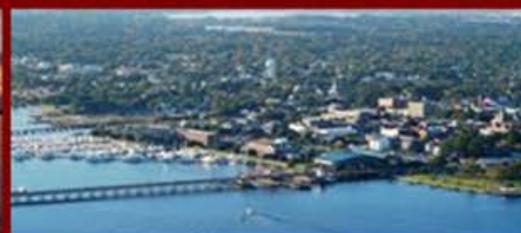


Craven County



Community Health Assessment 2011



Forward

Craven County is a dynamic community, rich in history and full of southern charm. The County is located in eastern North Carolina with its County Seat in historic New Bern, the state's colonial capital. With our moderate climate and our beautiful waterways we have become an attractive retirement location. As in most counties, a lack of public transportation is a significant factor when planning services. The population continues to become more culturally diverse with the addition of Hispanic immigrants and refugees from Asia.

Our method for surveying the population was through a statistically significant sample of households which were randomly selected to be interviewed. The information contained in this report is vitally important to the local human service providers and the medical community. The community health assessment validates issues within our community and sheds light on misconceptions. This is a tool that steers our program development for years to come.

Copies of the community health assessment will be made available through the local libraries as well as our departmental website. We would be happy to present the contents of this report in our community, for presentations please call 252-636-4969. We would also like to thank all of our community partners who assisted us with the completion of this document.

Sincerely,

Scott Harrelson, MPA
Craven County Health Director

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Introduction

The Craven County Community Health Assessment Task Force was formed in September of 2010. It consists of representatives from Head Start, Smart Start, mental health, City of New Bern, MCAS Cherry Point, Economic Development, Cooperative Extension, state health consultants, industry, local hospital, free clinic, Department of Social Services, news media, law enforcement, PHRST-1, Craven Community College, East Carolina Council on Government, Religious Community Services, Literacy Council, and the Craven County Health Department.

Our first meeting was September 8, 2010 where the concept of the Community Health Assessment was described by Jean Caldwell, the Healthy Carolinians Northeastern Regional Consultant and the survey methodology was described by Debra Yarbrough, Craven County Health Department Preparedness Coordinator / Environmental Health Program Specialist.

The Task Force developed the survey tool over the course of five months using the 2009 Healthy Carolinians template as a guide. We added a section to survey public health emergency preparedness and several questions to address local issues.

We chose to utilize two methodologies to collect the surveys.

- The survey was placed on the Craven County Website using SurveyMonkey and promoted throughout the county for voluntary completion. 191 participants completed the survey between April and August 2011. Although this did not receive enough responses, the results have been analyzed using the SurveyMonkey software.
- The survey was administered using the CASPAR method on May 24 – 26, 2011. 210 surveys were completed by volunteers and staff on hand-held computers. The results were analyzed using Epi Info.

We used our ICS structure and identified an Incident Command Team for the planning and implementation of the CASPAR methodology. Seven teams of two persons each were provided just-in-time training to use the handheld computer. We used the county's automobiles to avoid paying the cost of personal mileage and we also used county cell phones for communication. A packet of materials including laminated copies of the survey in English and Spanish, pens, pencils, a highlighter and a clipboard was prepared for each team of two. Food and water were provided for each day. The Health Department purchased bags with our logo on them and filled with a hand wipe gel, hand soap sheets, a nail brush and literature to give out to survey participants as an incentive.

Ric Evans, Environmental Health Supervisor II and Sol Wuensch, GIS Specialist, learned the methodology to select the 210 addresses for a statistically-significant rapid needs assessment. They loaded the addresses, survey, and maps on hand-held computers already owned and used by the Environmental Health Section. After the just-in-time training, the safety officer of our command center gave the group a briefing and reminded them to stay hydrated and avoid unsafe situations. She reviewed contact numbers, command structure and times to check in. The seven teams were then served lunch and left to go out into the field until 7:00 pm that evening.

All seven teams were sent into the field the next day, but only two teams were needed for the third day. Each day as teams returned, we served food and drinks and debriefed the team members as they relaxed. Each team turned in their PDAs and other equipment.

Teresa Ellen, RN, MPH and Ric Evans then analyzed and interpreted the survey results. A report was written and these results are included in the document that follows this explanation of the assessment process.

Next, secondary health data from the North Carolina State Center for Health Statistics was gathered and compared to the results of the primary data collected. Both sets of data were put into a power point presentation and presented to the Craven County Board of Health and the Craven Pamlico Healthy Carolinians Task Force. Based on both sets of data, the groups were asked to prioritize the health issues to be addressed by the Craven County Health Department and partners for the next three to four years. Because the hospital will begin regularly conducting Community Health Assessments, we plan to adjust our schedule to share this task.

The report that follows is a compilation of the county history, demographic profile, primary data, secondary data, trend data, existing and needed health resources, at risk population groups, and the resulting health priorities.

About Craven County

Historical Information

In 1660 King Charles II issued the "Carolina Charter" granting eight of his supporters the title of "Lord Proprietor" over large areas of land claimed by England in the New World. The area from Virginia to the Spanish border of Florida and as far west as was known at that time, was named Carolina after the king himself (Carolus, the Latin word for Charles). The original Lord Proprietor of Carolina was William, Earl of Craven for which Craven County was named.

The original inhabitants of Craven County were the Tuscarora Indians. The first settlement in Craven County was the city of New Bern that now serves as the county seat. New Bern was founded in 1710 by Baron Christopher de Graffenried with Swiss and German colonists and is the second oldest town in North Carolina. New Bern is located at the junction of the Neuse and Trent rivers. In 1765 Royal Governor William Tryon established New Bern as the first capital of the colony of North Carolina. In 1770, the first governor's residence was constructed. It was named Tryon Palace after the first colonial governor, William Tryon. New Bern remained the center of political power until 1794 when a growing population in the center of the state necessitated the capital be moved to a more centrally located Raleigh, NC.

New Bern continued to prosper as a port, exporting pitch, tar, lumber, and agricultural products. The city became a railroad center during the middle of the nineteenth century, because the advent of larger boats made the river less navigable. After the end of the Civil War, New Bern and Craven County again prospered as a lumber center, using local forests of pine, cypress, oak, and other hardwoods. By 1915, more than 16 lumber mills were operating in and around the county.

During three centuries, New Bern and Craven County have contributed to the history of the state and nation. The first printing press in the American colony was established in New Bern, and in 1741, the first colonial newspaper, pamphlet and book were printed there. In 1791, President George Washington visited New Bern spending two nights there while on a southern tour. New Bern was also the first city to celebrate Washington's Birthday.

Craven County is home to many battle sites from the Civil War. In the aftermath of the Civil War, medical student Caleb Bradham was forced to return to New Bern and work after his parents' business failed, and he could no longer afford school. He eventually became a

pharmacist, and created a tasty beverage known locally as “Brad’s Drink”. The beverage became so popular that he patented it in 1898 under the name Pepsi-Cola.

Today Craven County continues to grow and prosper, with a rich cultural past and a proud history. Many beautiful old homes and other historical buildings can still be seen as one travels around the county.

Geographical Information

Craven County is located in The Coastal Plains section of North Carolina at the confluence of the Neuse and Trent Rivers. It is situated approximately halfway between New York and Florida. According to the 2010 census data, Craven County covers 708.43 square miles of land area. The Coastal Plains section of North Carolina is characterized by flat land to gently rolling hills; however Craven County is essentially topographically flat. The average elevation for Craven County is 17.5 ft. above sea level. Craven County is comprised of 157,000 acres of forest, mostly pine, that support pulp manufacturing and other forest related industries. The leading crops of this area are cotton, soybeans, corn for grain, tobacco, hay, and wheat.

The climate of Craven County changes little from year to year. The summers are generally sunny and hot, the winters are mild, and snow is rare. The area’s average temperatures and rainfall are as follows (New Bern Chamber of Commerce, 2011)

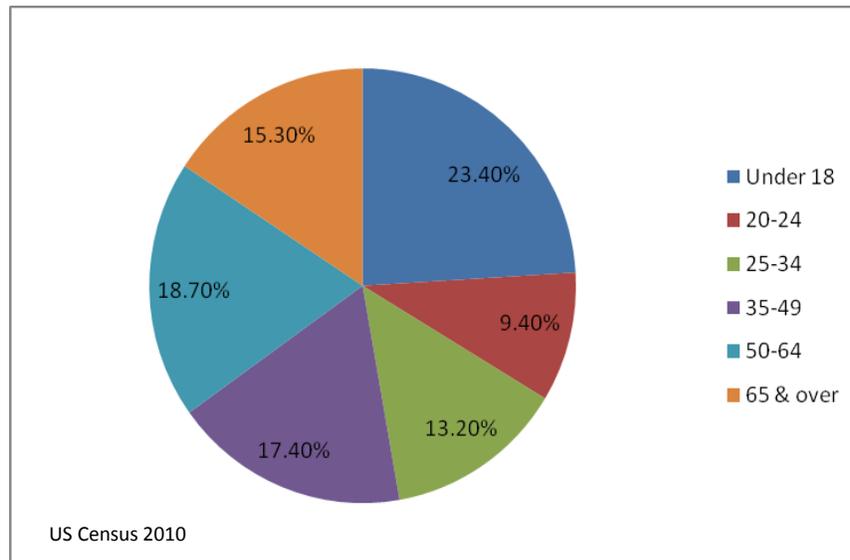
Average Annual Temperature	62° F
Average High Temperature	72.9° F
Average Low Temperature	52° F
Average Annual Precipitation	52.85"

Demographic Information

According to the US Census Bureau the 2010 population of Craven County is 103,505. The population has increased 13.2% since the 2000 census. Craven County is largely rural with no major metropolitan areas. It is comprised of two cities (New Bern and Havelock) and six other incorporated towns (Vanceboro, Bridgeton, Cove City, Riverbend, Trent Woods and Dover). New Bern is the county seat. The population for these cities and towns can be broken down as follows:

New Bern	29,524	28.5%
Havelock	20,735	20.0%
Trent Woods	4,008	3.9%
River Bend	3,088	3.0%
Vanceboro	867	0.8%
Cove City	604	0.6%
Bridgeton	373	0.4%
Dover	412	0.4%

The following pie chart illustrates the Craven County population by age:



Craven County has 45,002 housing units with 39,768 households. There are on average 2.28 persons per household and the average home ownership rate is 63.7%.

The following table outlines the racial composition of Craven County:

Racial Composition of Craven County

Race	Percent
White	70.0%
African American	22.4%
Hispanic or Latino	6.1%
Asian	2.0%
American Indian	0.5%
Hawaiian/Pacific Islander	0.1%
Two or More Races	2.7%

(US Census, 2010)

Socioeconomic Information

The median household income in Craven County is \$41,021 and the percentage of persons living below poverty is 16.1%. The poverty percentage is up from 13.7% in 2004. The poverty level for the state of NC is 16.2% and for the USA 14.3% (US Census Bureau 2010).

Craven County has a total work force of 38,437, which is 37% of the total population. The unemployment rate as of the first quarter of 2011 is 9.7%. Unemployment has increased 5 percent since our 2007 assessment. The table below provides a list of the major employers in Craven County (*NC Department of Commerce, 2011*).

Major Employers in Craven County	
Department of Defense	1000+
Craven County Schools	1000+
CarolinaEast Medical Center	1000+
BSH Home Appliances	500-999
Wal-Mart Associates, Inc.	500-999
Cherry Pt. MCCS	500-999
Craven County	500-999
Moen Incorporated	500-999
Craven Community College	500-999
City of New Bern	250-499

Health Insurance

According to the 2010 Behavioral Risk Factor Surveillance Survey 23% of respondents in the eastern N.C. region report they are uninsured. The table below reveals data from the Cecil G. Sheps Center for Health Services Research, UNC from 2007 and 2009. This data shows the rate of uninsured for Craven County per 100,000 persons and compares it to peer counties of similar size and composition as well as to the state of NC.

Year	Indicator Raw Values			Indicator Rate		
	Craven County	Peer Avg.	State	Craven County	Peer	State
2007	14,815	15,553	1,523,000	17.9	19.6	18.9
2009	16,200	16,352	1,608,000	19.6	20.6	19.7

Peer Counties: Alamance, Harnett, Lee, and Person

This rate increased from 2007 to 2009. As our economy has continued to decline and unemployment continues to raise it is projected these numbers will escalate.

Education

The education system in Craven County includes elementary, secondary, and post-secondary schools. The county offers public school and private school options for children through eighth grade. The public school system is comprised of 24 schools serving 14,733 students. There are sixteen elementary schools, five middle schools and three high schools. The school system offers special programs for gifted students as well as students with emotional or mental handicaps. Each school is staffed with a registered nurse and full-time counselors. The ethnic distribution is 55% white, 31% black, and 0.3% American Indian, 2.6% Asian, 5.0% Hispanic, and 4.5% Multi-Racial. Enrollment in the elementary and middle school is approximately 10,340 students and the teacher to student ratio is one to 26. Enrollment in the high schools is approximately 4332 students and the teacher to student ratio is one to 29. The graduation rate for all the students in Craven County who begin ninth grade is 76.2%. The graduation rate for the state of NC is 72.8% and the national graduation rate is 71.7%. For the first time North Carolina's graduation rate has moved above the national average.

The private school system includes St. Paul's Education Center that is located in New Bern and serves students from pre-K through eighth grade, Annunciation Catholic School in Havelock has grades K – 8, Liberty Christian School in Havelock grades K-8, Calvary Christian School in New Bern grades pre-K through twelve, and Epiphany School in New Bern grades 5-12. Another option for county residents is to send their children to Arendell Parrot Academy. The Academy offers instruction to children from pre-K through twelfth grade. However it is located outside the county in nearby Kinston, North Carolina, a forty-five minute commute each way. Post- Secondary education includes a community college and a Bachelor degree option from the satellite of nearby four-year. Craven Community College is located in New Bern and has a campus in Havelock. The College offers associate's degrees, diplomas and certificates in many areas and serves more than 14,000 students each year. In partnership with other state universities they also offer bachelor degree options. One four-year degree college option is Mount Olive College at New Bern. This satellite campus has been in New Bern for 14 years. Additional post-secondary options located in nearby cities outside of the county include East Carolina University, Lenoir Community College, Carteret Community College and Pamlico Community College.

Crime

In Craven County the crime rate has changed very little over the last five years. Our index or overall crime rate for 2010 was 4,497.6 per 100,000 persons. The NC state rate was 3,955.7 per 100,000 persons. Property was the largest group of crimes reported with burglary ranking second. The table below illustrates the crime rates in Craven County per 100,000 persons for various offenses over the last five years.

Year	Index Rate	Violent Rate	Property Rate	Murder Rate	Rape Rate	Robbery Rate	Assault Rate	Burglary Rate	Larceny Rate	MVT Rate	Arson Rate
2006	4,175.7	400.0	3,775.7	5	29	90	241	509		203	2
2007	4,598.0	392.7	4,205.3	3	21	79	261	413		163	3
2008	2,854.1	232.7	2,621.4	1	4	47	173	379		108	4
2009	3,665.0	229.7	3,435.3	3	22	26	164	509	533	120	4
2010	4,497.6	336.5	4,161.2	4	25	41	251	749	637	140	4

(NC State Bureau of Investigation)

Faith Community

There are over 300 churches in Craven County. Early North Carolina settlers brought their faiths with them and contributed immeasurably to the civilization of the Craven County area. Craven County has always been a haven for religious freedom and almost all religious denominations are represented. The Catholic Church is the earliest church recorded in NC and one of the earliest synagogues in the south is located in New Bern and is still practicing.

The faith community has become a very important tool in Craven County for the dissemination of health care related information. Many of our churches have sponsored or participated in health fairs, screenings and a host of other health promotion activities. This is an especially important venue for the African American community. Some of the larger churches have established their own nurse parish programs to assist their parishioners when they are ill.

Recreation

Craven County is located in the Coastal Plains section of North Carolina at the confluence of the Neuse and Trent Rivers. The easy access to the water, the terrain, as well as the temperate climate lends itself to a plethora of outdoor recreation including sailing, boating, fishing, hunting, golf, and a host of other activities.

With over 150 historic landmarks, a magnificent palace and gardens, two adjoining beautiful rivers, 157,000-acre national forest, a variety of cultural, and educational attractions, Craven County offers just about anyone a place for recreation, education, and enjoyment.

In Craven County we have over 20 parks and recreation centers. In addition there are at least five health clubs. Craven County has seven walking trails located throughout the county and many of the schools have walking trails.

The County has nine 18-hole golf courses that offer varying degrees of difficulty for golfers of all levels to enjoy.

Air and Water Quality

Craven County's Air quality is considered to be very good. We have very few Title V facilities emitting pollutants. The climate is generally very humid and the abundance of flora and fauna can sometimes make breathing difficult for asthmatics and those with allergies.

The water quality of the county is also considered good as the North Carolina Division of Water Quality performs regular coliform counts in the Neuse River that are all within normal limits. The local Health Department's division of environmental health is responsible for monitoring the private wells and septic systems that exist in the county. There are four public water systems in Craven County (Craven County water system, City of New Bern water system, City of Havelock water system and the First Sanitary District water system), and there are many existing private wells. We have many different types of septic systems used in the county and the most prominent of these are the conventional system with shallow placement and the gravity fill system. The City of New Bern and The City of Havelock both have public sewage systems. The City of New Bern also provides public sewage to many county residents.

Transportation

There is no major interstate that runs through Craven County. Highway 70 serves as the main corridor through the county and runs east to the Atlantic coast and west toward Raleigh, the state capital, and to Interstates 95 and 40. Highways 17, 55 and 43 are the other highways located within the county.

Air travel for the county is provided by Coastal Carolina Regional Airport. US Airways and United airlines offers daily flights to Charlotte, NC and Delta offers daily flights to Atlanta, GA for connecting air travel. Federal Express, UPS and Airborne Express provide airfreight services.

Southern Railway provides freight train services in the county. No passenger train service is available but can be accessed in Wilson, NC about a 1.5 hour drive away. Trailways provides bus services from a station located in New Bern; however there is no city or county bus service available.

Craven Area Regional Transit Services (CARTS) provides limited van routes for low income patients. They provide a fixed route to local medical and social services facilities.

Existing Health Care Resources

Craven County is lucky to have many health care resources available in the community. Below you will find a listing and brief description of most of those facilities.

CarolinaEast Medical Center

CarolinaEast Medical Center is a 350 bed, full-service acute care facility with comprehensive inpatient services. The medical center offers medical/surgical, neurosurgical care, intensive and intermediate care, cardiac care, women's care, pediatric care and cancer care. Adult psychiatric care is available for inpatients on a private unit and for outpatients through its partial hospitalization program. The Medical Center has a rehabilitation unit with 20 inpatient rehab beds that is recognized as one of the state's outstanding facilities. The Medical Center offers state-of-the-art treatment, diagnostic and therapeutic services. Emergency care is available seven days a week, 24 hours a day. The hospital specializes in cardiac care, with the area's most advanced services for diagnosing and treating heart disease including interventional cardiology and open-heart surgery. The medical center has an accredited cancer care program. There are 250 physicians and more than 2100 professional and support staff.

The Medical Center has two freestanding centers for outpatient care. Craven Diagnostic Center provides radiography, CT scanning, stereo tactic mammography and bone densitometry. Craven Surgery Center is a new, state-of-the-art complex built to meet the demand for outpatient surgical technology. Craven Heart Care is the name given to the comprehensive cardiac services including surgery provided by Craven Health Care.

The Medical Center also has a free standing Home Health agency that offers skilled nursing, physical therapy, speech therapy, nutrition therapy, social work, aides and psychiatric nursing to home bound patients.

Craven County Health Department

The Craven County health department provides the following health care services for adults:

- Communicable Disease detection and surveillance
- Family Planning Clinic
- Maternity Clinic and Maternity Care Coordination
- Immunizations
- Refugee physicals
- Breast and Cervical Cancer Control Program
- Adult Primary Care
- Home assessments for adults with an asthma diagnosis and/or a diagnosis where the housing condition could be affecting the patient's health

Complete child health services to children from birth to age 19 include:

- Primary care
- Well child physicals
- Immunizations
- Child Services Coordination for children birth to age five who are at risk for developmental problems or have special needs
- Home assessments for children with elevated blood lead levels and/or an asthma diagnosis

Dental Health services are provided through a strong partnership between local and state dental professionals.

- Services provided by local public health dentist and staff include a mobile dental clinic which offers comprehensive dental care to school aged children on site at elementary schools.
- Services provided by the state public health dental hygienist include screening, assessment and referral for elementary school children and education provided to individuals and groups in prevention of dental diseases.

Craven County Health Department Home Health and Hospice services include:

- 24 hour skilled nursing care
- Occupational therapy, speech therapy and physical therapy
- Additional support services such as social worker, aide service, and nutritional counseling
- Home health and hospice care

Physician Practices

There is no shortage of medical providers as there are over 50 physician practices in Craven County that provide a wide range of specialties from primary care to dermatology, podiatry, OB/GYN, orthopedics, pediatrics, cardiology, gastroenterology, general and thoracic surgeons, nephrology, psychiatry, neurology, plastic surgery, ENT, Allergy, pulmonology, infectious diseases, oncology and urology. Many of these offices also house their own diagnostic equipment (see Appendix B for list of CarolinaEast Health System group practice listing for those physicians with clinical privileges).

There are over 12 chiropractic physicians in Craven County that provide a wide range of treatments for auto accidents/injuries, low back pain, neck/shoulder pain, sports injuries, work related injuries, headaches/migraines, and pinched nerves.

The table below compares numbers of physicians per 10,000 persons in Craven County to a group of our peer counties and to the state wide average. It is easy to see Craven County exceeds both the state and peer rates.

Indicator Raw Values				Indicator Rate		
Year	County	Peer Avg.	State	County	Peer	State
2004	210	92	17,349	22.5	11.3	20.3
2005	208	93	17,934	22.6	11.3	20.7
2006	200	95	18,396	20.9	11.3	20.8
2007	202	96	18,913	21.0	11.1	20.9
2008	209	103	19,542	21.4	11.8	21.2

Peer Counties: Alamance, Harnett, Lee and Person

Mental Health

Craven County is home to Eastern Carolina Behavioral Health Services which is the regional Local Mental Health Managing Entity (LME) for nineteen counties. They are responsible for referral and coordination of behavioral health services and have contracts with many local mental health practitioners to provide services to their clients. Although we have many Psychiatrists, Psychologists, and licensed therapists in the county there are still multiple issues to overcome with regards to access. Those clients who have no insurance continue to have difficulty finding practitioners willing to provide services. There is also a deficit of practitioners who provide services to children. The Craven County Health

Department has recently partnered with Port Human Services to co-locate behavioral health services at the health department.

Oral Health

Craven County has a plethora of dental practices in the county. Most however, do not provide services to Medicaid clients and to the uninsured. There is one practice located in New Bern that primarily provides services to Medicaid clients. The Craven County Health Department has a mobile dental unit that provides preventive and restorative care to school age children in Craven, Pamlico, and Jones counties. Services are provided on a sliding scale fee and no child is turned away due to an inability to pay. The mobile dental unit also provides care to pregnant women who are patients at the Craven County Health Department maternity clinic.

MERCI Clinic

The MERCI Clinic located in New Bern is a nonprofit community clinic staffed primarily by volunteers, who provide free healthcare services for adults of Craven, Pamlico and Jones counties that are medically uninsured and whose income is less than 200% of poverty level.

Pharmacies

Craven County is home to over 20 pharmacies. These pharmacies dispense medications, include clinical services, review medications for safety and efficacy, and provide drug information.

Secondary Health Data

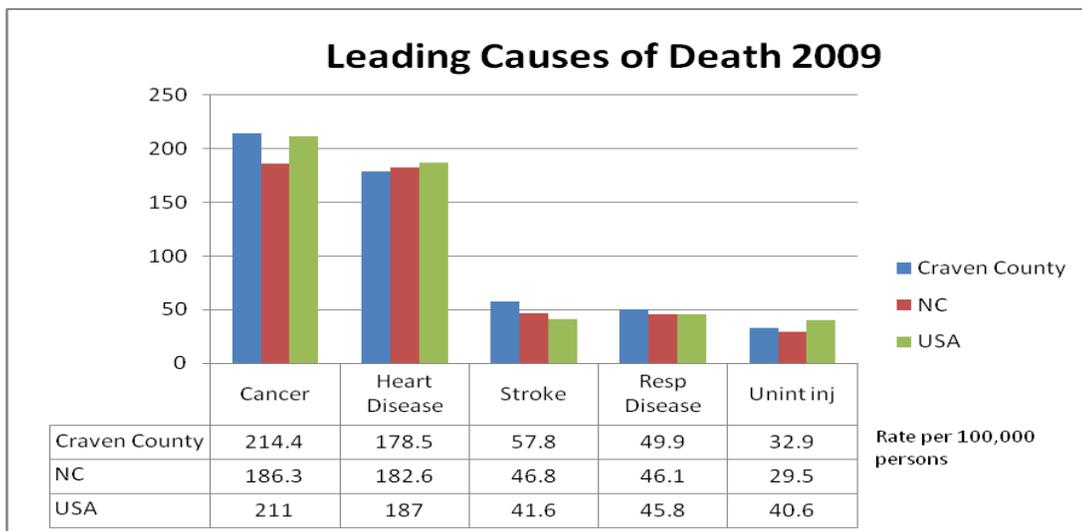
Deaths

The 2009 unadjusted death rate for Craven County is 884.7 per 100,000 persons, which is higher than the NC state rate of 820.1 per 100,000 persons. Cancer has continued to be the leading cause of death for the last four years in Craven County and it has now surpassed heart disease as the leading cause of death for the state of NC. Heart Disease remains the leading cause of death nationally. Below is a list of the 2009 leading causes of death for Craven County and a graph depicting a comparison of rates from Craven County, The state of North Carolina and the United States.

