



McCready Health
Edward W. McCready Memorial Hospital
201 Hall Highway, Crisfield, MD 21817

Community Benefits
Fiscal Year 2015

I. GENERAL HOSPITAL DEMOGRAPHICS AND CHARACTERISTICS

1. Table One

| Bed Designation: FY15 | Inpatient Admissions FY15 | Primary Service Area Zip Codes: | All other Maryland Hospitals Sharing Primary Service Area | Percentage of Uninsured Patients by County | Percentage of patients who are Medicaid Recipients by County |
|--------------------------|---|------------------------------------|---|---|--|
| 4 licensed Med/Surg beds | 301 admissions 871 total in patient days | 21817 21838 21871 | 1. Peninsula Regional Medical Center (<i>Wicomico Co.</i>) 2. Atlantic General Hospital (<i>Worcester Co.</i>) | 14% of Somerset County residents are uninsured. (2,489) <i>Source: '2013 County Health Rankings' conducted by the Univ. of Wisconsin.</i> | Approx. 41.7% Approx. 8,038 in County |

2a. Describe in detail the communities served

McCready Health, a division of the McCready Foundation includes the Edward W. McCready Memorial Hospital, located in Crisfield, Maryland, Somerset County. During fiscal year 2015, the facility was licensed for four medical/surgical acute beds and had 301 inpatient admissions. Of those 13.6% were Medicaid. Most of the patients that come to McCready live in lower Somerset County, but the hospital also serves part of Maryland's Worcester County and the Eastern Shore of Virginia. An estimated 25,859 people live within our service area of which 45.5% are minorities. Only 14.3% of the residents over age 25 have a college degree compared to 37.1% of the state. Somerset County is the poorest county in the state of Maryland with a median household income of \$36,106. Unemployment of those 16+ is at 9.9% compared to the state rate of 6.6%. Medicaid insures 31% of our population. (*Source: US Census Quick Facts and SHIP data*).

The 2014 Community Needs Assessment found that 59.6% of those surveyed reported their physical health was "not good". It also found that transportation and employment challenges were the biggest barriers to health care. When comparing the 2009 assessment, the general health rating for those reporting 'excellent' or 'very good' health was much lower (33.3% vs. 58.3%).

According to the Maryland Vital Statistics, the life expectancy at birth of a Somerset County resident is 77.2 years slightly less than the state expectancy of 79.6 years. Smoking rates have declined but uninsured Emergency Department visits, diabetes and unhealthy weight rates all surpass the State Health Improvement Plan goal and the Healthy People 2020 goal. (*Source: SHIP website at dhmh.maryland.gov/ship*)

Somerset County is designated by the U.S. Department of Health and Human Services, Health Resources and Services Administration, as a medically underserved area. The rate of Primary Care providers (per 100,000) is 38.0 compared to the state rate of 117.8. McCready is the closest hospital available to those living in the remote crabbing/fishing communities of Smith and Tangier Islands in the Chesapeake Bay and is accessible by boat and air.

2.b. Table II Somerset County Demographic Characteristics

| | Somerset County |
|--|---|
| Median Household Income within the CBSA <i>SHIP 2013 data</i> | \$36,106 |
| Percentage of households with incomes below the federal poverty guidelines within the CBSA <i>SHIP 2013 data (State is 10.1%)</i> | 21.2% |
| Percentage of uninsured people by County within the CBSA <i>American Community Survey/2009ACS data</i> | 14% <i>2,489 persons</i> |
| Percentage of Medicaid recipients by County within the CBSA. | 41.7% |
| Life Expectancy by County within the CBSA (including by race and ethnicity) <i>SHIP data</i> | 77.2 <i>Black 77.4</i> <i>White 76.3</i> |
| Mortality Rates by County within the CBSA (including by race and | All causes of death 965.2 White 966.4 Black |

| | |
|---|--|
| ethnicity) | |
| <p>Access to healthy food, transportation and education, housing quality and exposure to environmental factors that negatively affect health status by County within the CBSA.</p> <p><i>Ship data unless otherwise noted</i></p> | <p>Access to healthy food 27%</p> <p>In Crisfield (21817) there is 1 grocery store providing access to fresh foods.</p> <p>There are 2 national fast food chains in Crisfield. (Subway and McDonalds)</p> <p>College degree - 14.3% (State rate is 37.1%)</p> <p>Adult smokers = 13%</p> <p>Transportation remains an issue; limited public transportation is available via Shore Transit or a local taxi service.</p> <p>Unemployment of those 16+ is 9.9% vs. the state rate of 6.6%</p> <p>The rate of Primary Care providers (per 100,000) is 38.0 vs. the state rate of 117.8</p> |

| | |
|--|---|
| <p>Available detail on race, ethnicity, and language within CBSA.</p> <p><i>Ship data unless otherwise noted</i></p> | <p>7.5% of households do not speak English</p> <p>Spanish is spoken in 3.3% of households</p> <p>County has a large migrant population May – October. Rural migrant camp is approx. 20 mi. from hospital.</p> |
|--|---|

II. Community Health Needs Assessment

1. Has your hospital conducted a Community Health Needs Assessment that conforms to the IRS definition detailed on pages 4-5 within the past three fiscal years?

Yes Provide date here. 10/01/2014 *It is attached as a pdf document*

No

2. Has your hospital adopted an implementation strategy that conforms to the definition detailed on page 5?

Yes *It is attached as a pdf document*

No

III. Community Benefits Administration

- a. Is Community Benefits planning part of your hospital's strategic plan?

Yes

No

- b. What stakeholders in the hospital are involved in your hospital community benefit process/structure to implement and deliver community benefit activities? (Please place a check next to any individual/group involved in the structure of the CB process and describe the role each plays in the planning process (additional positions may be added as necessary))

i. Senior Leadership

1. CEO
2. CFO
3. Other (please specify) **Community Relations Director, Chief Nursing Officer**

The Community Relations Director collects all the data and completes the required narrative report based on the information received. The Chief Nursing Officer, along with clinical leadership, organize and are actively involved in the CB activities including the completion of CB reporting forms. The CEO and CFO review the report and communicate with the HSCRC on related issues.

ii. Clinical Leadership

1. Physician
2. Nurse
3. Social Worker
4. Other (please specify) **Director of Quality, Department Supervisors, Financial Office**

The Director of Quality and Department Supervisors, along with senior leadership (noted above), organize and are actively involved in the CB activities including the completion of CB reporting forms. The Finance Office provides needed numeric and financial data needed for this report.

iii. Community Benefit Operations

1. Individual (please specify FTE) - **Director of Community Relations, 1.0 FTE**
2. Committee (please list members)
3. Department (please list staff)

- 4. Task Force (please list members)
- 5. Other (please describe)

The Director of Community Relations collects all data, researches statistics, and completes all necessary CB reports.

c. Is there an internal audit (i.e., an internal review conducted at the hospital) of the Community Benefit report?)

Spreadsheet yes no **Report is reviewed by the CEO and CFO prior to submission**
Narrative yes no

d. Does the hospital's Board review and approve the FY Community Benefit report that is submitted to the HSCRC?

Spreadsheet yes no
Narrative yes no

They are aware of it and info, including copies of documents and reports is shared with them. Our board has given the authority to the executive staff for completion and submission of all reports.

IV. COMMUNITY BENEFIT EXTERNAL COLLABORATION

a. Does the hospital organization engage in external collaboration with the following partners:

- Other hospital organizations
- Local Health Department
- Local health improvement coalitions (LHICs)
- Schools
- Behavioral health organizations

Faith based community organizations

Social service organizations

b. The meaningful, core partners with whom the hospital organization collaborated to conduct the CHNA.

| Organization | Name of Key Collaborator | Title | Collaboration Description |
|------------------------------|---------------------------------|------------------------|--|
| Somerset County Health Dept. | Craig Stofko | Health Officer | Together with our CEO, determined strategies needed to provide the most accurate and thorough data for our county. |
| George Washington University | Cherise B. Harrington, PhD, MPH | Principle Investigator | Led a team of students and colleagues in a needs assessment unique to the county. Developed questions, conducted survey throughout the county, created document. |

c. Is there a member of the hospital organization that is co-chairing the Local Health Improvement Coalition (LHIC) in the jurisdictions where the hospital organization is targeting community benefit dollars?

yes no

d. Is there a member of the hospital organization that attends or is a member of the LHIC in the jurisdictions where the hospital organization is targeting community benefit dollars?

yes no

| Identified Health Need | Implementation Strategy |
|------------------------|--|
| Access to Care | <ol style="list-style-type: none"> 1. Added a full-time surgeon and anesthesiologist. Now able to provide services daily. 2. Added part-time Gynecologist to our outpatient center. 3. Continue to recruit new providers and research specialty service options. 4. Continue to offer our Care-a-van free transportation service for appointments. 5. Link uninsured patients to resources including MD Health Insurance Exchange. 6. Opening new Immediate Care Center in Nov. 2015 to serve the upper county and improve access to care. |
| Diabetes | <ol style="list-style-type: none"> 1. Continue partnership with the 3 area health departments to refer all diabetes patients to a case management program to reduce the reoccurring diabetes related ED visits 2. A member of the Tri-County Diabetes Alliance – a coalition of local health departments, hospitals and other health agencies to collectively address this issue. |
| Obesity | <ol style="list-style-type: none"> 1. Continue to offer the Mozelle Saltz Fitness Center to the public and staff. 2. Partnered with Healthy Somerset agencies at a Community Field day, April 2015. Over 1,000 people of all ages attended. It included a walk, free info and food. |
| Transportation | <ol style="list-style-type: none"> 1. Facility's van transports patients to and from their appointment. 2. Shore Transit has a bus stop at our campus. |

V. Hospital Community Benefit Program and Initiatives

| Identified Need | Hospital Initiative | # of People within the target population | # of People reached by the initiative | Primary objective of the Initiative | Single or Multi year time period | Key Partners | Impact/ Outcome | Evaluation of Outcomes | Continuation of Initiative | Expense |
|-----------------|------------------------------|--|---------------------------------------|-------------------------------------|----------------------------------|-----------------|---|---|----------------------------|--|
| Access to Care | Recruit new providers | 25,000 residents in county | 282 surgeries 73 appts | To increase # of providers | Single | Local providers | 1 surgeon, 1 anesthesiologist, 1 PT gynecologist added 2015. Significant time to | New staff hired to address limited providers access in area.. | yes | Advertising, meetings \$5,000 |

| | | | | | | | | | | |
|---|---|--|-------------|--|--------|---|--|--|------------------------|---|
| | | | for Gyn. | | | | advertise and recruit midlevels for new Immed care center | | | |
| Access to Care and Transportation | Patient transport | | | Eliminate barrier to services | Single | Community, media, other providers | 1821 people served 2212.4 staff hrs. | Increase in use of service | Yes | \$19,912 staff salary |
| Access to Care | Health Insurance resource | | | To increase # of people with insurance | Single | MD Lower Shore Health Exchange | Hth. Exchange staff were on-site to answer questions, assist with insurance sign-up. 384 hrs. servicing 130 people. hosted 1 community events reaching 30 persons | Increase in # of persons obtaining insurance. | Yes | \$300 for staff time, + In-kind room space |
| Diabetes | Awareness Education and coalition member- ship | | | To increase awareness of diabetes and links to care | Single | Providers, Area Health Depts., Tri- Co. Diabetes Alliance | Attended 2 mtgs. | Staff left agency during FY. | Yes with new staff. | \$200 salary |

| | | | | | | | | | | |
|------------------------------|----------------------------|--------|-------|---|--------|--|--|---|-----|--|
| Obesity | Community Field day | 25,000 | 1,000 | To focus on issue, provide resources for residents | Single | Healthy Somerset Coalition | Over 1000 attended 4 planning meetings by 1 staff. prep for event. 2 staff at event | | Yes | \$400 |
| Access to Care | Personal Care | | | Provide in-home care for CBSA residents who cannot leave home | Single | SCHD | Personal Care coordinator made 120 + home visits to 60 Clients | Program ended in the community. | Yes | \$6,720 salary |
| Access to Care/ Uninsured | Charity Care | | | Provide financial assistance | Single | LS Health exchange, Dept. of Social services | Approved 170 applications for financial assistance | Less applications due to increase in coverage by Health Exchange | Yes | N/a |
| Other (Training) | Interns / Mentor | 42 | 1220 | Provide learning opportunity for future health care workers | Single | UMES, Wor-Wic College | 42 interns, 1220 staff hrs. in the PT, Lab and Pharmacy | An increase from last year of #s of students and staff time. students are getting extensive hands on training | Yes | \$40,660 salary |
| Preventative care | Flu Shots | | 440 | Prevent spread of flu | Single | Media | 440 people vaccinated | 4x increase from last yr. multiple events | Yes | \$10,536 includes salary, vaccine, supplies |

| | | | | | | | | | | |
|--|---|--|-----|---|--------|--|---|--|-----|--|
| Access to Care, Awareness of Resources | Health Fairs | | 480 | To increase awareness and links to services | Single | MAC, Inc. LHD, community | 5 events 480 people reached | Additional community events noted in this table. | Yes | \$1,055 |
| Awareness of resources | Educational presentations | | | To increase awareness | Single | SU, Wor-Wic Woodson School, Life Crisis | 4 events 224 people educated | | yes | \$339 salary + \$100 supplies |
| Preventive Health care | Health screens | | | To educate public and link to treatment or services as needed | Single | UMES | 64 people screened for glucose and cholesterol | | Yes | \$264 Salary and \$624 materials |
| Coalition and Community Building | Improving community | | | To give agency expertise in planning strategies to improve health and economy | Single | SCHD, Tri-Co, Workforce, Chamber of Commerce, Hunger 413 | 10 mtgs. Totaling 63 hrs. | | Yes | \$4,461 in staff salary |
| Donations | Donations community (cash and in-kind) | | 751 | To serve our community and improve health care and access | Single | Crisfield High School, Washington Hi School, Amer. Cancer Soc. Som. Co. 4-H, AA Support group, Chamber of Commerce, Long Term Recovery | Cash to support events. Supplies given to UMES phlebotomy program. | Able to support more partners in the community | Yes | \$2,655 in contributions Value of services \$7,500 Supplies \$2,215 |

| | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Committee, Safe Hwy. Coalition, MAC Caregivers, Wor-Wic College | Use of space 67 times. 24 hrs. Volunteer time for events. | | | |
|--|--|--|--|--|--|--|--|--|--|--|

V. Physicians

McCready Health is a primary care facility that offers primary care through the McCready Health Outpatient Center. We have two board certified physicians, a surgeon, an anesthesiologist on staff full-time. We also have a gynecologist on staff one day per week. We have contracts with several specialty providers including cardiology, podiatry, and gastroenterology. The Emergency Department is staffed by the Eastern Shore Associates group providing doctors 24 a day. The McCready Immediate Care is staffed with Physician's Assistants and supervised by our physicians.

McCready Health does not provide subsidies to our Physicians. .

VII. Appendices

1. Financial Assistance Policy (FAP):

McCready Memorial Hospital posts its financial assistance/charity care policy along with necessary contact information in all patient care/registration areas. Upon admission, each patient also receives the same information about the program. Patients whom are uninsured or underinsured receive assistance with determining eligibility for governmental programs or the hospital's financial assistance program through one-on-one financial counseling, including assistance in filling out all necessary paperwork. In addition, self-pay patients whose balances remain unpaid after three consecutive billing cycles receive a financial assistance application with instructions and contact information in their final statement before being sent to collections. Every effort is made to try to identify and assist patients in receiving the financial assistance they need.

Additionally, we partner with the Lower Shore Health Insurance Exchange. We provide them a private space year round, for on-site consultation to help county residents navigate through the system with advice on the best plan, completion of the enrollment forms and further guidance once the process is completed.

Our Financial Assistance Policies are attached.

2. Mission, Vision, Value Statement

Our Mission: We provide high quality, compassionate healthcare through an efficient and diversified service network, maintaining and improving the health of the people and communities we serve over their lifetime.

Our Vision: A healthy community with access to the expertise, tools and information needed to maintain wellness.

Our Values:

1. Service - Driven to provide the highest levels of service to our customers and communities
2. Quality- Providing superior care across all platforms is our reason for being
3. Dedication - Committed to compassionate healthcare throughout all of our entities
4. Caring - Promise that our hearts and minds are connected to all we do

McCready Health embodies the description “community” hospital in every sense of the word. We are located in the heart of a rural, somewhat isolated area where high-paying jobs are scarce and per-capita income is low. Our healthcare team provides compassionate quality care to those in need of hospital and health services, regardless of a person’s ability to pay. Many employees live in the county and personally know the patients; often its neighbors caring for neighbors. That quality and tradition has endured for over ninety years.

Somerset County, Maryland

2014 Health Needs Assessment

This document was prepared for the Somerset County Health Department and McCready Foundation by Cherise B. Harrington, PhD, MPH and project team at The George Washington University Milken Institute School of Public Health, Department of Prevention and Community Health.

