21</sup> Maryland Department of the Environment. Percentage of children (0-72 months old) who were tested and who had elevated blood lead levels (>10 μg/dL), Cecil County, Maryland, 2009-2017 [data file]. Accessed at: <a href="http://ship.md.networkofcare.org/ph/ship-details.aspx?id=md\_ship13">http://ship.md.networkofcare.org/ph/ship-details.aspx?id=md\_ship13</a>

# **Maternal & Child Health**

Maternal and child health is an important determinant of child growth and development. From womb to world, appropriate care of baby and mother can lead to positive health outcomes and reduce child mortality.

#### **Prenatal Care**

It is important for mothers to receive prenatal care in the first trimester in order to engage the mother in caring for herself and baby. The following changes in data were observed in Cecil County between the reporting periods for the previous CHNA and this current assessment:

- Prenatal care in the first trimester<sup>92</sup> no change
  - o Current: In 2017, 75.8% of mothers received prenatal care in the first trimester
  - o Previous: In 2013, 76.5% of mothers received prenatal care in the first trimester

Prenatal care can reduce the risk for low birth weight. The steady trend for prenatal care over the last four years matches that of the rate of low birth weight during this same time frame, which may indicate a positive correlation between the two factors.

#### **Teen Birth Rate**

Babies born to teen mothers may be born pre-term or with low birth weight. In addition, teen pregnancy and delivery can be harmful to the mother's health and social development. The following changes in data were observed in Cecil County between the reporting periods for the previous CHNA and this current assessment:

- Teen birth-rate<sup>93</sup> decrease
  - o Current: In 2017, there were 18.2 live births per 1,000 teen females
  - o Previous: In 2013, there were 22.8 live births per 1,000 teen females

Since 2013, there has been a gradual decrease in the rate of teen births for this age group. This could be due to more promotions for the prevention of teen pregnancy or the risk factors that contribute. It could also be due to the fact that there are not a lot of teen pregnancy resources available in Cecil County. A majority of teens who receive pre- and post-natal care, including delivery, may not be doing so in this county.

# Low Birth Weight

Babies born with low birth weight can be deficient as they grow, depending on the cause of the low birth weight. Women who smoke, drink alcohol, and use illicit substances during pregnancy have a greater risk of their babies being born with low birth weight. Developmentally, these babies can suffer from the inability to form organ systems correctly or can have deficiencies in organ and system development and function, as well as cognitive function and development.

<sup>&</sup>lt;sup>92</sup> Maryland Vital Statistics Administration. Vital Statistics and Reports [webpage]. Accessed at: https://health.maryland.gov/vsa/Pages/home.aspx

<sup>93</sup> Maryland Vital Statistics Administration. Vital Statistics and Reports [webpage]. Accessed at: https://health.maryland.gov/vsa/Pages/home.aspx

The following changes in data were observed in Cecil County between the reporting periods for the previous CHNA and this current assessment:

- Low birth weight 94 increase
  - o Current: In 2017, 7.4% of babies were born with low birth weight
  - o Previous: In 2013, 6.9% of babies were born with low birth weight

From 2011-2014, there was a steady decline in the percentage of babies born with low birth weight, but then there was a spike from 2014 (5.8%) to 2015 (8.9%). From 2015-2017 there resumed a decline in percentages. From 2014-2015 there may have been an increase in births altogether which could account for the spike in babies with low birth weight, but the specific reasoning is unknown to this assessment.

## **Sudden Unexpected Infant Death**

Sudden Unexpected Infant Death (SUID) occurs in babies that are less than 1 year old usually from a cause that is not obvious before investigation. Deaths primarily occur during sleep, impacted by the state of the baby's sleep area, and often include suffocation during sleep. Prevention education includes safe sleeping practices through programs like Safe to Sleep.<sup>95</sup>

The following changes in data were observed in Cecil County between the reporting periods for the previous CHNA and this current assessment:

- SUID rate<sup>96</sup> increase
  - o Current: In 2016, there were 2.2 SUID deaths per 1,000 live births
  - o <u>Previous</u>: In 2013, there was 1 SUID death per 1,000 live births

Unfortunately there is not enough data to determine why there was an increase in the death rate in Cecil County. The Centers for Disease Control and Prevention's Center for Reproductive Health only has SUID monitoring programs in 22 states, which makes more robust surveillance of this issue problematic.<sup>97</sup>

# **Substance Use during Pregnancy**

When mothers use illicit drugs or other harmful substances during pregnancy, babies can be born with Neonatal Abstinence Syndrome (NAS) (baby is born addicted to substances and goes through withdrawal in the first 3-7 days), Fetal Alcohol Syndrome (FAS) (baby is born with cognitive deficits and facial malformations), and a number of other issues and disorders.