Leading Causes of Death

The leading causes of death for Craven County are:

- | | |
|----------------------------|-----------------------------|
| 1. Cancer | 6. Alzheimers Disease |
| 2. Diseases of the heart | 7. Diabetes |
| 3. Cerebrovascular disease | 8. Nephritis |
| 4. Respiratory Diseases | 9. Septicemia |
| 5. Unintentional Injuries | 10. Influenza and Pneumonia |



All leading causes of death with the exception of chronic respiratory diseases and unintentional injuries have higher rates in the minority versus the white population. Health disparities between the white and minority populations is a public health concern of the utmost importance at the local, state and national levels. Closing this gap is one of the Healthy People 2020 goals. Below is a table illustrating these disparities in Craven County from 2005-2009 per 100,000 persons.

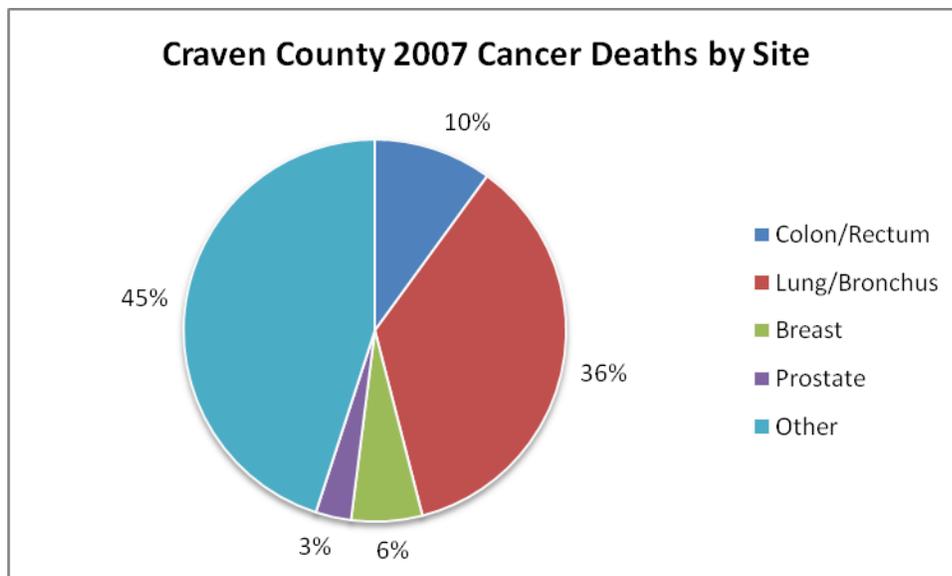
Leading Causes of Death

	Whites	Minorities	Total
Cancer	184.2	248.8	195
Heart Disease	184.5	233.3	189.1
Stroke	41.2	57.3	44.4
Respiratory Diseases	50.3	23.8	45.9
Unintentional Injuries	32.6	32.5	31.5
Diabetes	20.1	54.9	26.2

NC State Center for Health Statistics

Cancer

Cancer is the leading cause of death in Craven County and in North Carolina. It is the second leading cause of death for the United States. Cancer is expected to surpass Heart Disease as the leading cause of death nationally by the year 2015. The majority of cancer deaths occur in four sites: lung, colon, female breast, and prostate. The chart below illustrates the leading causes of cancer death in Craven County by site and the table compares cancer death rates in Craven County to the state rates and the rates of our peer counties.



(NC Cancer Registry)

Year	Indicator Raw Values			Age Adjusted Rate		
	Craven County	Peer Avg.	State	Craven County	Peer	State
2004	208	172	16,435	216	207.6	195.4
2005	214	160	16,675	216.7	190.5	193.4
2006	212	176	17,267	209.1	210.6	195.8
2007	220	174	17,425	213	197.1	192.1
2008	236	168	17,403	211.6	185.5	184.8

Peer Counties: Alamance, Harnett, Lee and Person

In 2007, 621 cancer cases were reported for Craven County residents. These numbers have continued to increase over the last five years. In addition, Craven County is known for being a retirement area and our percentage of residents over 65 is growing. Below is a chart with the projected number of new cancer cases for Craven County in 2011.

2011 Projected Number of New Cancer Cases in Craven County	
Lung/Bronchus	82
Colon/Rectum	52
Female Breast	94
Prostate	74
All Cancers	544

(NC Cancer Registry)

According to the Center for Disease Control the leading causes of cancer deaths for men versus women are as follows:

Leading Causes of Cancer Death	
Men	Women
Lung	Lung
Prostate	Breast
Colon	Colon

The good news is that over 60 percent of all cancers are related to personal lifestyle or environmental factors, such as smoking and diet, and are preventable.

Heart Disease

For many years heart disease remained the leading cause of death both state wide and nationally. Within the last two years heart disease has fallen to the number two cause of death locally and state wide. The table below displays data showing the heart disease deaths per 100,000 persons over the last five years for Craven County, North Carolina and a group of peer counties of similar population to Craven. The age adjusted rates indicate we are making improvements to our numbers of heart disease related deaths, however further work is needed to ensure continued progress.

Year	Indicator Raw Values			Age Adjusted Rate		
	Craven County	Peer Avg.	State	Craven County	Peer	State
2004	194	182	17,545	210.4	220.9	212.2
2005	203	174	17,681	211.7	212.5	209.4
2006	208	175	17,189	213.6	207.5	198.7
2007	225	186	17,499	222.6	210.5	196.5
2008	197	181	17,417	179.9	203.1	187.8

Peer Counties: Alamance, Harnett, Lee and Person

Infant Mortality

Infant mortality was on the increase in Craven County until 2010. In 2010 the state of NC posted it's lowest total infant mortality rate in state history and Craven County posted its lowest infant mortality rate in over five years. With the exception of 2010 in Craven County

the minority rate continues to exceed the white rate for infant mortality. The good news is that we are showing improvement both as a state and for Craven County.

Infant Mortality

	Year	White Rate	Minority Rate	Total Rate
Craven County	2010	8.4	7.5	7.0
	2009	7.4	15.4	9.5
	2008	5.8	13.3	8.1
	2007	7.9	19.4	11.2
	2006	6.8	8.8	7.4
North Carolina	2010	5.3	12.7	7.0
	2009	5.4	14.1	7.9
	2008	6.0	13.5	8.2
	2007	6.3	13.9	8.5
	2006	6.0	13.6	8.1

(NC State Center for Health Statistics)

Live Births

The Craven County live birth rate for 2009 is 17.7 per 1,000 women compared to 14.2 per 1,000 women for the state of NC and 14.3 per 1,000 women nationally. We contend that having a military base with large numbers of child bearing age women is one of the reasons we tend to have a high birth rate in the county.

Low Birth Weight

In Craven County our percent of low birth weight babies is lower than the state percentage; however, both county and state rates exceed the national low birth weight rate. Of additional concern is the disparity of low birth weight babies between the white and minority populations. The following table compares the low birth weight rates of Craven County and North Carolina.

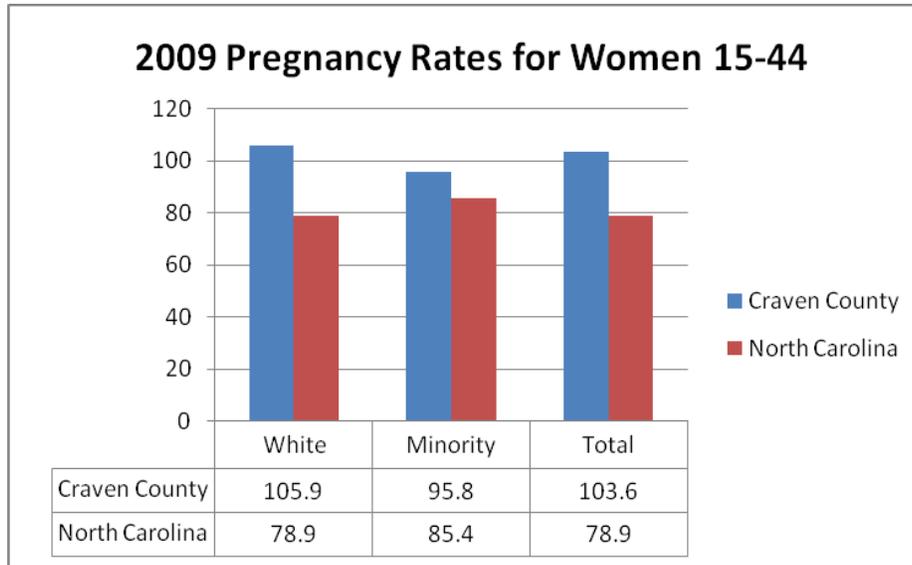
2011 Low Birth Weight

	White	Minority	Total
Craven County	5.7%	12.8%	7.6%
North Carolina	7.4%	13.5%	9.1%

(NC State Center for Health Statistics)

Pregnancy

The graph below illustrates the Craven County pregnancy rate per 1,000 women for 2009 versus the North Carolina state rate. Once again we attribute the high numbers of pregnancies to having a military base with a large number of women between the ages of 15-44.

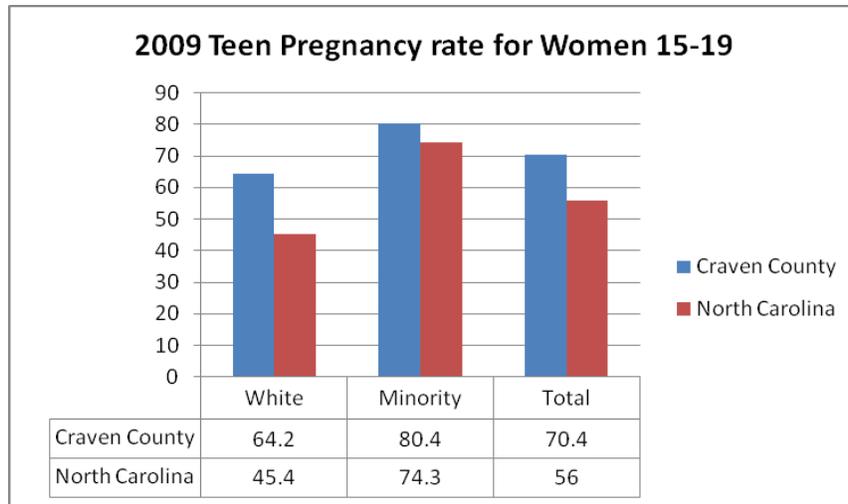


(NC State Center for Health Statistics)

Teen Pregnancy has always been a concern in Craven County. We have exceeded state and national rates for several years. Our minority rate is the statistic of greatest concern as it has consistently exceeded the white rate. While our numbers remain high the good news is that after many years of increasing statistics teen pregnancy rates are trending downward both locally and nationally. The table below shows how Craven County teen pregnancy rates compare to our peer counties and the state of NC. The graph illustrates the 2009 teen pregnancy rate broken down by race.

Year	Indicator Raw Values			Indicator Rate		
	Craven County	Peer Avg.	State	Craven County	Peer	State
2005	235	198	18,259	83.1	69	64.2
2006	242	212	19,192	85.5	72.6	65.5
2007	253	214	19,615	91.3	70.5	65.9
2008	245	221	19,398	84.3	71.5	64.2
2009	222	192	18,142	70.4	62.1	58.8

Peer Counties: Alamance, Harnett, Lee, and Person



(NC State Center for Health Statistics)

Diabetes

Diabetes is not one of the top five causes of death for Craven County; however it is a disease process that leads to many other illnesses. While it is not one of the top five leading causes of death, Craven County rates do exceed state and peer county rates as shown in the table below. In addition the minority rates consistently exceed white rates.

Year	Indicator Raw Values			Age Adjusted Rates		
	Craven County	Peer Avg.	State	Craven County	Peer	State
2004	32	26	2,250	34.8	32.9	27
2005	32	26	2,255	33.6	33	26.4
2006	27	21	2,230	28.2	26.1	25.4
2007	30	24	2,150	29.5	30.2	23..8
2008	27	24	2,164	24.9	28.6	23

NC State Center for Health Statistics

Peer Counties: Alamance, Harnett, Lee, and Person

Asthma

As indicated in the table below Craven County ranks high among its peers and as compared to state wide averages for the number of asthma related illnesses per 10,000 persons. Respiratory diseases are the number four cause of death for Craven County and our rates of hospitalization for respiratory illness are higher than the state wide average also.

Year	Indicator Raw Values			Indicator Rate		
	Craven County	Peer Avg.	State	Craven County	Peer	State
2006	444	196	21,737	48.4	23.4	36.4
2007	762	363	44,307	83.7	42.0	49.9
2008	702	390	42,318	74.2	44.4	46.6

Peer Counties: Alamance, Harnett, Lee, and Person

Immunization Rates

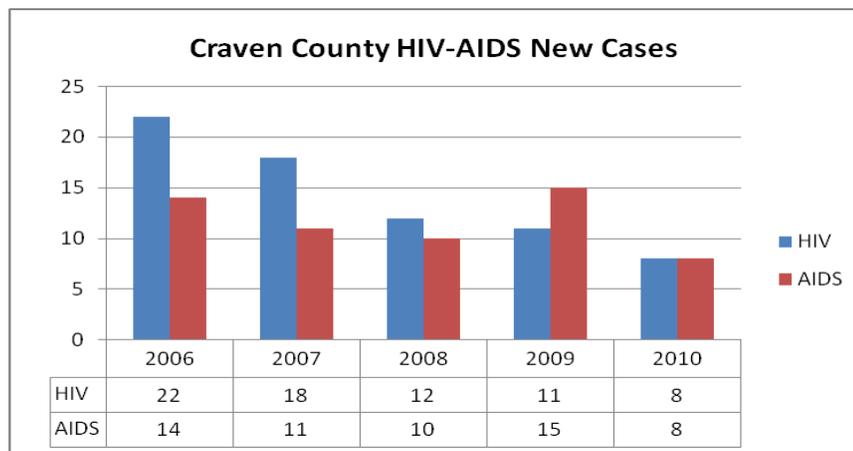
The 2010 immunization rate for children appropriately immunized by age 24 months in Craven County was 95% which far exceeds the state rate of 81%. This is an area that Craven County has consistently excelled.

Lead Screening

Lead Screening is another area where we are proud to say that Craven County exceeds the state rate of 49.5% of 1-2 year olds screened. In Craven County, 60% of 1-2 year olds were screened for lead in 2009.

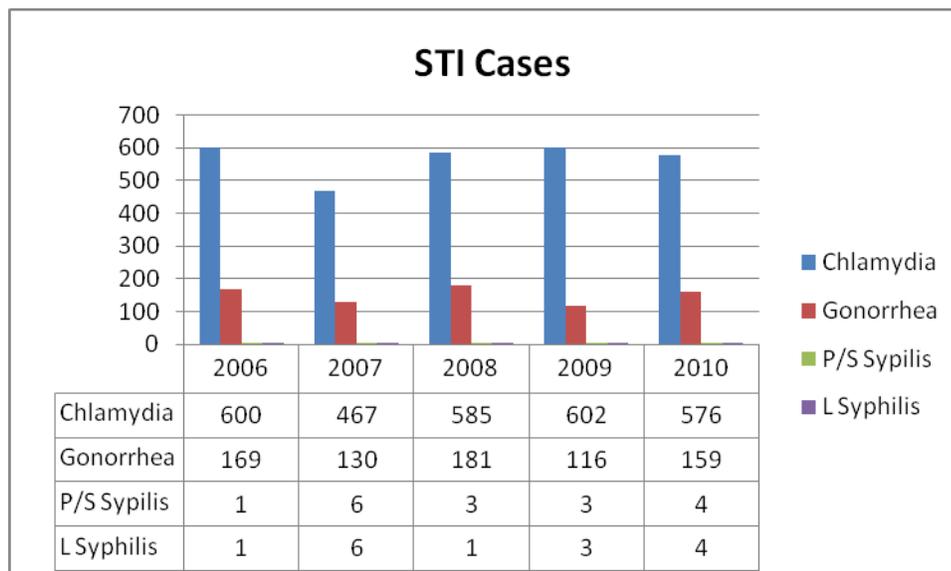
HIV and Sexually Transmitted Infections

The graph below shows the number of new HIV and AIDS cases in Craven County over the last five years.



(NC Dept of Public Health, Communicable Disease Branch)

The numbers of Sexually Transmitted Infection (STI) cases in Craven County have remained high over the last five years. Chlamydia continues to be our most prevalent STI but gonorrhea is also on the rise. The graph below shows the number of STI cases for Craven County over the last five years.



(NC Dept of Public Health, Communicable Disease Branch)

Obesity

According to the 2010 Behavior Risk Factor Surveillance Survey, 70.2% of respondents in the eastern NC region report they are overweight or obese. The same survey reveals that 65.3% of respondents across NC report they are overweight or obese. Nationally the National Health and Nutrition Survey reveal 68% of Americans over 20 reports they are overweight or obese. Obesity is a major contributing factor to many chronic diseases.

Smoking

Tobacco use continues to be the single leading cause of preventable illness and death in the United States. According to the 2010 Behavior Risk Factor Surveillance Survey 20.8% of respondents in eastern North Carolina report they are a current smoker. 19.8% of statewide respondents report they are current smokers. The CDC reports that 20.6% of adults nationwide are current smokers.

Suicide

According to the NC State Center for Health Statistics, the Suicide rate for Craven County is 10 per 100,000 persons for 2009. This is compared to the NC state rate of 12.4 per 100,000 persons. In Craven County suicide occurs more often in whites versus minorities and occurs more frequently in males versus females. The Craven County rate has trended downward over the last four years.

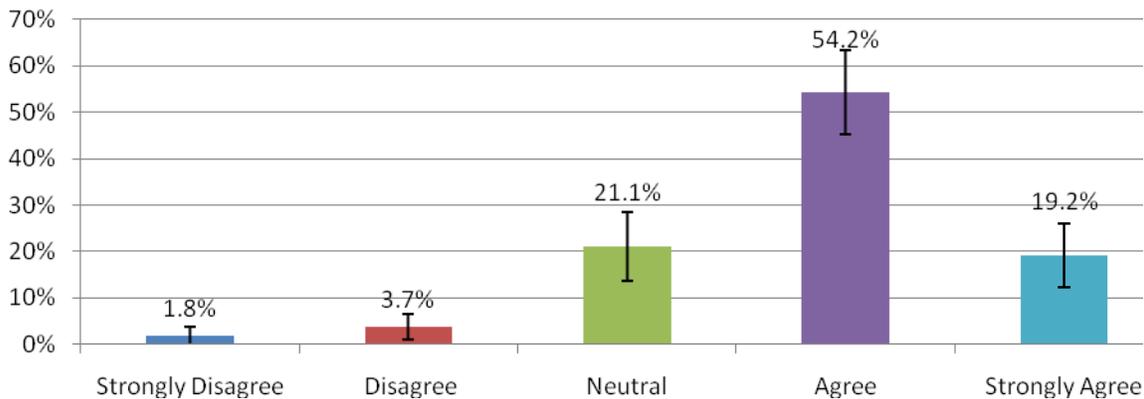
Substance Abuse

According to the NC Division of Mental Health and Substance Abuse the estimated number of youth 18 years and older with a substance abuse issue is 6,681 persons or about 6.5% of the total population. This number does not include adults. Here at the Health Department we know that we are seeing a growing number of patients in the clinics with substance abuse issues. Access to outpatient treatment for substance abuse is difficult as there are limited numbers of providers. There are support groups available in the county such as Al-Anon and Alcoholics Anonymous.

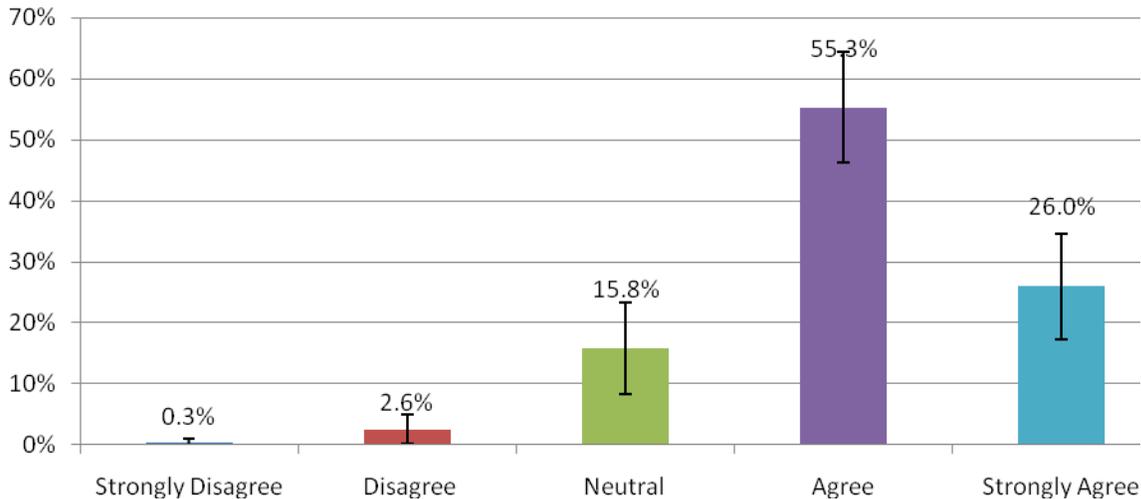
Primary Health Data

The door-to-door community survey process was completed by randomly selecting 210 households across Craven County using GIS technology providing us with 90% confidence and an error margin of 5.7%. Survey results were entered into Epi Info statistical software for data compilation. Below are this survey's results.

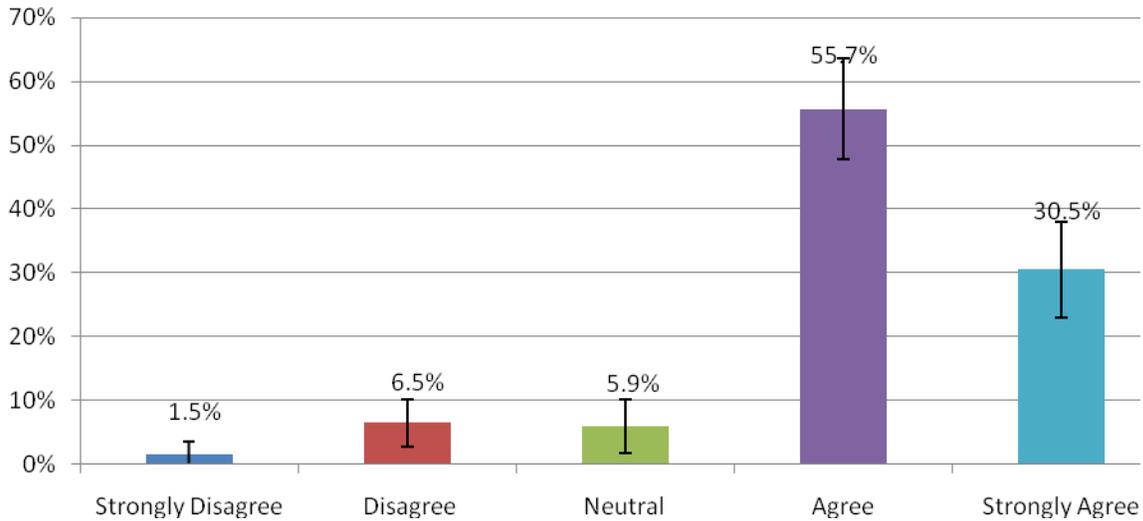
1. How do you feel about this statement, “There is a good healthcare system in Craven County”? Consider the cost and quality, number of options, and availability of healthcare in Craven County.