Table of Contents

| | |
|---|----|
| EXECUTIVE SUMMARY | 4 |
| ACKNOWLEDGEMENTS..... | 6 |
| LIST OF TABLES | 7 |
| LIST OF FIGURES | 8 |
| INTRODUCTION..... | 9 |
| BACKGROUND..... | 10 |
| Community Definition and Characterization of Somerset County, Maryland..... | 10 |
| Health Needs Assessments | 11 |
| Design Rationalization: Using in-person community-based sampling | 12 |
| Rationale | 12 |
| METHODOLOGY | 14 |
| Overview..... | 14 |
| Primary Population (Part 1) – Self-Reported Questionnaire | 14 |
| Procedures..... | 15 |
| Secondary Population (Part 2) – Interviewer Structured Questionnaire..... | 16 |
| Advantages and Disadvantages of Interviewer Structured Questionnaire | 16 |
| Measurement..... | 16 |
| Demographics | 17 |
| Social and Environmental Factors..... | 17 |
| Health Behavior..... | 17 |
| Health Status | 18 |
| Health Priorities | 18 |
| Perceived Barriers to Care for Self, Family, and Community..... | 18 |
| Data Analysis | 18 |
| NEEDS ASSESSMENT: SUMMARY OF SURVEY RESULTS | 19 |

RESULTS.....20

 Recruitment.....20

 Demographics.....20

 Gender and Sexual Orientation20

 Age.....20

 Race and Ethnicity.....21

 Education, Employment, and Income.....21

 Marital status.....22

 Household Members22

 Ratings of General Health.....23

 General Health (see complete data in appendices Table 11)23

 Health and Risk Behaviors24

 Health Behaviors (see complete data in appendices, Table 12)24

 Individual Personal Life and Health Priorities26

 Characteristics of Family Life (see complete data in appendices)26

 Self-report of personal health problems and priorities (see complete data in appendices)26

 Physical and Mental Health27

 Health Concerns and Priorities (see complete data in appendices).....28

 Barriers to Care (see complete data in appendices)29

 Health Information Seeking and Program Interest.....30

 Health Information Seeking Sources (see complete data in appendices).....30

 Program/Service Interest (see complete data in appendices)30

 Perceptions of the Overall Counties’ Health Problems, Priorities,32

 & Barriers to Health Care.....32

 Somerset County Health Problems, Priorities, and Barriers (see complete data in appendices)32

Somerset County 2014 Needs Assessment

| | |
|---|----|
| Race and Health Care, Incarceration and Reentry, and Community Engagement | 34 |
| Race and Healthcare (see complete data in appendices) | 34 |
| Incarceration and Reentry (see complete data in appendices) | 34 |
| Community Engagement (see complete data in appendices)..... | 34 |
| Results: Secondary Analyses | 35 |
| NEEDS ASSESSMENT: SUMMARY OF COMMUNITY STRUCTURED INTERVIEWS | 36 |
| Community Structured Interviews..... | 37 |
| Stakeholders Assessment..... | 37 |
| Organization’s Health Participation | 37 |
| Somerset County Health..... | 37 |
| COMPARISON WITH CENSUS DATA – | 39 |
| COUNTY AND STATEWIDE..... | 39 |
| Comparison with County and Statewide Census Data | 40 |
| COMPARISON WITH PREVIOUS NEEDS ASSESSMENT | 41 |
| Comparison with Previous Needs Assessment | 42 |
| DISCUSSION | 47 |
| Next Steps | 47 |
| Recommendations for Future Needs Assessments..... | 47 |
| Limitations..... | 49 |
| Advantages and Disadvantages of Self–Reported Questionnaire | 49 |
| Recruitment..... | 49 |
| Conclusion..... | 49 |
| REFERENCES | 50 |
| APPENDIX. 1 Complete Findings | 52 |
| APPENDIX 2. Bivariate Analyses | 86 |

EXECUTIVE SUMMARY

Background: The Somerset County Health Department and McCreedy Foundation partnered with The George Washington University Milken Institute School of Public Health to sponsor a Health Needs Assessment in Somerset County, Maryland. The goal of this needs assessment was to survey a representative sample of county residents to identify the health priorities of residents and the barriers they encounter in accessing health care in the county.

Objectives: The overall objective of the needs assessment is to improve the health outcomes of Somerset County residents.

Methods: A mixed method approach was used to assess the needs, identify resources, and identify opportunities for intervention. The Somerset County Health Department with the support of the McCreedy Foundation Inc. and The George Washington University, Milken Institute School of Public Health Project Team identified the primary population in which to conduct the needs assessment (Part 1: quantitative) and a secondary population in which to conduct structured interviews (Part 2: qualitative). Eligibility criteria for both Parts 1 and 2 included being English-speaking, a county resident of at least two years, and over the age of 18. A sample size of 200 was chosen to represent the greater population. The needs assessment instrument was a 94-question questionnaire that took 15-25 minutes to complete. This questionnaire assessed demographics, social and environmental factors, health behavior, health status, health priorities, and perceived barriers to care. The instrument also asked about perceptions of community level health priorities and barriers. Participants were compensated with a \$10 Food Lion gift card upon completion of the survey. The secondary population (Part 2) was residents who were involved in the community either through employment, residence, or an organizational affiliation. A secondary sample size of 10 was chosen to complete the structured interviews.

Results: N=153 Somerset County residents participated in the needs assessment. Eight cities in the county were represented, however the majority of participants resided in Crisfield (42%) and Princess Anne (30.5%). The average age was 46.1 with a range of responses from 18-85. The sample was 61% White and 31.4% Black or African American. In general the sample was mostly female (62.8%), married (36.7%), high school graduates (40.7%), and employed (37.9%). With regard to income, we see a bimodal pattern with 22.1% reporting incomes less than \$5,000 and 20% reporting between \$25,000-\$49,999 per year. Thirty-three (33.3%) of the sample reported “excellent” or “very good” health. However, 59.6% of the population reported their physical health was “not good”. Most were overweight or obese (57.5%). Weight (47.7%), physical activity (45.7%), and eating properly (41.9%) were the highest rated health priorities. The participants were also asked to rate which programs they would be most interested in if available. Dental services (38.6%), exercise programs (38.6%), weight loss programs (35.9%), healthy eating cooking classes (24.8%) and financial planning (24.8%) were rated the highest.

Secondary data analyses were conducted to investigate the role of income and race on general health. Participants reporting an income in the lowest tier (<5,000-9,999) were more likely to report fair or poor health compared to higher income groups ($X^2 = 33.143$ $p < .01$). Racial groups did not differ significantly on reports of general health status ($X^2 = 14.86$ $p > .05$). And Whites were more likely to earn incomes over \$50,000 ($X^2 = 13.52$ $p < .05$) compared to other racial groups.

The report also includes comparisons with 1) current census data and 2) the previous needs assessment. This report compares the current needs assessment demographic data with

census data to assess our sampling and recruitment strategies. In general the sample was similar to the most recent census data with several notable deviations. Compared to the most recent census data our sample were more educated (85.7% vs. 79.6%) with a high school diploma or higher and with a bachelor's degree or higher (20.6% vs. 14.2%). A lower number of Black/African American residents (31.4% vs. 42.8%) and a higher number of White residents (61.2% vs. 53.8%) compared to the most recent census data. With regard to the income data we collected this information differently; using categorized ranges as opposed to having participants specify a dollar amount. These data were bimodal where we observed the highest income categories as < \$5,000 or between \$25,000-\$49,999, 22.1% and 20% respectively, whereas the latest census reported a median income of approximately \$38,000. From these comparisons we can make assumptions about the adequacy of the recruitment strategy and approach while also identifying areas to focus on in the future.

This report also includes a comparison to the previous (2009) county needs assessment in order to assess changes, gaps, and compare sample characteristics. There were some notable differences. Transportation and employment challenges emerged as the biggest barriers to health care, versus insurance and affordable health care in previous years. Additionally, childcare emerged as a significant barrier. The general health ratings were considerably lower than the 2009 Tri-County rating for those reporting "excellent" or "very good" health (33.3% vs. 58.3%). One of the most striking differences is the number of days per month participants reported experiencing poor health. The number of days increased from 4.8 to 12.05 per month. Similarly, the amount of time in good mental health decreased markedly from 83.4% to 21.6%. Anxiety about house related finances also increased to 35.9% from 26.2%. The percentage of the sample that reported being current smokers increased dramatically from 21.9% to 32.0%. A much lower percent of the population reported alcoholism/binge drinking, which decreased to 7.8% from 20.9%. It also is notable that fewer people reported having a regular primary care physician or site for medical care (93.7% vs. 71.1%). Furthermore, lack of insurance increased from 9.5% to 13.1% since the 2009 report.

Conclusions: Overall the recruitment approach was successful in obtaining a representative sample. Future efforts should consider ways to increase yield among Black/African American residents and Hispanics. The data also highlighted gaps in care and identified areas to potentially leverage into additional programs, services, and interventions.

Recommendations: It would be the recommendation of the project team that additional secondary analyses be conducted on the data to explore patterns not immediately evident in the descriptive analyses. Additionally, future efforts should seek to incorporate more of the community in the planning and execution of the needs assessment. These efforts could include convening an advisory board that includes community members and also hiring community members to assist in data collection. In order to further explore some of the priority concerns and problems of county residents and solutions, focus groups made up of county residents could be instrumental in generating ideas, and identifying resources and potential barriers prior to implementation of proposed programs or services.

ACKNOWLEDGEMENTS

This needs assessment included the development of the approach and methodology, data collection, data analysis, and data interpretation and presentation.

Principle Investigator Dr. Harrington would like thank the project team: Shelkecia Lessington, Jordanna Snyder, Sevetra Peoples, Hira Chowdhary, Nicole D. Hubb, Jalisa Holt, Shakita Jenkins, and Tinika McIntosh, all graduate students in The George Washington University Milken Institute School of Public Health, Masters of Public Health Program in Washington, D.C.

Also a special thanks to Dr. Rajiv N. Rimal for his guidance and input.

In addition, an acknowledgement to Mr. Donald Strong for providing the necessary introductions that made this important endeavor possible.

Funding for this project came from the Somerset County Health Department and McCready Foundation who trusted our vision to provide a community-based recruitment strategy to enrich the data in this important County needs assessment.

We finally acknowledge the Somerset County residents, businesses, and churches that participated and allowed us entry into their community. Their kindness and insight were instrumental to the success of this project.

LIST OF TABLES

| | |
|--|----|
| Table 1. Self-reported Health Priority | 27 |
| Table 2. Physical & Mental Health Previous 30 days | 27 |
| Table 3. Percentage of the Sample with a Chronic disease or condition | 28 |
| Table 4. Health Information Seeking Sources..... | 30 |
| Table 5. Services that respondent would be interested in if available..... | 30 |
| Table 6. Perceptions of Overall County Health Priorities | 32 |
| Table 7. Comparison with census data – County and Statewide | 40 |
| Table 8. Comparison with previous needs assessment | 42 |
| Table 9. Recruitment Location..... | 52 |
| Table 10. Demographics | 53 |
| Table 11. General Health..... | 56 |
| Table 12. Health Behaviors..... | 58 |
| Table 13. Barriers to Healthcare | 60 |
| Table 14. Worries and Healthcare..... | 61 |
| Table 15. Health Information Seeking Sources..... | 64 |
| Table 16. Chronic disease or condition | 65 |
| Table 17. Chronic Diseases or Conditions and other Health Concerns | 66 |
| Table 18. Self-report of personal health problems and priorities..... | 67 |
| Table 19. Physical and mental health during past 30 days..... | 73 |
| Table 20. Services that respondent would be interested in if available..... | 76 |
| Table 21. Perceptions of county health problems and priorities..... | 77 |
| Table 22. Awareness of Somerset County community engagement..... | 83 |
| Table 23. Race and Health Care..... | 84 |
| Table 24. Incarceration and Reentry | 85 |
| Table 25. Bivariate Analyses: BMI status on perceptions of healthy weight..... | 86 |
| Table 26. Bivariate Analyses: General Health Status by Income | 86 |
| Table 27. Bivariate Analyses: General Health Status by Race | 86 |
| Table 28. Bivariate Analyses: Income by Race | 86 |

LIST OF FIGURES

| | |
|--|----|
| Figure 1. Age by Category | 20 |
| Figure 2. Income by Category..... | 21 |
| Figure 3: Self-reported General Health Status..... | 23 |
| Figure 4. Body Mass Index..... | 24 |
| Figure 5. Barriers to Health Care..... | 29 |

INTRODUCTION

Somerset County is one of 23 counties in the state of Maryland.¹ It is located on the eastern shore between the Chesapeake Bay and the Atlantic Ocean², and has an estimated population of over 26 thousand³; 52% Non-Hispanic White; 42% Non-Hispanic African American; 3% Hispanic; and 1% Asian.⁴

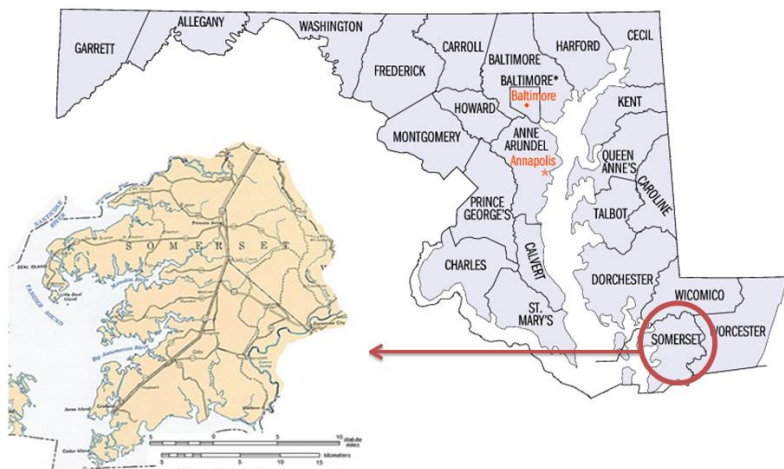


Figure 1. Map of the State of Maryland and of Somerset County

Somerset County Commissioners. (2014). *Maps*. Retrieved from Somerset County, Maryland:

<http://www.somersetmd.us/maps.html>

United States Census Bureau. (2013). *Maryland County Selection Map*. Retrieved from State & County QuickFacts:

http://quickfacts.census.gov/qfd/maps/maryland_map.html

Somerset County is favorably known for its “lush woodlands, smogless skies, and seafood bounty.”² It is considered “a paradise for hunters, fishermen, photographers, kayakers, and nature lovers.”²

Though beautiful in scenery, the citizens of its community have experienced health issues that have drawn the attention of its health department and other stakeholders. In recent years Somerset County has seen high rates of sexually transmitted disease (725 per 100,000 population compared to 467 in Maryland), children in poverty (35% under age 18 compared to 14% in Maryland), and obesity (38% with BMI > 30 compared to 28% in Maryland).⁵ In response to these unfavorable health trends, the Somerset County Health Department sought to identify the limitations, barriers, and gaps in the community by partnering with The George Washington University, Milken Institute School of Public Health to sponsor a Health Needs Assessment with the overall objective to improve the health outcomes of the Somerset County community.

BACKGROUND

Community Definition and Characterization of Somerset County, Maryland

Somerset County is located in Maryland directly above the Chesapeake Bay. It is one of 24 Maryland counties/jurisdictions. The county has a rural designation, as defined by the United States Department of Agriculture, hosting a population of less than 50,000 residents.⁶ The county includes twelve cities: Chance, Prince Anne, Crisfield, Dames Quarter, Deal Island, Eden, Fairmount, Frenchtown, Mount Vernon, Rumbley, Smith Island, and West Pocomoke.⁷ Somerset County contains one hospital and four health clinics that address various health concerns including sexually transmitted diseases, title ix family planning, HIV/AIDS, flu and dentistry/oral needs.⁸ Two of the four health centers are federally qualified health centers or operate similarly.⁸

Racially, the county is majority white (53.5%) but includes 42.3% black, and Asian and Native American races total less than 1% each.⁹ The median age of the county is 36.5 years old.⁹ The population aged 19 or younger is 23.6%, 62.5% are between the ages of 20 and 64 years old and 13.8% is aged 65 and older.⁹ In Somerset County the median household income is \$41,558.00 with 20.4% of the population living in poverty.^{10,11} The population living in single parent homes is at 20.2%, with half, 10.2%, living in single parent homes that have children under the age of 18.⁹ A great deal of the population, 22,611 individuals to be exact, is aged 16 and over and eligible to work however, 56 percent of those individuals are currently unemployed.¹⁰ According to 2012 data reported in the Maryland Chartbook of Minority Health and Health Disparities, Somerset County has a major imbalance of type 2 diabetes (46 to 19) when comparing white and black residents, respectively.¹²

When compared to counties touching its borders, Somerset County ranks 20th in terms of health outcomes and 23rd in reference to health factors; significantly worse in comparison to neighboring counties in both regards.¹³ The county shares borders with Wicomico County, ranked number 18 in overall health outcomes, and Worcester County, ranked number 11. Worcester County has a single parent household percentage of 14.7 with 7.4% of those households containing children under the age of 18⁹. Wicomico County has a similar structure to Somerset with 20.1% of households being single parent and 11.4% of those containing children under the age of 18 years old.¹⁴ Despite population similarities, the contributing factor to the low ranking and severity of the health outcomes present in Somerset County is that it is

home to 26,470 people compared to Worcester and Wicomico counties with 51,454 and 98,730 residents, respectively.¹¹

According to the 2009 Tri-County Community Health Assessment Report, of the three counties, Somerset residents consistently self-reported lower? in a number of health categories including identifying as having fair/poor health, experiencing three or more days of consecutive bad physical health, experiencing worry in relation to housing payments, and having no insurance coverage.¹⁵ In addition, April of 2011, the Maryland Department of Health and Mental Hygiene's Office of Minority Health and Health Disparities identified ten of fifteen elevated indicators for health disparities including but not limited to percent of families in poverty, substance abuse treatment rate, teen birth rate, and Medicaid enrollment rate.¹⁶ Fourteen percent of the population in Somerset County is uninsured compared to 12% in the entire state of Maryland.¹³ The county holds an unemployment rate of 10.3% (compared to the state's 6.8%) and 35% of the children in the county are living in poverty (as opposed to the lower state value of 14%).¹³

Health Needs Assessments

Needs assessments are used to identify barriers and limitations in a selected population.¹⁷ Sponsored by an individual or organization, such as a hospital or health department,¹⁸ they can be used to (1) identify gaps between current health status and those desired, and to (2) categorize such gaps via level of importance and source of influence (environmental, behavior, genetic, or healthcare).¹⁸ Once categorized, the timeframe of the desired outcome is established i.e. short-term, intermediate-term, or long-term, based on the resources and objectives outlined by the sponsor.¹⁸

Health needs assessments have many benefits, including the development of a roadmap of how to reach a specific health or/and behavior objective and defining indicators that will capture the completion of such objectives.¹⁸ Other benefits include a snapshot of the health needs of an entire community, generating stakeholder understanding and support of needed programs and increased visibility of the sponsor in the community.¹⁹

Limitations of a needs assessment are introduced once the method of research is chosen; i.e. quantitative versus qualitative. Quantitative research methods of assessment are objective, generalizable and are used to test concepts, constructs, and hypothesis of a theory²⁰; examples include surveys, structured interviews, and observations.^{20,21} Qualitative research

methods are subjective, less generalizable, and are used to formulate a prediction;²⁰ examples include focus groups, in-depth interviews and brainstorming.^{20, 21}

Design Rationalization: Using in-person community-based sampling

In community-based approaches, it is beneficial to use designs that are sensitive to sociocultural backgrounds of the community. Community-based recruiting is most successful when there is a partnership between the researchers and local, community-based organizations. When organizational partners introduce the research and its potential benefits to people in their own organization, such as churches or hospitals, recruitment is much more successful than researchers trying to build trust and create interest among community members without the buy-in from and engagement with local organizations.²³ In-person recruitment allows for creating and building trusting relationships with community partners and engagers. We found this to be true when we established a relationship with the Food pantry where we had the staff at the Food pantry help us to explain the research and benefits to the participants. This strategy allowed us to achieve a much higher participation rate than trying to recruit remotely because the participating community members knew the staff and trusted the community-based organization we were engaging with. Overall research supports telephone recruitment and in person meetings with potential participants helps to increase rates of recruitment.²⁴

Additionally, in-person community based participatory methods have the potential to establish meaningful relationships and give voice to those already working in local communities towards achieving positive health outcomes. Engaging community members who are already working in local communities not only builds trust but empowers members of the community to serve as active leaders with a voice.²² Anecdotally, this was demonstrated in the field during a recruitment event where a local mother asked to help with the research and assisted the research team in making connections to other organizations that she felt we should partner with. Her experience and knowledge of the community was beneficial to our sampling methods. We only had the ability to meet this community member through in-person recruitment in the community. Both sampling approaches were used in this assessment.