A recent assessment of Union Hospital births data for Substance-Effected Newborns (SENS), a diagnosis similar to NAS, revealed that in Calendar Year 2018, of the 577 live births, 93 babies (16%) were diagnosed with SENS. In addition, of the 93 SENS cases, there were 84 reports from

<sup>&</sup>lt;sup>94</sup> Maryland Vital Statistics Administration. Vital Statistics and Reports [webpage]. Accessed at: <a href="https://health.maryland.gov/vsa/Pages/home.aspx">https://health.maryland.gov/vsa/Pages/home.aspx</a>

<sup>&</sup>lt;sup>95</sup> Centers for Disease Control and Prevention. Sudden Unexpected Infant Death and Sudden Infant Death Syndrome [webpage]. Accessed at: https://www.cdc.gov/sids/about/index.htm

<sup>&</sup>lt;sup>96</sup> Union Hospital. Cecil County Health Data. Sudden Unexpected Infant Death Rate [data file]. Accessed at: <a href="https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/">https://www.uhcc.com/about-us/community-benefit/cecil-county-health-data/</a>

<sup>&</sup>lt;sup>97</sup> Centers for Disease Control and Prevention. Sudden Unexpected Infant Death and Sudden Infant Death Syndrome [webpage]. Accessed at: <a href="https://www.cdc.gov/sids/about/index.htm">https://www.cdc.gov/sids/about/index.htm</a>

Union Hospital to Child Protective Services. This data is important to include because there is not a federal mandatory reporting law for substance use identified during birth. It is usually determined state by state and even hospital by hospital.

In addition, the data set also included NAS births data. Of the 577 live births at Union Hospital in 2018, there were 56 NAS births (about 10%) documented by the medical provider. Data for reports to CPS was not included for this cohort. Union Hospital data was pulled and analyzed to inform the trauma prevention work of the Cecil County Local Management Board's subcommittee on Childhood Trauma.

# **Communicable Disease**

Communicable diseases are transmitted through person-to-person contact or through shared use of contaminated instruments or materials. Many communicable diseases can be prevented through a high level of vaccine coverage of vulnerable populations or through the use of protective measures, such as condoms for the prevention of sexually transmitted infections.

#### **Vaccinations**

Vaccines control and eliminate infectious and communicable disease within a population. They are also integral to protecting the growth and development process of persons as they age from infancy to adulthood. There is no population level childhood vaccination data available for Cecil County; however, the percentage of children statewide (aged 19-35 months) receiving recommended vaccines decreased from a high of 78.0% in 2011 to 75.2% in 2017. Among adults, 47.5% of Cecil County residents reported receiving a flu vaccine in the past 12 months, compared to 45.3% statewide. 99

# **Sexually Transmitted Infections**

Sexually transmitted infections (STIs), also known as sexually transmitted diseases (STDS) are very common and easily preventable. STIs are passed from one person to another through sexual activity including vaginal, oral, and anal sex. STIs don't always cause symptoms or may only cause mild symptoms, so it is possible to have an infection and not know it. Without proper education and prevention practices, STIs can spread rapidly in a population and have a large impact on health. In recent years STI cases have increased dramatically in Cecil County, Maryland and across the nation.