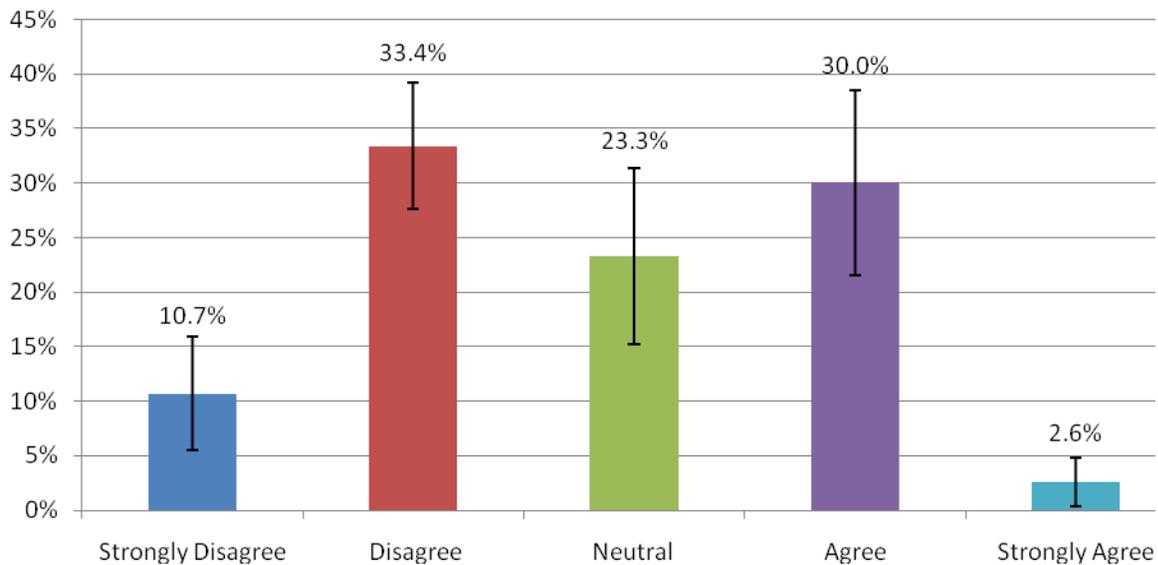
2. How do you feel about this statement, “Craven County is a good place to raise children”? Consider the quality and safety of schools and child care programs, after school programs, and places to play in this county.



3. How do you feel about this statement, “Craven County is a good place to grow old”? Consider our county’s elder-friendly housing, transportation to medical services, recreation, and services for the elderly

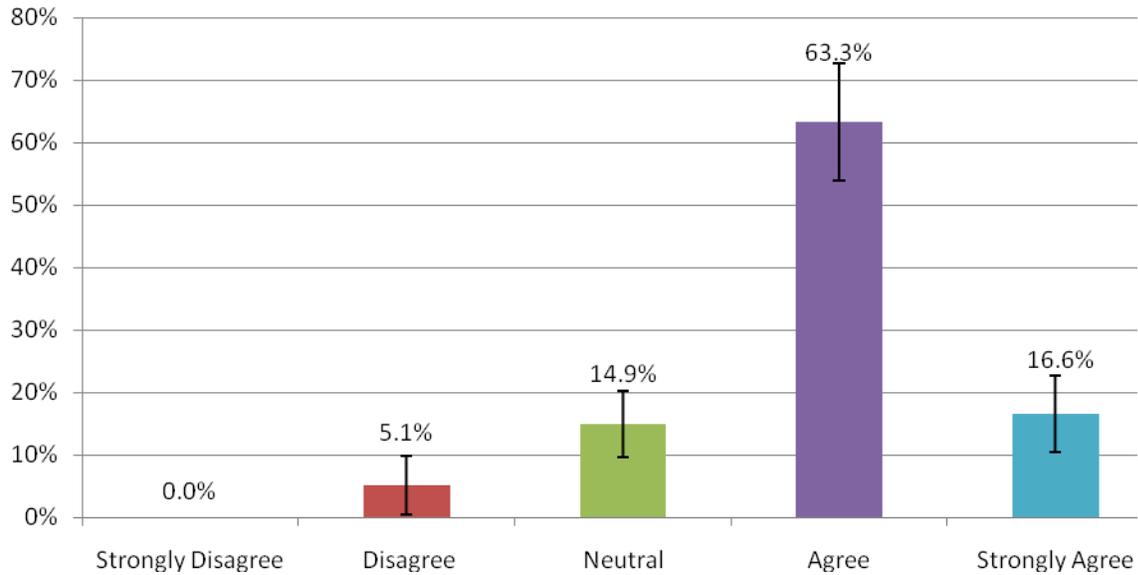


4. How do you feel about this statement, “There is plenty of economic opportunity in Craven County”? Consider the number and quality of jobs, job training/higher education opportunities, and availability of affordable housing in Craven County.



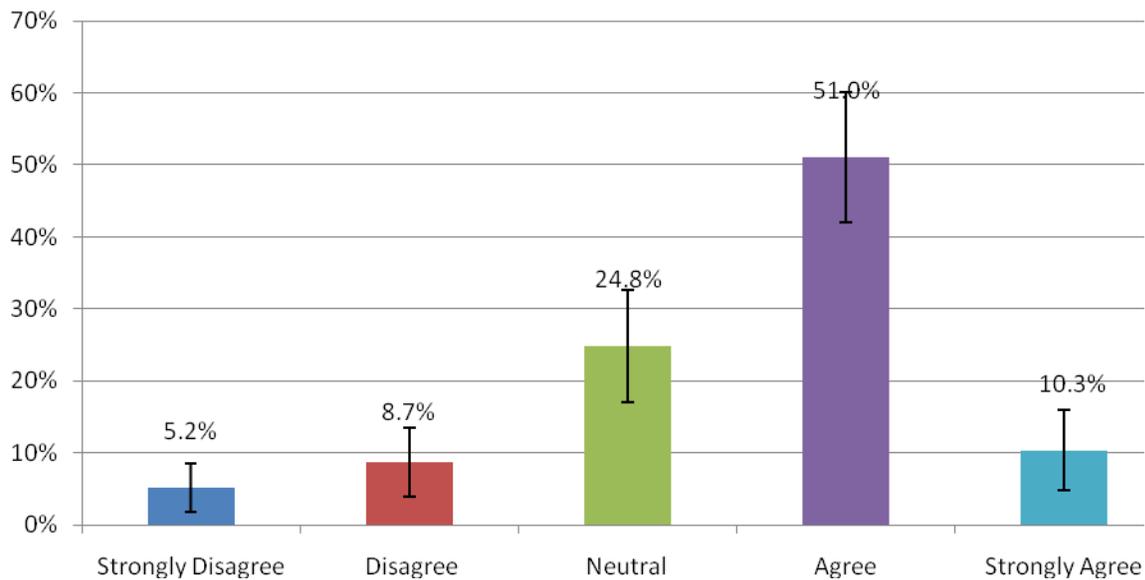
5. How do you feel about this statement, “Craven County is a safe place to live”?

Consider how safe you feel at home, in the workplace, in schools, at playgrounds, parks, and shopping centers in Craven County.

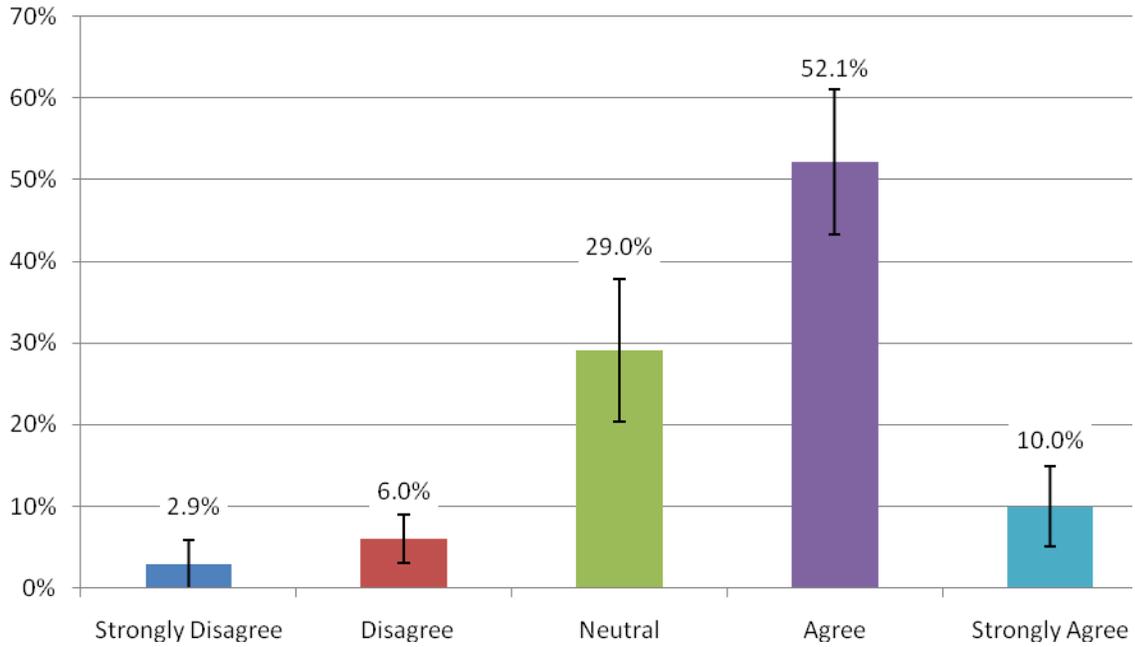


6. How do you feel about this statement, “There is plenty of help for individuals and families during times of need in Craven County”?

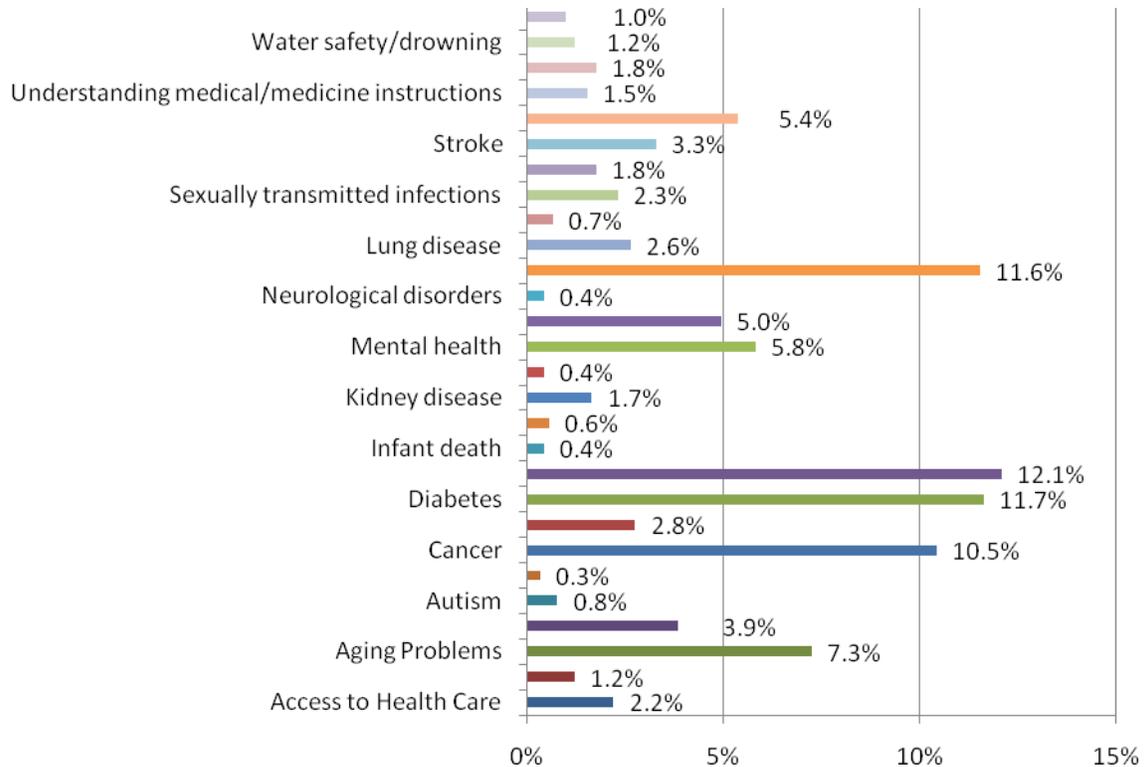
Consider social support in Craven County: neighbors, support groups, faith community outreach, community organizations, and emergency monetary assistance.



7. How do you feel about this statement, “Craven County has programs in place to protect the natural resources and environment”? Consider wastewater treatment, water treatment, solid waste, air, etc.



8. These next questions are about health problems that have the largest impact on the community as a whole. Please look at this list of health problems. I would like for you to pick the most important health problems in Craven County. You can choose up to 5. Remember this is your opinion and your choices will not be linked to you in any way. If you do not see a health problem you consider one of the most important, please let me know and I will add it in. I can also read these out loud as you think about them.

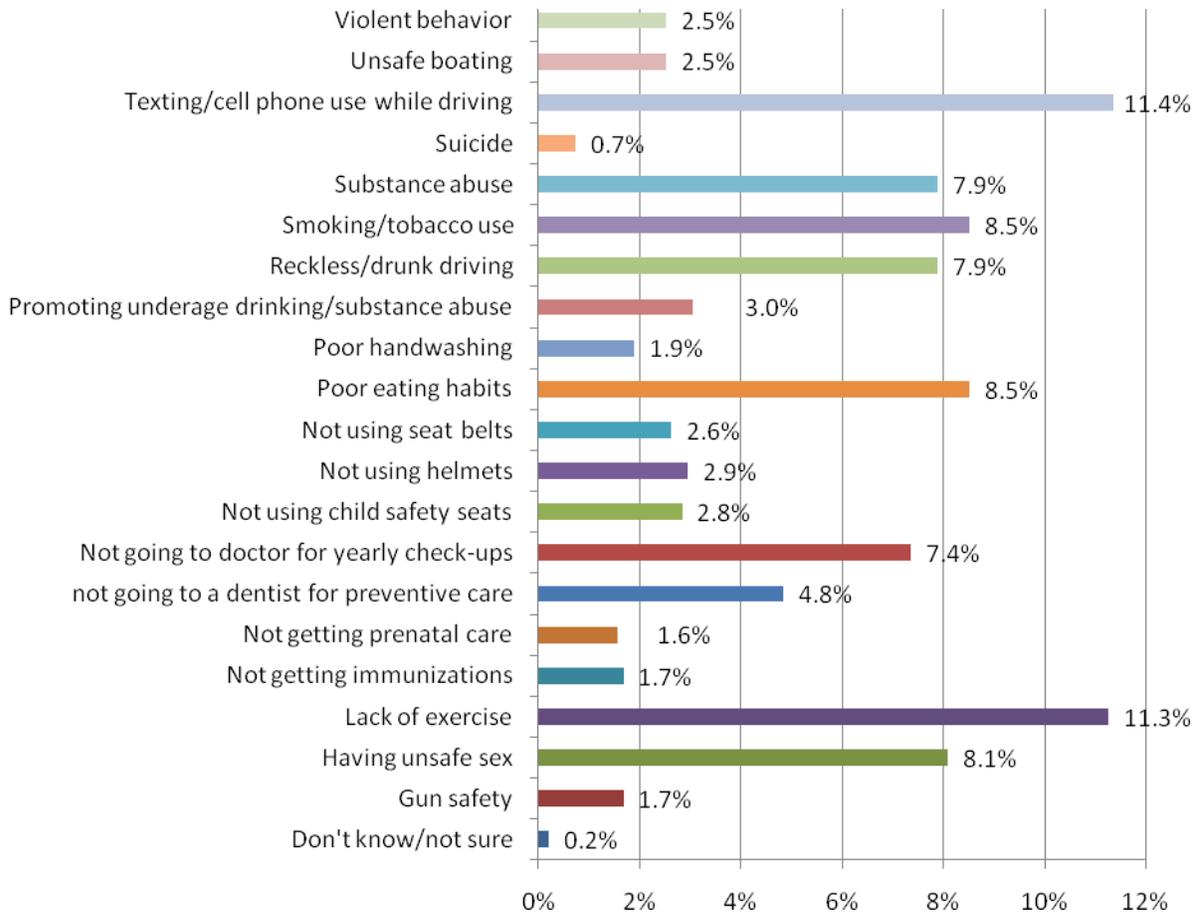


(This chart is a percentage. Weighting was not used)

Other Answers:

- NO PROBLEMS
- Alzheimer's
- developmental disorders
- prescription drug abuse
- traffic intersections

9. These next questions are about unhealthy behaviors that some individuals do that have the largest impact on the community as a whole. Please look at this list of unhealthy behaviors. Pick top unhealthy behaviors in Craven County. Please choose up to 5. Remember this is your opinion and your choices will not be linked to you in any way. If you do not see an unhealthy behavior that you consider one of the most important, please let me know and I will add it in. I can also read these out loud as you think about them.



(This chart is a percentage. Weighting was not used)

Other Answers:

NONE

bath salts

children abuse

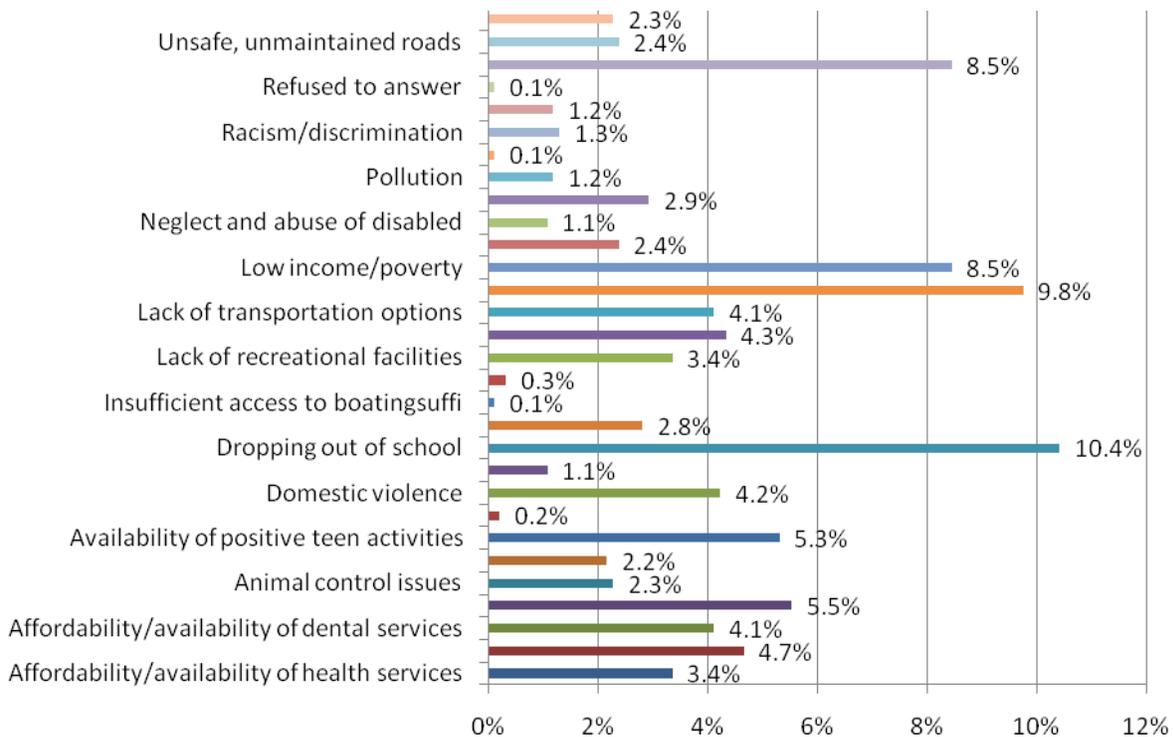
gun safety

driving

substance abuse in schools, texting while

poor eating

10. These next questions are about community-wide issues that have the largest impact on the overall quality of life in Craven County. Please look at this list of community issues. Pick the community issues that have the greatest effect on quality of life in Craven County. Please choose up to 5. Remember this is your opinion and your choices will not be linked to you in any way. If you do not see a community problem you consider one of the most important, please let me know and I will add it in. I can also read these out loud as you think about them.



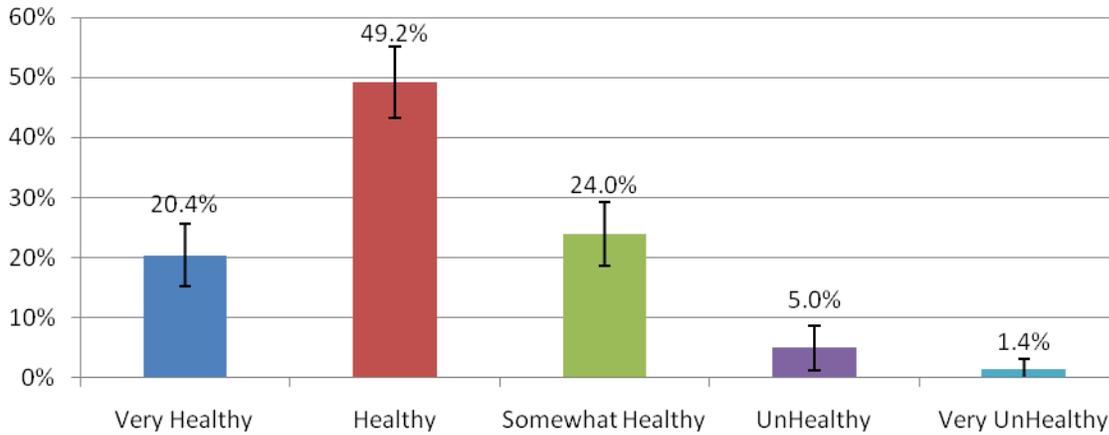
(This chart is a percentage. Weighting was not used)

Other Answers:

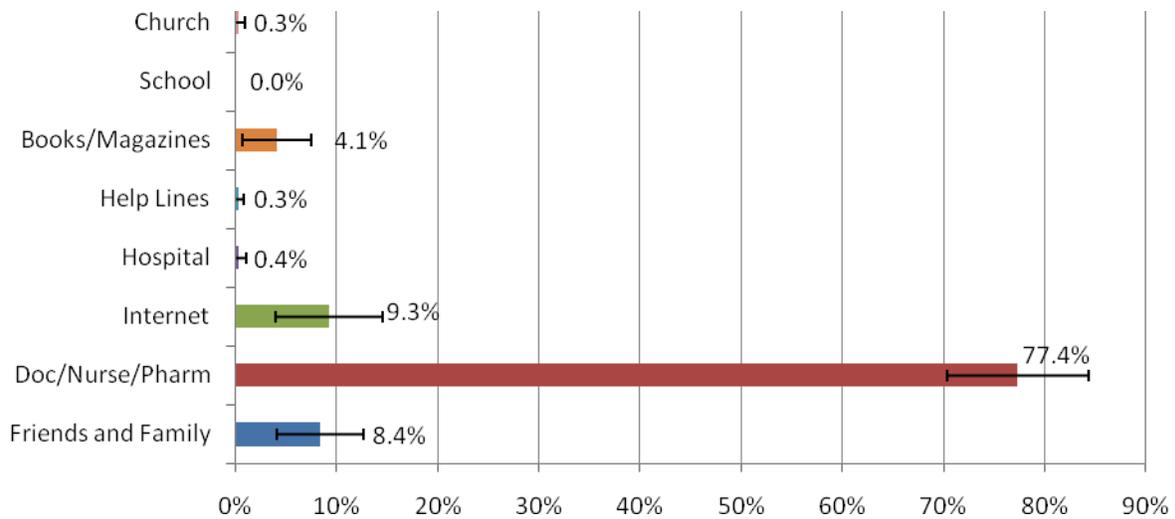
- | | | |
|------------------|-------------------|--|
| tax issues | Domestic Violence | need a boys and girls club |
| teen dropout | MERCER IN | robbery |
| | HOSPITAL | |
| teen drug use | NONE | solid waste/trash dumping and drainage |
| under employment | NOT SPECIFIED | street beggars |
| unemployment | tax issues | unplanned pregnancy |

Now I am going to ask you some questions about your own personal health. Remember, the answers you give for this survey will not be linked to you in any way.

11. How would you rate your own health? Please choose only one of the following:



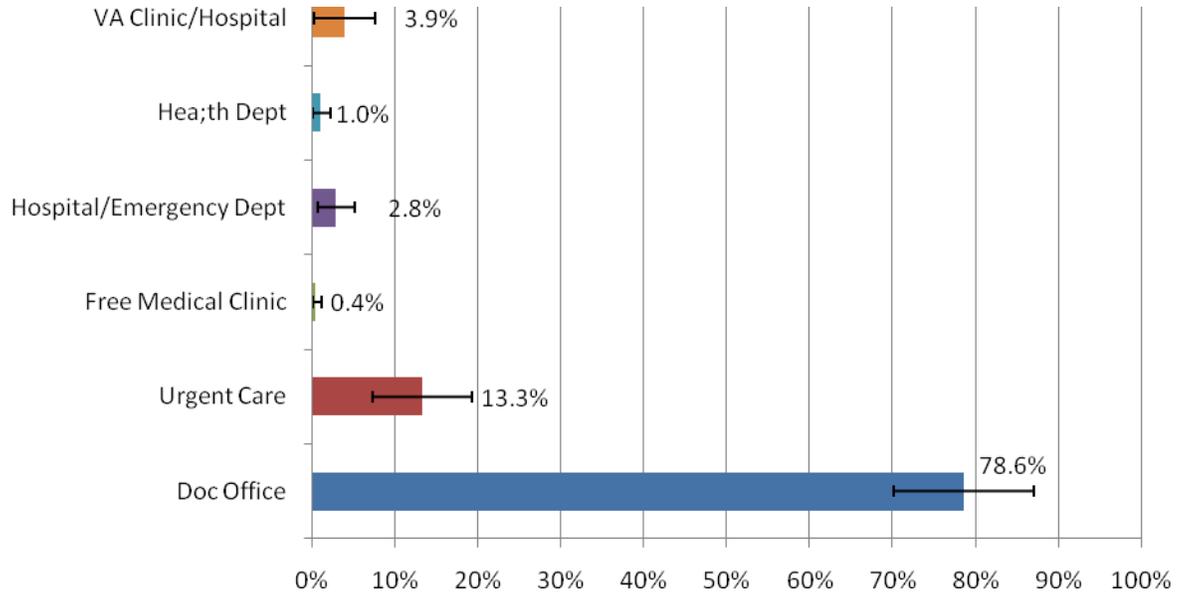
12. Where do you get most of your health-related information or advice about your health? Please choose only one.