Rationale

In summary, rural, low income populations, and minorities are burdened by significant health disparities characterized by increased health risks, less engagement in preventive behaviors, increased incidence (for most diseases), and increased mortality rates. The high individual and public health burden of disease and health disparities make prevention efforts of

critical importance. The best approach to plan and implement primary and/or secondary prevention programs is through a thorough understanding of the needs in a community. As previously stated, the purpose of a needs assessment is to engage key stakeholders in a process of gathering and synthesizing data that includes demographics of a populations, resources, needs, barriers, health risk factors, and disease incidence and prevalence. The current report summarizes the process, methodology, and data from a needs assessment conducted in Somerset County, Maryland during Fall/Winter 2014.

METHODOLOGY

Overview

The Somerset County Health Department with the support of the McCready Foundation Inc. and The George Washington University, Milken Institute School of Public Health identified both primary and secondary populations in order to conduct the needs assessment using the quantitative research method. The primary population was persons who were English-speaking, have resided in Somerset County from no later than 2011 to present time (at least two years) and who had reached their 18th birthday at the time of assessment. A primary sample of 200 was chosen to represent the greater population using a self-report questionnaire (survey). As an incentive for participation in the needs assessment, participants were offered \$10 gift cards to Food Lion upon their completion of the survey. The secondary population was residents who were English-speaking, had resided in Somerset County for at least two years, had reached their 18th birthday at the time of assessment, and were involved in the community either through employment, residence, or organizational affiliation. A secondary sample of 20 was chosen to represent the greater population using the mode of interviewer structured questionnaire (survey).

As with any questionnaire or survey involving human research subjects, there are risks and benefits associated. The major benefits of questionnaires are that they can collect information from large groups,²⁵ they can be easily administered, their results can be quickly analyzed through the use of statistical software, and they are inexpensive to administer.²⁶ The risks associated with questionnaires are that they can be timely in their completion, there are limitations in measuring the truthfulness of respondents' answers,²⁶ and they may miss an unlisted barrier in the community as they do not readily allow for open ended responses.²⁷ The limitations of the questionnaires were considered before, during, and after the administration of the survey and were also accounted for during analysis of the survey results.

Primary Population (Part 1) – Self-Reported Questionnaire

The primary sample population of N = 153 was randomly recruited from various sites to complete the survey. Recruitment efforts took place in the following Somerset County locations which met the specified criteria; Princess Anne Bus Depot, the Crisfield Food Lion, the Princess Anne Food Lion, The Somerset Shopper's Fair, Ashbury United Methodist Church, Gordon's Restaurant, The Beauty Suite Beauty Salon, Duck In Emporium Beauty Salon, Waterman's Inn, and a food pantry at Crossroad's International Church (See Table 1).

Procedures

The owners/managers of each location were contacted in advance by a George Washington University (GWU), Milken Institute School of Public Health project team member (GWU graduate student) for their permission to conduct the health needs assessment in the establishment as well as schedule a date most convenient for both stakeholders. The ideal timeframe was that of most traffic or demand from customers. Each location was also asked to advertise the needs assessment to their customers in advance.

The project team wore bright orange sweaters to attract the attention of the community. A sign that read “Are You 18 or Older and a Somerset County Resident, Get a \$10 Gift Card, Ask Me How” was displayed to attract people to fill out the surveys and receive the 10\$ incentive for doing so.

Each participant was solicited by the team to participate in the survey via an introductory greeting. Candidates were (1) informed about the needs assessment’s purpose, sponsors, risks and benefits, (2) asked about their residency and age, (3) and if English speaking, 18 years of age, and resident of Somerset County for at least two years. If found to have met the outlined criteria they were asked to participate in the survey and informed of the \$10 Food Lion gift card incentive that they would receive upon their completion. If a candidate verbally agreed to participate, they were provided an institutional review board (IRB) Informed Consent to review and sign before the start of their self-administered survey; the IRB Informed Consent is a summary of the needs assessment including its’ purpose, procedure, risks and confidentiality, benefits, costs (\$10 food lion incentive), IRB assigned number, and information on how to reach the principal investigator for questions, concerns, complaints, or other inquires. Participants were also given a copy of the IRB Informed Consent for them to refer to at their leisure.

Prior to the start of the self-administered survey, participants were provided a pen and clipboard, and were encouraged to ask project team members questions throughout the survey, should they need clarification about a survey item.

If a candidate chose not to participate in the survey, either before or after their review of the IRB Informed Consent, they were given the location and timeframe for future needs assessments, should they change their decision.

If a candidate was found ineligible to participate in the needs assessment they were then given the option of sharing their contact information so that they could be notified of future studies that they could participate in if they qualified at that time.

Completed surveys, and signed IRB Consent Forms were kept separately in labeled envelopes, which were securely kept to protect the identity of the participants.

Upon completion of the survey, the participants' names were written on a log sheet to keep track of the participants' receipt of the \$10 Food Lion Gift Card incentive.

Secondary Population (Part 2) – Interviewer Structured Questionnaire

Recruitment of the secondary sample population of 6 (goal of 20) was randomly administered to persons who were at least 18 years of age and were involved in the community either through employment, residence, or organizational affiliation. Each participant was contacted via phone by a project team member and requested to participate in the survey. After participants were found to have met the outlined criteria, they were requested to give their consent to participate. The Informed Consent was given verbally by the participant before the start of the structured phone interview.

Advantages and Disadvantages of Interviewer Structured Questionnaire

Advantages of interviewer structured questionnaire include increased response rate to questions, clarity in questions asked so that the intended response is received, standardization due to the fact that all participants were asked the questions in the same manner therefore increasing standardization.²⁸

Limitations of interviewer structured questionnaires include interviewer bias, reduced honesty from participants potentially due to the fact that information will be shared verbally with another person rather than anonymously in a self-administered survey, and duration. Because these were loosely structured interviews, participants may deviate from the survey to hold a conversation with the interviewer.

Measurement

The self-administered survey was comprised of 94 questions, and included the following sections; Demographics, Environmental Influencers, Health Behavior, Health Status, Health Priorities, and Perceived Barriers to Care. A majority of the survey used questions from the Behavior and Risk Factor Surveillance System (BRFSS) where applicable. Overall, each section attempted to create a personal profile of each participant. The personal profile assisted with qualitatively assessing their needs, the needs of their family, and their perceived outlook on the needs of the Somerset Community as a whole. Collecting information on the participants needs sought to uncover barriers and limitations, as well as strengths and opportunities within existing

healthcare initiatives. Collecting information on the needs of the participant's family's assisted with retrieving data on people that we have not directly reached through survey solicitation. In addition, understanding the needs of the participants' family's also provided insight to any burdens that the participant may be facing as a caregiver. How an individual views their community is equally important as it supports validity that what each participant has reported on themselves and their family, is not only true at the individual level, but perhaps on the community level as well.

Demographics

The Demographic section of the survey included questions that were specific to the individual survey participant and included variables such as age, gender, ethnicity, marital status, sexual orientation, education level, employment level, employment status and type, income source and amount, health insurance status and type, home ownership, number in household younger than and older than age 18 weight and height, city name where they currently reside, and geographical prevalence (months and years in Somerset County). The variables used in this section were a mixture of multiple choice and written responses (age, geographical prevalence, city name, health insurance type, and age). This section facilitated the identification of those in the community that are in most need of assistance and those in the community that are thriving.

Social and Environmental Factors

A person's experience in specific situations or events can influence their health behavior. The specific variables used to identify environmental influencers include experience based on race and/or ethnicity, experience or knowledge concerning health-focused organizations, and experience or needs regarding previous arrest records or incarceration. This section used a combination of multiple choice and open ended. Other examples of environmental influence include support such as from family and friends (social), health care provider and health department (professional), and marketing initiatives such as magazines, television, the internet, or videos (media). These variables are also a major contributor to health behavior.

Health Behavior

A person's health behaviors can contribute to their overall health status or other defined conditions or diseases. Examples of health behavior include but are not limited to smoking habits, receipt of vaccinations or standard health tests and exams, frequency of exercise and consumption of fruits and vegetables, and the use of health services (frequency and type).

These variables will assist to predict if and how certain health behaviors have influence the health status of the members of the community.

Health Status

Participants in the self-administered survey were asked about the health status of themselves and their family, and their perceived outlook of the health status of the community. The following variables were used to assess the participant's health status; diagnosis of disease and/or disorder, disability (physical and mental), mood, and injuries. Similarly, diagnosis and disability were variables associated with the collection of family health; other variables included the status of health insurance and frequency of use of healthcare programs in Somerset County. Questions concerning the health status of the community were congruent with that of the family. Overall, these variables identify the health issues that are relevant in the community.

Health Priorities

The priorities of the survey participants are critical in analysis. Although the collection of demographics, environmental influencers, various health behaviors and status tell the story of the health issues for that particular, this information does not explicitly indicate whether those individually reported issues are important to community as a whole. With any community-based intervention, regardless of how well planned and implemented, if it is not accepted by the target population on a large scale, it has potential to fail. By gathering data on the health priority of the individual participants and the community as a whole, we can try to communicate and convey which priorities exist and why. Examples of variables used to identify health priorities include chronic illness treatment, exercising, and eating properly.

Perceived Barriers to Care for Self, Family, and Community

Survey participants were asked what they perceived as barriers to themselves and in the community. The variables used to measure the barriers were transportation, medical/physician experience, and financial means. Identifying and understanding the perceived barriers will help to align the overall needs of the individuals and community, as well as support the identified health priorities.

Data Analysis

The statistical software used to analyze the data was SPSS version 22. Descriptive analyses and bivariate analyses (chi squared tests) were conducted to analyze the data.

NEEDS ASSESSMENT: SUMMARY OF SURVEY RESULTS

RESULTS

Recruitment

In an effort to select a sample that was representative of the overall Somerset County population, residents were recruited from many different locations around the county. The largest number of surveys came from the Crossroad's International Church- Food Pantry (22%), and the Food Lion locations in Princess Anne (13%) and Crisfield (17%). See Table 1.

Demographics

After administering the needs assessment surveys, collecting the data and analyzing it, we were able to characterize our sample through demographic data. There were a total of N = 153 individuals who completed the survey in its entirety. See Table 10.

Gender and Sexual Orientation

The majority of responders were women (61%) while men represented 36% of the sample. When asked about sexual orientation the majority of respondents reported being heterosexual (87%).

Age

The average age for the surveyed residents was 46.1 and the majority of responders were between the ages of 45 and 64 (41.8%), with the smallest portion of responders being aged 65 or older (11%).

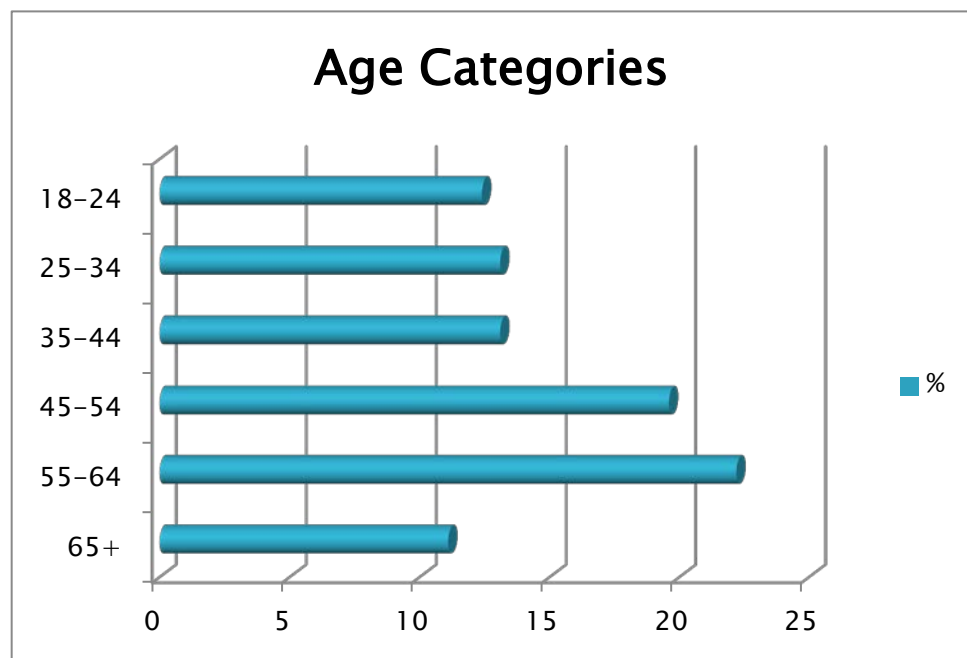


Figure 1. Age by Category

Race and Ethnicity

In terms of race and ethnicity the majority surveyed were White or Caucasian 62% while Blacks or African Americans made up 31.4% and Native Americans/American Indians made up less than 3%. Two percent (3) of respondents reported Hispanic ethnicity.

Education, Employment, and Income

The majority of county residents reported their educational status as having at least a high school diploma (41%) while others reported some post-secondary education or training (26%). While most of the respondents reported being employed (38%) with about 14 % reporting self-employment, the unemployed made up 14 % of survey responders. Furthermore, there were also residents reporting retirement status (11%) as well the inability to work (16%).

The majority of annual household incomes were either less than \$5,000 per year (20.9%) or between \$25,000 to \$49,999 (19%).

Additionally, there was almost an even split between the residents who rented and those who owned their homes. The majority of residents rented (41%) or owned (39%) their homes, while others managed with alternative arrangements (16%). The majority of the respondents lived in the cities of Crisfield (42%) and Princess Anne (30.5%). The median time as a Somerset County resident was 27.64 years (SD = 21.51) taken from the responses of 130 respondents.

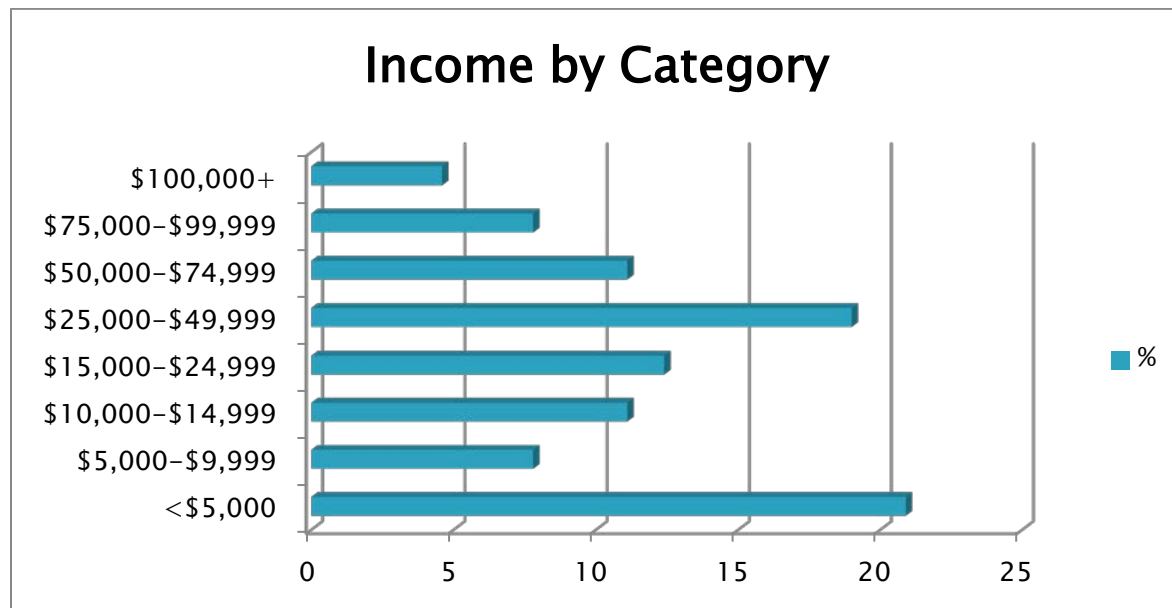


Figure 2. Income by Category

Marital status

When considering marital status the majority of the responders were married (37%); followed by 27% single, 12% divorced, 9% widowed, and 9% separated, and 6% cohabitating.

Household Members

Most households had either one or two children (22%) and (15%) respectively. There were typically two adults per household (35%), and in many cases only one adult in the home (27%).

Ratings of General Health

General Health (see complete data in appendices Table 11)

Respondents were asked to rate their general health ranging from poor to excellent, 67% of participants rated their health in general as good or better. However, 31.4% reported at least one physical limitation.