## Chlamydia

The rate of reported Chlamydia cases in Cecil County has increased significantly over the last five years; from 253.3 cases per 100,000 population in 2014 to 327 cases per 100,000 population in 2018. Other jurisdictions in Maryland have shown similar increases as shown

<sup>&</sup>lt;sup>98</sup> Centers for Disease Control and Prevention. National Immunization Survey [data file]. Accessed at: <a href="https://www.cdc.gov/vaccines/imz-managers/nis/index.html">https://www.cdc.gov/vaccines/imz-managers/nis/index.html</a>

Maryland Behavioral Risk Factor Surveillance System. Adults Receiving Flu Vaccine [data file] Accessed at: <a href="https://ibis.health.maryland.gov">https://ibis.health.maryland.gov</a>
Maryland Department of Health. Center for Sexually Transmitted Infection Prevention. Maryland Office of Planning. Chlamydia Cases per 100,000 Population in Cecil County, 2005-2014 [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx">https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx</a>

in **Figure 43.** The burden of Chlamydia is highest among youth and young adults in Cecil County. In 2017, over three quarters (76.6%) of reported Chlamydia cases were among those ages 15-24 years of age. <sup>101</sup> The rate of reported Chlamydia cases in Cecil County remains significantly lower than the average for Maryland.

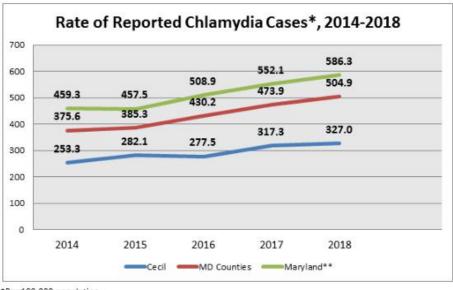


Figure 43. Rate of Reported Chlamydia Cases<sup>102</sup>

\*Per 100,000 population \*\*Includes Baltimore City

## Gonorrhea

The rate of reported gonorrhea cases in Cecil County also increased significantly over the last five years; from 68.5 cases per 100,000 population in 2014, to 88.6 cases per 100,000 population in 2018. Other jurisdictions in Maryland have shown similar increases as shown in **Figure 44.** Over half of the gonorrhea cases in 2017 were among the 15-24 age group. The rate of reported gonorrhea cases in Cecil County remains significantly lower than the average for Maryland.

Maryland Department of Health. Center for Sexually Transmitted Infection Prevention. Chlamydia Cases per 100,000 Population by age group, Cecil County, Maryland, 2017 [data file]. Accessed at: <a href="https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx">https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx</a>
Maryland Department of Health. Center for Sexually Transmitted Infection Prevention. Sexually Transmitted Infection: 2018 Annual Report.
Accessed at: <a href="https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx">https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx</a>

<sup>&</sup>lt;sup>103</sup> Maryland Department of Health. Center for Sexually Transmitted Infection Prevention. *Gonorrhea Cases per 100,000 Population, by age group, Cecil County, Maryland*, 2017. Accessed at: <a href="https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx">https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx</a>

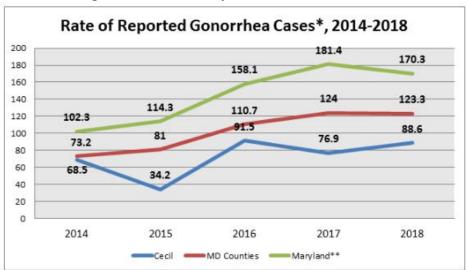


Figure 44. Rate of Reported Gonorrhea Cases

# **Syphilis**

In 2018, two cases of primary and secondary syphilis (1.9 cases per 100,000 population), four cases of early latent syphilis (3.9 cases per 100,000 population), and four cases of late or unknown duration syphilis (3.9 per 100,000 population) were reported in Cecil County. 104

## HIV/AIDS

HIV/AIDS can greatly impact population health if not treated and managed appropriately. In 2017, there were 5 new adult or adolescent (age 13+) HIV cases and 145 living HIV/AIDS cases in Cecil County. Certain populations are more likely to have HIV/AIDS in Cecil County. By sex, 62.1% of HIV/AIDS cases. By race/ethnicity, minority populations in Cecil County make up a disproportionate number of living AIDS cases as detailed in **Figure 45.** In addition, certain populations in Cecil County are more likely to have been exposed to HIV/AIDs. The most common exposure categories are men who have sex with men (MSM) (36.6%), heterosexual (32.3%), injection drug user (IDU) (23.2%) and MSM/IDU (4.5%).