Other Answers:

- Internet work
- ME when I go
- SELF TV
- department of social no one
- services
- internet

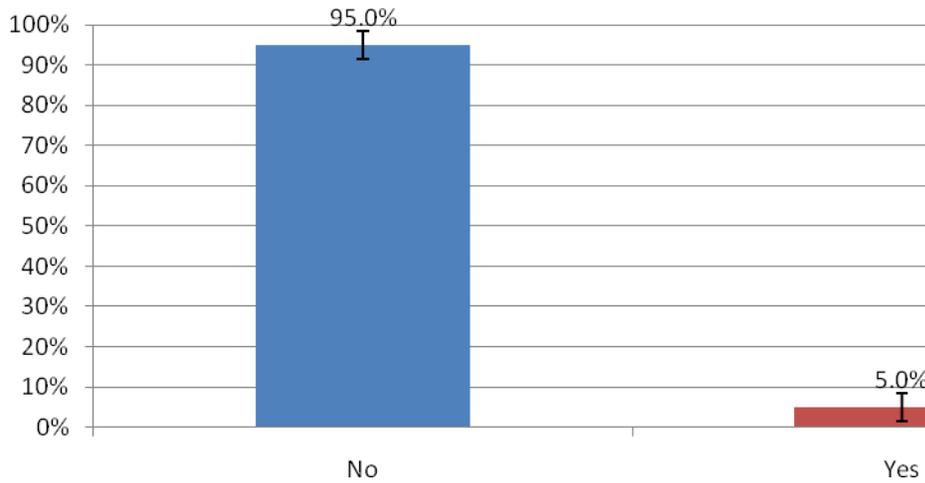
13. Where do you go most often when you are sick?



Other Answers:

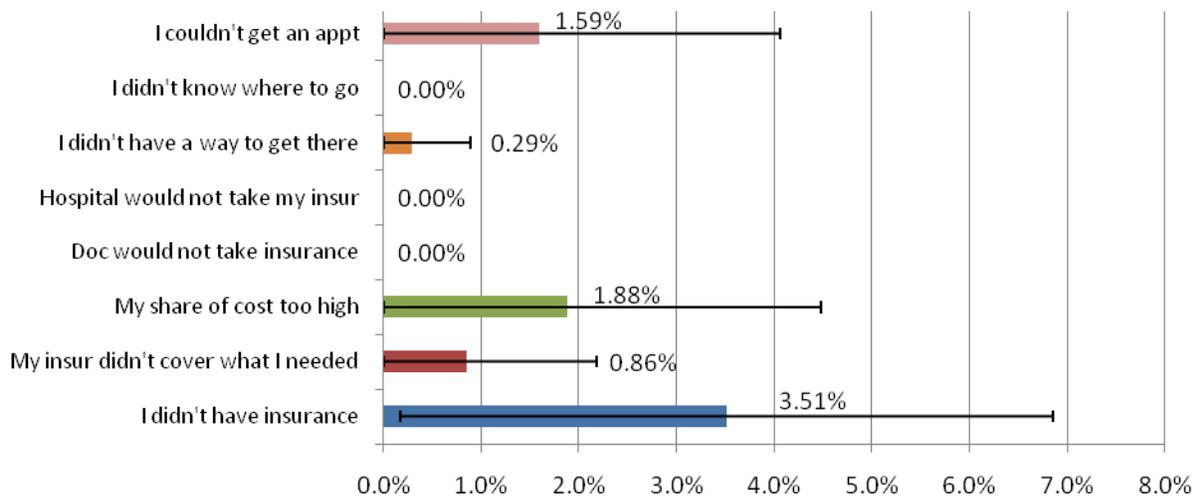
- BASE MEDICAL
- MILITARY
- NO PROVIDER
- NOPE
- home
- nowhere
- urgent care

14. In the past 12 months, did you ever have a problem getting the health care, including home health services, nursing home, assisted living, you needed from any type of health care provider or facility?

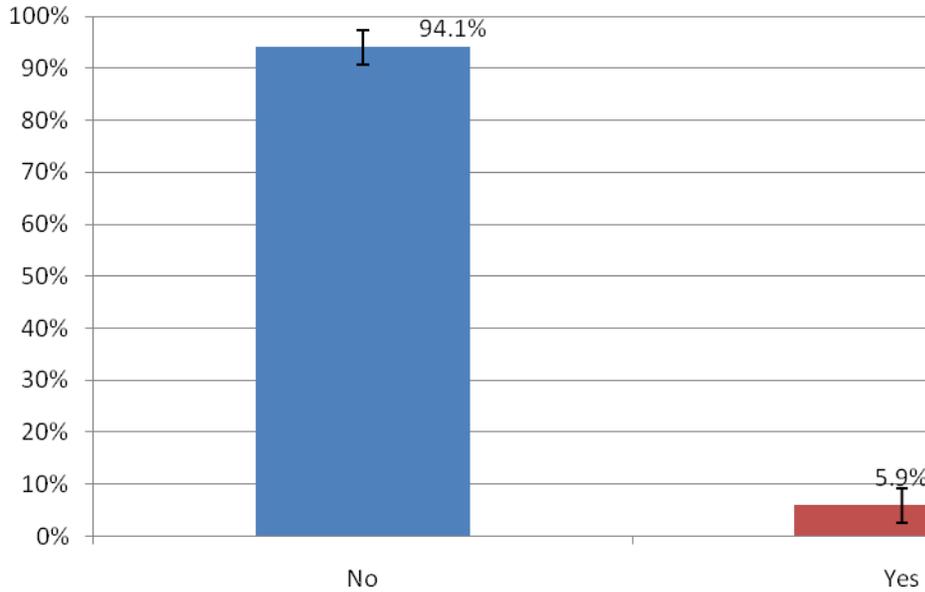


Note: Understanding health instructions and how to use your medications

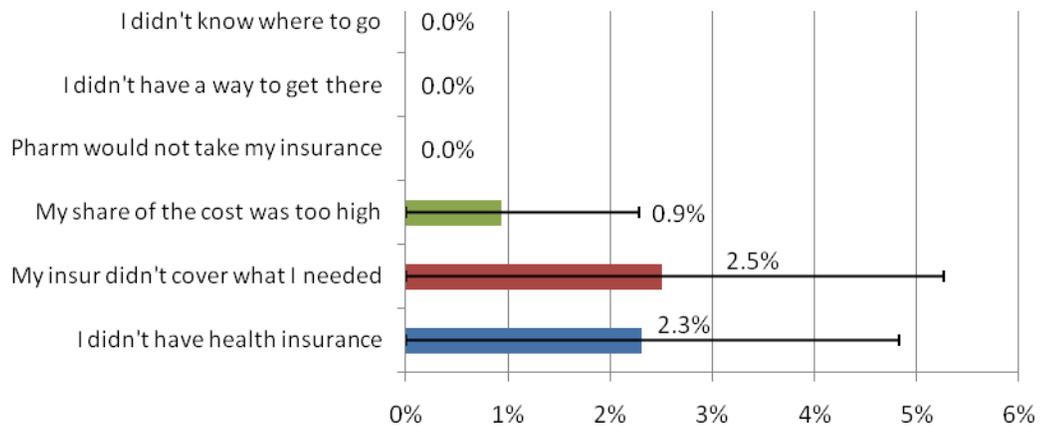
15. Since you said “yes”, which of these problems did you have? You can choose as many of these as you need to. If there was a problem you had that we do not have here, please tell us and I will write it in.



16. In the past 12 months, did you have a problem filling a medically necessary prescription?



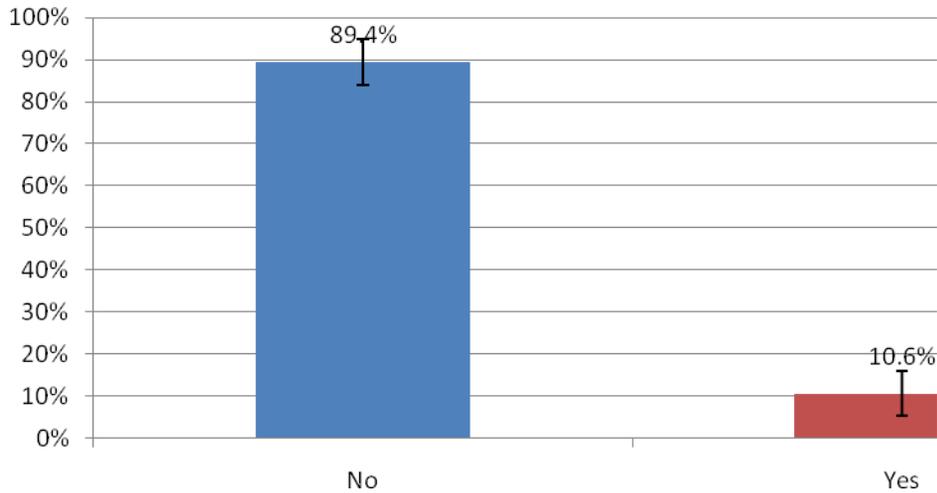
17. Since you said “yes”, which of these problems did you have? You can choose as many of these as you need to. If there was a problem you had that we do not have here, please tell us and I will write it in.



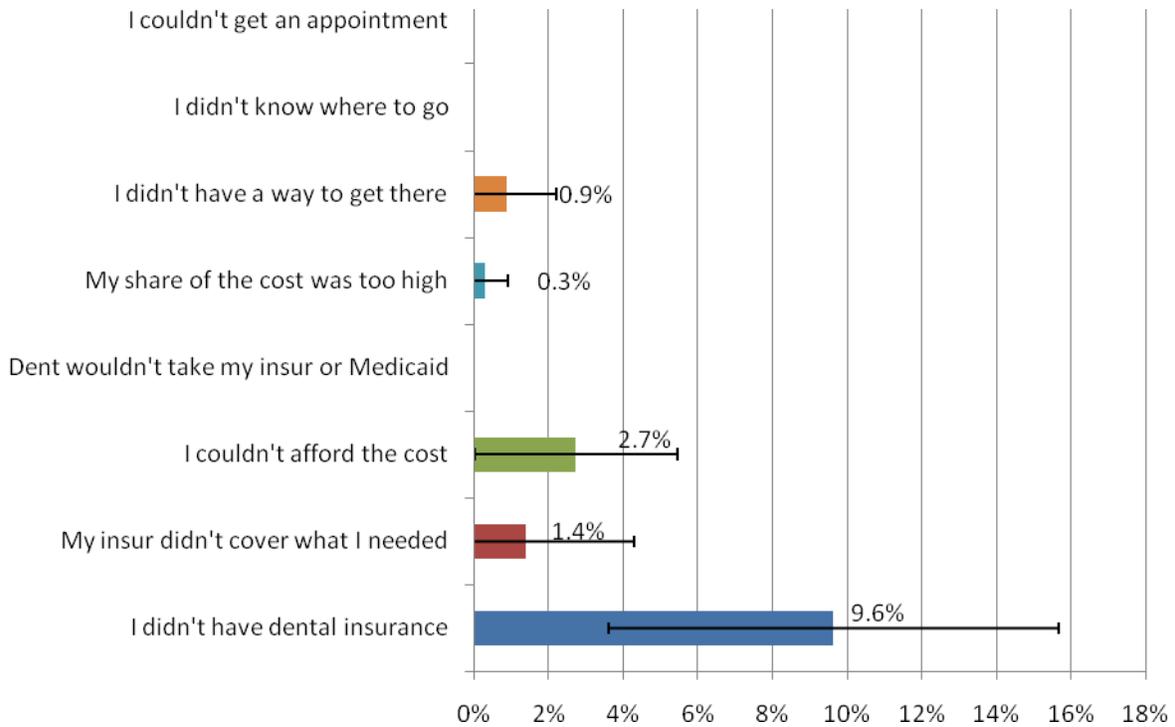
Other Answers:

- | | |
|-----------------------|--------------------|
| SPECIAL ORDERED | Dental Health |
| lack of work | Pharmacy not carry |
| not available locally | generic |

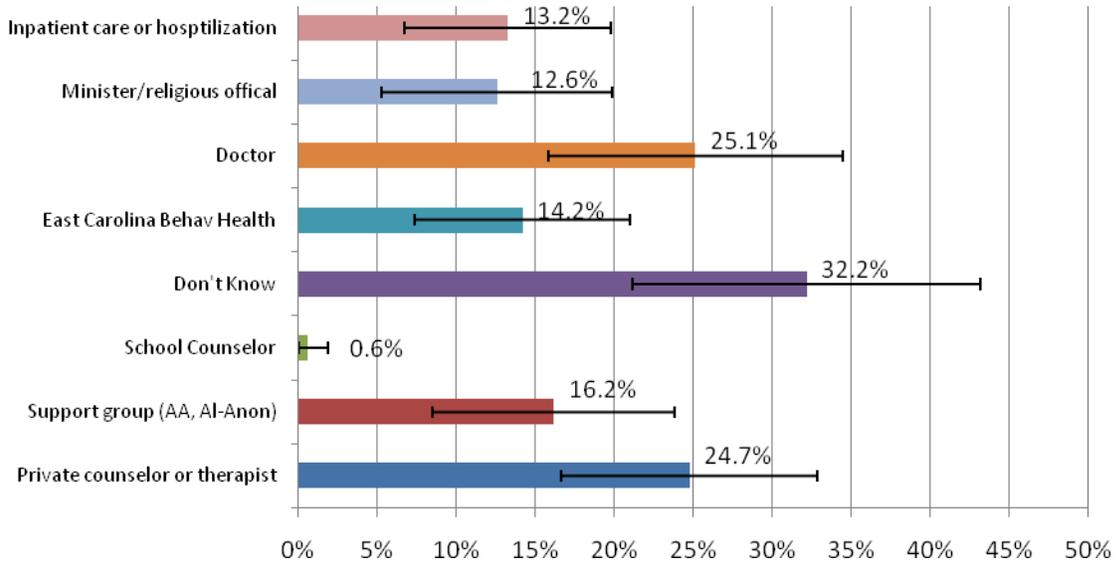
18. Was there a time during the past 12 months when you needed to get dental care, but could not?



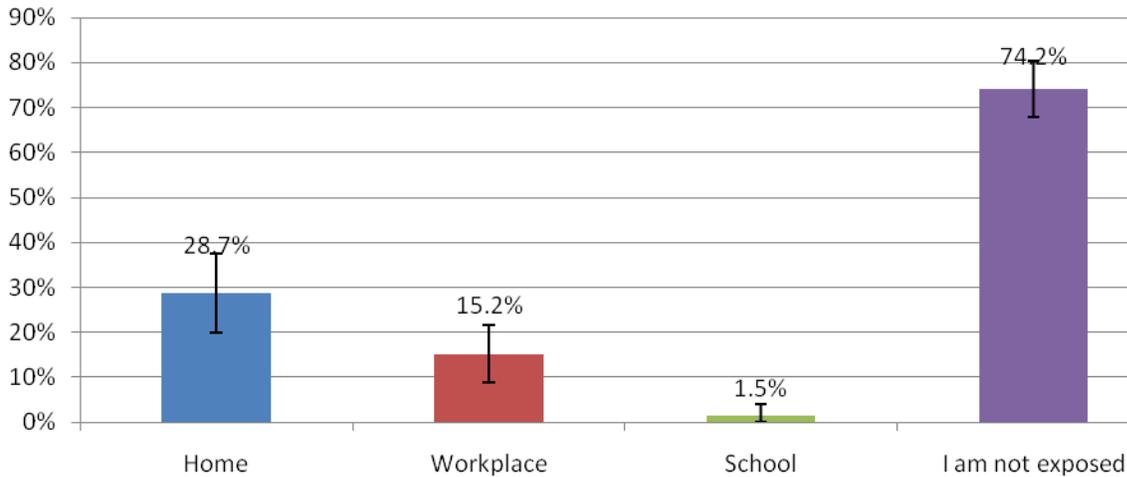
19. Since you said “yes”, why could you not get dental care? You can choose as many of these as you need to. If there was a problem you had that we do not have here, please tell us and I will write it in.



20. If a friend or family member needed counseling or treatment for a mental health or a drug/alcohol abuse problem, from whom would you tell them to seek care?



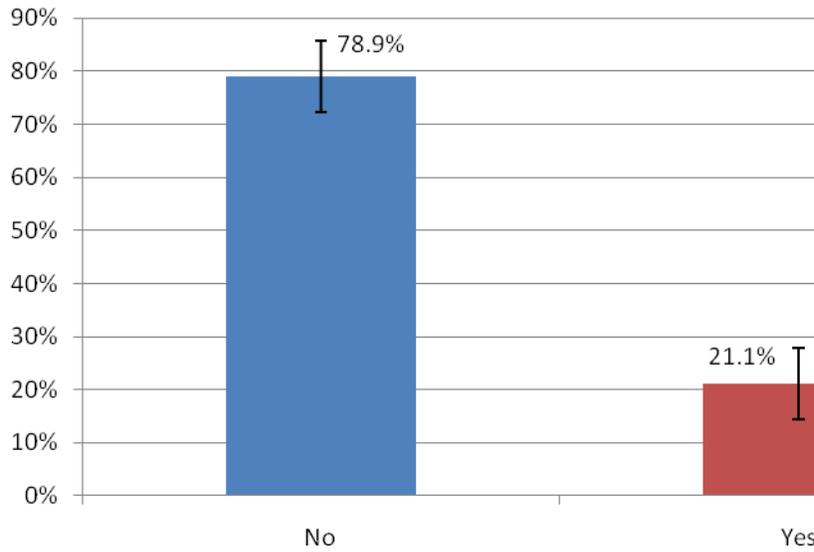
21. Are you exposed to secondhand smoke in any of the following places (Check all that apply)?



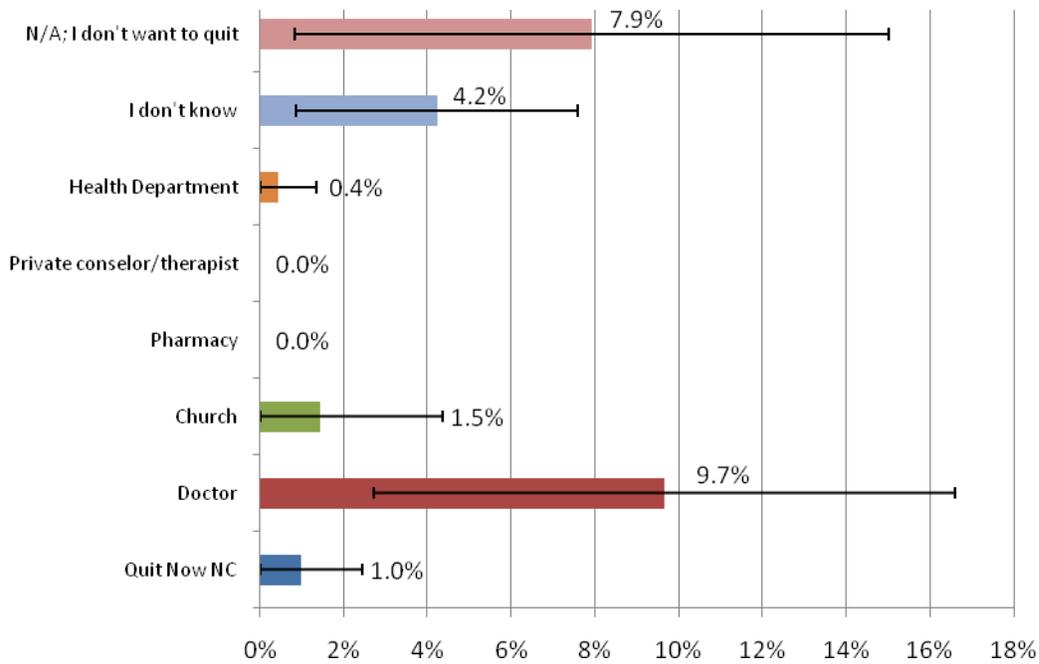
Other Answers:

PUBLIC PLACES EVERYWHERE
 public at bingo and friends

22. Do you currently smoke?

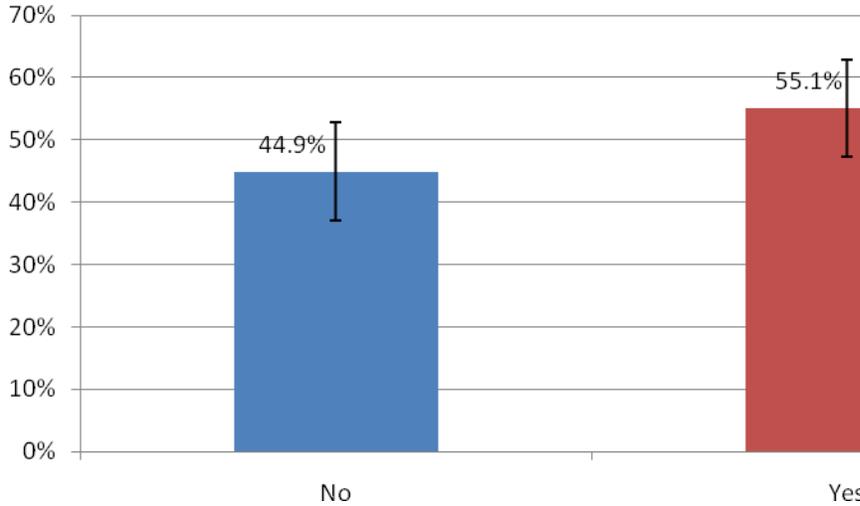


23. If yes, where would you go for help if you wanted to quit?

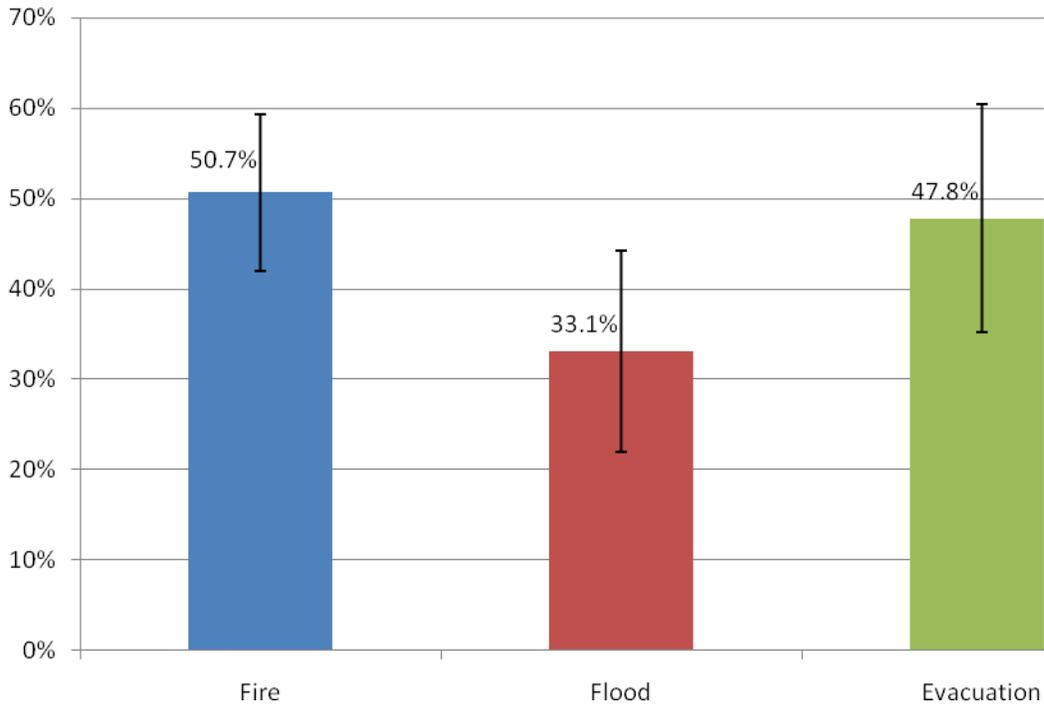


Part 4. Emergency Preparedness

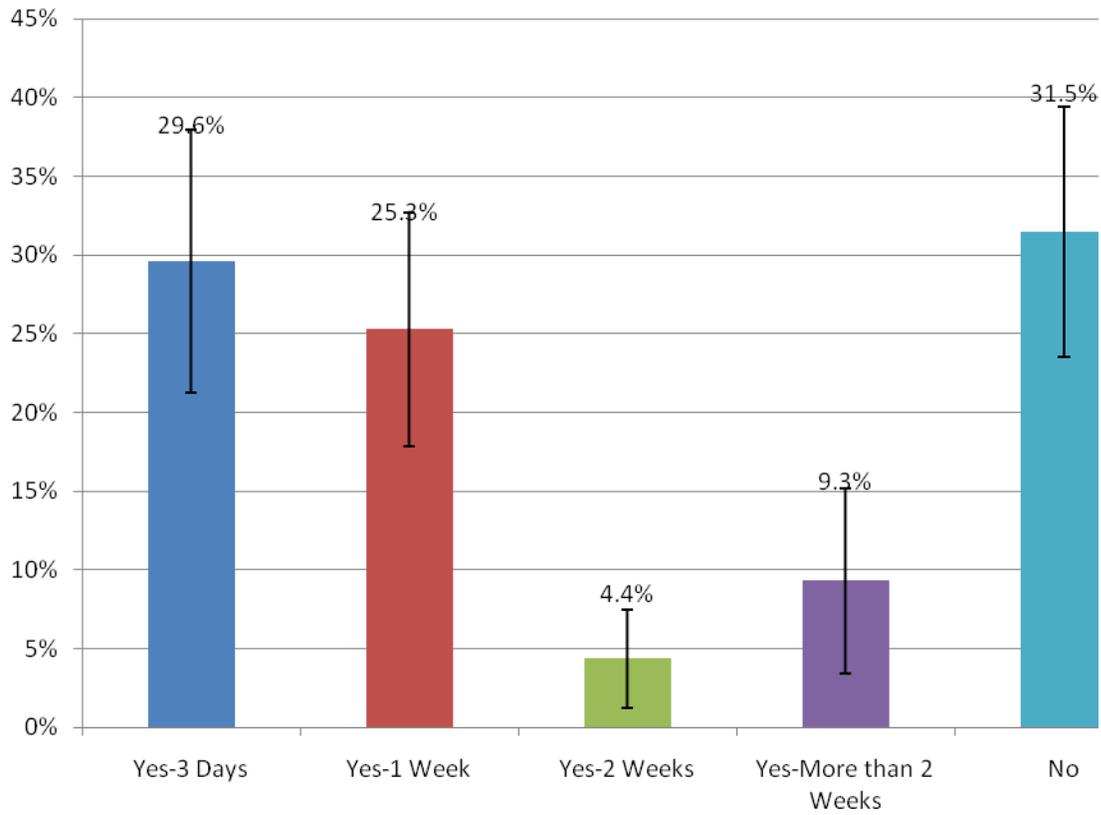
24. Does your household have a Family Emergency Plan?