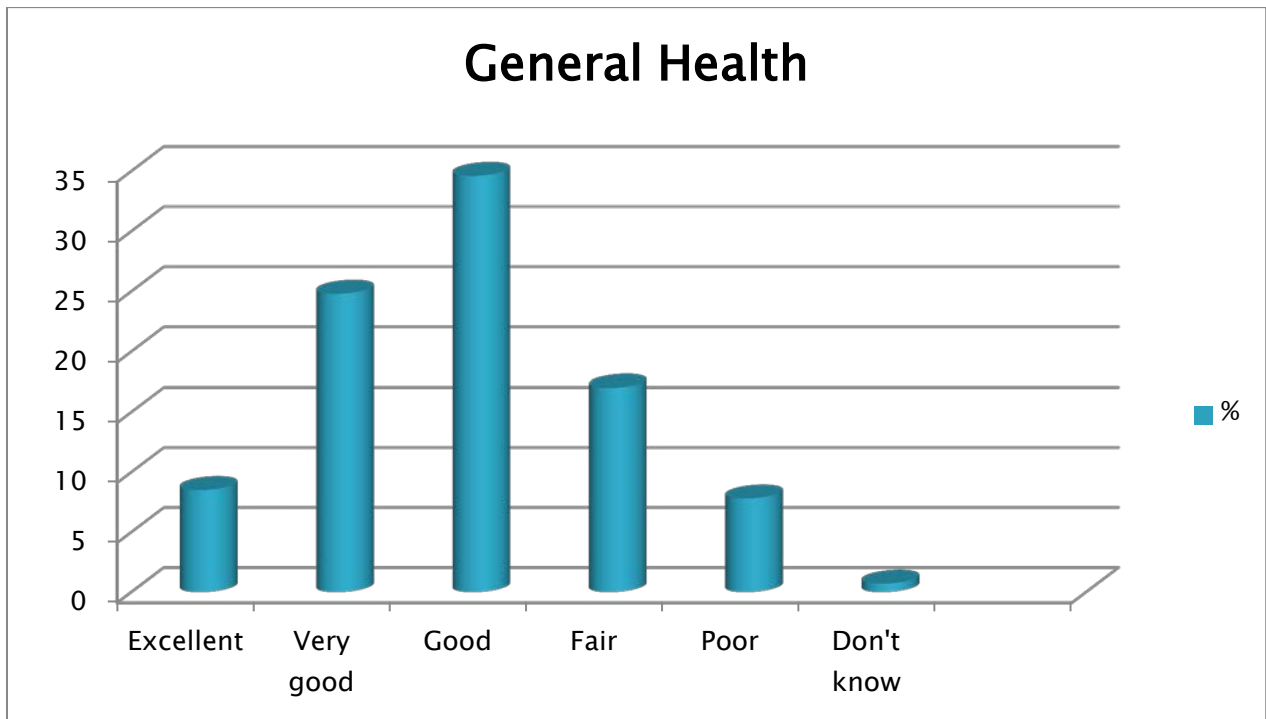


Figure 3: Self-reported General Health Status

Health and Risk Behaviors

Health Behaviors (see complete data in appendices, Table 12)

Exercise

Thirty-two percent of respondents report exercising three or more days per week. Additionally, 28.1% reported exercising for a duration of 30 minutes each time they exercised. A good proportion (17%) however, report exercising for less than 0-5 minutes per day.

Weight

When participants were asked if they believed they were a healthy weight, 48.4% of respondents reported yes, while 43.1% reported that they were not. When Body Mass Index (BMI) was calculated from self-reported height and weight, 22.9% were found to be overweight and 34.6% obese. Interestingly, when these data were probed further it was found that 65.7% of those who were found to be overweight and 19.2% of those who were found to be obese perceived their weight as healthy.

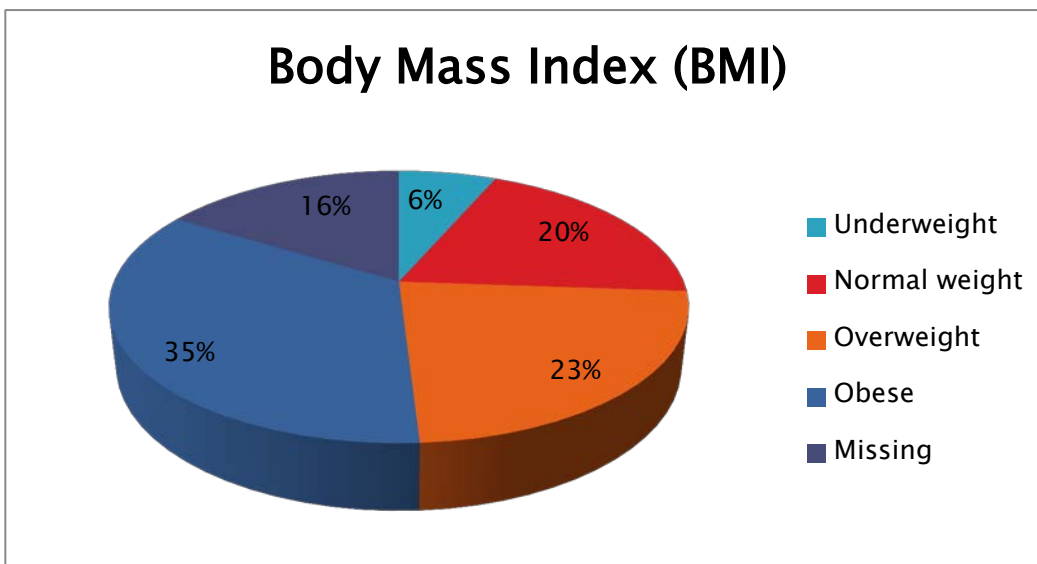


Figure 4. Body Mass Index

Smoking

A series of questions were included about smoking habits and smoking history. Thirty-two percent of respondents report being current smokers, 60.8% had smoked at one time, and 45% had reportedly smoked more than 100 cigarettes in their lifetime.

Seatbelt Use

Over 80% of respondents reported “always” or “nearly always” using a seatbelt when in a moving vehicle.

Flu Vaccine

Only 41.8% of respondents reported getting a flu vaccine in the previous 12 months.

HIV Testing

Almost 53% of participants reported having received an HIV test in the previous five years.

Cancer Screenings

Participants were asked about cancer screenings. With regards to a colorectal exam and/or a colonoscopy, 22.2% and 34.6% respectively reported having received those procedures. Women were asked about mammograms and cervical exams, and 35.3% and 45.1% respectively reported those procedures. Men were similarly asked about prostate exams and receipt of the Prostate specific antigen test (PSA) and only 15.7% and 12.4% of men, respectively, reported having received those examinations.

Individual Personal Life and Health Priorities

Characteristics of Family Life (see complete data in appendices)

Participants were asked to rate the frequency of the occurrence of specific worries or concerns using the response options: all the time, most of the time, some of the time, a little of the time, and none of the time. The following percentage of respondents reported the following worries or concerns occurring “all” or “most the time”; money (52.2%), making housing payments (35.9%), affording nutritious meals (26.8%), and medication costs (23.5%). (See complete data in Appendix 1).

Additionally, participants were asked to note the frequency that cost prevented care or concerns with affording care. Twenty percent of respondents report that cost prevented health care all or most of the time. Similarly, 29.4% reported that cost prevented receipt of dental services all or most of the time and 18.9% reported that cost affected their ability to obtain medications.

Cost also prevented care for at least one family member with respondents reporting all or most of the time that cost prevented health care (17%), dental care (18.9), and medications (15.1%) for a family member.

Self-report of personal health problems and priorities (see complete data in appendices)

County residents were asked a series of questions to better understand the perception of their health compared to others, the availability of relevant services to fit their needs, and access to those services. These data reflect those that report that they “Strongly Agree” or “Agree” to the following health problems. Thirty-nine percent of respondents reported their health was worse than others. Most thought that there were services available to help them address their needs (36.6%) and that the health department services were relevant to their needs (37.3%). Most also agreed that they had access to needed programs (41.2% vs. 17.6% who did not agree). Lastly, 21.6% of respondents report having unique health needs.

Additionally, we asked respondents to rate their personal health priorities. These data reflect those that report that they “Strongly Agree” or “Agree” to the following health priorities. Forty-seven percent of participants reported that weight was a personal health priority. Additionally, most respondents also rated physical activity (45.7%) as a priority.

| Table 1. Self-reported Health Priority | % |
|---|----------|
| Weight (Overweight/Obesity) | 47.7 |
| Physical Activity | 45.7 |
| Eating properly | 41.9 |
| Oral Health (Mouth or teeth) | 33.3 |
| Cardiovascular disease/Diabetes | 30.7 |
| Mental health | 29.4 |
| Cancer prevention/treatment | 26.2 |
| Sexual and reproductive health | 25.5 |
| Injuries | 25.4 |
| Smoking Cessation | 24.2 |
| Asthma/Respiratory Problems | 24.2 |
| Drug use/abuse | 18.3 |
| Sexually transmitted disease (chlamydia, gonorrhea, hepatitis, HIV/AIDS, HPV, syphilis, herpes, other) | 17.7 |

Physical and Mental Health

Survey participants were also asked to consider the time during the past 30 day that included various physical and mental symptoms. These data reflect those that report that they “Strongly Agree” or “Agree” to the following symptoms: pain which prevents usual activities (20.3%), worried or tense (19.6%), and healthy/energetic (21.6% vs. 25.5% which reported little to none of the time feeling healthy/energetic).

| Table 2. Physical & Mental Health Previous 30 days | % |
|---|----------|
| <i>DURING THE PAST 30 DAYS, HOW OFTEN DID YOU FEEL...</i> | |
| Pain that made it hard for you to do your usual activities | 20.3 |
| Sad, blue, or depressed? | 13.7 |
| Worried, tense, or anxious? | 19.6 |
| Very healthy and full of energy?” | 21.6 |
| <i>ABOUT HOW OFTEN DURING THE PAST 30 DAYS DID YOU FEEL ...</i> | |
| Nervous? | 15.7 |
| Hopeless? | 11.1 |
| Restless or fidget? | 13.7 |
| So depressed that nothing could cheer you up? | 7.8 |
| Everything was an effort? | 11.8 |
| Worthless? | 10.5 |
| A mental health condition or emotional problem keep you from work or other usual activities? | 7.8 |

Health Concerns and Priorities (see complete data in appendices)

From a prepopulated list, we asked respondents to acknowledge the health conditions and/or disease that they had been diagnosed with. Forty-one percent of the population reported being hypertensive (i.e., having high blood pressure). Additionally, allergies (26.8%), anxiety (24.2%), pain (23.5%), headaches/migraines (22.9%), high cholesterol (22.9%), and stress (22.2) were among the most reported conditions and/or diseases.

Table 3. Percentage of the Sample with a Chronic disease or condition

| | # | % |
|---|----|------|
| High Blood Pressure | 63 | 41.2 |
| Allergies | 41 | 26.8 |
| Anxiety | 37 | 24.2 |
| Pain | 36 | 23.5 |
| Headaches/Migraines | 35 | 22.9 |
| High Cholesterol | 35 | 22.9 |
| Stress | 34 | 22.2 |
| Arthritis | 29 | 19.0 |
| Diabetes (Sugar) | 28 | 18.3 |
| Depression | 27 | 17.6 |
| Asthma/Bronchitis/Emphysema | 24 | 15.7 |
| Thyroid Disease | 16 | 10.5 |
| Heart Disease/Heart Attack/Heart Failure | 13 | 8.5 |
| Alcoholism/Drinking/Drug Abuse | 12 | 7.8 |
| Mental Illness | 10 | 6.5 |
| Gout | 9 | 5.9 |
| Cancer | 7 | 4.6 |
| Gastrointestinal Disease | 7 | 4.6 |
| Stroke | 6 | 3.9 |
| Kidney Disease | 5 | 3.3 |
| Sexual Problems | 5 | 3.3 |
| Vascular Disease | 4 | 2.6 |
| Epilepsy/Seizures | 3 | 2.0 |
| Prostate Problems | 3 | 2.0 |
| Glaucoma | 2 | 1.3 |
| Autoimmune Disease | 1 | .7 |
| HIV/Aids | 1 | .7 |
| Developmental Disabilities | - | - |

Barriers to Care (see complete data in appendices)

Somerset County residents were asked to acknowledge personal barriers that they experienced in obtaining health care. These data reflect those that report that they “Strongly Agree” or “Agree” to the following: Transportation (30%), Insurance Status (25.5%), Employment challenges (26.1%), Child care (19.6), Awareness of Available services (24.2%), Mistrust of Programs and Services (18.3%), Language/Translation concerns (9.8%), and Culturally competent programs (10.4%).

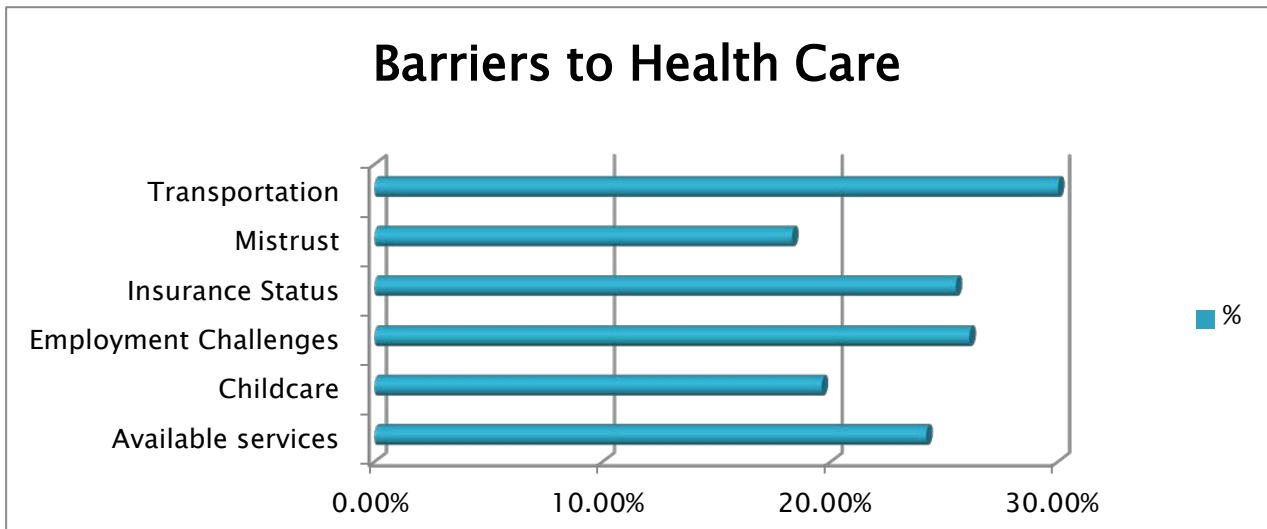


Figure 5. Barriers to Health Care

Health Information Seeking and Program Interest

Health Information Seeking Sources (see complete data in appendices)

To better understand where residents typically seek and receive health-related information we asked about specific modalities. Most respondents report receiving information about health related issues from their healthcare provider (47.7%). Other sources include the internet (32.7%), television (22.2%), brochures (19.6), and a family member or friend (17.6).

Table 4. Health Information Seeking Sources

| | # | % |
|---------------------|-------------------|------|
| Healthcare provider | 73 | 47.7 |
| Internet | 50 | 32.7 |
| Television | 34 | 22.2 |
| Brochures | 30 | 19.6 |
| Family or Friend | 27 | 17.6 |
| Health Department | 20 | 13.1 |
| Health Magazines | 18 | 11.8 |
| Newspapers | 17 | 11.1 |
| Classes | 5 | 3.3 |
| Videos | 4 | 2.6 |
| Other Sources | Insurance company | 1 |
| (open answer) | School nurse | 2 |

Program/Service Interest (see complete data in appendices)

To better understand the need and interest for services available in the county, the survey asked a series of questions regarding interest in services of various types and content. The most popular potential services included exercise programs (38.6%), dental services (38.6%), and weight loss programs (35.9%)

Table 5. Services that respondent would be interested in if available

| | # | % |
|--|----|------|
| Exercise Programs | 59 | 38.6 |
| Dental services | 59 | 38.6 |
| Weight loss Programs | 55 | 35.9 |
| Financial Planning | 38 | 24.8 |
| Healthy Eating Cooking Classes | 38 | 24.8 |
| Diabetes (Sugar) Monitoring | 32 | 20.9 |
| Mental Health Counseling | 28 | 18.3 |
| Family Counseling | 23 | 15.0 |
| Cancer screening and education classes | 19 | 12.4 |
| Family Planning | 17 | 11.1 |

Somerset County 2014 Needs Assessment

| | | |
|---|----|------|
| Marriage/Couples Counseling | 16 | 10.5 |
| Primary Care Services (Visit with nurse of doctor) | 15 | 9.8 |
| Chronic Disease Support Groups | 13 | 8.5 |
| Alcoholism/Drug Abuse Counseling | 10 | 6.5 |

Perceptions of the Overall Counties' Health Problems, Priorities, & Barriers to Health Care

Somerset County Health Problems, Priorities, and Barriers (see complete data in appendices)

A series of questions were asked to assess what participants perceived to be the health problems of county residents in general. Respondents were also asked to consider the health of their county and its residents in comparison with others. These data reflect those that report that they “Strongly Agree” or “Agree” to the following health problems. Thirty-six percent of respondents reported that Somerset County’s resident’s health was worse than others. Most thought that there were services available to help Somerset County’s residents address their needs (31.3%), and that the health department services were relevant to Somerset County’s resident’s needs (33.3%). Thirty-one percent agreed that residents have access to needed programs (vs. 26.8% who did not agree). Lastly, 34.0% of respondents reported that Somerset County’s resident’s had unique health needs.

County health priorities were also considered. These data reflect those that “Strongly Agree” or “Agree” to the following health priorities. Fifty-seven percent of participants reported that weight was a county-wide health priority. Additionally, cardiovascular disease (53.0%), physical activity (52.9%), and drug use/abuse (50.9) were rated as county priorities.

| Table 6. Perceptions of Overall County Health Priorities | % |
|--|------|
| Weight (Overweight/Obesity) | 57.7 |
| Cardiovascular disease/Diabetes | 53.0 |
| Physical Activity | 52.9 |
| Eating properly | 51.0 |
| Drug use/abuse | 50.9 |
| Smoking Cessation | 48.4 |
| Oral Health | 47.1 |
| Cancer prevention/treatment | 47.1 |
| Mental health | 43.8 |
| Asthma/Respiratory Problems | 43.2 |
| Sexually transmitted disease | 41.9 |
| Injuries | 41.9 |
| Sexual and reproductive health | 32.0 |

Perceptions of barriers to obtaining health care were also assessed at the community level. Somerset County residents were asked what barriers exist for most residents in obtaining health care. These data reflect those that report that they “Strongly Agree” or “Agree” to the

Somerset County 2014 Needs Assessment

following: Transportation (54.3%), Insurance Status (52.3%), Employment challenges (53.0%), Child care (46.4), Awareness of Available services (45.7%), Mistrust of Programs and Services (37.2%), Language/Translation concerns (30.7%), and Culturally competent programs (31.4%).