<sup>\*</sup>Per 100,000 population \*\*Includes Baltimore City

Maryland Department of Health. Center for Sexually Transmitted Infection Prevention. Sexually Transmitted Infection: 2018 Annual Report. Accessed at: <a href="https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx">https://phpa.health.maryland.gov/OIDPCS/CSTIP/Pages/STI-Data-Statistics.aspx</a>

Maryland Department of Health. Center for HIV Surveillance, Epidemiology, and Evaluation. *Cecil County HIV Fact Sheet, 2017.* Accessed at: <a href="https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/statistics.aspx">https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/statistics.aspx</a>

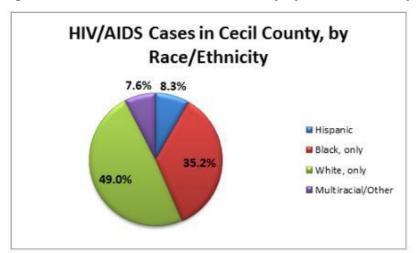


Figure 45. HIV/AIDS Cases in Cecil County by Race & Ethnicity

### **Other Communicable Disease**

Hepatitis C is a viral infection that causes liver inflammation, sometimes leading to serious liver damage. In 2016, the rate of reported chronic hepatitis C cases in Cecil County was 300.2 cases per 100,000 population. This was significantly higher than the average for Maryland of 133.2 cases per 100,000 population. <sup>106</sup>

## **Mortality**

Health status in a community is measured in terms of mortality or rate of death within a population.

## **Infant Mortality**

The following changes in data were observed in Cecil County between the reporting periods for the previous CHNA and this current assessment:

- Infant Mortality Rate 107 decrease
  - o Current: in 2017, there were 5.7 deaths per 1,000 births
  - o Previous: In 2013, there were 6.3 deaths per 1,000 live births

<sup>&</sup>lt;sup>106</sup> Maryland Department of Health. Infectious Disease Prevention and Health Services Bureau. *Viral Hepatitis: State Update: 2018 Annual STI Update.* Accessed at: <a href="https://phpa.health.maryland.gov/Pages/infectious-disease.aspx">https://phpa.health.maryland.gov/Pages/infectious-disease.aspx</a>

Maryland Vital Statistics Administration. Vital Statistics and Reports [webpage]. Accessed at: <a href="https://health.maryland.gov/vsa/Pages/reports.aspx">https://health.maryland.gov/vsa/Pages/reports.aspx</a>

### **Deaths**

The Maryland Vital Statistics Administration provides mortality reports.<sup>108</sup> The following changes in data were observed in Cecil County between the reporting periods for the previous CHNA and this current assessment:

## • Total deaths in Cecil County increase

Current: In 2017, there were 1,033 total deaths
 Previous: In 2014, there were 855 total deaths

### • Deaths by race increase

### o <u>Current</u>

Whites: 960

African Americans: 60Asian/Pacific Islanders: 5

Hispanics: 8

### o **Previous**

■ Whites: 801

African Americans: 47Asian/Pacific Islanders: 5

Hispanics: 7

### Causes of Death

**Table 14** shows causes of death for data reported during the previous CHNA (2014) and this current assessment (2017).

Table 14. Age-Adjusted Death Rate by Cause, Cecil County (per 100,000 population)

| Causes of Death       | 2014  | 2017  |
|-----------------------|-------|-------|
| All Causes            | 822.3 | 889.6 |
| Heart Disease         | 198.7 | 205.3 |
| Cancer                | 185.9 | 192.3 |
| Stroke                | 47    | 55.9  |
| Accidents             | 33.5  | 50.7  |
| Chronic Lower         | 64.5  | 64.1  |
| Respiratory Disease   | 04.5  | 04.1  |
| Diabetes Mellitus     | 15.8  | 23    |
| Alzheimer's           | 22.2  | 36    |
| Influenza & Pneumonia | 16.4  | *     |
| Septicemia            | 12.1  | *     |
| Nephritis             | 16.8  | *     |
| Suicide               | 13.4  | *     |

<sup>\*</sup>Age-adjusted death rates not calculated for fewer than 20 deaths reported

 $<sup>^{108}</sup>$  Maryland Vital Statistics Administration. Vital Statistics and Reports [webpage]. Accessed at:  $\frac{\text{https://health.maryland.gov/vsa/Pages/reports.aspx}}{\text{https://health.maryland.gov/vsa/Pages/reports.aspx}}$ 

## COMMUNITY HEALTH IMPROVEMENT PLAN

# **Prioritizing Health Needs**

The CHNA planning team worked with the Community Health Advisory Committee (CHAC) to prioritize the health needs identified from the CHNA. There were two steps to this process: 1) CHAC voting; and 2) CHNA planning team review of all data and prioritization of health needs based on all submitted data.