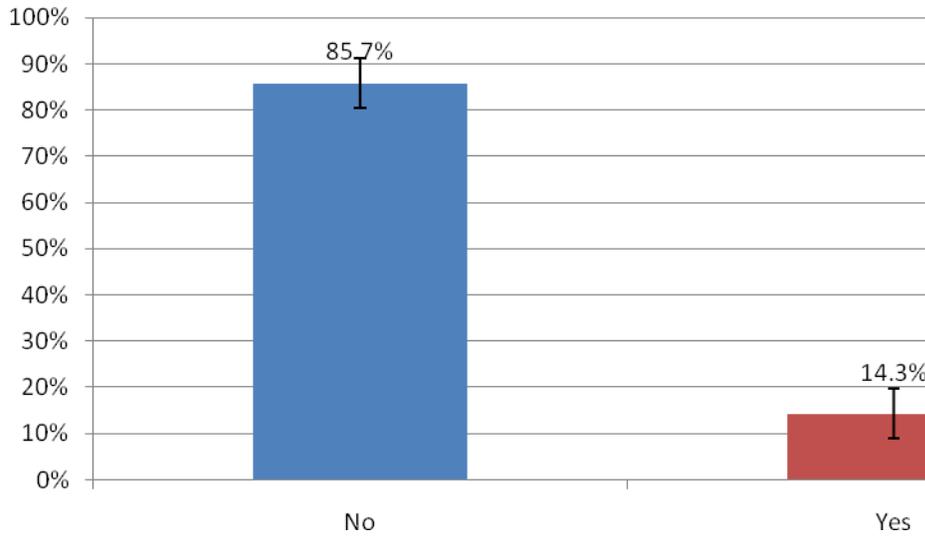
What Kind of Family Emergency Plan(s) does household have?



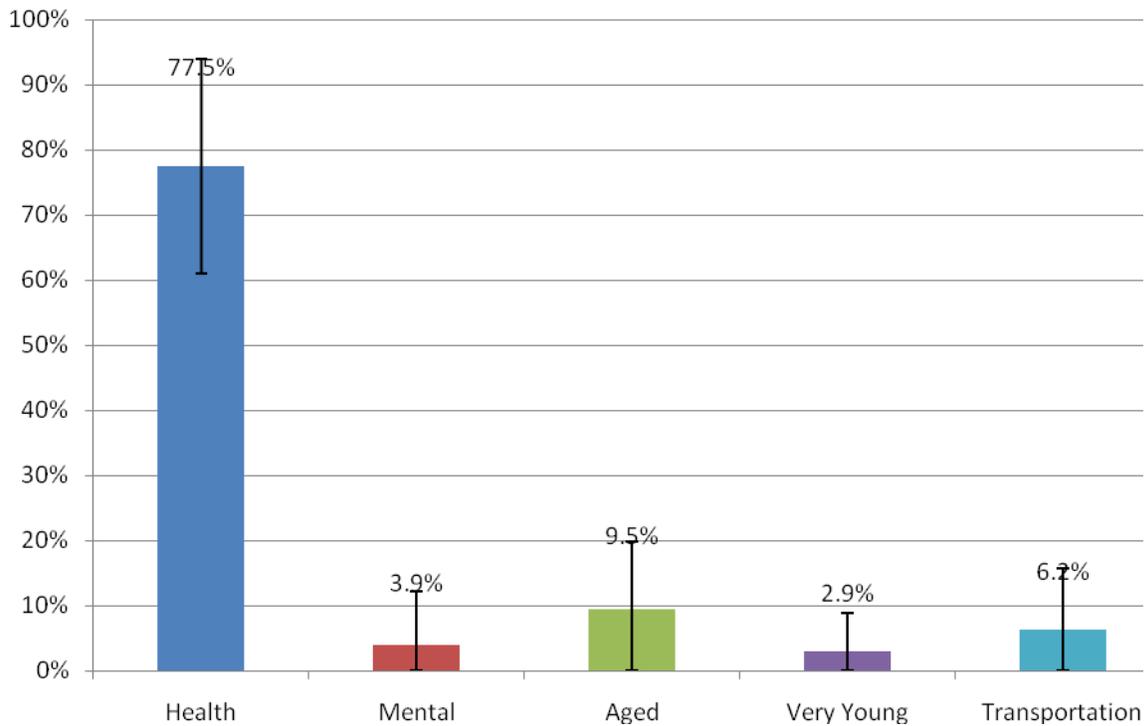
25. Does your family have a basic emergency supply kit, including first aid kit, food and water? If yes, for how many days do you have supplies?



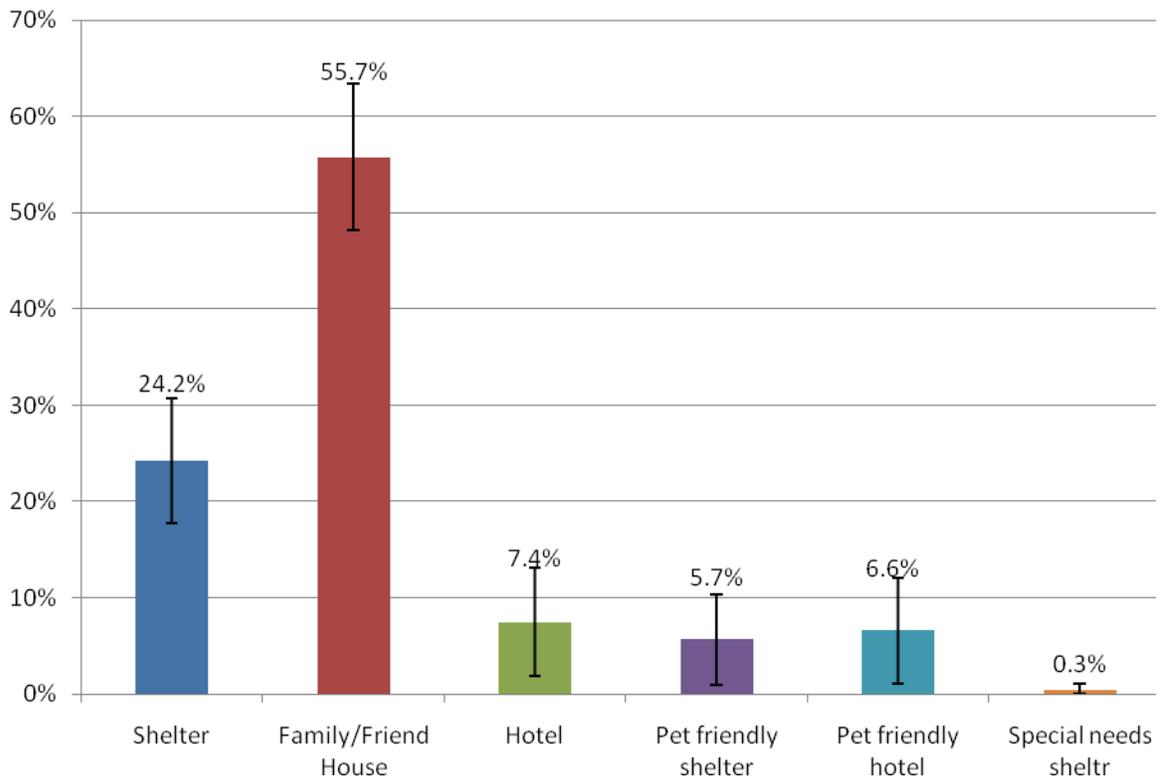
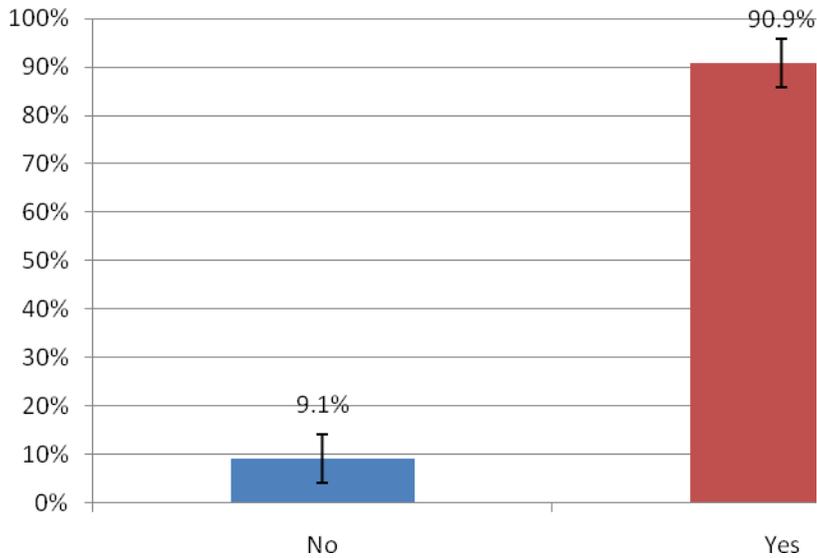
26. Are there any members of your family with special needs that would need additional assistance in the event of an emergency or evacuation?



What is the nature of their special needs:



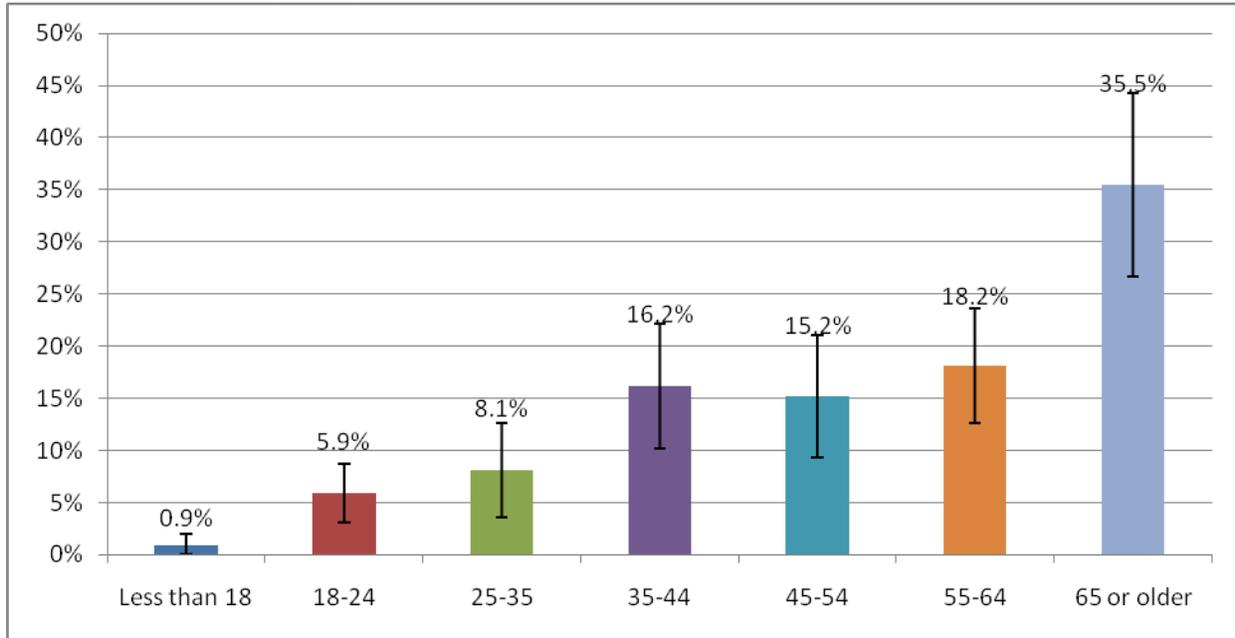
27. In the event of an emergency evacuation,
 a. Would you evacuate?
 b. Where would you go?



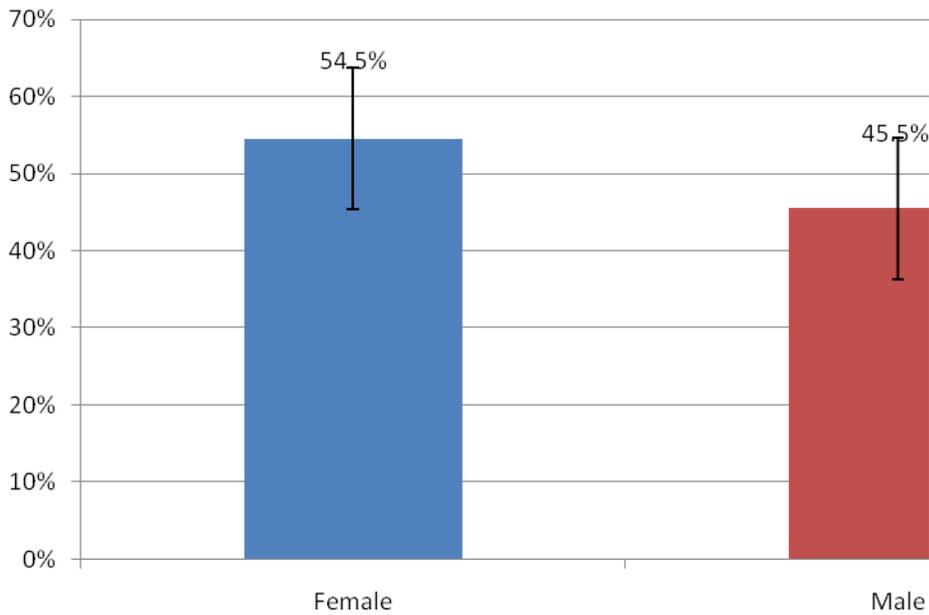
Demographic Questions

The next set of questions are general questions about you, which will only be reported as a summary of all answers given by survey participants. Your answers will remain anonymous.

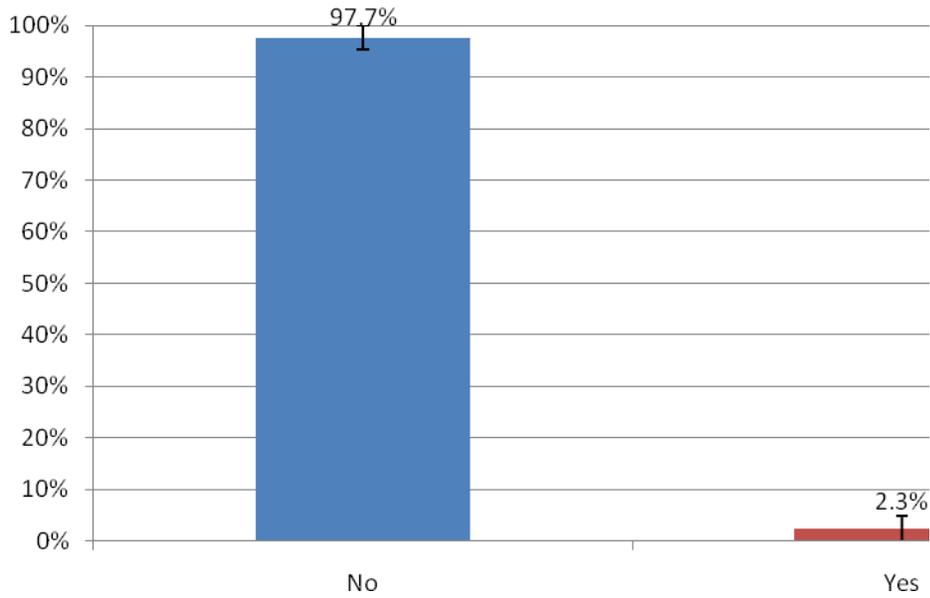
28. What is your age range?



29. Are You?

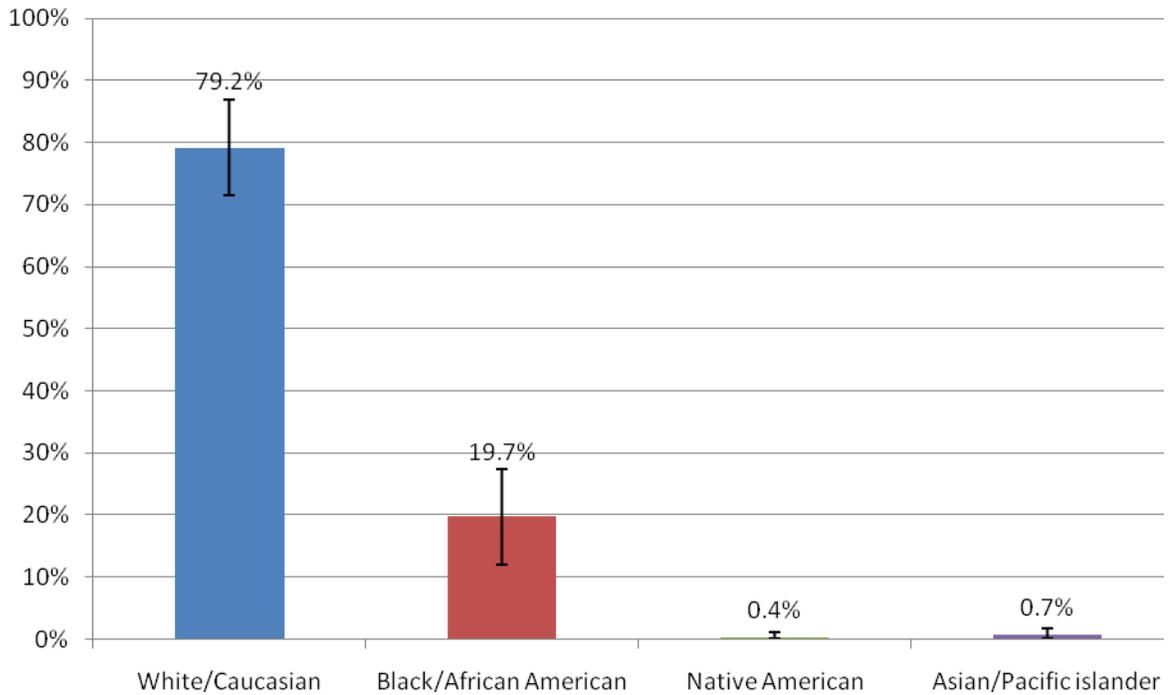


30. Are you of Hispanic origin?

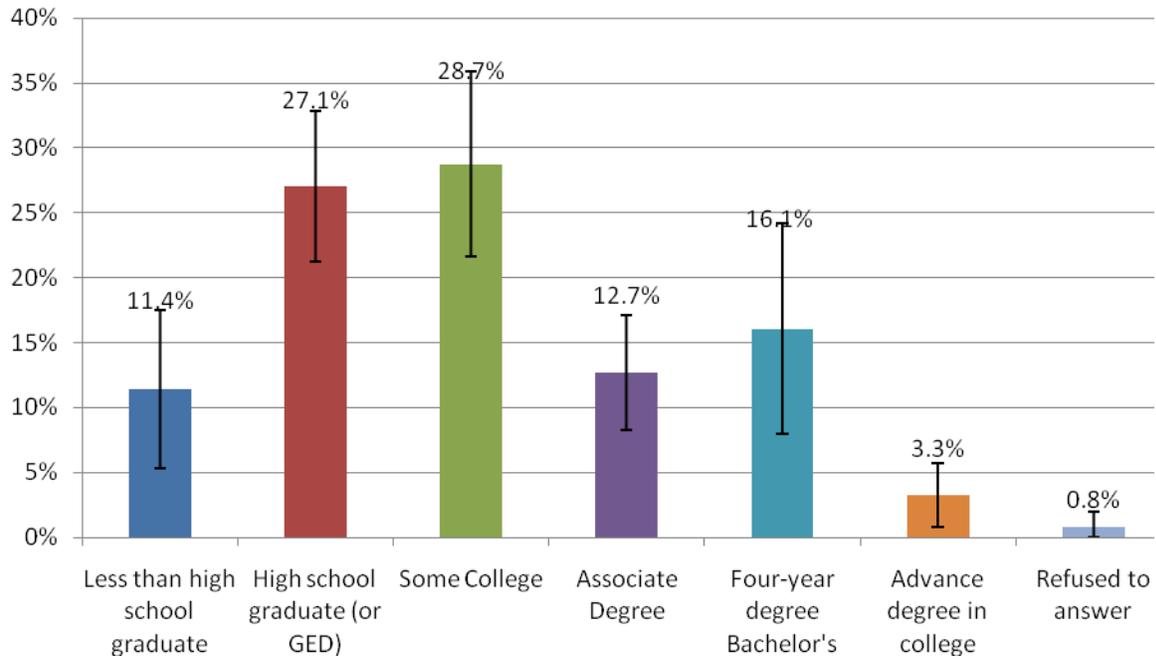


31. What is your race?

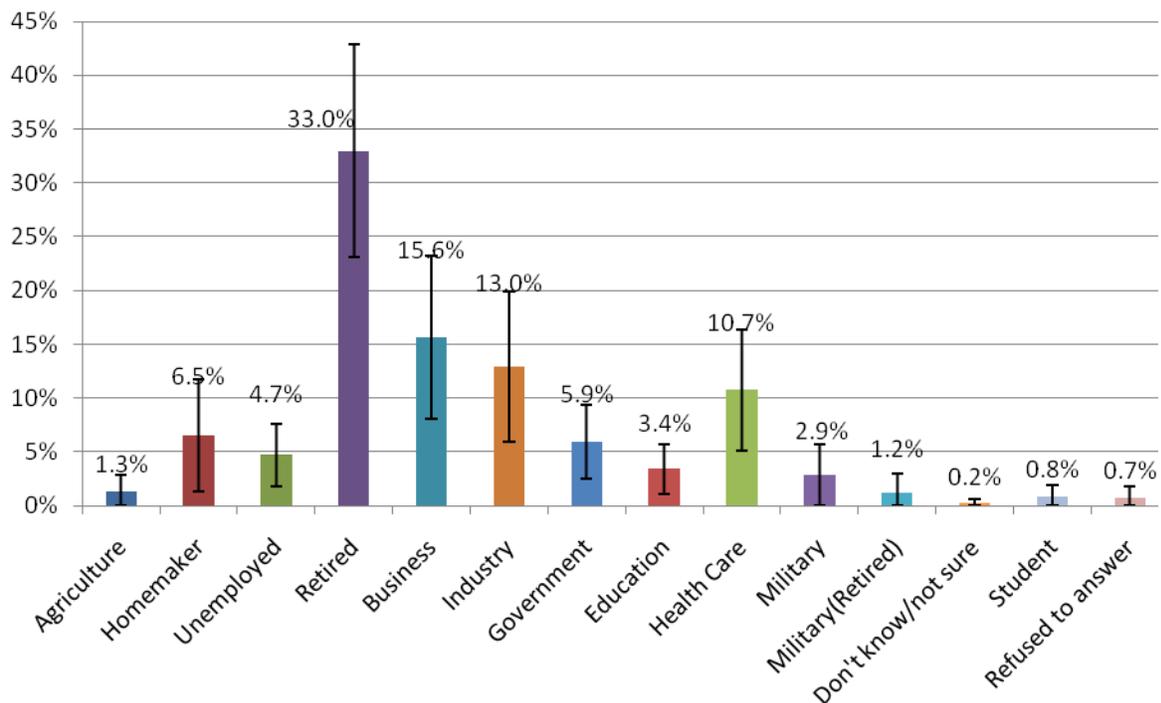
(Please check one and choose "other" if you do not identify with only one of the categories.)