Race and Health Care, Incarceration and Reentry, and Community Engagement

Race and Healthcare (see complete data in appendices)

The survey also assessed racial issues and concerns of Somerset County residents. A series of questions were asked that assessed race and health, perceptions of treatment based on race, representativeness of various ethnicities in the healthcare workforce, and race among health care providers. Ten percent felt that their healthcare-related experience were worse than people of other races, 73.2% percent thought they were the same, and 9.8% thought they were better. Sixteen percent reported feeling upset as a result of differential treatment they perceived to be due to their race. Thirty-four percent reported they their race was not represented among the community organizations in the county. Lastly, 20% report that more providers of their same race would make them more comfortable sharing health-related information.

Incarceration and Reentry (see complete data in appendices)

The survey assessed issue surrounding incarceration and reentry. A series of questions were asked that assessed the experience of county residents in obtaining or accessing resources due to issues related to incarceration and arrest records. Sixteen percent report they themselves or someone in their household had been incarcerated or arrested in the previous seven years. Almost 5% will have someone returning to their home from being incarcerated in the next five years. Additionally, almost 4% reported than an arrest record or felony has prevented them from obtaining employment and from obtaining other basic necessities including housing or training. Lastly it was found that only 14% of participants reported being aware of county services available to offer assistance to someone reentering the community after being incarcerated.

Community Engagement (see complete data in appendices)

A series of questions were asked to assess the level of awareness of community engagement in the county. There appears to be little awareness of health-related efforts by community organizations.

Results: Secondary Analyses

In order to better understand the role that income and race have on the findings, we conducted several bivariate analyses.

First, we looked at the income category by general health status, and determined that participants reporting an income in the lowest tier (<5,000-9,999) were more likely to report fair or poor health compared to higher income groups ($X^2 = 33.143$ $p < .01$).

Next, we look at general health status by racial group. The racial groups did not differ significantly on reports of general health status ($X^2 = 14.86$ $p > .05$).

Lastly, we looked at income by race to determine if income was a better indicator of social factors than race. The data supports that Whites were more likely to earn incomes over \$50,000 ($X^2 = 13.52$ $p < .05$).

NEEDS ASSESSMENT: SUMMARY OF COMMUNITY STRUCTURED INTERVIEWS

Community Structured Interviews

Stakeholders Assessment

After conducting six interviews of several Somerset County stakeholders, a diverse set of information was gathered and analyzed thematically. Beginning with the demographics of the community stakeholders, fifty percent were health care professionals (3) and fifty percent were self-identified community leaders (3). The ages ranged between 50–59 years of age,. These stakeholders had years of experience in their specific fields of study. Four out of the six stakeholders were Somerset County residents, with a medium household income of 50,000–99,999 dollars a year. Five out of six stakeholders identified as female and all identified as heterosexual or straight. In addition, all stakeholders identified themselves as White or Black/ African American, and none of them considered themselves to be Latino.

Organization's Health Participation

Stakeholders were asked a series a questions that assessed their personal and organizational involvement in improving the health of the community in Somerset County. The organizations spent about a 36.6–minute average of their work time per week interacting with Somerset County Residents. Most reported that their organization was involved with health activities, and which health focuses they targeted. The most common health services were focused on improving diet and nutrition, programs targeting youth, and programs attempting to increase physical activity among County residents. None of the organizations reported participation in LGBTQ services. Services are prioritized based upon both funding and focus of the organization, and therefore vary across organization and survey respondent. On average, about 25–30 percent of the community participates in health related programs; however, this does not reflect reported accessibility (location) or reach.

Most organizations share their health information through social media sites, faith-based programs, and brochures. Over 85% reported to have Facebook pages.

Although these organizations try to target younger audiences, mostly women and older residents participate.

Somerset County Health

When asked various questions regarding the health of Somerset County residents, participating stakeholders were presented a Likert Scale to report each response. Participants were asked if the health of Somerset County residents is worse than that of other counties

residents; most chose the range of agree to strongly agree. There was one outlier who strongly disagreed. When asked if the health services are adequate and reflected the community need, four of the six disagree to strongly disagree with the statement. Oral health and smoking were two of the top health priorities with transportation and awareness as the leading reasons why people did not attend.

The interviewees were also asked some open-ended questions that focused on their personal thoughts and abilities to impact health. The participating stakeholders considered themselves to be leaders or advocates for the county who are able to negotiate with other leaders and community stakeholders. Also, most believed that more interdisciplinary contributions would aid in tackling overall health issues. When asked about challenges that are faced by the organizations approach to health dissemination, the lack of trust and knowledge about healthcare was a consistent answer. On the other hand, even when Somerset County residents expressed interest in receiving the various health services, barriers such as transportation and reach seemed to be an issue. Most participants vocalized that they wished they could better understand what the County needs were. To combat this, outreach and education programs are being administered to increase health concern amongst Somerset County Residents.

COMPARISON WITH CENSUS DATA - COUNTY AND STATEWIDE

Comparison with County and Statewide Census Data

We compared the current needs assessment demographic data with census data to assess our sampling and recruitment strategies. In general this sample was similar to the most recent census data with several notable deviations. Compared to the most recent census data our sample were a more educated (85.7% vs. 79.6%) with a high school diploma or higher and with a bachelor's degree or higher (20.6% vs. 14.2%). This sample had a lower number of Black/African American residents (35.9% vs. 42.8%) and a higher number of White residents (61.2% vs. 53.8%) compared to the most recent census data. With regard to the income data we collected this information differently, using categories vs. a specific dollar amount. These data were bimodal where we observed the highest income categories as < \$5,000 or between \$25,000- \$49,999, 22.1% and 20% respectively, compared to a median income of \$38,447 according to the census. From these comparisons we can make assumptions about the recruitment strategy and approach and also identify areas to focus on in the future.

Table 7. Comparison with census data – County and Statewide

| Category | 2014 Somerset Needs Assessment | Most Recent Census Data for Somerset | Most Recent Data for Maryland |
|---|--------------------------------|--------------------------------------|-------------------------------|
| Population, 2013 Estimate | --- | 26,273 | 5,928,814 |
| Average Age | | | |
| Male | 35.9% (37.2%) | | |
| Female | 60.8% (62.8%) | | |
| Education (persons 25+) | | | |
| High School Graduate or Higher | 85.3 (87.7%) | 79.6% | 88.7% |
| Bachelor's Degree or Higher | 20.3% (20.6%) | 14.2% | 36.8% |
| Race | | | |
| White | 41.8% (61.2%) | 53.8% | 60.5% |
| Black or African American | 24.2% (35.9%) | 42.8% | 30.1% |
| American Indian/Alaskan Native | 0% | 0.4% | 0.6% |
| Asian (alone) | 0% | 0.9% | 6.1% |
| Native Hawaiian/Pacific Islander | .7% (1.0%) | - | 0.1% |
| Hispanic/Latino | (2.1%) | 3.8% | 9.0% |
| Home Ownership Rate | | | |
| Renters | 39.9% | | |
| Income | See text | \$38, 447 ^a | \$73, 538 ^a |
| Persons Below Poverty Level | See text | 23.4% ^b | 9.8% ^b |
| Persons Per Household | | 2.29 | 2.65 |

^aMedian household income, 2009-2013

^b2009-2013

Note: Figures in parentheses reflect cumulative percentage (i.e., omitting missing values)

COMPARISON WITH PREVIOUS NEEDS ASSESSMENT

Comparison with Previous Needs Assessment

We compared the current needs assessment with the previous 2009 version to assess changes and gaps and compare sample characteristics. There were some notable differences. Transportation and employment challenges emerged as the biggest barriers to health care, versus insurance and affordable health care in previous years. Additionally, childcare emerged as a significant barrier. The general health ratings were considerably lower than the 2009 Tri-County rating (33.3% vs. 58.3%) for those report “excellent” vs. “very good”. One of the most striking differences is in the number of days per month in poor health. The number of days increased from 4.8 to 12.05. Similarly, the amount of time in good mental health decreased markedly from 83.4% to 21.6%. Anxiety about house related finances also increased to 35.9% from 26.2%. The percentage of the sample that reported being current smokers increased dramatically from 21.9% to 32.0%. And a much lower percent of the population reported alcoholism/binge drinking which decreased to 7.8% from 20.9%. Also notable is that fewer people reported having a regular physician or site for medical care (93.7% vs. 71.1%). Additionally, lack of insurance increased from 9.5% to 13.1%.

Table 8. Comparison with previous needs assessment

| Health Indicator | | Somerset County (2014) | Somerset County (2009) | Tri-County Area (2009) | US | HP 2020 |
|--|-----------------------|------------------------|--------------------------------|------------------------|------|---------|
| Perceived Number One Barrier to Health Care | Transportation | 30.0% | Insurance | 21% | 15.7 | - |
| | Employment Challenges | 26.1% | Affordable Healthcare | 16.4% | 15.6 | - |
| | Insurance Status | 25.5% | Available Physicians/ Services | 11.4% | 15.4 | - |
| | Available services | 24.2% | Poor Quality of Care | 4.4% | 4.5 | - |
| | Childcare | 19.6% | Behavioral Health Risks | 2.6% | 2.7 | - |

Somerset County 2014 Needs Assessment

| | | | | | | | |
|---|-------------------------|-------|--|-------|----------|--------------------------|-------|
| (Q22) Overall Health Status/ Self-Reported Health Status “Would you say that in general your health is excellent, very good, good, fair or poor?” | Mistrust | 18.3% | Uncertain | 27.1% | 26.2 | | |
| | | 8.5% | | | 6/10 | | |
| | Excellent | | | | 58.3% | “excellent or very good” | |
| | Very Good | 24.8% | | | | | |
| | Good | 34.6% | | | | | |
| | Fair | 17.0% | | 26.1% | 16.2% | | 17.4% |
| Poor | 7.8% | | (highest of 3 counties) | | | | |
| (Q 23) Average Days of Poor Physical Health in last month | Days | | 4.8 days | | 3.5 days | - | - |
| | 12.05 (SD=10.5) | | | | | | |
| Healthy Weight (BMI 18.5-24.9) | | 23.4% | 24.7% | 29.3% | | 32% | 60%+ |
| BMI Based Overweight Status | | 68.7% | 73.9% | 69.2% | | 67.4% | |
| Frequency of Good Mental Health in the Past Month Q74 (Feel very healthy and full of energy) | All or Most Of The Time | 21.6% | Most Of The Time | 83.4% | 86.7% | - | |
| | Some of the Time | 23.5% | Some of the Time | 10.7% | 8.3% | | - |
| | Little of the Time | 11.8% | Little of the Time | 5.3% | 5.1% | | |
| | None | 25.5% | None | 1.7% | | | |
| (Q55) Anxiety Related to Finances – House Payments | | 35.9% | Always or usually experienced worry or stress over house payments in | 26.2% | 19.4% | - | - |

Somerset County 2014 Needs Assessment

| | | | | | | |
|---|--|-------|-----------------------------------|-------|-------|-------|
| Self-Reported Prevalence of Chronic Illness | High Blood Pressure | 41.2 | Arthritis | 34.3% | - | - |
| | Allergies | 26.8 | Sciatica/ Chronic Back Pain | 25.0% | | |
| | Anxiety | 24.2 | Diabetes | 19.5% | | |
| | Pain | 23.5 | Asthma | 14.6% | | |
| | Headaches/Migraines | 22.9 | Skin Cancer | 7.7% | | |
| | High Cholesterol | 22.9 | Deafness/ Trouble Hearing | 8.8% | | |
| | Stress | 22.2 | Chronic Lung Disease | 11.9% | | |
| | Arthritis | 19.0 | Chronic Heart Disease | 10.4% | | |
| | Diabetes (Sugar) | 18.3 | Blindness/ Trouble Seeing | 9.0% | | |
| | Depression | 17.6 | Cancer (other than skin) | 7.5% | | |
| | Asthma/Bronchitis/E mphysema | 15.7 | Kidney Disease | 5.2% | | |
| | Thyroid Disease | 10.5 | Stroke | 4.2% | | |
| | Self-Reported Prevalence of Diabetes | | 18.3% | 19.5% | 14.3% | 11.1% |
| (Related to Q38) Access to Nutritious Foods | Always or Usually Worried About Affording Nutritious Meals | 26.8% | | 12.9% | 7.6% | - |
| (Related to Q39) Engage in Regular Physical Activity | | | 45.9% | 47.2% | - | - |
| (Related to Q43) | | 32.0% | 21.9% | 16.3% | 14.1% | |

Somerset County 2014 Needs Assessment

| | | | | | |
|---|--|-------|---|-------|-------|
| Cigarette Smoking Prevalence (Related to Q56) | 7.8% | 20.9% | 22.6% | | |
| Alcoholism/Binge Drinking (Related to Q56) | 41.2% | 45.5% | 33.8% | 34% | |
| Hypertension (Related to Q56) Self-Reported Prevalence of High Cholesterol | 22.9% | 44.6% | 36.3% | 30.5% | |
| Seniors – Flu Vaccinations in the past 5 years (Related to Q33, 34) | Received flu vaccination previous 12 months – all ages | 41.8% | 1-2 Vaccines | 13.1% | |
| | | | 3-4 Vaccines | 7.3% | |
| | | | 5+ Vaccines | 53.7% | 61.2% |
| | | | None | 25.9% | 19.9% |
| Sigmoid or Colonoscopy (age 50+) (Related to Q36, Q37) | 34.6% | 75.2% | 77.5% | 64.8% | |
| Mammogram in the past 2 years (age 40+) (Related to Q36) | 35.3% | 78.3% | 84.5% | | |
| Pap Smear (age 18 +) (Related to Q36) | 77.5% | 74% | 80.5% | 74.9% | |
| Regular Site for Medical Care (Related to Q46) | 77.1% | 93.7% | 90% | 85.1% | |
| “Always” wear a Seatbelt – Motor Vehicle Safety (Related to Q32) | 73.2 | 77.8% | 87.9% | 83.5% | |
| Health Insurance Coverage (Related to Q9) | 79.7% | | 78.3% (private) 13.3% (govt sponsored) | | |
| Lack of Health Insurance (Related to Q9) | 13.1% | 9.5% | 8.4% | 17.7% | |

Somerset County 2014 Needs Assessment

| | | | | | |
|--|------------------------|-------|-------|---------------------------|-------|
| Coverage (18-64) | | | | | |
| (Related to Q77) | | 20.9% | 25.2% | 13.9% | |
| Financial Barriers to Health Care – cost or lack of insurance prevented physician visit in past 2 years | | | | | |
| (Related to Q77) Reason for Difficulty Getting In To See a Physician | Transportation | 17% | | Scheduling | 64.4% |
| | Getting an Appointment | 21% | | Inconvenient Hours | 12.9% |
| | Long wait times | 15.7% | | Difficulty Finding Doctor | 7.6% |
| | Office not open | 3.3% | | Cost/Insurance | 5.8% |
| | -- | -- | | Uncertain | 3.9% |
| | -- | -- | | Health Concern | 2.8% |
| | -- | -- | | Lack of Transportation | 2.5% |
| (Related to Q55) Not able to access dental care when needed in the past 2 years | | | | | |
| Cost prevented services all or most of the time | 29.4% | 15.4% | 7.9% | | |
| (Q58) Primary Source of Health Care Information | Healthcare provider | 47.7% | | Family Doctor | 46.6% |
| | Internet | 32.7% | | Internet | 13.1% |
| | Television | 22.2% | | Friends/Relatives | 9.5% |
| | Brochures | 19.6% | | Other | 6.9% |
| | Family or Friend | 17.6% | | Television | 5.4% |
| | Health Department | 13.1% | | Uncertain | 4.9% |
| | Health Magazines | 11.8% | | Work | 4.8% |
| | Newspapers | 11.1% | | Hospital Pub | 2.6% |
| | Classes | 3.3% | | Insurance | 2.4% |
| | Videos | 2.6% | | Books/Magazines | 2.2% |
| | Other | 1.3% | | Newspaper | 1.6% |

Bolded Question References refer to questions in the GW Somerset County Needs Assessment Instrument. (2014)

DISCUSSION

The information provided by the needs assessment is to be used to guide further programming, initiatives, and services of the health department for their residents. The data were able to highlight gaps in care and areas to potentially leverage into additional programs, services, and interventions. Overall the recruitment approach was successful in obtaining a representative sample and the community was vocal and in general was eager to share their health experiences. Future efforts should consider ways to increase yield among Black/African American residents and Hispanics.

Next Steps

These data highlight some specific needs of Somerset County Residents. Higher level analyses of the data could further highlight patterns and gaps not evident in these descriptive analyses. A cost-saving approach to this recommendation would be to develop a practicum or internship with a public health student to complete these analyses.

Additionally, focus groups with county residents would offer a more in depth perspective and understanding of some of the results. This would especially be important in the developmental phase of any programming or services that will be developed based on these results.

Recommendations for Future Needs Assessments

One recommendation for future needs assessment projects would be to hire community residents to work on the needs assessment. This would not only promote the county's commitment to its residents but also strengthen the buy-in from residents regarding the purpose/usefulness of the needs assessment and combating any mistrust between local organizations and the community. Similarly, future efforts should consider convening a community advisory board to help plan and organize recruitment. This board could also serve to promote participation to increase yield.

Another recommendation would be to shorten the survey. Anecdotally, one of the biggest complaints of this process was the length of the survey instrument. While each question provided important information to best serve the county, areas to minimize should be explored.

