

Roanoke Valley Community Health Assessment

FINAL REPORT

AUGUST 31, 2018

Carilion Roanoke Memorial Hospital
Carilion Roanoke Community Hospital
carilionclinic.org/community-health-assessments



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Disclaimer

This document has been produced to benefit the community. Carilion Clinic encourages use of this report for planning purposes and is interested in learning of its utilization. Comments and questions are welcome and can be submitted to Carilion Clinic Community Health & Outreach at communityoutreach@carilionclinic.org.

Members of the Project Management Team reviewed all documents prior to publication and provided critical edits. Every effort has been made to ensure the accuracy of the information presented in this report; however, accuracy cannot be guaranteed. Members of the Roanoke Valley Community Health Assessment Team cannot accept responsibility for any consequences that result from the use of any information presented in this report.

Acknowledgements

Success of the 2018 Roanoke Valley Community Health Assessment (RVCHA) was due to the strong leadership and participation of its Project Management Team, the Project Support Team, members of Healthy Roanoke Valley, and the Community Health Assessment Team. Thank you to all of the community members who participated in the Community Health Survey and focus groups.

Members of these teams included:

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Healthy Roanoke Valley

Founded in October 2012, Healthy Roanoke Valley (HRV) is an initiative of United Way of Roanoke Valley and derived from the 2012 Roanoke Valley Community Health Assessment (CHA). In 2012 and again in 2015, the community-driven CHA identified three main priorities for improving health outcomes in the Roanoke Valley for underserved populations, including (1) access to services (primary care, behavioral health, and oral health); (2) coordination of care; and (3) wellness. A partnership of more than 50 organizations, HRV strives to enhance health equity related to these priorities as a means to create a “culture of wellness” across the Roanoke Valley.

HRV’s work relies heavily on our community partners who volunteer their time and resources to “Make Change Happen”. HRV provides an on-going forum for over 130 volunteer members to step outside organizational boundaries and share leadership, expertise, and resources to activate a common set of shared goals for community improvement in an environment that offers mutual respect, trust and understanding while nurturing collaborative relationships. HRV partners are a diverse group of cross-sector stakeholders representing health, education, housing, safety, income, government and access to healthy foods and physical activity.

For five years, HRV has been serving as a key partner with Carilion Clinic. HRV's strategic framework, which is updated every three years to align with the triennial Community Health Assessment, is community-driven and a major driver of Carilion Clinic's Health Improvement Implementation Strategy for the Roanoke Valley. HRV and Carilion Clinic's partnership has been featured locally, statewide and nationally. In addition, these collaborative efforts have resulted in state and national funding from the Virginia Health Care Foundation, DentaQuest Foundation and the Robert Wood Johnson Foundation – Reinvestment Fund.

Community Health Assessment Team (CHAT)

Carilion Clinic's CHAs are community-driven projects and success is highly dependent on the involvement of citizens, health and human service agencies, businesses, and community leaders. Community stakeholder collaborations known as "Community Health Assessment Teams" (CHAT) lead the CHA projects. The CHATs consists of health and human service agency leaders, persons with special knowledge of or expertise in public health, the local health department, and leaders, representatives, or members of medically underserved populations, low-income persons, minority populations, and populations with chronic disease. In the Roanoke Valley, Healthy Roanoke Valley serves as the CHAT and additional key community leaders are invited to participate.

CHAT Members and Area of Expertise

This list includes members that attended 50% (2) or more of the CHAT meetings.