## **CHAC Meeting – January 2019**

The prioritization process started with the January 2019 CHAC meeting. Dan Coulter (Health Planning, Cecil County Health Department) and Jean-Marie Kelly (Community Benefit, Union Hospital) facilitated the meeting. Meeting participants were asked to review the CHNA data according to the top 15 health needs identified from the Online Community Health Survey (Table 15).

Table 15. Online Community Health Survey - Top 15 Health Needs

| Rank | Health Issue              | % Respondents |
|------|---------------------------|---------------|
| 1    | Substance Abuse           | 75.3%         |
| 2    | Mental Health             | 37.7%         |
| 3    | Homelessness              | 32.9%         |
| 4    | Access to Health Services | 18.9%         |
| 5    | Poverty                   | 15.7%         |
| 6    | Obesity                   | 14.2%         |
| 7    | Affordable Housing        | 13.9%         |
| 8    | Child Abuse and Neglect   | 13.5%         |
| 9    | Dental Health             | 10.9%         |
| 10   | Cancer                    | 10.7%         |
| 11   | Violent Crime             | 7.9%          |
| 12   | Unemployment              | 6.8%          |
| 13   | Childhood Trauma          | 5.9%          |
| 14   | Educational Attainment    | 5.6%          |
| 15   | Diabetes                  | 5.0%          |

Table 16. NAACHO Criteria for Priority Selection 109

| Criterion                      | Measurement   |
|--------------------------------|---|
| Size                           | How many people are affected by the health problem?   |
| Seriousness                    | Does the health problem lead to death, disability, and/or reduced quality of life?                |
| Trends                         | Has the health problem gotten better or worse over time?  |
| Equity                         | Are there specific groups that are more affected by the health problem?                           |
| Intervention                   | Are there existing strategies available to address the health problem?                            |
| Feasibility                    | Can we reasonably combat the health problem?  |
| Value                          | How does the community rate the importance of the health problem?                                 |
| Consequences of Inaction       | What is the risk to the population by not acting on the health problem?                           |
| Social Determinant/ Root Cause | Does the health problem impact other health issues? What is the root cause of the health problem? |

After all data was reviewed, meeting participants (including facilitators) were asked to vote (considering the NACCHO criteria in Table 16) on their top three health needs by placing a sticker next to each selected need on large, wall-hanging flip charts. This method of voting was modeled after NACCHO's "Dotmocracy Method." Participants were only allowed three votes and could not vote in duplicate. After all participants had voted, the marks were tallied and reported aloud for each of the 15 needs:

- Substance abuse 31 votes
- Mental health 24 votes
- Childhood trauma 14 votes
- Access to health services 11 votes
- Homelessness 10 votes
- Dental health 10 votes
- Cancer 8 votes
- Obesity **5 votes**
- Poverty 2 votes
- Affordable housing 2 votes
- Child abuse and neglect 1 vote
- Diabetes 1 vote
- Violent crime 0 votes

<sup>109</sup> National Association of County and City Health Officials. White paper: Community Health Assessments and Community Health Improvement Plans for Accreditation Preparation Demonstration Project, pg. 1, 2016. Accessed at: <a href="https://www.naccho.org">https://www.naccho.org</a>

<sup>110</sup> National Association of County and City Health Officials. White paper: Community Health Assessments and Community Health Improvement Plans for Accreditation Preparation Demonstration Project, pg. 4, 2016. Accessed at: https://www.naccho.org

- Unemployment 0 votes
- Educational attainment **0 votes**

After the voting was completed, meeting participants were informed that the final decision on the health priorities would be decided by the CHNA planning team and communicated to CHAC as soon as possible.

## **CHNA Planning Team Meeting – February 2019**

The prioritization process concluded during the CHNA planning team meeting where the CHAC voting data was considered. The three participants on the CHNA planning team were: Jean-Marie Kelly (Community Benefit, Union Hospital), Dan Coulter (Health Planning, Cecil County Health Department), and Laurie Humphries (acting Health Officer, Cecil County Health Department).