Future needs assessments should also schedule data collection for warmer months. Outdoor recruitment sites offer the most promise, but recruiting during the fall months has

limitations and advantages. Mild temperatures were certainly an advantage but when the temperature turned cooler it appeared to affect participant's likelihood to participate. This is an assumption based on the research team's observations and difficulty recruiting during the colder weather.

When conducting future needs assessments, researchers could assess the feasibility of online surveys, the use of tablets, or other technology for data gathering. The field is moving toward more technological and/or web based survey software which could save both time and money. It can be an affordable option which can be sent out to large number of people quickly, enabling a wealth of data in a short amount of time. Money is saved on physically publishing and distributing questionnaires. In-person methods require manual data entry, which requires time. It is also prone to data entry errors, which are often mitigated by online survey collection. An online platform guarantees more privacy and anonymity to the respondent, compared to in-person recruitment, where the presence of a researcher may increase interviewer response bias or hesitation to participate and reveal private information. The remote web-based recruitment method requires researchers to have access to email addresses and local newsgroups,²⁹ which were not available in this needs assessment. If the goal is to identify members of the community, and to identify their needs, these lists may be useful in increasing reach for future recruitment efforts. However, when a comprehensive list of community members is not available in an underserved or resource-poor community, web based recruitment will undoubtedly miss a crucial segment of the population.

It is also important to note that web-based recruitment requires access to computers, to the internet, and all participants must possess the ability to read and understand directions. Clarification on items may not be possible. Surveying in this manner may miss large subsets of the population, who cannot afford computers, cannot read, or do not have internet access. Thus, the data that is acquired through this recruitment method may not be representative of the population. It may over-represent those with more wealth and affluence, or those who experience drastically different barriers to leading healthy lifestyles. This data may be less generalizable. Such is the case in Somerset County where resources are limited for some county residents, as indicated in a meeting with the Department of Health and the McCreedy Foundation. A hybrid approach which could combine the two approaches where tablets and in-person surveys are used in the field to gather data could increase the number of people reached by the research team. The cost of purchasing the necessary technology should be weighed against the cost of personnel time needed for the standard paper/pencil method.

Limitations

Advantages and Disadvantages of Self-Reported Questionnaire

Self-Reported Questionnaires have many advantages, including low cost to administer, increased participant confidence and honesty when providing responses to questions, and stimulation of participant involvement.³⁰

Limitations of a self-reported questionnaire include recall-bias (inability to recall or remember certain occurrences before survey participation), over-reporting, and inaccurate participant interpretation of questions that are different than that of the researcher, therefore providing an inaccurate response and introducing research bias.³⁰

Recruitment

There were limitations associated with the selection of residents to complete the needs assessment. Respondents were self-selected and the locations we chose limited us to only reaching individuals who visited those establishments during the recruitment events. Another limitation of the potential for the effects of social desirability in respondents reply in a manner they believe is wanted or expected. Conversely there is also the potential for inaccurate reporting due to mistrust of the process and project team. In an effort to avoid tailored answers, caution was taken during data collection to ensure that the residents knew their responses were going to be completely confidential.

Conclusion

The data highlighted gaps in care and identified areas to potentially leverage into additional programs, services, and interventions. This report also summarizes a new recruitment approach for the county needs assessment. Overall the recruitment approach was successful in obtaining a representative sample. One of the most striking characteristics of the sample is the income variations, where the majority of sample either reported incomes below \$5000 or over \$25,000. This income variation should be considered in the planning and implementation of services and programs. Research supports tailoring efforts to the specific social determinants of health facilitating or impeding health behaviors in a community.

Additionally, future efforts should consider ways to increase yield among Black/African American and Hispanics residents. Lastly, it is the recommendation of the team that future efforts incorporate more of the community in the planning and execution of the needs assessment.

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APPENDIX. 1 Complete Findings

Table 9. Recruitment Location

| Recruitment Location | # | % |
|--|------------|-------------|
| Bus Depot (Princess Anne) | 19 | 12.4 |
| Food Lion (Princess Anne) | 26 | 17 |
| Food Lion (Crisfield) | 20 | 13.1 |
| Somerset Shoppers Fair | 11 | 7.2 |
| Ashbury United Methodist Church | 11 | 7.2 |
| Gordon's Restaurant | 18 | 11.8 |
| The Beauty Suite Salon | 2 | 1.3 |
| Duck Emporium Beauty Salon | 5 | 3.3 |
| Waterman's Inn | 2 | 1.3 |
| Crossroad's International Church – Food Pantry | 34 | 22.2 |
| Downtown Crisfield – Various Businesses | 5 | 3.3 |
| TOTAL | 153 | 100% |

Somerset County 2014 Needs Assessment

Table 10. Demographics

| | N | M (SD) | |
|---------------------------------|----------------------------------|---------------|---------------|
| Age | 140 | 46.1 (16.21) | Range (18-85) |
| Years in Somerset County | 130 | 27.64 (21.51) | |
| | | | |
| Age Categories | | # | % |
| | 18-24 | 19 | 12.4 (13.6) |
| | 25-34 | 20 | 13.1 (14.3) |
| | 35-44 | 20 | 13.1 (14.3) |
| | 45-54 | 30 | 19.6 (21.4) |
| | 55-64 | 34 | 22.2 (24.3) |
| | 65+ | 17 | 11.1 (12.1) |
| | Missing | 13 | 8.5 |
| | | | |
| Gender | | | |
| | Female | 93 | 60.8 (62.8) |
| | Male | 55 | 35.9 (37.2) |
| | Missing | 5 | 3.3 |
| | | | |
| Race Categories | | | |
| | White | 95 | 61.2 |
| | Black or African American | 48 | 31.4 |
| | Asian | 0 | 0 |
| | Native Hawaiian/Pacific Islander | 1 | .7 |
| | American Indian/Alaska Native | 4 | 2.6 |
| | Other | - | - |
| | Missing | 5 | 4.1 |
| | | | |
| Ethnicity | | | |
| | Hispanic or Latino | 3 | 2.0 (2.1) |
| | Not Hispanic or Latino | 138 | 90.2(96.5) |
| | DK | 2 | 1.3(1.4) |
| | Missing | 10 | 6.5 |
| | | | |
| Marital status | | | |
| | Single | 41 | 26.8 (27.3) |
| | Married | 55 | 35.9 (36.7) |
| | Divorced | 18 | 11.8 (12.0) |
| | Widowed | 13 | 8.5 (8.7) |
| | Separated | 14 | 9.2 (9.3) |
| | Cohabiting | 9 | 5.9 (6.0) |
| | Missing | 3 | 2.0 |
| | | | |
| Education | | | |
| | Middle School | 5 | 3.3(3.3) |
| | Some High School | 14 | 9.2 (9.3) |
| | High School Graduate | 61 | 39.9 (40.7) |

Somerset County 2014 Needs Assessment

| | | | |
|--------------------------------------|-------------------------------|-----|-------------|
| | Some College/Technical School | 39 | 25.5 (26.0) |
| | College Graduate | 17 | 11.1 (11.3) |
| | Graduate School | 14 | 9.2 (9.3) |
| | Missing | 3 | 2.0 |
| Income | | | |
| | <\$5,000 | 32 | 20.9 (22.1) |
| | \$5,000-\$9,999 | 12 | 7.8 (8.3) |
| | \$10,000-\$14,999 | 17 | 11.1 (11.7) |
| | \$15,000-\$24,999 | 19 | 12.4 (13.1) |
| | \$25,000-\$49,999 | 29 | 19.0 (20.0) |
| | \$50,000-\$74,999 | 17 | 11.1 (11.7) |
| | \$75,000-\$99,999 | 12 | 7.8 (8.3) |
| | \$100,000+ | 7 | 4.6 (4.8) |
| | Missing | 8 | 5.2 |
| Employment Status^a | | | |
| | Employed | 58 | 37.9 |
| | Self-Employed | 21 | 13.7 |
| | Unemployed | 21 | 13.7 |
| | Out of work < 1 year | 8 | 5.2 |
| | Homemaker | 8 | 5.2 |
| | Student | 9 | 5.9 |
| | Retired | 17 | 11.1 |
| | Unable to work | 24 | 15.7 |
| Sexual Orientation | | | |
| | Heterosexual | 133 | 86.9 (90.5) |
| | Gay/Lesbian | 2 | 1.3 (1.4) |
| | Bisexual | 6 | 3.9 (4.1) |
| | Prefer not to say | 6 | 3.9 (4.1) |
| | Missing | 6 | 3.9 |
| Children in Household | | | |
| | 1 | 33 | 21.6 (73.2) |
| | 2 | 23 | 15.0 (16.2) |
| | 3 | 11 | 7.2 (7.7) |
| | 4 | 3 | 2.0 (2.1) |
| | 5 | 1 | .7(1.0) |
| | Missing | 11 | 7.2 |
| Adults in Household | | | |
| | 1 | 41 | 26.8 (29.5) |
| | 2 | 53 | 34.6 (38.1) |

Somerset County 2014 Needs Assessment

| | | | |
|---------------------------------|---------------|---------------|-------------|
| | 3 | 20 | 13.1 (14.4) |
| | 4 | 3 | 2.0 (2.2) |
| | 5 | 2 | 1.3 (1.4) |
| | Missing | 14 | 9.2 |
| | | | |
| Housing Status | | | |
| | Own | 60 | 39.2 (40.5) |
| | Rent | 61 | 39.9 (41.2) |
| | Other | 25 | 16.3 (16.9) |
| | DK | 2 | 1.3 (1.4) |
| | Missing | 5 | 3.3 |
| | | | |
| Insurance Status | | | |
| | Insured | 122 | 79.7 |
| | Not Insured | 20 | 13.1 |
| | Missing | 11 | 7.2 |
| | | | |
| Years in Somerset County | N | M (sd) | |
| | 130 | 27.64 (21.51) | |
| | | | |
| City | | | |
| | Crisfield | 55 | 35.9 (42.0) |
| | Princess Anne | 40 | 26.1 (30.5) |
| | Deal Island | 14 | 9.2 (10.7) |
| | Marion | 12 | 7.8 (9.2) |
| | Westover | 4 | 2.6 (3.1) |
| | Freetown | 2 | 1.3 (1.5) |
| | Wimico | 1 | .7 (.8) |
| | Dames Quarter | 1 | .7 (.8) |
| | Missing | 3 | 15.1 |

^Anote more than one option can be selected

Somerset County 2014 Needs Assessment

Table 11. General Health

| | N | M (SD) | |
|---------------------------------|-------------|---------------|-------------|
| Weight | 137 | 181.12 (72.2) | |
| General Health | | # | % |
| | Excellent | 13 | 8.5 |
| | Very good | 38 | 24.8 |
| | Good | 53 | 34.6 |
| | Fair | 26 | 17.0 |
| | Poor | 12 | 7.8 |
| | Don't know | 1 | .7 |
| | Missing | 10 | 6.5 |
| Regular Physician | Yes | 118 | 77.1 |
| | No | 23 | 15.0 |
| | DK | 1 | .7 |
| | Missing | 11 | 7.2 |
| BMI (Body Mass Index) | | | |
| | Underweight | 10 | 6.5 (7.8) |
| | Normal | 30 | 19.6 (23.4) |
| | Overweight | 35 | 22.9 (27.3) |
| | Obese | 53 | 34.6 (41.4) |
| | Missing | 25 | 16.3 (--) |
| Physical Health Not Good | | | |
| | Yes | 59 | 38.6 (59.6) |
| | No | 40 | 26.1 (40.4) |
| | Missing | 54 | 35.3 |
| Mental Health Not Good | | | |
| | Yes | 69 | 45.1 |
| | No | - | - |
| | Missing | 84 | 54.9 |
| Any Physical Limitation | | | |
| | Yes | 48 | 31.4 |
| | No | 92 | 60.1 |
| | Missing | 13 | 8.5 |
| Any Visual Impairment | | | |
| | Yes | 22 | 14.4 |
| | No | 121 | 79.1 |
| | Missing | 10 | 6.5 |

Somerset County 2014 Needs Assessment

| Limitations that impact daily activities | | | |
|---|---------|-----|------|
| | Yes | 14 | 9.2 |
| | No | 128 | 83.7 |
| | Missing | 11 | 7.2 |

Somerset County 2014 Needs Assessment

Table 12. Health Behaviors

| | M (SD) | # | % |
|-------------------------------|------------|----|------|
| # Exercise days per week | | | |
| | None | 16 | 10.5 |
| | One | 19 | 12.4 |
| | Two | 25 | 16.3 |
| | Three | 22 | 14.4 |
| | Four | 6 | 3.9 |
| | Five+ | 21 | 13.7 |
| | Dk | 9 | 5.9 |
| | Missing | 35 | 22.9 |
| # Exercise minutes per day | | | |
| | 0-5min/day | 26 | 17.0 |
| | 15min/day | 23 | 15.0 |
| | 30min/day | 43 | 28.1 |
| | 60min/day | 13 | 8.5 |
| | 60+min/day | 13 | 8.5 |
| | DK | 17 | 11.1 |
| | Missing | 18 | 11.8 |
| Perception of Healthy Weight | | | |
| | Yes | 74 | 48.4 |
| | No | 66 | 43.1 |
| | DK | 4 | 2.6 |
| | Missing | 9 | 5.9 |
| Current Smoker | | | |
| | Yes | 49 | 32.0 |
| | No | 93 | 60.8 |
| | Missing | 11 | 7.2 |
| Ever Smoked | | | |
| | Yes | 93 | 60.8 |
| | No | 49 | 32.0 |
| | Missing | 11 | 7.2 |
| Smoked 100 Cigarettes in Life | | | |
| | Yes | 69 | 45.1 |
| | No | 74 | 48.4 |
| | Missing | 10 | |

Somerset County 2014 Needs Assessment

| | | | |
|-------------------------|---------------|-----|------|
| Seatbelt Use | Always | 112 | 73.2 |
| | Nearly Always | 14 | 9.2 |
| | Sometimes | 11 | 7.2 |
| | Seldom | 1 | .7 |
| | Never | 4 | 2.6 |
| | Missing | 11 | 7.2 |
| Flu Vaccine | Yes | 64 | 41.8 |
| | No | 77 | 50.3 |
| | DK/not sure | 2 | 1.3 |
| | Missing | 10 | 6.6 |
| HIV testing | Yes | 81 | 52.9 |
| | No | 72 | 47.1 |
| Mammogram (Women) | Yes | 54 | 35.3 |
| | No | 29 | 19 |
| Cervical exam (Women) | Yes | 69 | 45.1 |
| | No | 20 | 13.1 |
| Colorectal exam (Women) | Yes | 24 | 15.7 |
| | No | 54 | 35.3 |
| | Missing | 75 | 49.0 |
| Colonoscopy (Women) | Yes | 30 | 19.6 |
| | No | 46 | 30.1 |
| | Missing | 77 | 50.3 |
| Prostate exam (Men) | Yes | 24 | 15.7 |
| | No | 31 | 20.3 |
| PSA exam (Men) | Yes | 19 | 12.4 |
| | No | 34 | 22.2 |
| Colorectal exam (Men) | Yes | 10 | 6.5 |
| | No | 42 | 27.5 |
| | Missing | 52 | 34.0 |
| Colonoscopy (Men) | Yes | 23 | 15.0 |
| | No | 31 | 20.3 |
| | Missing | 99 | 64.7 |

Somerset County 2014 Needs Assessment

Table 13. Barriers to Healthcare

| | M (SD) | # | % |
|-----------------------------------|---|----|------|
| Problem Preventing access to care | | | |
| | Transportation | 26 | 17 |
| | Getting an Appointment | 21 | 13.7 |
| | Long wait times | 24 | 15.7 |
| | Office not open | 5 | 3.3 |
| | None | 85 | 55.6 |
| | | | |
| | | | |
| Other Barriers | | | |
| (open answer) | Cost | 3 | |
| | All of the above | 1 | |
| | Didn't attend to needs | 1 | |
| | Had to go to Baltimore for a specialist | 1 | |

Somerset County 2014 Needs Assessment

Table 14. Worries and Healthcare

| | M (SD) | # | % |
|----------------------------|----------------------|----|------|
| Money | | | |
| | All the time | 53 | 34.6 |
| | Most of the time | 27 | 17.6 |
| | Some of the time | 26 | 17 |
| | A little of the time | 15 | 9.8 |
| | None of the time | 18 | 11.8 |
| | Missing | 14 | 9.2 |
| | | | |
| House payments | | | |
| | All the time | 38 | 24.8 |
| | Most of the time | 17 | 11.1 |
| | Some of the time | 18 | 11.8 |
| | A little of the time | 13 | 8.5 |
| | None of the time | 51 | 33.3 |
| | Missing | 16 | 10.5 |
| | | | |
| Affording nutritious meals | | | |
| | All the time | 29 | 19 |
| | Most of the time | 12 | 7.8 |
| | Some of the time | 22 | 14.4 |
| | A little of the time | 18 | 11.8 |
| | None of the time | 56 | 36.6 |
| | Missing | 16 | 10.5 |
| | | | |
| Medication costs | | | |
| | All the time | 19 | 12.4 |
| | Most of the time | 17 | 11.1 |
| | Some of the time | 18 | 11.8 |
| | A little of the time | 17 | 11.1 |
| | None of the time | 64 | 41.8 |
| | Missing | 18 | 11.8 |
| | | | |
| Family medication costs | | | |
| | All the time | 20 | 13.1 |
| | Most of the time | 11 | 7.2 |
| | Some of the time | 9 | 5.9 |
| | A little of the time | 15 | 9.8 |
| | None of the time | 76 | 49.7 |
| | Missing | 22 | 14.4 |
| | | | |
| Family care in emergency | | | |
| | All the time | 30 | 19.6 |
| | Most of the time | 15 | 9.8 |
| | Some of the time | 25 | 16.3 |
| | A little of the time | 16 | 10.5 |