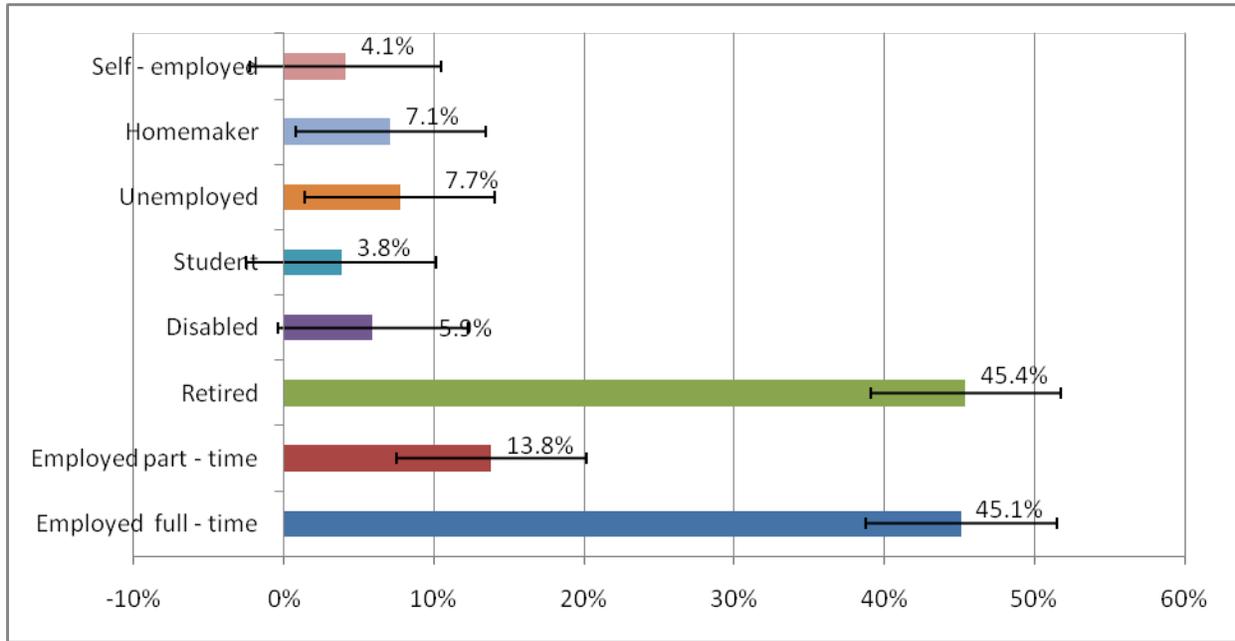
32. How much school have you completed?



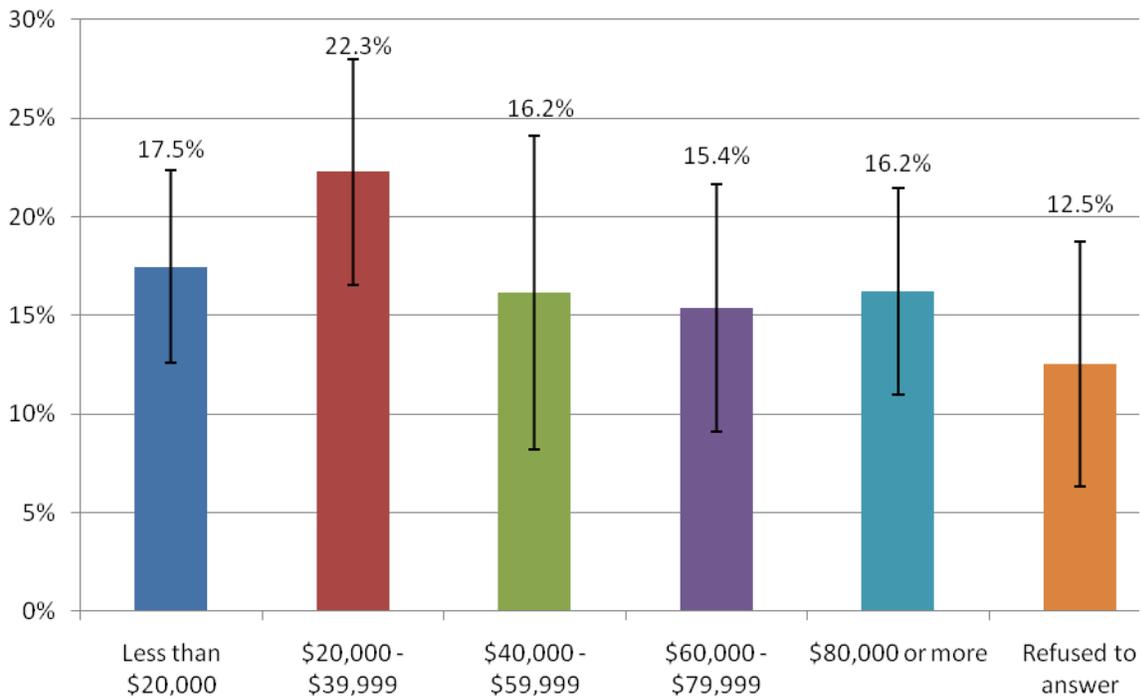
33. What is your job field?



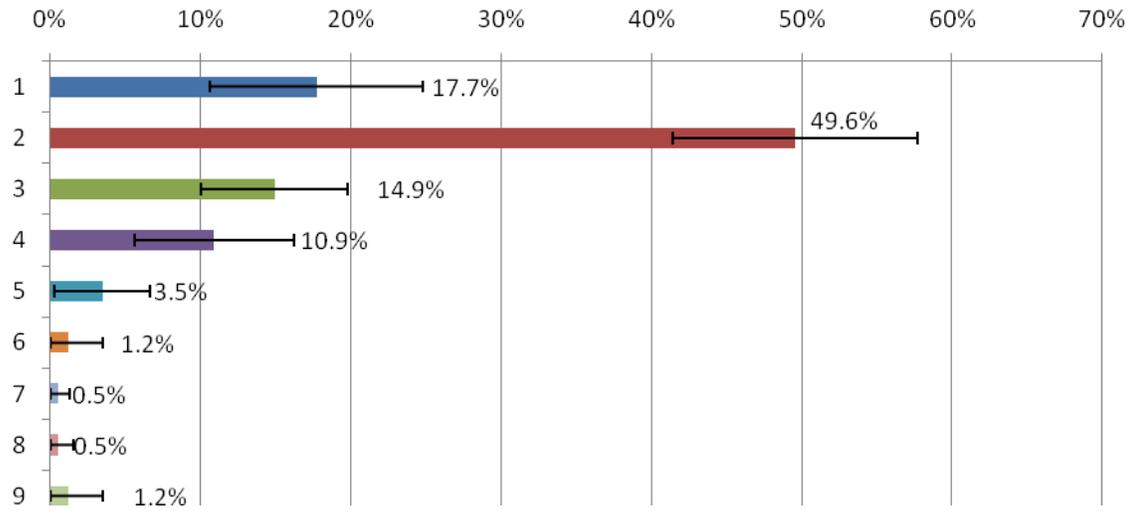
34. What is your employment status? I will read a list of choices. Let me know which ones apply to you.



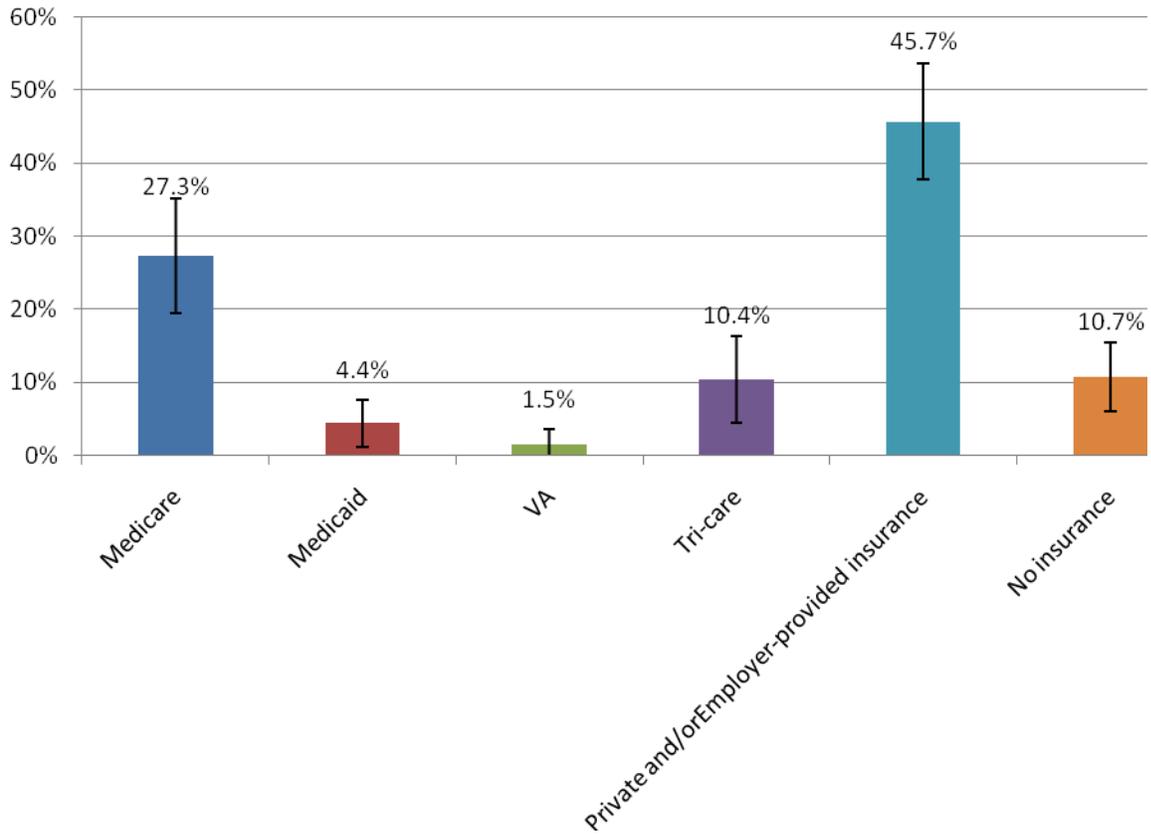
35. What was your household income in 2010, before taxes?



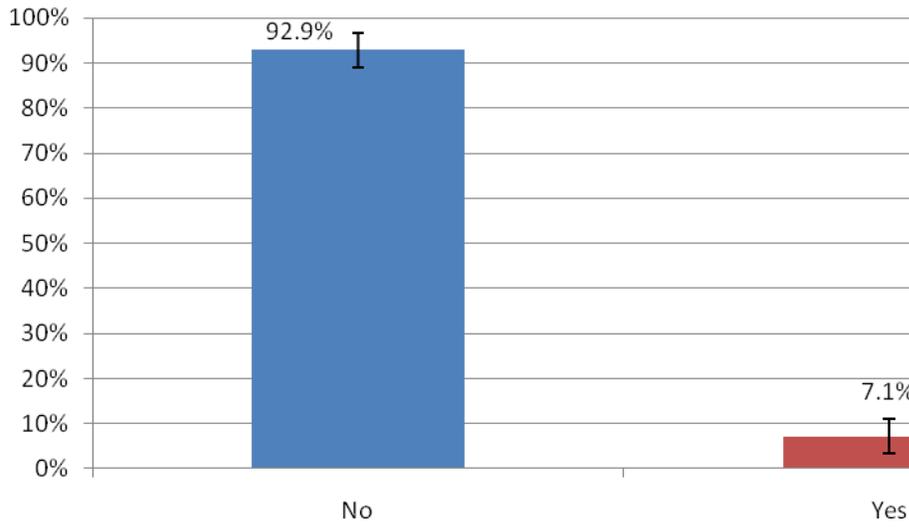
How many people does this income support? _____



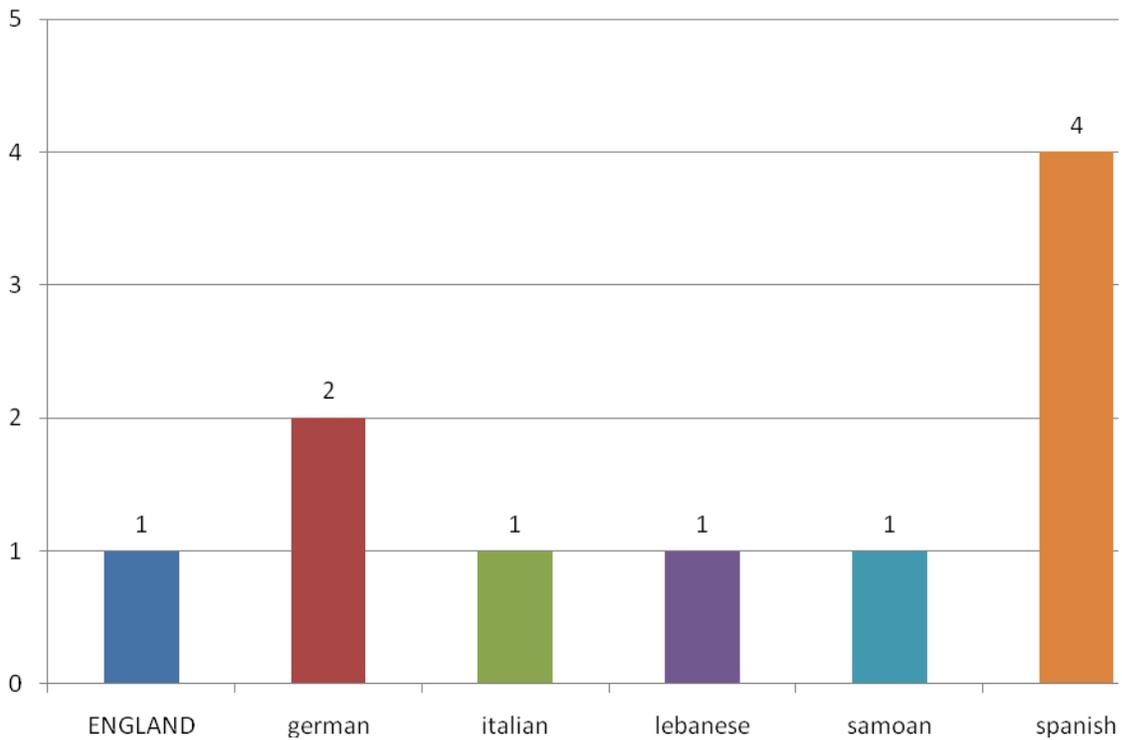
36. What type of health insurance do you have?



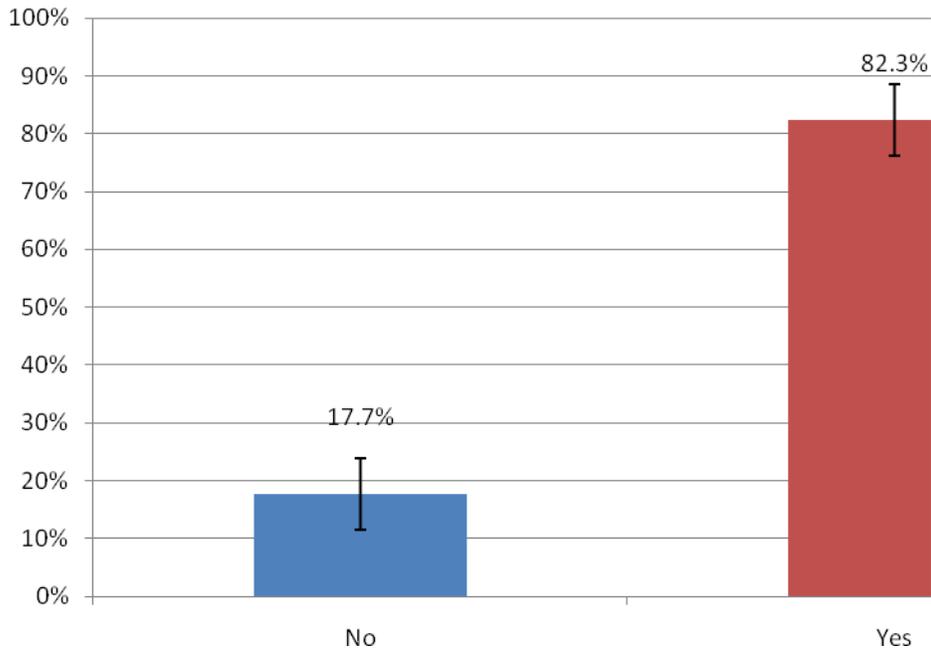
37. A. Do you speak a language other than English at home?



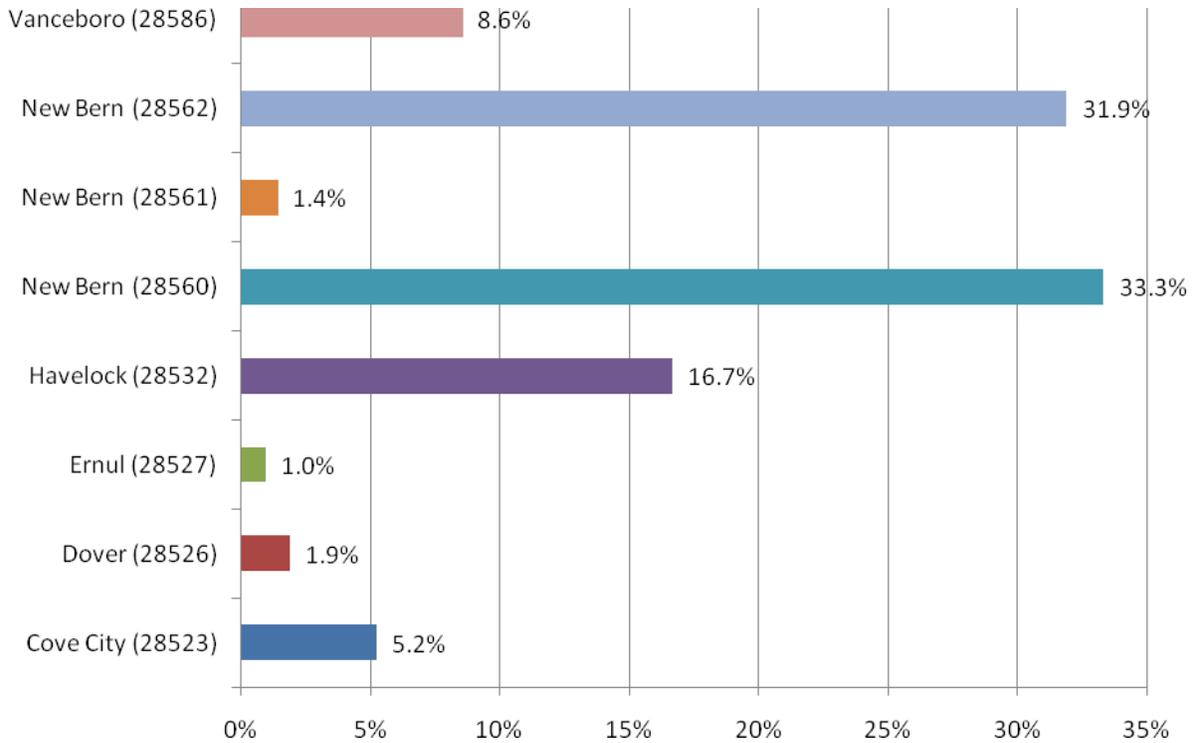
B. If yes, what language do you speak at home?



38. Do you have access to the Internet?

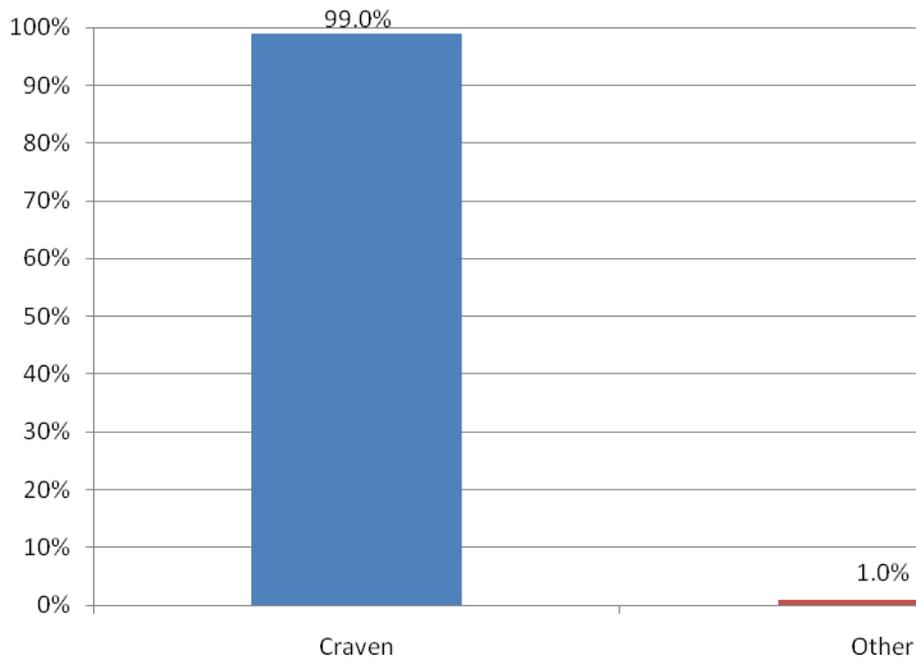


39. What is your zip code? (Write only the first 5 digits.)



(This chart is a percentage. Weighting was not used)

40. What is your county of residence?



With only 191 responses, the web-based survey did not get enough responses to be considered statistically significant. However, because the door-to-door survey was skewed towards older and retired citizens, we have evaluated the results of the web-based survey to help gain further insight. Although the web-based survey was skewed towards Caucasian females ages 45-54, the most popular answers are often similar. The summary of both surveys are presented side-by-side below. The door-to-door survey is labeled DD and highlighted in turquoise and the web-based survey is labeled WB and highlighted in bright green.

PART 1: Quality of Life Statements Statements	Choose a number for each statement below.				
	Strongly Disagree	Disagree	Neutral	Strongly Agree	Agree
<p>1. How do you feel about this statement, “There is a good healthcare system in Craven County”? Consider the cost and quality, number of options, and availability of healthcare in Craven County.</p>	DD 1.8 WB 5.2	3.7 13.6	21.1 24.6	54.2 24.6	19.2 8.9
<p>2. How do you feel about this statement, “Craven County is a good place to raise children”? Consider the quality and safety of schools and child care programs, after school programs, and places to play in this county.</p>	DD 0.3 WB 2.6	2.6 12.0	15.8 23.0	55.3 49.2	26.0 13.1
<p>3. How do you feel about this statement, “Craven County is a good place to grow old”? Consider our county’s elder-friendly housing, transportation to medical services, recreation, and services for the elderly.</p>	DD 1.5 WB 1.6	6.5 10.5	5.9 19.9	55.6 51.8	30.5 16.2
<p>4. How do you feel about this statement, “There is plenty of economic opportunity in Craven County”? Consider the number and quality of jobs, job training/higher education opportunities, and availability of affordable housing in Craven County.</p>	DD 10.1 WB 15.2	33.4 36.1	23.3 29.8	30.0 17.3	2.6 1.6
<p>5. How do you feel about this statement, “Craven County is a safe place to live”? Consider how safe you feel at home, in the workplace, in schools, at playgrounds, parks, and shopping centers in Craven County.</p>	DD 0 WB 1.0	5.1 4.2	14.9 19.4	63.3 63.4	16.6 12.0
<p>6. How do you feel about this statement, “There is plenty of help for individuals and families during times of need in Craven County”? Consider social support in Craven County: neighbors, support groups, faith community outreach, community organizations, and emergency monetary assistance.</p>	DD 5.2 WB 4.2	8.7 12.0	24.8 32.5	51.0 42.9	10.3 8.4
<p>7. How do you feel about this statement, “Craven County has programs in place to protect the natural resources and environment”? Consider wastewater treatment, water treatment, solid waste, air, etc.</p>	DD 2.9 WB 2.6	6.0 6.3	29.0 36.1	52.1 49.2	10.0 5.8

PART 2: Community Problems and Issues

7. These next questions are about health problems that have the largest impact on the community as a whole. Please look at this list of health problems. I would like for you to pick the most important health problems in Craven County. You can choose up to 5. Remember this is your opinion and your choices will not be linked to you in any way. If you do not see a health problem you consider one of the most important, please let me know and I will add it in. I can also read these out loud as you think about them.

12.1/44.9% Heart disease/heart attacks (high blood pressure, other risk factors)

11.7/29.0% Diabetes

11.6/64.2% Obesity/overweight

10.5/15.9% Cancer

7.3/26.7% Aging problems (Alzheimer's, arthritis, hearing or vision loss, etc.)

5.8/35.2% Mental health (depression, schizophrenia, suicide etc.)

2.2/31.3% Access to Health Care

5.4/30.1% Teenage pregnancy

Unhealthy Behaviors

8. These next questions are about unhealthy behaviors that some individuals do that have the largest impact on the community as a whole. Please look at this list of unhealthy behaviors. Pick top unhealthy behaviors in Craven County. Please choose up to 5. Remember this is your opinion and your choices will not be linked to you in any way. If you do not see an unhealthy behavior that you consider one of the most important, please let me know and I will add it in. I can also read these out loud as you think about them.