### **Hanlon Method Scoring Worksheet**

Dan Coulter led the meeting and provided a Hanlon Method scoring worksheet with the health needs that had 5-31 CHAC votes (Table 17). The Hanlon Method is an objective scoring tool that ranks health problems based on magnitude, effectiveness, and seriousness.

Size of Health Seriousness of the Effectiveness of **Priority Score** Health Problem Problem Interventions Substance Abuse Mental Health Homelessness Access to Health Services **Dental Health** Cancer Childhood Trauma Obesity

**Table 17. CHNA Hanlon Method Scoring Worksheet** 

### **Hanlon Method Guidelines**

The guidelines for the CHNA planning team's scoring exercise included:

- 1) Give each health problem a numerical rating on a scale of 0-10 for each of the three criteria (columns in Table 17).
- 2) **Apply the PEARL test** Once health problems have been rated for all criteria, use the PEARL test to screen out health problems based on the following feasibility factors:
  - a. **Propriety** Is a program for the health problem suitable?
  - b. Economics Does it make economic sense to address the problem?
  - c. Acceptability Will the community accept the problem?
  - d. Resources Is funding available or potentially available to address the problem?
  - e. Legality Do current laws allow program activities to be implemented?

3) **Calculate priority scores** – Based on the three criteria rankings assigned to each health problem in Step 1, calculate the priority scores using the following formula:

 $D = [A + (2 \times B)] \times C$ 

D = priority score

A = size of the health problem ranking

B = Seriousness of the health problem ranking

C = Effectiveness of intervention ranking

4) Rank the health problems – Based on the priority scores calculated in Step 3, assign ranks to the health problems with the highest priority score receiving a rank of 1 and so on. 111

### Results

**Table 18** shows the final results of the scoring exercise (scores were averaged from the three participants). The health needs prioritized were: substance abuse, mental health, cancer, and childhood trauma. Substance use and mental health were later combined under "Behavioral Health." It should be noted that the CHNA planning team chose not to emphasize the ranking of the priorities, but rather their importance.

**Table 18. Hanlon Scores** 

| Health Issue              | Hanlon Score |
|---------------------------|--------------|
| Substance Abuse           | 160          |
| Mental Health             | 158          |
| Homelessness              | 103          |
| Access to Health Services | 119          |
| Dental Health             | 144          |
| Cancer                    | 208          |
| Childhood Trauma          | 150          |
| Obesity                   | 118          |

<sup>111</sup> National Association of County and City Health Officials. *Hanlon Method*. Accessed at: <a href="https://www.naccho.org/chachipresources">https://www.naccho.org/chachipresources</a>

# **Strategic Planning**

The CHNA planning team met with several community groups specializing in the health priority areas identified through the needs assessment (see Table 2). These planning sessions were facilitated in order to "ask the experts" and identify ways in which CHAC members could support them with the goal being to enhance the work already being done in the community. Examples include: supporting current activities, promoting prevention and education, and providing in-kind support. The next section includes the work plans created as a result of the strategic planning sessions.

### **CHIP Work Plans**

The CHIP work plans were created with high level detail in order to be able to accommodate potential changes in community resource allocations and community partner groups' infrastructure and planning, as well as be able to add new objectives and strategies within each priority area to best manage challenges that may arise. In addition, community groups working within the priority areas will be encouraged to use a reporting tool developed during the previous CHNA cycle by one of the CHAC task forces. This tool is not mandatory to use but recommended in order to standardize reporting.

### Cancer

CHAC will support the work currently being done by the Cecil County Cancer Task Force in the community for lung cancer screening, to include education, awareness, and increasing health promotions related to getting screened. Union Hospital's Cancer Program and its Commission on Cancer Committee will offer support, as well as Cecil County Health Department's division of Health Promotion.