Somerset County 2014 Needs Assessment

| | | | |
|--|----------------------|----|------|
| | None of the time | 45 | 29.4 |
| | Missing | 22 | 14.4 |
| | | | |
| Job security | | | |
| | All the time | 33 | 21.6 |
| | Most of the time | 12 | 7.8 |
| | Some of the time | 14 | 9.2 |
| | A little of the time | 14 | 9.2 |
| | None of the time | 57 | 37.3 |
| | Missing | 23 | 15 |
| | | | |
| Cost of healthcare prevented services | | | |
| | All the time | 22 | 14.4 |
| | Most of the time | 10 | 6.5 |
| | Some of the time | 19 | 12.4 |
| | A little of the time | 13 | 8.5 |
| | None of the time | 73 | 47.7 |
| | Missing | 16 | 10.5 |
| | | | |
| Cost of dental care prevented services | | | |
| | All the time | 34 | 22.2 |
| | Most of the time | 11 | 7.2 |
| | Some of the time | 19 | 12.4 |
| | A little of the time | 13 | 8.5 |
| | None of the time | 62 | 40.5 |
| | Missing | 14 | 9.2 |
| | | | |
| Cost of healthcare for family member | | | |
| | All the time | 20 | 13.1 |
| | Most of the time | 6 | 3.9 |
| | Some of the time | 15 | 9.8 |
| | A little of the time | 14 | 9.2 |
| | None of the time | 79 | 51.6 |
| | Missing | 19 | 12.4 |
| | | | |
| Cost of dental care for family member | | | |
| | All the time | 25 | 16.3 |
| | Most of the time | 4 | 2.6 |
| | Some of the time | 11 | 7.2 |
| | A little of the time | 18 | 11.8 |
| | None of the time | 77 | 50.3 |
| | Missing | 18 | 11.8 |
| | | | |
| Cost of medications for self | | | |

Somerset County 2014 Needs Assessment

| | | | |
|---------------------------------------|----------------------|----|------|
| | All the time | 21 | 13.7 |
| | Most of the time | 8 | 5.2 |
| | Some of the time | 13 | 8.5 |
| | A little of the time | 15 | 9.8 |
| | None of the time | 81 | 52.9 |
| | Missing | 15 | 9.8 |
| | | | |
| Cost of medications for family member | | | |
| | All the time | 16 | 10.5 |
| | Most of the time | 7 | 4.6 |
| | Some of the time | 12 | 7.8 |
| | A little of the time | 16 | 10.5 |
| | None of the time | 80 | 52.3 |
| | Missing | 22 | 14.4 |
| | | | |

Somerset County 2014 Needs Assessment

Table 15. Health Information Seeking Sources

| | # | % |
|---------------------|-------------------|------|
| Brochures | 30 | 19.6 |
| Newspapers | 17 | 11.1 |
| Health Magazines | 18 | 11.8 |
| Television | 34 | 22.2 |
| Classes | 5 | 3.3 |
| Videos | 4 | 2.6 |
| Internet | 50 | 32.7 |
| Healthcare provider | 73 | 47.7 |
| Family or Friend | 27 | 17.6 |
| Health Department | 20 | 13.1 |
| | | |
| Other Sources | Insurance company | 1 |
| (open answer) | School nurse | 2 |

Somerset County 2014 Needs Assessment

Table 16. Chronic disease or condition

| | # | % |
|--|----|------|
| Alcoholism/Drinking/Drug Abuse | 12 | 7.8 |
| Allergies | 41 | 26.8 |
| Anxiety | 37 | 24.2 |
| Arthritis | 29 | 19.0 |
| Asthma/Bronchitis/Emphysema | 24 | 15.7 |
| Autoimmune Disease | 1 | .7 |
| Cancer | 7 | 4.6 |
| Depression | 27 | 17.6 |
| Diabetes (Sugar) | 28 | 18.3 |
| Developmental Disabilities | - | - |
| Epilepsy/Seizures | 3 | 2.0 |
| Gastrointestinal Disease | 7 | 4.6 |
| Glaucoma | 2 | 1.3 |
| Gout | 9 | 5.9 |
| Headaches/Migraines | 35 | 22.9 |
| Heart Disease/Heart Attack/Heart Failure | 13 | 8.5 |
| High Blood Pressure | 63 | 41.2 |
| High Cholesterol | 35 | 22.9 |
| HIV/Aids | 1 | .7 |
| Kidney Disease | 5 | 3.3 |
| Mental Illness | 10 | 6.5 |
| Pain | 36 | 23.5 |
| Prostate Problems | 3 | 2.0 |
| Sexual Problems | 5 | 3.3 |
| Stress | 34 | 22.2 |
| Stroke | 6 | 3.9 |
| Thyroid Disease | 16 | 10.5 |
| Vascular Disease | 4 | 2.6 |

Somerset County 2014 Needs Assessment

Table 17. Chronic Diseases or Conditions and other Health Concerns

| | # | & |
|--|----------------------------------|------|
| Alcoholism/Drinking/Drug Abuse | 12 | 7.8 |
| Allergies | 41 | 26.8 |
| Anxiety | 37 | 24.2 |
| Arthritis | 29 | 19.0 |
| Asthma/Bronchitis/Emphysema | 24 | 15.7 |
| Autoimmune Disease | 1 | .7 |
| Cancer | 7 | 4.6 |
| Depression | 27 | 17.6 |
| Diabetes (Sugar) | 28 | 18.3 |
| Developmental Disabilities | - | - |
| Epilepsy/Seizures | 3 | 2.0 |
| Gastrointestinal Disease | 7 | 4.6 |
| Glaucoma | 2 | 1.3 |
| Gout | 9 | 5.9 |
| Headaches/Migraines | 35 | 22.9 |
| Heart Disease/Heart Attack/Heart Failure | 13 | 8.5 |
| High Blood Pressure | 63 | 41.2 |
| High Cholesterol | 35 | 22.9 |
| HIV/Aids | 1 | .7 |
| Kidney Disease | 5 | 3.3 |
| Mental Illness | 10 | 6.5 |
| Pain | 36 | 23.5 |
| Prostate Problems | 3 | 2.0 |
| Sexual Problems | 5 | 3.3 |
| Stress | 34 | 22.2 |
| Stroke | 6 | 3.9 |
| Thyroid Disease | 16 | 10.5 |
| Vascular Disease | 4 | 2.6 |
| | | |
| Health concerns | | |
| (open answer) | Back pain | 2 |
| | Blood pressure | 5 |
| | Cancer | 12 |
| | Chronic pain | 3 |
| | Diabetes | 11 |
| | Gastrointestinal issues | 2 |
| | Getting older in age/having care | 5 |
| | Heart disease | 11 |
| | Knee/hip pain | 4 |
| | Mental Health | 7 |
| | Neurological problems | 4 |
| | Respiratory disease | 4 |
| | Stress | 3 |
| | Weight management/Obesity | 17 |

Somerset County 2014 Needs Assessment

Table 18. Self-report of personal health problems and priorities

| | M (SD) | # | % |
|--|-------------------|----|------|
| Personal Health is worse than others | | | |
| | Strongly agree | 19 | 12.4 |
| | Agree | 41 | 26.8 |
| | Neutral | 44 | 28.8 |
| | Disagree | 18 | 11.8 |
| | Strongly disagree | 11 | 7.2 |
| | Missing | 20 | 13.1 |
| Available services are available to address personal needs | | | |
| | Strongly agree | 16 | 10.5 |
| | Agree | 40 | 26.1 |
| | Neutral | 41 | 26.8 |
| | Disagree | 23 | 15.0 |
| | Strongly disagree | 9 | 5.9 |
| | Missing | 24 | 15.7 |
| Health Department services are relevant to personal needs | | | |
| | Strongly agree | 16 | 10.5 |
| | Agree | 41 | 26.8 |
| | Neutral | 43 | 28.1 |
| | Disagree | 14 | 9.2 |
| | Strongly disagree | 12 | 7.8 |
| | Missing | 27 | 17.6 |
| I have access to needed programs and services | | | |
| | Strongly agree | 19 | 12.4 |
| | Agree | 44 | 28.8 |
| | Neutral | 40 | 26.1 |
| | Disagree | 15 | 9.8 |
| | Strongly disagree | 12 | 7.8 |
| | Missing | 23 | 15.0 |
| I have unique health needs | | | |
| | Strongly agree | 13 | 8.5 |
| | Agree | 20 | 13.1 |
| | Neutral | 40 | 26.1 |

Somerset County 2014 Needs Assessment

| | | | |
|-----------------------------------|-------------------|----|------|
| | Disagree | 20 | 13.1 |
| | Strongly disagree | 39 | 25.5 |
| | Missing | 21 | 13.7 |
| | | | |
| Personal Health Priorities | | | |
| | | | |
| Weight | Strongly agree | 39 | 25.5 |
| | Agree | 34 | 22.2 |
| | Neutral | 19 | 12.4 |
| | Disagree | 20 | 13.1 |
| | Strongly disagree | 20 | 13.1 |
| | Missing | 21 | 13.7 |
| | | | |
| Physical activity | | | |
| | Strongly agree | 30 | 19.6 |
| | Agree | 40 | 26.1 |
| | Neutral | 32 | 20.9 |
| | Disagree | 15 | 9.8 |
| | Strongly disagree | 14 | 9.2 |
| | Missing | 22 | 14.4 |
| | | | |
| Cardiovascular disease | | | |
| | Strongly agree | 24 | 15.7 |
| | Agree | 23 | 15.0 |
| | Neutral | 26 | 17.0 |
| | Disagree | 25 | 16.3 |
| | Strongly disagree | 31 | 20.3 |
| | Missing | 24 | 15.7 |
| | | | |
| Eating Properly | | | |
| | Strongly agree | 29 | 19.0 |
| | Agree | 35 | 22.9 |
| | Neutral | 31 | 20.3 |
| | Disagree | 13 | 8.5 |
| | Strongly disagree | 23 | 15.0 |
| | Missing | 22 | 14.4 |
| | | | |
| Sexual and Reproductive Health | | | |
| | Strongly agree | 17 | 11.1 |
| | Agree | 22 | 14.4 |

Somerset County 2014 Needs Assessment

| | | | |
|---|-------------------|----|------|
| | Neutral | 29 | 19.0 |
| | Disagree | 21 | 13.7 |
| | Strongly disagree | 38 | 24.8 |
| | Missing | 26 | 17.0 |
| | | | |
| Mental Health | | | |
| | Strongly agree | 19 | 12.4 |
| | Agree | 26 | 17.0 |
| | Neutral | 29 | 19.0 |
| | Disagree | 16 | 10.5 |
| | Strongly disagree | 38 | 24.8 |
| | Missing | 25 | 16.3 |
| | | | |
| Drug Use/Abuse | | | |
| | Strongly agree | 13 | 8.5 |
| | Agree | 15 | 9.8 |
| | Neutral | 25 | 16.3 |
| | Disagree | 20 | 13.1 |
| | Strongly disagree | 55 | 35.9 |
| | Missing | 25 | 16.3 |
| | | | |
| Oral Health | | | |
| | Strongly agree | 23 | 15.0 |
| | Agree | 28 | 18.3 |
| | Neutral | 26 | 17.0 |
| | Disagree | 19 | 12.4 |
| | Strongly disagree | 31 | 20.3 |
| | Missing | 26 | 17.0 |
| | | | |
| Cancer Prevention/ Treatment | | | |
| | Strongly agree | 14 | 9.2 |
| | Agree | 26 | 17.0 |
| | Neutral | 25 | 16.3 |
| | Disagree | 19 | 12.4 |
| | Strongly disagree | 42 | 27.5 |
| | Missing | 27 | 17.6 |
| | | | |
| Sexually Transmitted Diseases/Infection | | | |
| | Strongly agree | 14 | 9.2 |

Somerset County 2014 Needs Assessment

| | | | |
|---|-------------------|----|------|
| | Agree | 13 | 8.5 |
| | Neutral | 23 | 15.0 |
| | Disagree | 21 | 13.7 |
| | Strongly disagree | 50 | 32.7 |
| | Missing | 32 | 20.9 |
| | | | |
| Injuries | | | |
| | Strongly agree | 12 | 7.8 |
| | Agree | 27 | 17.6 |
| | Neutral | 32 | 20.9 |
| | Disagree | 17 | 11.1 |
| | Strongly disagree | 39 | 25.5 |
| | Missing | 26 | 17.0 |
| | | | |
| Smoking Cessation | | | |
| | Strongly agree | 20 | 13.1 |
| | Agree | 17 | 11.1 |
| | Neutral | 20 | 13.1 |
| | Disagree | 22 | 14.4 |
| | Strongly disagree | 48 | 31.4 |
| | Missing | 26 | 17.0 |
| | | | |
| Asthma/Respiratory Problems | | | |
| | Strongly agree | 16 | 10.5 |
| | Agree | 21 | 13.7 |
| | Neutral | 27 | 17.6 |
| | Disagree | 25 | 16.3 |
| | Strongly disagree | 40 | 26.1 |
| | Missing | 24 | 15.7 |
| | | | |
| Personal Barriers to Obtaining Health Care | | | |
| | | | |
| Transportation | | | |
| | Strongly agree | 25 | 16.3 |
| | Agree | 21 | 13.7 |
| | Neutral | 24 | 15.7 |
| | Disagree | 16 | 10.5 |
| | Strongly disagree | 44 | 28.8 |
| | Missing | 23 | 15.0 |

Somerset County 2014 Needs Assessment

| | | | |
|----------------------------------|-------------------|----|------|
| Insurance Status | | | |
| | Strongly agree | 19 | 12.4 |
| | Agree | 20 | 13.1 |
| | Neutral | 30 | 19.6 |
| | Disagree | 16 | 10.5 |
| | Strongly disagree | 42 | 27.5 |
| | Missing | 26 | 17.0 |
| Employment Challenges | | | |
| | Strongly agree | 19 | 12.4 |
| | Agree | 21 | 13.7 |
| | Neutral | 32 | 20.9 |
| | Disagree | 15 | 9.8 |
| | Strongly disagree | 40 | 26.1 |
| | Missing | 26 | 17.0 |
| Child Care | | | |
| | Strongly agree | 12 | 7.8 |
| | Agree | 18 | 11.8 |
| | Neutral | 30 | 19.6 |
| | Disagree | 15 | 9.8 |
| | Strongly disagree | 50 | 32.7 |
| | Missing | 28 | 18.3 |
| Awareness of Available Services | | | |
| | Strongly agree | 17 | 11.1 |
| | Agree | 20 | 13.1 |
| | Neutral | 31 | 20.3 |
| | Disagree | 19 | 12.4 |
| | Strongly disagree | 41 | 26.8 |
| | Missing | 25 | 16.3 |
| Mistrust of Program and Services | | | |
| | Strongly agree | 15 | 9.8 |
| | Agree | 13 | 8.5 |
| | Neutral | 37 | 24.2 |
| | Disagree | 20 | 13.1 |
| | Strongly disagree | 41 | 26.8 |

Somerset County 2014 Needs Assessment

| | | | |
|-------------------------------|--|----|------|
| | Missing | 27 | 17.6 |
| Language/Translation Concerns | | | |
| | Strongly agree | 7 | 4.6 |
| | Agree | 8 | 5.2 |
| | Neutral | 35 | 22.9 |
| | Disagree | 17 | 11.1 |
| | Strongly disagree | 60 | 39.2 |
| | Missing | 26 | 17.0 |
| Culturally Competent Programs | | | |
| | Strongly agree | 4 | 2.6 |
| | Agree | 12 | 7.8 |
| | Neutral | 39 | 25.5 |
| | Disagree | 17 | 11.1 |
| | Strongly disagree | 54 | 35.3 |
| | Missing | 27 | 17.6 |
| Other Barriers (Open text) | | | |
| | Problems getting health insurance | 2 | |
| | Accessing with without using internet, help over phone difficult | 1 | |
| | Affordable health care | 2 | |
| | Lack of programs | 2 | |
| | Long wait times | 3 | |
| | Unkind staff | 1 | |
| | Doctors who accept insurance | 1 | |
| | Finances | 3 | |
| | Race issues | 1 | |

Somerset County 2014 Needs Assessment

Table 19. Physical and mental health during past 30 days

| | | # | % |
|--------------------------------|----------------------|----|------|
| Pain prevents usual activities | | | |
| | All the time | 22 | 14.4 |
| | Most of the time | 9 | 5.9 |
| | Some of the time | 29 | 19.0 |
| | A little of the time | 15 | 9.8 |
| | None of the time | 62 | 40.5 |
| | Missing | 16 | 10.5 |
| | | | |
| Sad or Depressed | | | |
| | All the time | 13 | 8.5 |
| | Most of the time | 8 | 5.2 |
| | Some of the time | 32 | 20.9 |
| | A little of the time | 16 | 10.5 |
| | None of the time | 66 | 43.1 |
| | Missing | 18 | 11.8 |
| | | | |
| Worried or Tense | | | |
| | All the time | 20 | 13.1 |
| | Most of the time | 10 | 6.5 |
| | Some of the time | 29 | 19.0 |
| | A little of the time | 22 | 14.4 |
| | None of the time | 51 | 33.3 |
| | Missing | 21 | 13.7 |
| | | | |
| Healthy/Energetic | | | |
| | All the time | 13 | 8.5 |
| | Most of the time | 20 | 13.1 |
| | Some of the time | 36 | 23.5 |
| | A little of the time | 18 | 11.8 |
| | None of the time | 39 | 25.5 |
| | Missing | 27 | 17.6 |
| | | | |
| Nervous | | | |
| | All the time | 18 | 11.8 |
| | Most of the time | 6 | 3.9 |
| | Some of the time | 29 | 19.0 |
| | A little of the time | 20 | 13.1 |
| | None of the time | 57 | 37.3 |
| | Missing | 23 | 15.0 |
| | | | |