11.4/51.7% Texting /Cell Phone use while driving

11.3/52.3% Lack of exercise

8.5/48.9% Poor eating habits

8.5/50.0% Smoking/tobacco use

8.1/7.5% Having unsafe sex

7.4/77.0% Not going to the doctor for yearly check-ups and screenings

Community Issues

9. These next questions are about community-wide issues that have the largest impact on the overall quality of life in Craven County. Please look at this list of community issues. Pick the community issues that have the greatest effect on quality of life in Craven County. Please choose up to 5. Remember this is your opinion and your choices will not be linked to you in any way. If you do not see a community problem you consider one of the most important, please let me know and I will add it in. I can also read these out loud as you think about them.

- 10.4/15.9% Dropping out of school
- 9.8/25.6% Lack of/inadequate health insurance
- 8.5/39.2% Low income/poverty
- 8.5/36.4% Unemployment / under employed
- 5.5/21.6% Affordability/availability of housing
- 3.4/31.8% Affordability/availability of health services
- 5.3/31.8% Availability of positive teen activities
- 4.1/31.3% Lack of transportation options

PART 3: Personal Health

Now I am going to ask you some questions about your own personal health. Remember, the answers you give for this survey will not be linked to you in any way.

10. How would you rate your own health? Please choose only one of the following:
49.2/60.3% Healthy
11. Where do you get most of your health-related information or advice about your health? Please choose only one.
77.4/58.0% Doctor/nurse/pharmacist
12. Where do you go most often when you are sick?
78.6/61.5% Doctor's office
13. In the past 12 months, did you ever have a problem getting the health care, including home health services, nursing home, assisted living, you needed from any type of health care provider or facility?
95.0/86.2% No
14. Since you said "yes", which of these problems did you have? You can choose as many of these as you need to. If there was a problem you had that we do not have here, please tell us and I will write it in.
3.5/16.7% I didn't have health insurance
1.6/29.2% I couldn't get an appointment
15. In the past 12 months, did you have a problem filling a medically necessary prescription?
94.1/85.1% No

16. Since you said “yes”, which of these problems did you have? You can choose as many of these as you need to. If there was a problem you had that we do not have here, please tell us and I will write it in.
 2.5/32.0% My insurance didn’t cover what I needed.
 0.9/48.0% My share of the cost (deductible/co-pay) was too high.
17. Was there a time during the past 12 months when you needed to get dental care, but could not?
 89.4/82.8% No
18. Since you said “yes”, why could you not get dental care? You can choose as many of these as you need to. If there was a problem you had that we do not have here, please tell us and I will write it in.
 9.6/30.0% I didn’t have dental insurance.
 2.7/53.3% I couldn’t afford the cost.
19. If a friend or family member needed counseling or treatment for a mental health or a drug/alcohol abuse problem, from whom would you tell them to seek care?
 24.7/49.1% Private counselor or therapist
 32.2/11.1% Don’t know
20. Are you exposed to secondhand smoke in any of the following places (*Check all that apply*)
 74.2/62.0% I am not exposed to secondhand smoke.
21. Do you currently smoke?
 78.9/86.5% No
22. If yes, where would you go for help if you wanted to quit?
 9.7/26.1% Doctor
 7.9/30.4% Not applicable; I don’t want to quit

Part 4. Emergency Preparedness

23. Does your household have a Family Emergency Plan?
 55.1/49.1% Yes 44.9/50.9% No
24. What kind of Family Emergency Plans(s) does your household have?
 50.1/81.9% Fire
25. Does your family have a basic emergency supply kit, including first aid kit, food and water? If yes, how many for days do you have supplies?
 31.5/42.7% No
26. Are there any members of your family with special needs that would need additional assistance in the event of an emergency or evacuation?
 85.7/90.1% No
 What is the nature of their special needs:
 77.5/47.1% Health – (infirm, durable medical goods, etc.)
27. In the event of an emergency evacuation, would you evacuate?
 90.9/88.9% Yes

28. Where would you go?
55.7/61.8% Family / friend

Part 5. Demographic Questions

The next set of questions are general questions about you, which will only be reported as a summary of all answers given by survey participants. Your answers will remain anonymous.

10. What is your age range?
15.2/27.2% 45-54
15.3/35.5/2.4% 65 or older
28. Are You?
55.5/79.7% Female
29. Are you of Hispanic origin?
97.7/95.3% No
30. What is your race? (Please check one and choose "other" if you do not identify with only one of the categories.)
70.0/79.1/85.8% White/Caucasian
31. How much school have you completed
28.7/29.0% Some college
32. What is your job field?
10.7/33.7% Health Care
33.0/2.4% Retired
33. What is your employment status? *(Check all that apply.)*
45.1/85.1% Employed full-time
45.4/5.9% Retired
34. What was your household income in 2010, before taxes?
22.3/23.1% \$20,000 - \$39,999
16.2/31.4% \$ 80,000 or greater
35. How many people does this income support?
49.6/34.9% 2
35. What type of health insurance do you have?
45.7/50.3% Private and/or Employer-provided Insurance
36. A. Do you speak a language other than English at home?
92.9/93.5% No
37. Do you have access to the Internet?
82.3/98.8% Yes

During the next process, we will consider conducting more of the door-to-door surveys in the evening and possibly on a Saturday; or, we may contact the residents of the randomly-selected addresses by phone or mail over a pre-established period of time before giving the survey to the alternate resident. We will also attempt to increase our web-based method by distributing to businesses, churches, schools and other community venues.

Health Priorities

All of the information in this report was presented to the Community Health Assessment Task Force and the Craven County Board of Health in a Power Point presentation. Based on the information presented they were asked to choose the top three health concerns they felt should be addressed for the next three to four years by both the Health Department and our community partners.

The results are as follows:

1. Obesity
2. Heart Disease
3. Cancer

Other issues that were not selected but will be addressed with existing Health Department initiatives are:

1. Diabetes
2. Teen Pregnancy
3. Adult and Pediatric Asthma
4. Tobacco Use
5. HIV and Sexually Transmitted Infections

Populations at Risk

Minorities:

For just about every health indicator mentioned in this report the statistics for the minority population are higher than those for the white population. There are many reasons for these results; higher numbers of minorities living at or below poverty level, cultural factors and access to health care are just a few. The Craven County Health Department and its partners continue to be dedicated to closing the gap. The health department offers access to those who are unable to pay due to income, we provide interpreter services for those who are not English proficient and we also consider cultural sensitivity an important customer service. We have a strong relationship with our African American Churches and hope to expand the numbers of health promotion/health education activities offered to their memberships.

Uninsured/Underinsured:

With the current state of the economy, the cost of health care, the cost of health insurance and unemployment at very high levels the numbers of uninsured in Craven County will continue to grow over the next four years. Access to health care for this population is limited. Many are denied access due to an inability to pay a medical bill in full. Often a diagnosis is made too late; therefore, resulting in a poor prognosis. We do have the MERCI free clinic located in New Bern; however they are a nonprofit organization that depends upon donations and grant monies for survival. The Craven County Health Department recently opened an adult primary care program where services are provided on a sliding fee scale. While some progress has been made to increase access to care for this population the need is still great and there is more work to be completed.

Burmese Refugees:

The New Bern/Craven County area has become a safe haven for over 200 new Burmese refugees each year. This population often enters the country with multiple health issues and access to care is difficult. While they start out with Medicaid for the first nine months often they are left without coverage after that time period has passed. The language barrier is a huge obstacle for this population as translators are not readily available. There are cultural

factors that present a problem when attempting to teach health and wellness. Many have not had access to medical care and the concepts of our health care system are very foreign.

Summary

Through strong community partnerships a strategic plan will be formulated based on these issues and an effort will be made to address each priority with at least one initiative in the next three to four years. The issues identified in this report will serve as a guide for the future course of the Craven County Health Department and our community partners.

A special thanks goes out to all of those groups and individuals whose team efforts made this document a successful report.

References

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- Chamber of Commerce, New Bern, NC; <http://www.newberinchamber.com>
- Craven County Health Department; <http://www.cravencounty.com>
- Craven County Schools; <http://schools.craven.k12.nc.us/>
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- Havelock, City of; <http://www.cityofhavelock.com>
- National Center for Health Statistics; <http://www.cdc.gov/nchc>
- National Health and Nutrition Examination Survey; <http://www.cdc.gov/nchs/nhanes.htm>
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- UNC Sheps Center for Health Services Research; www.shepscenter.unc.edu
- US Census Bureau; <http://quickfacts.census.gov/qfd/states/37/37049.html>

Appendices

- A. Web-based survey results**
- B. CarolinaEast Health System group practice listing for those physicians with clinical privileges**

1. How do you feel about this statement, “There is a good healthcare system in Craven County”? Consider the cost and quality, number of options, and availability of healthcare in Craven County.

		Response Percent	Response Count
Strongly Disagree		5.2%	10
Disagree		13.6%	26
Neutral		24.6%	47
Agree		47.6%	91
Strongly Agree		8.9%	17
answered question			191
skipped question			0

2. How do you feel about this statement, “Craven County is a good place to raise children”? Consider the quality and safety of schools and child care programs, after school programs, and places to play in this county.

		Response Percent	Response Count
Strongly Disagree		2.6%	5
Disagree		12.0%	23
Neutral		23.0%	44
Agree		49.2%	94
Strongly Agree		13.1%	25
answered question			191
skipped question			0

3. How do you feel about this statement, "Craven County is a good place to grow old?"

		Response Percent	Response Count
Strongly Disagree		1.6%	3
Disagree		10.5%	20
Neutral		19.9%	38
Agree		51.8%	99
Strongly Agree		16.2%	31
answered question			191
skipped question			0

4. How do you feel about this statement, "There is plenty of economic opportunity in Craven County" ?

		Response Percent	Response Count
Strongly Disagree		15.2%	29
Disagree		36.1%	69
Neutral		29.8%	57
Agree		17.3%	33
Strongly Agree		1.6%	3
answered question			191
skipped question			0

5. How do you feel about this statement, "Craven County is a safe place to live"? Consider how safe you feel at home, in the workplace, in schools, at playgrounds, parks, and shopping centers in Craven County.

		Response Percent	Response Count
Strongly Disagree		1.0%	2
Disagree		4.2%	8
Neutral		19.4%	37
Agree		63.4%	121
Strongly Agree		12.0%	23
answered question			191
skipped question			0

6. How do you feel about this statement, "There is plenty of help for individuals and families during times of need in Craven County"? Consider social support in Craven County: neighbors, support groups, faith community outreach, community organizations, and emergency monetary assistance.

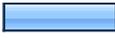
		Response Percent	Response Count
Strongly Disagree		4.2%	8
Disagree		12.0%	23
Neutral		32.5%	62
Agree		42.9%	82
Strongly Agree		8.4%	16
answered question			191
skipped question			0

7. How do you feel about this statement, "Craven County has programs in place to protect the natural resources and environment"? Consider wastewater treatment, water treatment, solid waste, air, etc.

		Response Percent	Response Count
Strongly Disagree		2.6%	5
Disagree		6.3%	12
Neutral		36.1%	69
Agree		49.2%	94
Strongly Agree		5.8%	11
answered question			191
skipped question			0

8. These next questions are about health problems that have the largest impact on the community as a whole. Pick the most important health problems in Craven County. You can choose from 1 to 5 answers. Your responses will not be "ranked" by the order they were chosen. Remember this is your opinion and your choices will not be linked to you in any way.

		Response Percent	Response Count
Access to Health Care		31.3%	55
Accidental injuries (burns, poisoning, choking, home or work related)		5.7%	10
Aging problems (Alzheimer's, arthritis, hearing or vision loss, etc.)		26.7%	47
Asthma		14.8%	26
Autism		4.5%	8
Birth defects		1.7%	3
Cancer (What kind? Explain in "other" box)		15.9%	28
Dental health		13.1%	23
Diabetes		29.0%	51
Heart disease/heart attacks (high blood pressure, other risk factors)		44.9%	79
Infant Death		4.0%	7
Infectious/Contagious diseases (TB, food poisoning, pneumonia, flu, etc.)		10.2%	18
Kidney disease		3.4%	6
Liver disease		0.6%	1
Mental Health (depression, schizophrenia, suicide, etc.)		35.2%	62
Motor vehicle accidents		25.0%	44

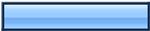
Neurological disorders (Multiple Sclerosis, muscular dystrophy, A.L.S.)		1.7%	3
Obesity/overweight		64.2%	113
Lung disease (emphysema, etc.)		11.4%	20
Sickness from animals/insects (rabies, rocky mountain spotted fever, etc.)		5.7%	10
Sexually transmitted infections (STIs)		16.5%	29
HIV/AIDS		4.5%	8
Stroke		7.4%	13
Teenage pregnancy		30.1%	53
Understanding medical/medicine advice, instructions		16.5%	29
Violent injury		5.1%	9
Water safety drowning		10.8%	19
Other (please specify)		10.2%	18
answered question			176
skipped question			15

9. These next questions are about unhealthy behaviors that some individuals do that have the largest impact on the community as a whole. Pick top unhealthy behaviors in Craven County. You can choose from 1 to 5 answers. Your responses will not be "ranked" by the order they were chosen. Remember this is your opinion and your choices will not be linked to you in any way.

		Response Percent	Response Count
Unsafe boating		7.4%	13
Having unsafe sex		37.5%	66
Lack of exercise		52.3%	92
Not getting immunizations ("shots" to prevent disease)		6.8%	12
Not getting prenatal (pregnancy) care		5.1%	9
Not going to a dentist for preventive check-ups/care		19.9%	35
Not going to the doctor for yearly check-ups and screenings		17.0%	30
Not using child safety seats		5.7%	10
Not using helmets (bicycle, ATV)		10.8%	19
Not using seat belts		7.4%	13
Gun Safety (Improper storage, use of guns)		11.4%	20
Poor eating habits		48.9%	86
Poor handwashing		19.9%	35
Promoting underage substance abuse (drinking, etc.)		19.3%	34
Reckless/drunk driving		37.5%	66
Smoking/tobacco use		50.0%	88
Substance abuse(includes alcohol, over-the-counter or prescriptions)		47.7%	84

medicine, illegal drugs, etc.)			
Suicide		4.5%	8
Texting/Cell Phone use while driving		51.7%	91
Violent behavior		6.8%	12
Other (please specify)		0.6%	1
answered question			176
skipped question			15

10. These next questions are about community-wide issues that have the largest impact on the overall quality of life in Craven County. Pick the community issues that have the greatest effect on quality of life in Craven County. You can choose from 1 to 5 answers. Your responses will not be "ranked" by the order they were chosen. Remember this is your opinion and your choices will not be linked to you in any way.

		Response Percent	Response Count
Animal control issues		15.3%	27
Affordability/availability of child care		23.3%	41
Affordability/availability of dental services		14.8%	26
Affordability/availability of health services		31.8%	56
Affordability/availability of housing		21.6%	38
Bioterrorism		0.0%	0
Dropping out of school		15.9%	28
Homelessness		5.7%	10
Lack of/inadequate health insurance		25.6%	45
Lack of culturally sensitive health services/translations		4.5%	8
Lack of health care providers What kind?		7.4%	13
Lack of recreational facilities (parks, Trails, community centers, etc.)		20.5%	36
Lack of sidewalks and safe crosswalks		28.4%	50
Availability of healthy family activities		14.8%	26
Availability of positive teen activities		31.8%	56

Neglect and abuse Elder		5.1%	9
Neglect and abuse Child		12.5%	22
Neglect and abuse Disabled		1.1%	2
Pollution (air, water, land)		12.5%	22
Low income/poverty		39.2%	69
Racism/discrimination		9.1%	16
Lack of transportation options		31.3%	55
Unemployment/under employed		36.4%	64
Unsafe, un-maintained roads		13.1%	23
Violet crime (murder, assault, etc.)		6.3%	11
Rape/sexual assault		2.3%	4
Domestic Violence		13.1%	23
Comments and/or Other (please specify)		8.5%	15
answered question			176
skipped question			15

11. How would you rate your own health? Please choose only one of the following:

		Response Percent	Response Count
Very healthy		13.2%	23
Healthy		60.3%	105
Somewhat healthy		24.1%	42
Unhealthy		1.1%	2
Very unhealthy		1.1%	2
answered question			174
skipped question			17

12. Where do you get most of your health-related information or advice about your health? Please choose only one.

		Response Percent	Response Count
Friends and family		5.2%	9
Doctor/nurse/pharmacist		58.0%	101
Internet		21.8%	38
Hospital		2.3%	4
Help lines		0.0%	0
Books/magazines		3.4%	6
School		0.0%	0
Church		0.0%	0
Other (please specify)		9.2%	16
answered question			174
skipped question			17

13. Where do you go most often when you are sick? Choose the one that you usually go to.

		Response Percent	Response Count
Doctor's office		61.5%	107
Urgent Care Center		17.2%	30
Free Medical Clinic		1.7%	3
Hospital/Emergency Dept		1.7%	3
Health Department		0.6%	1
VA Clinic/Hospital		3.4%	6
Other (please specify)		13.8%	24
		answered question	174
		skipped question	17

14. In the past 12 months, did you ever have a problem getting the health care, including home health services, nursing homes, assisted living, you needed from any type of health care provider or facility"

		Response Percent	Response Count
Yes		13.8%	24
No		86.2%	150
		answered question	174
		skipped question	17

15. Since you said "yes", which of these problems did you have? You can choose as many as you need to.

		Response Percent	Response Count
I didn't have health insurance.		16.7%	4
My insurance didn't cover what I needed.		8.3%	2
My share of the cost (deductible/co-pay) was too high.		8.3%	2
Doctor would not take my insurance, Tri-Care, Medicare or Medicaid.		20.8%	5
Hospital would not take my insurance, Tri-Care, Medicare or Medicaid.		4.2%	1
I didn't have a way to get there.		0.0%	0
I didn't know where to go.		4.2%	1
I couldn't get an appointment.		29.2%	7
Other (please specify)		41.7%	10
		answered question	24
		skipped question	167

16. In the past 12 months, did you have a problem filling a medically necessary prescription?

		Response Percent	Response Count
Yes		14.9%	26
No		85.1%	148
answered question			174
skipped question			17

17. Since you said "yes", which of these problems did you have? You can choose as many as you need to.

		Response Percent	Response Count
I didn't have health insurance.		12.0%	3
My insurance didn't cover what I needed.		32.0%	8
My share of the cost (deductible/co-pay) was too high.		48.0%	12
Pharmacy would not take my insurance, Tri-Care, Medicare or Medicaid		16.0%	4
I didn't have a way to get there.		0.0%	0
I didn't know where to go.		0.0%	0
Other (please specify)		12.0%	3
answered question			25
skipped question			166

18. Was there a time during the past 12 months when you needed to get dental care, but could not?

		Response Percent	Response Count
Yes		17.2%	30
No		82.8%	144
answered question			174
skipped question			17

19. Since you said "yes", why could you not get dental care? You can choose as many of these as you need to.

		Response Percent	Response Count
I didn't have dental insurance.		30.0%	9
My insurance didn't cover what I needed.		30.0%	9
I couldn't afford the cost.		53.3%	16
Dentist would not take my insurance of Medicaid.		0.0%	0
My share of the cost (deductible/co-pay) was too high		36.7%	11
I didn't have a way to get there.		0.0%	0
I didn't know where to go.		16.7%	5
I couldn't get an appointment.		6.7%	2
Other (please specify)		10.0%	3
answered question			30
skipped question			161

20. If a friend or family member needed counseling or treatment for a mental health or a drug/alcohol abuse problem, from whom would you tell them to seek care? You can choose as many as you want.

		Response Percent	Response Count
Private counselor or therapist		49.1%	84
Support group (e.g., AA, Al-Anon)		33.9%	58
School counselor		11.1%	19
Don't know		11.1%	19
East Carolina Behavioral Health (hot lines)		18.7%	32
Doctor		42.7%	73
Minister/religious official		29.2%	50
Inpatient care or hospitalization		14.0%	24
Other (please specify)		7.6%	13
		answered question	171
		skipped question	20

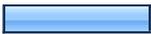
21. Are you exposed to secondhand smoke in any way of the following places? Check all that apply.

		Response Percent	Response Count
Home		21.1%	36
Workplace		11.1%	19
School		0.0%	0
I am not exposed to secondhand smoke		62.0%	106
Other (please specify)		11.7%	20
answered question			171
skipped question			20

22. Do you currently smoke?

		Response Percent	Response Count
Yes		13.5%	23
No		86.5%	148
answered question			171
skipped question			20

23. If yes, where would you go for help if you wanted to quit? Mark all the apply.

		Response Percent	Response Count
Quit Now NC		13.0%	3
Doctor		26.1%	6
Church		4.3%	1
Pharmacy		8.7%	2
Private counselor/therapist		4.3%	1
Health Department		0.0%	0
I don't know		17.4%	4
Not applicable; I don't want to quit		30.4%	7
Other (please specify)		21.7%	5
answered question			23
skipped question			168

24. Does you household have a Family Emergency Plan?

		Response Percent	Response Count
Yes		49.1%	84
No		50.9%	87
answered question			171
skipped question			20

25. What kind of Family Emergency Plan(s) does your household have?

		Response Percent	Response Count
Fire		81.9%	68
Flood		43.4%	36
Evacuation		79.5%	66
answered question			83
skipped question			108

26. Does your family have a basic emergency supply kit, including first aid kit, food and water? If yes, how many days do you have supplies?

		Response Percent	Response Count
Yes - 3 days		22.8%	39
Yes - 1 week		23.4%	40
Yes - 2 weeks		6.4%	11
Yes - More than 2 weeks		4.7%	8
No		42.7%	73
answered question			171
skipped question			20

27. Are there any members of you family with special needs that would need additional assistance in the event of an emergency or evacuation?

		Response Percent	Response Count
Yes		9.9%	17
No		90.1%	154
answered question			171
skipped question			20

28. If yes what is the nature of their special needs? At the end of this survey you will have an opportunity to add your household to the special needs registry.

		Response Percent	Response Count
Health - (infirm, durable medical goods, etc.)		47.1%	8
Mental - (custodial care, etc.)		11.8%	2
Aged		29.4%	5
Very young - need help with children		5.9%	1
Transportation - cannot evacuate		0.0%	0
Other (please specify)		5.9%	1
answered question			17
skipped question			174

29. In the event of an emergency evacuation, would your household evacuate?

		Response Percent	Response Count
Yes		88.9%	152
No		14.0%	24

If no, why wouldn't your household evacuate? 15

answered question 171

skipped question 20

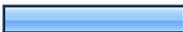
30. Where would your household evacuate?