### **Key Indicators**

- Lung Cancer Incidence
- Lung Cancer Mortality Rate
- Prevalence of Smoking

#### Goal

• 1.1: Reduce cancer mortality in Cecil County

# **Cancer Work Plan**

| Objective  | Strategies  |
|--|---|
| <b>1.1:</b> By June 30, 2022, increase the number of individuals receiving low-dose lung cancer CT screenings by 5% in order to increase awareness for lung cancer | A. Raise awareness for lung cancer prevention in order to reduce stigma related to risk factors contributing to lung cancer   |
| prevention.  | <b>B.</b> Support and engage medical providers in promoting patient awareness of lung cancer  |
| Baseline: 556 people screened (CY16, CY17, and CY18)   | prevention efforts (primary prevention: education; secondary prevention: screening; and tertiary prevention: treatment)   |
| Measurement goal: 584 individuals screened (CY19, CY20, and CY21)  | <b>C</b> . Educate and support medical providers on how to talk to patients about quitting smoking  |
| Source: Union Hospital Cancer Program  | <b>D</b> . Support medical providers in making community presentations  |
|  | E. Promote referrals for smoking cessation among medical providers  |
|  | <b>F</b> . Promote the use of self-screening tools in the community for low-dose CT lung cancer screening   |
|  | <b>G.</b> Support and engage the community (incl. Community groups, faith-based organizations, and businesses) in promoting lung cancer prevention efforts (primary prevention: education; secondary prevention: screening; and tertiary prevention: treatment) |
|  | <b>H</b> . Provide advertising and media support for health promotions related to the availability of prevention services in the community  |
|  | I. Engage the community on lung cancer prevention efforts via social media and other educational and/or advocacy outlets  |

### **Behavioral Health**

CHAC will be working to enhance and support the efforts to address both Substance Abuse (SA) and Mental Health (MH) in Cecil County. CHAC has met with leadership from Cecil County Health Department's Core Service Agency (MH), as well as the Drug-Free Communities Coalition (SA), Cecil County Drug and Alcohol Abuse Council (SA), and the Opioid Misuse Prevention Program (SA). CHAC will also support the movement towards integrating behavioral health services at the local health department and community level.

### **Key Indicators**

- Prevalence of Youth Substance Use
- Drug-induced Death Rate
- Rate of ED Visits Related to Substance Use Disorders (SUD)
- Rate of ED Visits Related to MH Conditions
- Prevalence of Depression among Youth
- Suicide Death Rate

### <u>Goals</u>

- **1.1**: Prevent the initiation of substance use among youth and support youth in treatment and recovery
- 1.2: Increase Recovery Support Capacity in Cecil County
- **1.3:** Provide support for individuals with behavioral health conditions re-entering the community
- **1.4:** Integrate Behavioral Health Services in Cecil County to improve outcomes for individuals with co-occurring disorders

# **Behavioral Health Work Plan**

| Objectives  | Strategies   |
|---|--|
| <b>1.1.1:</b> By June 30, 2022, increase protective factors to reduce the                               | A. Expand youth prevention activities for grades 3-12  |
| prevalence of substance use among Cecil County public high school students by 5%.                       | <b>B</b> . Provide ongoing support for Youth Leadership Summit Activities                              |
| Dacalinaci  | C. Expand Drug Free Cecil Youth Coalition efforts  |
| Baselines:  • Alcohol use in past 30 days:  31.1%   | <b>D</b> . Hire a youth advisor to coordinate Drug Free Cecil youth efforts                            |
| <ul> <li>Marijuana use in past 30<br/>days: 20.9%</li> </ul>  | E. Increase protective factors and community resilience  |
| <ul><li>Prescription Drug Use<br/>(ever): 13.3%</li></ul>   | F. Expand support mechanisms for youth in recovery   |
| <u>Source</u> : 2016 Maryland Youth Risk<br>Behavior Survey   | <b>G</b> . Explore the development of a drop-in community recovery center                              |
|   | H. Explore the development of an adolescent clubhouse  |
|   | I. Identify and engage with youth who have SUDs  |
| <b>1.2.1:</b> By June 30, 2022, increase total peer recovery support                                    | A. Expand Peer Recovery Support capacity   |
| contacts by 5%.   | B. Increase community access to Narcan   |
| Baseline: 5090 contacts made in 2018  | C. Increase recovery support for individuals transitioning from prison or jail back into the community |
| Source: Cecil County Health Department Alcohol & Drug   | <b>D.</b> Research anti-stigma initiatives   |
| Recovery Center   | E. Implement an anti-stigma awareness campaign   |
| <b>1.2.2:</b> By June 30, 2022, increase the number of individuals trained in overdose response by 10%. |  |
| Baseline: 751individuals trained in FY 2018.  |  |