Somerset County 2014 Needs Assessment

| | | | |
|--------------------------------------|----------------------|----|------|
| Hopeless | | | |
| | All the time | 12 | 7.8 |
| | Most of the time | 5 | 3.3 |
| | Some of the time | 15 | 9.8 |
| | A little of the time | 19 | 12.4 |
| | None of the time | 78 | 51.0 |
| | Missing | 24 | 15.7 |
| | | | |
| Restless | | | |
| | All the time | 13 | 8.5 |
| | Most of the time | 8 | 5.2 |
| | Some of the time | 20 | 13.1 |
| | A little of the time | 23 | 15.0 |
| | None of the time | 67 | 43.8 |
| | Missing | 22 | 14.4 |
| | | | |
| So Depressed could not be cheered up | | | |
| | All the time | 10 | 6.5 |
| | Most of the time | 2 | 1.3 |
| | Some of the time | 15 | 9.8 |
| | A little of the time | 17 | 11.1 |
| | None of the time | 88 | 57.5 |
| | Missing | 21 | 13.7 |
| | | | |
| Everything was an effort | | | |
| | All the time | 14 | 9.2 |
| | Most of the time | 4 | 2.6 |
| | Some of the time | 14 | 9.2 |
| | A little of the time | 21 | 13.7 |
| | None of the time | 73 | 47.7 |
| | Missing | 27 | 17.6 |
| | | | |
| Worthless | | | |
| | All the time | 14 | 9.2 |
| | Most of the time | 2 | 1.3 |
| | Some of the time | 9 | 5.9 |
| | A little of the time | 15 | 9.8 |
| | None of the time | 85 | 55.6 |
| | Missing | 28 | 18.3 |
| | | | |
| | | | |

Somerset County 2014 Needs Assessment

| | | | |
|--|----------------------|----|------|
| Mental Health condition that prevents usual activities | | | |
| | All the time | 8 | 5.2 |
| | Most of the time | 4 | 2.6 |
| | Some of the time | 15 | 9.8 |
| | A little of the time | 15 | 9.8 |
| | None of the time | 90 | 58.8 |
| | Missing | 21 | 13.7 |

Somerset County 2014 Needs Assessment

Table 20. Services that respondent would be interested in if available

| | # | % | |
|--|----|------|--|
| Alcoholism/Drug Abuse Counseling | 10 | 6.5 | |
| Chronic Disease Support Groups | 13 | 8.5 | |
| Family Counseling | 23 | 15 | |
| Marriage/Couples Counseling | 16 | 10.5 | |
| Weight loss Programs | 55 | 35.9 | |
| Exercise Programs | 59 | 38.6 | |
| Financial Planning | 38 | 24.8 | |
| Healthy Eating Cooking Classes | 38 | 24.8 | |
| Mental Health Counseling | 28 | 18.3 | |
| Diabetes (Sugar) Monitoring | 32 | 20.9 | |
| Primary Care Services (Visit with nurse of doctor) | 15 | 9.8 | |
| Cancer screening and education classes | 19 | 12.4 | |
| Dental services | 59 | 38.6 | |
| Family Planning | 17 | 11.1 | |
| | | | |
| Other (open text) | | | |
| Better drug program | 3 | | |
| Dental Services | 4 | | |
| Better access to food banks | 1 | | |
| Housing assistance | 1 | | |
| Exercise | 1 | | |
| Healthy eating | 1 | | |
| Paying for health care not covered | 1 | | |
| Help for middle class citizens | 1 | | |
| Help for the needy | 1 | | |
| Housing for homeless | 1 | | |
| Lyme disease treatment | 1 | | |
| Help for caregivers | 3 | | |
| Pain management | 1 | | |
| Computer Programs | 1 | | |
| Senior Activities | 1 | | |
| Help getting to doctor appointments | 4 | | |
| Special events to raise awareness | 1 | | |
| | | | |

Somerset County 2014 Needs Assessment

Table 21. Perceptions of county health problems and priorities

| | | # | % |
|---|-------------------|----|------|
| County Health is worse than others | | | |
| | Strongly agree | 24 | 15.7 |
| | Agree | 31 | 20.3 |
| | Neutral | 48 | 31.4 |
| | Disagree | 18 | 11.8 |
| | Strongly disagree | 13 | 8.5 |
| | Missing | 19 | 12.4 |
| Available services address county needs | | | |
| | Strongly agree | 12 | 7.8 |
| | Agree | 36 | 23.5 |
| | Neutral | 46 | 30.1 |
| | Disagree | 23 | 15.0 |
| | Strongly disagree | 18 | 11.8 |
| | Missing | 18 | 11.8 |
| Health Department services are relevant to county needs | | | |
| | Strongly agree | 11 | 7.2 |
| | Agree | 40 | 26.1 |
| | Neutral | 46 | 30.1 |
| | Disagree | 21 | 13.7 |
| | Strongly disagree | 16 | 10.5 |
| | Missing | 19 | 12.4 |
| Residents have access to needed programs and services | | | |
| | Strongly agree | 12 | 7.8 |
| | Agree | 36 | 23.5 |
| | Neutral | 47 | 30.7 |
| | Disagree | 17 | 11.1 |
| | Strongly disagree | 19 | 12.4 |
| | Missing | 22 | 14.4 |
| Somerset County has unique health needs | | | |
| | Strongly agree | 16 | 10.5 |
| | Agree | 36 | 23.5 |
| | Neutral | 58 | 37.9 |
| | Disagree | 13 | 8.5 |

Somerset County 2014 Needs Assessment

| | | | |
|---|-------------------|----|------|
| | Strongly disagree | 11 | 7.2 |
| | Missing | 19 | 12.4 |
| | | | |
| Perceptions of Somerset County Health Priorities | | | |
| | | | |
| Weight | Strongly agree | 54 | 35.3 |
| | Agree | 34 | 22.2 |
| | Neutral | 28 | 18.3 |
| | Disagree | 11 | 7.2 |
| | Strongly disagree | 9 | 5.9 |
| | Missing | 17 | 11.1 |
| | | | |
| Physical activity | | | |
| | Strongly agree | 47 | 30.7 |
| | Agree | 34 | 22.2 |
| | Neutral | 33 | 21.6 |
| | Disagree | 9 | 5.9 |
| | Strongly disagree | 10 | 6.5 |
| | Missing | 20 | 13.1 |
| | | | |
| Cardiovascular disease | | | |
| | Strongly agree | 44 | 28.8 |
| | Agree | 37 | 24.2 |
| | Neutral | 35 | 22.9 |
| | Disagree | 10 | 6.5 |
| | Strongly disagree | 8 | 5.2 |
| | Missing | 19 | 12.4 |
| | | | |
| Eating Properly | | | |
| | Strongly agree | 47 | 30.7 |
| | Agree | 31 | 20.3 |
| | Neutral | 36 | 23.5 |
| | Disagree | 9 | 5.9 |
| | Strongly disagree | 9 | 5.9 |
| | Missing | 21 | 13.7 |
| | | | |
| Sexual and Reproductive Health | | | |
| | Strongly agree | 27 | 17.6 |
| | Agree | 22 | 14.4 |
| | Neutral | 57 | 37.3 |

Somerset County 2014 Needs Assessment

| | | | |
|---|-------------------|----|------|
| | Disagree | 14 | 9.2 |
| | Strongly disagree | 13 | 8.5 |
| | Missing | 20 | 13.1 |
| | | | |
| Mental Health | | | |
| | Strongly agree | 35 | 22.9 |
| | Agree | 32 | 20.9 |
| | Neutral | 49 | 32.0 |
| | Disagree | 8 | 5.2 |
| | Strongly disagree | 9 | 5.9 |
| | Missing | 20 | 13.1 |
| | | | |
| Drug Use/Abuse | | | |
| | Strongly agree | 55 | 35.9 |
| | Agree | 23 | 15.0 |
| | Neutral | 37 | 24.2 |
| | Disagree | 10 | 6.5 |
| | Strongly disagree | 8 | 5.2 |
| | Missing | 20 | 13.1 |
| | | | |
| Oral Health | | | |
| | Strongly agree | 42 | 27.5 |
| | Agree | 30 | 19.6 |
| | Neutral | 40 | 26.1 |
| | Disagree | 10 | 6.5 |
| | Strongly disagree | 10 | 6.5 |
| | Missing | 21 | 13.8 |
| | | | |
| Cancer Prevention/ Treatment | | | |
| | Strongly agree | 37 | 24.2 |
| | Agree | 35 | 22.9 |
| | Neutral | 41 | 26.8 |
| | Disagree | 9 | 5.9 |
| | Strongly disagree | 10 | 6.5 |
| | Missing | 21 | 13.7 |
| | | | |
| Sexually Transmitted Diseases/Infection | | | |
| | Strongly agree | 35 | 22.9 |
| | Agree | 29 | 19.0 |

Somerset County 2014 Needs Assessment

| | | | |
|---|-------------------|----|------|
| | Neutral | 51 | 33.3 |
| | Disagree | 11 | 7.2 |
| | Strongly disagree | 7 | 4.6 |
| | Missing | 20 | 13.1 |
| Injuries | | | |
| | Strongly agree | 29 | 19.0 |
| | Agree | 35 | 22.9 |
| | Neutral | 50 | 32.7 |
| | Disagree | 10 | 6.5 |
| | Strongly disagree | 8 | 5.2 |
| | Missing | 21 | 13.7 |
| Smoking Cessation | | | |
| | Strongly agree | 45 | 29.4 |
| | Agree | 29 | 19.0 |
| | Neutral | 41 | 26.8 |
| | Disagree | 8 | 5.2 |
| | Strongly disagree | 9 | 5.9 |
| | Missing | 21 | 13.7 |
| Asthma/Respiratory Problems | | | |
| | Strongly agree | 31 | 20.3 |
| | Agree | 35 | 22.9 |
| | Neutral | 46 | 30.1 |
| | Disagree | 9 | 5.9 |
| | Strongly disagree | 11 | 7.2 |
| | Missing | 21 | 13.7 |
| Perceptions of Somerset County Barriers to Obtaining Health Care | | | |
| Transportation | | | |
| | Strongly agree | 46 | 30.1 |
| | Agree | 37 | 24.2 |
| | Neutral | 32 | 20.9 |
| | Disagree | 7 | 4.6 |
| | Strongly disagree | 11 | 7.2 |
| | Missing | 20 | 13.1 |

Somerset County 2014 Needs Assessment

| | | | |
|---------------------------------|-------------------|----|------|
| Insurance Status | | | |
| | Strongly agree | 41 | 26.8 |
| | Agree | 39 | 25.5 |
| | Neutral | 34 | 22.2 |
| | Disagree | 6 | 3.9 |
| | Strongly disagree | 14 | 9.2 |
| | Missing | 19 | 12.4 |
| | | | |
| Employment Challenges | | | |
| | Strongly agree | 42 | 27.5 |
| | Agree | 39 | 25.5 |
| | Neutral | 36 | 23.5 |
| | Disagree | 5 | 3.3 |
| | Strongly disagree | 12 | 7.8 |
| | Missing | 19 | 12.5 |
| | | | |
| Child Care | | | |
| | Strongly agree | 36 | 23.5 |
| | Agree | 35 | 22.9 |
| | Neutral | 40 | 26.1 |
| | Disagree | 6 | 3.9 |
| | Strongly disagree | 16 | 10.5 |
| | Missing | 20 | 13.1 |
| | | | |
| Awareness of Available Services | | | |
| | Strongly agree | 34 | 22.2 |
| | Agree | 36 | 23.5 |
| | Neutral | 41 | 26.8 |
| | Disagree | 11 | 7.2 |
| | Strongly disagree | 12 | 7.8 |

Somerset County 2014 Needs Assessment

| | | | |
|----------------------------------|-------------------|----|------|
| | Missing | 19 | 12.4 |
| | | | |
| Mistrust of Program and Services | | | |
| | Strongly agree | 32 | 20.9 |
| | Agree | 25 | 16.3 |
| | Neutral | 51 | 33.3 |
| | Disagree | 8 | 5.2 |
| | Strongly disagree | 18 | 11.8 |
| | Missing | 19 | 12.4 |
| | | | |
| Language/Translation Concerns | | | |
| | Strongly agree | 19 | 12.4 |
| | Agree | 28 | 18.3 |
| | Neutral | 58 | 37.9 |
| | Disagree | 14 | 9.2 |
| | Strongly disagree | 15 | 9.8 |
| | Missing | 19 | 12.4 |
| | | | |
| Culturally Competent Programs | | | |
| | Strongly agree | 18 | 11.8 |
| | Agree | 30 | 19.6 |
| | Neutral | 57 | 37.3 |
| | Disagree | 11 | 7.2 |
| | Strongly disagree | 18 | 11.8 |
| | Missing | 19 | 12.4 |

Somerset County 2014 Needs Assessment

Table 22. Awareness of Somerset County community engagement

| | | # | % |
|--|------------------------|--|--|
| Do you think that other organizations in the community try to help you be a healthier person? | | | |
| | Yes | 7 | 4.6 |
| | No | 78 | 51.0 |
| | DK | 53 | 34.6 |
| | Missing | 14 | 9.2 |
| | | | |
| Community Programs Listed | | Organization had Health-related events | Organization likely to have health-related event |
| General | | | |
| | Churches | 7 | 4 |
| | Grocery Stores | | 1 |
| | | | |
| | | | |
| Specific | | | |
| | SC Health Department | 10 | 5 |
| | Health Matters | | |
| | Church of God | 1 | |
| | Crisfield Clinic | 1 | 2 |
| | Crossroads Church | 1 | |
| | Go-getters | 2 | 2 |
| | Hospital | | |
| | Mccready Foundation | 6 | |
| | Masons | 1 | 1 |
| | Recreation and Parks | 1 | |
| | Relay for Life | 2 | 2 |
| | Pharmacy (Rite Aid) | | |
| | TLC | 1 | 1 |
| | Women Supporting Women | 1 | 2 |
| | Schools (SCPS) | 2 | 1 |
| | Physician | 2 | |
| | UMES | 1 | |
| | Red Cross | | 1 |

Table 23. Race and Health Care

| | # | % | |
|--|-----|------|--|
| Within the last 12 months, when seeking health care, do you feel your experiences were worse than, the same as, or better than for people of other races? | | | |
| Yes | 16 | 10.5 | |
| No | 112 | 73.2 | |
| DK | 10 | 6.5 | |
| Missing | 15 | 9.8 | |
| Within the past 30 days have you felt upset (physically or emotionally), as a result of how you were treated based on your race? | | | |
| Yes | 25 | 16.3 | |
| No | 109 | 71.2 | |
| DK | 5 | 3.3 | |
| Missing | 14 | 9.2 | |
| Do you feel that your race is represented among the community organizations that exist in the county? | | | |
| Yes | 67 | 43.8 | |
| No | 53 | 34.6 | |
| DK | 20 | 13.1 | |
| Missing | 13 | 8.5 | |
| Would having more health care providers of your race make you feel more comfortable sharing information? | | | |
| Yes | 31 | 20.3 | |
| No | 80 | 52.3 | |
| DK | 28 | 18.3 | |
| Missing | 14 | 9.2 | |

Table 24. Incarceration and Reentry

| | | # | % |
|--|----------------|-----|------|
| Have you or anyone in your household been incarcerated or arrested in the past 7 years? | | | |
| | Yes | 25 | 16.3 |
| | No | 116 | 75.8 |
| | Missing | 12 | 7.8 |
| Will someone be returning home from prison to your household in the next 5 years? | | | |
| | Yes | 7 | 4.6 |
| | No | 134 | 87.6 |
| | Missing | 12 | 7.8 |
| Has an arrest record or felony prevented you from gainful employment? | | | |
| | Yes | 6 | 3.9 |
| | No | 130 | 85.0 |
| | Missing | 17 | 11.1 |
| Has an arrest record or felony prevented you from obtaining other basic necessities? (housing, training) | | | |
| | Yes | 5 | 3.3 |
| | No | 133 | 86.9 |
| | Missing | 15 | 9.8 |
| Are you aware of any services available to help you or a loved one reenter the community in an effective way? | | | |
| | Yes | 14 | |
| | No | 122 | |
| | Missing | 17 | |

APPENDIX 2. Bivariate Analyses

Table 25. Bivariate Analyses: BMI status on perceptions of healthy weight

| BMI Category | | | | | |
|------------------------------|-------------|------------|------------|------------|-----------------------------|
| Perception of Healthy Weight | Underweight | Normal | Overweight | Obese | |
| Yes | 5 (55.6%) | 26 (86.7%) | 23 (65.7%) | 10 (19.2%) | |
| No | 4 (44.4) | 4 (13.3%) | 11 (31.4%) | 42 (80.8%) | |
| | 9 (7.1%) | 30 (23.8%) | 35 (27.8%) | 52 (41.3%) | |
| | | | | | * $X^2 = 42.95$, p<.001 |

Table 26. Bivariate Analyses: General Health Status by Income

| Income Category n (%) | Excellent | Very Good | Good | Fair | Poor | |
|-----------------------|-----------|-----------|-----------|----------|---------|---------------------------|
| <\$5,000-9,999 | 3 (7.1) | 9 (21.4) | 9 (21.4) | 13 (31) | 8 (19) | |
| \$10,000-\$24,999 | 3 (8.6) | 6 (17.1) | 15 (42.9) | 8 (22.9) | 3 (8.6) | |
| \$25,000-\$49,999 | 4 (13.8) | 7 (24.1) | 14 (48.3) | 4 (13.8) | 0 | |
| \$50,000-\$100,000+ | 3 (9.4) | 14 (43.8) | 13 (40.6) | 1 | 0 | |
| | | | | | | * $X^2 = 33.143$ p<.01 |

Table 27. Bivariate Analyses: General Health Status by Race

| Race Category n (%) | Excellent | Very Good | Good | Fair | Poor | |
|---------------------|-----------|-----------|-----------|-----------|---------|---------------------------|
| White/CA | 7 (8) | 21 (23.9) | 36 (40.9) | 17 (19.3) | 7 (8) | |
| Black/AA | 6 (12.8) | 14 (29.8) | 15 (31.9) | 9 (19.1) | 2 (4.3) | |
| American Indian/AN | 0 (0) | 1 (25) | 1 (25) | 0 (0) | 2 (50) | |
| | | | | | | $X^2 = 14.86$ p>.05 NS |

Table 28. Bivariate Analyses: Income by Race

| Race Category n (%) | <\$5,000-9,999 | \$10,000-\$24,999 | \$25,000-\$49,999 | \$50,000-\$100,000+ | |
|---------------------|----------------|-------------------|-------------------|---------------------|--------------------------|
| White/CA | 21 (23.9) | 20 (22.7) | 19 (21.6) | 28 (31.8) | |
| Black/AA | 21 (45.7) | 12 (26.1) | 9 (19.6) | 4 (8.7) | |
| American Indian/AN | 1 (25) | 2 (50) | 0 (0) | 1 (25) | |
| | | | | | * $X^2 = 13.52$ p<.05 |

The End