		Response Percent	Response Count
Shelter		10.5%	16
Family/friend house		61.8%	94
Hotel		16.4%	25
Pet friendly shelter		18.4%	28
Pet friendly hotel		20.4%	31
Special needs shelter		0.7%	1
Other (please specify)		6.6%	10

answered question 152

skipped question 39

31. What is your age range?

		Response Percent	Response Count
Less than 18		0.0%	0
18-24		10.7%	18
25-35		18.9%	32
35-44		21.9%	37
45-54		27.2%	46
55-64		18.9%	32
65 or older		2.4%	4
answered question			169
skipped question			22

32. Are you?

		Response Percent	Response Count
Male		21.3%	36
Female		78.7%	133
answered question			169
skipped question			22

33. Are you of Hispanic origin?

		Response Percent	Response Count
Yes		4.7%	8
No		95.3%	161
answered question			169
skipped question			22

34. What is your race? Please choose "other" if you do not identify with only one the categories.

		Response Percent	Response Count
White/Caucasian		85.8%	145
Black/African American		10.7%	18
Native American		0.0%	0
Asian/Pacific Islander		0.6%	1
Other (please specify)		3.0%	5
answered question			169
skipped question			22

35. How much school have you completed?

		Response Percent	Response Count
Less than a high school graduate		0.0%	0
High school graduate or GED		7.1%	12
Some college		29.0%	49
Associate Degree		20.1%	34
Four-year degree (Bachelors)		23.1%	39
Advanced degree in college (Masters, PhD)		20.7%	35
		answered question	169
		skipped question	22

36. What is your job field?

		Response Percent	Response Count
Agricultural		0.6%	1
Business		5.9%	10
Industry		1.8%	3
Government		26.0%	44
Education		2.4%	4
Health Care		33.7%	57
Military		10.7%	18
Military (Retired)		1.8%	3
Student		1.2%	2
Homemaker		5.3%	9
Unemployed		1.2%	2
Retired		2.4%	4
Other (please specify)		7.1%	12
answered question			169
skipped question			22

37. What is your employment status? Check all that applies.

		Response Percent	Response Count
Employed full-time		81.1%	137
Employed part-time		6.5%	11
Retired		5.9%	10
Disabled		3.0%	5
Student		3.6%	6
Unemployed		1.2%	2
Homemaker		8.3%	14
Self-employed		1.2%	2
answered question			169
skipped question			22

38. What was your household income in 2010, before taxes?

		Response Percent	Response Count
Less than \$20,000		5.9%	10
\$20,000 - \$39,999		23.1%	39
\$40,000 - \$59,999		23.1%	39
\$60,000 - \$79,999		16.6%	28
\$80,000 or greater		31.4%	53
answered question			169
skipped question			22

39. How many people does this income support?

		Response Percent	Response Count
1		14.2%	24
2		34.9%	59
3		20.7%	35
4		18.3%	31
5		5.9%	10
6		4.1%	7
7		1.2%	2
8		0.0%	0
9		0.6%	1
10		0.0%	0
11		0.0%	0
12		0.0%	0
More than 12		0.0%	0
answered question			169
skipped question			22

40. What type of health insurance do you have?

		Response Percent	Response Count
Medicare		1.8%	3
Medicaid		0.0%	0
VA		1.2%	2
Tri-Care		37.9%	64
Private and/or Employer-provided insurance		50.3%	85
No insurance		3.6%	6
Other (please specify)		5.3%	9
answered question			169
skipped question			22

41. Do you speak a language other than English at home?

		Response Percent	Response Count
Yes		6.5%	11
No		93.5%	158
answered question			169
skipped question			22

42. What language other than English do you speak at home?

	Response Count
	6
answered question	6
skipped question	185

43. Do you have access to the Internet?

		Response Percent	Response Count
Yes		98.8%	167
No		1.2%	2
	answered question		169
	skipped question		22

44. What is your county of residence?

		Response Percent	Response Count
Craven		99.4%	168
Other (please specify)		0.6%	1
	answered question		169
	skipped question		22

45. What is your zip code? (Only the first 5 digits)

**Response
Count**

169

answered question

169

skipped question

22

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

Group	Phone	Fax	Name
Allergy & Asthma Clinic 2417 Neuse Blvd, New Bern, NC 28562	252-636-2625	252-635-1530	Zechman, James M, MD
Cardiac, Thoracic and Vascular Associates of Eastern Carolina 960 Newman Rd, New Bern, NC 28562	252-633-6730	252-633-6740	Dumicz, Piotr, MD Halligan, Michael E, MD
Carolina Craniospinal Neurosurgery 2111 Neuse Blvd, Suite A, New Bern, NC 28560	252-638-4500	252-637-6797	Dalrymple, Stephen J, MD Held, Mark C, MD
Carolina Lithotripsy 2014 Litho Place, Fayetteville, NC 28304	910-222-8096	910-223-0600	Bass, Sandra L, RN Brochard, Guy E, RT Cox, JoAnn H, RT Henson, Jr, Larry D, RT Holst, Shelene F, RT Johnson, Patricia A, RN Lawrence, Sandra L, RN White, Mary O, RN
Carolina Orthopedics & Sports Medicine, Inc. 738 Newman Rd, New Bern, NC 28562	252-634-2676	252-633-1741	Arthur, Barton S, MD Blair, Jr, Robert G, MD Bradley, Raymond J, MD Bright, Donald S, MD Hiller, Carl J, MD Vandersea, Harold M, MD Warner, Kristin K, MD Wertman, Mark G, MD Wheatley, William B, MD Barnes (Vause), Judy K, RN Braxton (Corwin), E Jane, ST Bright, Patricia M, ST Duignan, Alan J, PAC Finch, Mary L, LPN Haworth, Laura R, LPN Lopez, Guy E, RN Mercer, Rebecca J, PAC O'Neil, Dennis M, PAC Powers, Kelly N, LPN Rice, Deborah C, RN Venable, Donna L, CST

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

CarolinaEast Heart Center 1001 Newman Rd, New Bern, NC 28562	252-635-6777	252-634-3183	Eles, Gustav R, DO Farmer, Laurance D, MD Hudson, Christopher J, MD Kirby, Alex R, MD Park, Angela M, MD Williams III, John A, MD Ahmed, Sagir, MD Mohiuddin, Ishtiaque H, MD Johnson, Janet V, RN Koson, Terri L, NP Scott, Dusty L, PA
CarolinaEast Heart Center 3332 Bridges St, Morehead City, NC 28557	252-808-0145	252-808-2770	Ard, Scott W, MD Cohen, Joseph, MD Gould, John L, MD Lynch, Jo-ann E, MD Locum
CarolinaEast - Critical Care 2000 Neuse Blvd, PO Box 12157, New Bern, NC 28561	TBA	TBA	Everett, Roy N, MD
CarolinaEast Internal Medicine 137 Medical Lane, PO Box 68, Pollocksville, NC 28573	252-633-1010	252-224-3071	Atkinson, Christopher R, DO Bender, Neil C, MD Davis, Michael E, MD Farina, Nicholas, MD Goodwin, Bonnie J, MD Marks, Kathy A, MD Moeller, Mark B, MD Moeller, Wendy P, MD Reardon, Michael L, MD Towarnicky, Michael R, MD Lewis, Melanie A, NP

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

CarolinaEast Internal Medicine 2604 Dr Martin L King Jr Blvd, PO Box 13187, New Bern, NC 28561-3187	252-638-4023	252-633-2833	Ayers, Jr, John C, MD Duffy, John S, MD Hyppolite, Jenny, MD Lather, Ronald M, MD Lorio, William P, MD Monteiro, Robert W, MD Paul, Daniel E, MD Salamon, Barbara E, MD Smith, J Matthew, MD Tourigny, Paul R, MD England, Sherri H, NP Marrett, Hanna W, FNP
CarolinaEast Internal Medicine 532 Webb Blvd, Havelock, NC 28532	252-447-7088	252-447-2752	Gintautiene, Kristina Z, MD Healy, Paul J, MD Moeller, G Radford, MD Nichols, Robert C, MD Rowe, Kristina J, MD Curry, Rosemary, NP
CarolinaEast Pediatrics 2604 Dr Martin L King Jr Blvd, PO Box 13187, New Bern, NC 28561	252-636-1919	252-636-2656	Kidder, J Michael, MD Mangun, Jennie C, MD Riley, Rebecca C, MD St Louis, Immacula, MD Whaley, Marcus C, MD Locum
CarolinaEast Primary Care 620 Farm Life Ave, Vanceboro, NC 28586	252-244-1785	252-244-2876	Babb, Tamara L, MD
CarolinaEast Rehabilitation Hospital 2000 Neuse Blvd, PO Box 12157, New Bern, NC 28561	252-633-8020	252-633-8954	Breda, Malinda L, PhD
CarolinaEast Urology Clinic 705 Newman Rd, New Bern, NC 28562 445 Western Blvd Jacksonville, NC 28546	252-633-2712	252-633-5418	Doyle, G Mark, MD Stewart, Thomas S, MD Underhill, T Reed, MD Walsh, Patrick J, MD Whitmore, III, Robert B, MD
CCHC Atlantic Internal Medicine 730 Newman Rd, New Bern, NC 28562	252-634-9090	252-634-9915	Benson, Elizabeth A, MD Bounous, Christine G, MD Bounous, Jr, E P, MD Healy, Anne V, MD VanDyke, Leslie B, PAC
CCHC Atlantic Neurology 2861 Trent Rd, New Bern, NC 28562	252-637-7860	252-638-7865	Steel, John G, MD Hagerty, Catherine M, MD

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CCHC Coastal Internal Medicine & Cardiology 670 Cardinal Place, New Bern, NC 28561	252-636-6222	252-636-5385	Davis, Michael L, MD Fujimagari, Michael M, MD McQuade, III, John F, MD Preston, Ronald A, MD Zavelo, Craig M, MD
CCHC New Bern Cancer Care 1010 Medical Park Ave, PO Box 12248, New Bern, NC 28561	252-636-5135	252-636-5395	Cho, John M, MD Gorman, Jr, Richard F, MD Taylor, W Chris, MD Hess, Kimberly S, ANPC
CCHC New Bern Family Practice & Urgent Care Center 1040 Medical Park Ave, PO Box 12248, New Bern, NC 28561	252-633-1678	252-633-1403	Burnett, Jr, John W, MD DeGraw, Martin C, MD Kirby, Mary J, MD Mahaney, Jr, John P, MD Overby, Jr, Joseph R, MD
CCHC New Bern Internal Medicine & Cardiology 702 Newman Road, New Bern, NC 28562	252-633-5333	252-633-9443	Beckwith, George H, MD Dressler, Frederick A, MD Lucas, Kent V, MD Maybee, David B, MD Milkowski, Deborah A, MD Moore, Ronald A, MD Murray, Jr, Warren E, MD Oliver, David C, MD Shields, Wright D, MD Wilkins, Jr, Kenneth W, MD Win, Andrew A, MD Brydge, Aleta L, PAC DeGennaro, Linda A, FNP Scalzitti, Selena G, PAC
CCHC Southern Gastroenterology Associates 3100 Wellons Blvd., New Bern, NC 28562	252-634-9000	252-634-9001	Byrd, David E, MD Healy, Joseph S, MD Lewis, Patricia G, FNP Scott, Jennifer B, PAC
CCHC Twin Rivers Family Practice 3252 Wellons Blvd, New Bern, NC 28562	252-636-2664	252-636-8305	Moore, Leann D, MD Moore, Staley C, MD
CMC Radiation Oncology Center 2000 Neuse Blvd, PO Box 12157, New Bern, NC 28561	252-633-8730	252-633-8736	Ali, M Moinuddin, MD Powell, John W, MD Rusthoven, Kyle E, MD Watkins Jr, Edwin B, MD

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Group Practice Listing for those Physicians & AHPs with Clinical Privileges

Coastal Carolina Foot & Ankle Care 612-A McCarthy Blvd, New Bern, NC 28562	252-633-3400	252-633-9338	Hagan, Thomas J, DPM
Coastal Carolina Radiation Oncology 1988 South 16th St, Wilmington, NC 28401 SEE CMC RADIATION ONCOLOGY CENTER	910-251-1839	910-251-8286	Maguire, Patrick D, MD Meyerson, Martin B, MD Neal, Charles R, MD Nichols, Michael A, MD Papagikos, Michael A, MD
Coastal Children's Clinic 703 Newman Rd, New Bern, NC 28562	252-633-2900	252-633-9609	Barden, III, Graham A, MD Copeland, Benjamin J, MD Crawford, C Marston, MD Gunsten, Gregory G, MD Kafer, Lisa M, MD Skladan, Lee Ann B, MD Tayloe, III, David T, MD Warren, Jr, Calvin G, MD
Coastal Ear, Nose & Throat Associates, PLLC 3110 Wellons Blvd, New Bern, NC 28562	252-638-2515	252-638-8538	Arrowood, Jr, John P, DDS, MD Grady, Richard D, MD Hester, T Oma, MD MacDonald, Jr, Henry J, MD
Coastal Eye Clinic, PA 802 McCarthy Blvd, New Bern, NC 28562	252-633-4183	252-636-1674	Cameron, Harold H, MD Chance, James K, MD Meekins, Bettina B, MD Ouano, Dean P, MD Scott, Michele L, MD
Coastal Oral & Maxillofacial Surgery 604 McCarthy Blvd, New Bern NC 28562	252-638-6177	252-638-5269	Foley, William L, DMD, MS Johnson, Mark W, DDS Bryan, Amanda J Moore, T Nicole Sevenski, Christa M
Coastal Orthopedic & Spinal Surgery, PA 612-B McCarthy Blvd, New Bern NC 28562	252-635-1788	252-635-3053	Battersby, Brian J, MD Carroll, P Sean, PAC Sanchez, Angela G, LPN
Coastal Pediatric Dentistry 700 McCarthy Blvd, New Bern, NC 28562	252-633-0424	252-638-6662	Congleton, III, James B, DDS Harrison, Robert B, DMD Bender, Crystal L DuPre, Andrea C Toler, Lori S Weigh, Sharon N

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Coastal Physical Medicine & Rehab Services 2000 Neuse Blvd, PO Box 12157, New Bern, NC 28561	252-633-8024	252-633-8994	Delaney, Christopher S, MD Terry, Andrea L, DO
Coastal Radiology Associates 720 Newman Rd, PO Box 12065, New Bern NC 28561	252-633-5057	252-633-0084	Adams, Larry L, MD Beyer, III, Alfred J, MD Buff, S Joseph, MD Caswell, Jr, Richard B, MD Corey, William C, DO D'Angelo, Elizabeth G, MD Drake, James E, MD Everett, Catherine J, MD Flye, Christopher W, MD Lorentzen, James C, MD MacGilvray, Marcel A, MD Sides, II, Stephen N, MD Sloan, Timothy C, MD Stohrer, Thomas W, MD Young, Garret P, MD Leymeister, Jason P, RT Templin, R Lance, RT Wells, Wayne E, RT
Coastal Surgical Specialists 2203 Neuse Blvd, New Bern, NC 28560	252-638-8118	252-638-5192	Bell, III, William H, MD Sinning, Mark A, MD Adams, H Eddie, RT Parrish, Danielle E, PAC Simmons, Kecia R, NP
Craven Pathology Associates 2000 Neuse Blvd, PO Box 12157, New Bern, NC 28561	252-633-8058	252-633-8941	Bennert, Keith W, MD Newell, Jr, Robert B, MD Ward, Richard M, MD
Craven Podiatry, LLP 1421 S Glenburnie Rd, Suite D, New Bern, NC 28562	252-637-3988	252-637-0553	Curd, Thomas E, DPM
Crystal Coast Pain Management Center 2111 Neuse Blvd, Suite J, New Bern, NC 28561	252-636-0300	252-636-0335	Harum, Kirk E, MD Kitchen, Zachary J, MD Tellis, Angelo A, MD
Crystal Coast Podiatry, PLLC 3109 Trent Rd, New Bern, NC 28562	252-638-4700	252-638-5766	Bobrowski, Thomas J, DPM
Davidson Eye Clinic, PA 3515 Trent Rd, Suite 9, New Bern NC 28561-2665	252-514-2155	252-514-0303	Davidson, Andrew, MD Singleton, Jay A, DO Taylor, Jeffrey S, MD Vega, Amanda J, ST

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

Eagle Hospital Physicians	252-634-6504	252-634-6015	Abumostafa, Yousef S, MD	
2000 Neuse Blvd, PO Box 12157, New Bern, NC 28560			Adewunmi, Obafemi A, MD	
Doreen Rhin - Office Manager			Apoe, Ogheneruona O, MD	Locum
			Banker, Lisa E, MD	
			Banker, IV, Millard F, MD	
			Barron, Lorraine F, MD	
			Bauer, Daniel R, MD	Locum
			Bell, Edwin L, MD	
			Bindewald, Eric S, MD	Locum
			Bizuneh, Amsalu, MD	Locum
			Bobbitt, III, William H, MD	
			Boku, Abinet, MD	
			David, Rachal A, MD	
			Dorlon, Jr, Robert E, MD	
			Drapkin, Brock, MD	Locum
			Elsanjak, Abdelaziz A, MD	
			Eze-Nliam, Chete M, MD	Locum
			Fisher, Robert J, MD	
			Fotuchang, Charles, MD	Locum
			Goel, Anubhi, MD	
			Grace, Emad S, MD	Locum
			Hardy, Constance A, MD	
			Hernandez, Marie M, MD	
			Ikalowych, Sherry Z, MD	Locum
			Iruetugo, Innocent A, MD	Locum
			Kent, Carrie S, MD	
			Khan-Hudson, Alia, MD	Locum
			Kibbe, Peter S, MD	
			Kimball, Suzanne E, DO	
			King, Kelly E, MD	
			Klahr, Phillip D, MD	Locum
			Kreps, Matthew M, MD	Locum
			Manne, Presad P, MD	Locum
			Mansy, Jan A, MD	
			Messina, Joseph F, DO	
			Miao, Kai, MD	
			Mohbelpour, May C, MD	
			Moye, Phillip W, MD	Locum
			Mozie, Benjamin C, MD	

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

Eagle Hospitalist - cont'd	<p>Ollivierre (Goodison), Renee, MD Oyetunde, Olasunkanmi K, MD Peterson, Vivian M, MD Rentas, Evelyn, MD Saggio, Joseph A, MD Sheikh, Rashid A, MD Locum Stahl, Simonne, MD Stimson, Alan C, MD Talantov, Andrei V, MD Locum Tebeje, Legesse F, MD Vasser, Elizabeth C, MD Welner, Lindsey A, DO Wright, Virginia, MD Locum York, Serena MD Bach, Cynthia A, NP Metts, Jo Lin, NP Semple, Shannon C, PAC Stott, Elizabeth R, PAC Watts, Willie M, PA</p>
East Carolina Behavioral Health 800 Cardinal Rd, New Bern, NC 28560	Kenyear, Deborah J, MFTA
Eastern Carolina Psychiatric Services 2800 Village Way, New Bern, NC 28562	<p style="text-align: center;">252-637-7300 252-637-1772</p> <p>Godwin, Charles D, MD</p> <p>King, Jody L, PAC Livingston-Green, Debra L, NPC Robbins, Patricia R, LPC</p> <p>Graham (Moran), Linda H, MD</p>
Eastern Carolina Women's Center 801 McCarthy Blvd, New Bern, NC 28562	<p style="text-align: center;">252-633-3942 252-633-4788</p> <p>English Brown, Kristi L, MD Joyner, Ronnie S, MD Martin, Dennis K, MD Michelson, Jeffrey A, MD Michelson, Melinda B, MD Parker, Charles L, MD Patterson, Rolvix H, MD Tinga, John H, MD Truluck, Thomas B, MD Marshburn, Mandy J, CNM</p>

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

Eastern Nephrology Associates 970 Newman Rd, New Bern, NC 28562	252-633-9262	252-633-4080	Blair, Richard D, MD Burkart, Thomas E, MD Montero, Manuel, MD Newman, W Joseph, MD Saucier, Nathan A, MD Flockhart, Suzanne A, NPC Holton, Suzanne A, NP Lancaster, Stephanie M, RN Shustrick, Candace C, NP
ECU - Infectious Diseases Doctor's Park 6A, Greenville, NC 27834	252-744-5725	252-744-3472	Ashraf, Muhammad S, MD Carter, Yvonne L, MD Claytor, Tedra M, MD Ramsey, Keith M, MD Siraj, Dawd S, MD
Emergency Medicine Physicians 800 Hospital Dr, Suite 1, New Bern, NC 28560	252-633-8119	252-633-8288	Adolph, Randall H, DO Bentley, Karen B, MD Biggers, Jr, William A, MD Bradstreet, Jennifer H, MD Breneman, Carol J, MD Bryant, Craig A, MD Burgess, Austin W, MD Caudill, Paul H, MD Locum Dakshaw, Sean D, DO Delmonaco, Brian L, MD Dibble, David J, DO Dickie, J Kirk, MD Eckman, Kari A (Stenerson), DO Ferrand, David N, MD Geer, Kevin C, MD Greenbaum, Jason L, MD Harmon, Steven K, MD Harpe, Keith G, MD Hensley, Terry G, MD Holt, Daniel E, MD Jackson, Celia M, MD Locum Jenis, Andrew D, MD Kelley, Brian M, DO Kiger, Tara L, MD Koontz, Stanley E, MD Lavine, Gary H, MD Madar, Merci G, MD Mearns, John F, DO Locum

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

Emergency Medicine Physicians - cont'd				Meldon, Stepehn W, MD Mynster, Christopher J.,MD Neuman, Jonathan C, MD Orville, Stephen W, MD Parwani, Vivek L, MD Risk, Gregory C, MD Rose, Mathew J, DO Saenz, Rebecca L, MD Schroeder, David W, MD Shippert, Brian W, DO Simonsen, Jeremy W, MD Stuntz, Jr, Richard C, MD Ulmer, Travis C, MD Widmer, Deborah A, MD Wright, David O, MD Locum Wu, Jack C, MD Durham, Lynn E, MSW (PORT) Bridges, Megan J, PAC Durning, April D, NP Graham, Jamie R, FNP McGuire, David F, PAC Owerns, Edward H, PAC Prichard Bannwarth, Leslie E, PAC Regan, James A, PAC Rosenthal, Murray, PA Scalzitti, Selena B, PAC Wright, Robert G, PAC
Empowerment Life Care Services, LLC	252-633-8024	252-633-8994		Spensieri, Lisa M, RN
2000 Neuse Blvd, PO Box 12157, New Bern, NC 28562				
Mosaic Anesthesia & Perioperative Services, PA	252-633-6117	252-633-2644		Amsler, Thomas F, DO Brayton, Michelle E, MD Clark, William S, MD Krukowski, James A, MD Long, John J, DO Panza, William S, MD Robertson, John P, MD
2719 B & C Neuse Blvd, PO Box 15007, New Bern, NC 28561				
New Bern Professional Health Services	252-633-4700	888-217-3652		Salinas, Ruben R, MD
3282 Wellons Blvd, New Bern, NC 28562				Graham (Moran), Linda H, MD

CarolinaEast Health System
Group Practice Listing for those Physicians & AHPs with Clinical Privileges

New Bern Surgical Associates 701 Newman Rd, New Bern, NC 28562	252-633-2081	252-633-3446	Harshman, David L, MD Morgan, Richard E, MD Mostellar, III, H Curtis, MD Paul, Caroline A, MD
Office of Dr Steven Engel 1700 Neuse Blvd, New Bern, NC 28560	252-637-3799	252-633-0944	Engel, Steven M, MD
Office of Dr James Manley 4110 Dr Martin L King Jr Blvd, Suite F, New Bern, NC 28561	252-637-6154	252-637-6154	Manley, James J, MD
Office of Dr Jeffrey K Moore 4251 Arendell St, Morehead City, NC 28557	252-808-3100	252-808-3120	Moore, Jeffrey K, MD Pfaff, Charles A, PAC
Office of Dr Alan D Russakov 612-B McCarthy Blvd, New Bern, NC 28562	252-635-1788	252-635-3053	Russakov, Alan D, MD
Office of Dr John Tayloe 4805 Trentwoods Dr, New Bern, NC 28562	252-633-1635	252-638-6961	Tayloe, John C, MD
Oriental Medical Clinic 901 Broad St, PO Box 1058, Oriental NC 28571	252-249-2888	252-249-3166	Willi, Marc A, MD
Orthopedic Hospitalists of New Bern 2000 Neuse Blvd, PO Box 12157, New Bern, NC 28562	252-633-8005	252-633-8004	Caudle, Robert J, MD Ehlert, Kurt J, MD Howard, Jr, Robert G, MD Kuhn, Michael A, MD Norris, Russell J, MD Locum Phillips, E L, MD Simpson, Andrew, MD Locum Stadelman, Jolie A, PAC
Pamlico Medical Center 606 Main St, PO Box 729, Bayboro NC 28515	252-745-3191	252-745-7385	Carperos, Stephanie D, MD Dunn, Jr, Ernest C, MD Lamsal, Suman, MD
Psychological/Therapeutic Resources 504 Pollock St, PO Box 777, New Bern, NC 28563	252-638-3881	252-638-8820	Reed, Michael L, PhD
SeaCoast Cardiology Consultants, PLLC 29 Office Park Dr, Jacksonville, NC 28546	910-353-3000		Rogers, Garrett L, MD
Specialists On Call (Teleneurology) 1503 Edwards Ferry Rd NE, Suite 310, Leesburg, VA 20176	866-483-9690	866-445-6820	Allen, Evan D, MD Asad, Syed A, MD DaSilva, Leonard D, MD Gasper, Mason C, DO Janoff, Larry S, DO Kachroo, Arun, MD Kalanithi, Suman A, MD Keller, Seth M, MD Linn, Heather M, MD

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Specialists On Call - cont'd	Lipsius, Bruce D, MD Orwitz, Jonathan I, MD Rubin, Mitchell J, MD Samuels, Todd L, MD Schneider, Jean-Raphael, MD Sharf, Hillard C, MD Villar, Carlos E, MD Zechowy, Allen C, MD
Surgical Hospitalists 2000 Neuse Blvd, PO Box 12157, New Bern, NC 28561	252-633-8005 252-633-8004 Allen, Benjamin G, MD Ballard, Harry H, MD Bates, Philip D, MD Bolling, Bruce R, MD Jenkins, Joseph T, MD Locum Semple, Shannon C, PAC
vRad (formerly NightHawk Radiology) {Teleradiology} 11995 Singletree Lane, Ste 500, Eden Prairie, MN 55344	952-595-1100 Arias, John M, MD Batten, Dean, MD Boardman, John W, MD Brull, James, DO Calhoun, Shannon P, DO Caskey, Cynthia I, MD Cooney, Michael J, MD Eckard, Donald A, MD Engbretson, Jon P, MD Fiorito, Thomas F, MD Fisher, Timothy S, MD Gutstein, Laurie L, MD Jaksha, Jonathan A, MD Kaplan, Liat J, MD Kavanagh, Joseph J, MD Klisch, Gregory, MD Kraus, Frederick C, MD McKernan, Margaret G, MD Nicell, Donald T, MD Parkey, Joe E, MD Petrovich, Linda M, MD Ramirez, Jorge A, MD Ross, Guy W, MD Rusnack, Douglas W, MD Sami, Faisal A, MD

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vRad - cont'd	Savit, Russ M, MD Snyder, Bradley J, MD Swope, Stephanie H, MD Thickman, David I, MD Vreeland, Thomas H, MD
Zannis Center for Plastic Surgery 2021 Neuse Blvd, New Bern, NC 28560	252-633-1197 252-633-1720 Zannis, John, MD