| Source: Cecil County Health Department Alcohol & Drug Recovery Center  1.2.3: By June 30, 2021, implement an anti-stigma educational awareness campaign in Cecil County.  Baseline: N/A   |  |
|---|--|
| 1.3.1: By June 30, 2020, develop a plan to support re-entry for individuals transitioning from jail with mental health disorders.  Baseline: N/A  1.3.2: By June 30, 2022 increase the percentage of individuals with substance use disorders reentering the community who enter treatment or after-care programs.  Baseline: N/A | <ul> <li>A. Form a workgroup to pursue re-entry planning</li> <li>B. Research evidence-based re-entry programs</li> <li>C. Seek funding to support re-entry initiatives</li> <li>D. Expand treatment and re-entry aftercare programs</li> <li>E. Partner with the CCHD Division of Addictions Services for individuals with co-occurring disorders</li> </ul>  |
| <ul> <li>1.4.1: By June 30, 2020, form a committee to pursue the expansion of behavioral health integration in Cecil County.</li> <li>Baseline: N/A</li> <li>1.4.2: By June 30, 2021, develop a joint Behavioral Health Plan for Cecil County.</li> <li>Baseline: N/A</li> </ul>  | <ul> <li>A. Form a behavioral health committee made up of stakeholders from the mental health and substance use disorder fields</li> <li>B. Hold joint Council meetings to align efforts</li> <li>C. Develop and submit a joint Behavioral Health Plan for Cecil County</li> <li>D. Engage and educate stakeholders and the community on co-occurring disorders and Behavioral Health Integration</li> </ul> |

### **Childhood Trauma**

CHAC will serve as support for the Local Management Board's Childhood Trauma Subcommittee as they work through addressing planned recommendations. CHIP planning meetings solidified CHAC responsibilities to support the increase of community and provider education and awareness of childhood trauma. In addition, the Cecil County Health Department will explore evidence-based home visiting programs to implement in Cecil County.

### **Key Indicators**

- Prevalence of ACES
- Child maltreatment incidence rate
- Domestic violence incidence rate

### <u>Goals</u>

- 1.1: Increase education opportunities for the community on childhood trauma
- **1.2:** Educate and empower health care providers to recognize and treat the effects of childhood trauma
- 1.3: Enhance parenting skills to promote healthy child development

### **Childhood Trauma Work Plan**

| Objectives  | Strategies  |
|---|---|
| <b>1.1.1:</b> By June 30, 2022, hold at least 6 events to educate the community about childhood | A. Hold screenings of the documentary "Resilience: The Biology of Stress & Science of Hope"                           |
| trauma.   | B. Hold community forums related to childhood trauma  |
| Baseline: N/A   | C. Hold trainings related to childhood trauma   |
|   | D. Change social norms to support parents and positive parenting  |
|   | E. Partner with youth serving organizations on child abuse prevention awareness and education                         |
|   | <b>F.</b> Participate in the National Child Abuse awareness "Pinwheels for Prevention" campaign                       |
|   | <b>G.</b> Train community leaders to act as advocates and spread information on childhood trauma in their communities |

| 1.2.1: By June 30, 2020, create and distribute a survey to assess current knowledge of childhood trauma and training needs of health care providers in Cecil County.  Baseline: N/A | <ul> <li>A. Research and develop survey tool</li> <li>B. Obtain list of physicians and distribute survey</li> <li>C. Analyze results to determine needs</li> </ul>                           |
|---|--|
| 1.2.2: By June 30, 2022, identify and hold at least 2 childhood trauma related trainings for medical professionals.  Baseline: N/A  | <ul> <li>A. Identify training resources for physicians and other health care providers</li> <li>B. Utilize evidence-based materials to educate physicians on trauma-informed care</li> </ul> |
| 1.3.1: By June 30 2021, research evidence-based home visiting programs and determine the feasibility of implementing a program in Cecil County.  Baseline: N/A                      | A. Support the creation of evidence-based home visiting programs, such as Healthy Families America program in Cecil County   |