Name	Organization	Area of Expertise
Elizabeth Ackley	Roanoke College	Public Health/Education/Research
Kristin Adkins	VA Department of Health	Public Health
Hannah Alleman	Healthy Roanoke Valley	Public Health
Ann Billings	City of Roanoke - Lead Safe Roanoke	Home Safety
Debbie Bonniwell	Blue Ridge Behavioral Healthcare	Mental Health, Substance Use, ID
Aaron Boush	Carilion Clinic	Hospitals, Healthy Food
Serenus Churn	High Street Baptist Church	Church and Community Northwest
Lee Clark	Rescue Mission Ministries, Inc.	Health & Human Services for the Homeless
Brittany DeKnight	Healthy Roanoke Valley	Public Health
Timothy Fortuna	Carilion Clinic	Access to Healthcare
Robin Haldiman	CHIP of Roanoke Valley	Children's Health
Crystal Hall	RRHA	Housing
Abby Hamilton	United Way of Roanoke Valley	Collective Impact, Social Determinates of Health
Shirley Holland	Carilion Clinic	Hospitals/Community Development
Mark Lainoff	Bradley Free Clinic	Community Health Workers/ Operational efficiency/Lean Six Sigma
Eileen Lepro	New Horizons Healthcare	Primary Care Access/Healthy Communities Development
Maureen McNamara Best	LEAP	Food/Agriculture/Wellness
Amy Michals	Carilion Clinic	Public Health
David Nova	Blue Blaze Consulting	Health Systems
Michele Peppers	Roanoke Regional Chamber of Commerce	Business Development
Paula Prince	Jefferson College of Health Sciences	Human Services/Research/Homelessness
Dave Prosser	FreedomFirst	Financial Well-being
Bobby Putnam	Community Care Clinic of Carilion	Urgent Care/Transitional Care
Kim Roe	Carilion Clinic	Ambulatory Care
Rebecca Stackhouse	Salem VAMC	Hospital-based Care
Sierra Steffen	Carilion Clinic	Health Data Analytics, Statistics
Sharon Thacker	Family Service of Roanoke Valley	Mental Health & Life Skills
Kenya Thompson	Carilion Clinic	Hospitals, Scribe
Janine Underwood	Bradley Free Clinic	Free Clinic
Sarah Wall	Community Volunteer	Health Education/Promotion
Pat Young	Healthy Roanoke Valley	Community Arm of CHA

Executive Summary

Carilion Clinic and HRV partnered to conduct the 2018 RVCHA. Together with partners, we are committed to the essential work of improving and maintaining the health of our Valley. It is important to assess the health concerns of each community periodically to ensure that current needs are being addressed. A Community Health Assessment (CHA) every three years will uncover issues, indicate where improvement goals are needed, and track and promote progress in key areas, so that there is demonstrated, ongoing improvement. The work of conducting this CHA and the public availability of its findings is intended to enable the community to effectively plan the vital work of maintaining and improving health.

The finding of the 2018 RVCHA revealed 10 priority health-related issues in the community, identified by the CHAT after review of the data collected.

1. Poverty / low average household income
2. Transportation / transit system
3. Access to mental / behavioral health services
 - a. Access to substance use services
4. Culture: healthy behaviors not a priority
5. High uninsured/underinsured population
6. Affordable / safe housing
7. Access to dental care
8. Poor diet
9. High cost of care
10. Educational attainment

This report contains the findings of the 2018 RVCHA, including primary and secondary health and social determinant data on the service area and specific populations.

Description of the Community

The Roanoke Metropolitan Statistical Area (MSA), home to Carilion Clinic's flagship hospital, commonly known as the Roanoke Valley, is composed of the independent cities of Roanoke and Salem and the counties of Botetourt, Craig, Franklin, and Roanoke. It is nestled among the Blue Ridge Mountains with the City of Roanoke at its heart. The City is a destination place, rich in cultural diversity, the arts, shopping, recreational opportunities, natural beauty and services not available in more rural areas of the region.

Despite these amenities and the presence of key safety net providers in the region, including Carilion Clinic, a federally qualified health center, free clinics, the health department and other service organizations, there remain thousands of low-income and uninsured or underinsured residents who do not have access to affordable care.

Community Demographics

The 2018 RVCHA revealed distinct communities with significant differences in size and population and significant disparities both in health and in social determinants. The 2012-2016 American Community Survey (ACS) found the total population of the Roanoke MSA to be 312,891. The cities of Roanoke and Salem had 99,329 residents and 25,290 people respectively. The counties of Botetourt, Craig, Franklin and Roanoke had 33,129, 5,195, 56,230 and 93,655 residents respectively. For all communities, the ACS predicts positive future population change, but to varying degrees. Median age in the MSA localities ranges from 38.1 in the City of Roanoke to 47 in Craig County, all above the state median of 37.8¹. The ACS finds that for most of the Roanoke MSA, a larger percentage of the population is White than in the State of Virginia as a whole with percentages ranging all the way up to 98.1% in Craig County².

Roanoke Valley's urban hub, the City of Roanoke, is more racially and ethnically diverse than the rest of the MSA, with a population that is 63.85% White, 28.3% Black, and 2.7% Asian with 3.5% representing more than one race and the remainder representing small minorities of American Indian/Alaskan Native, Native Hawaiian/Pacific Islander or some other race. Of the population, 6% are Hispanic or Latino². The City is divided into quadrants (Northwest, Northeast, Southwest and Southeast) separated geographically by railroad tracks, the Roanoke River, and the Interstate 581. These quadrants vary greatly in the demographic and economic make-up of the residents who live there. Specifically, two of the quadrants – the Northwest and Southeast quadrants – have federal designations as Medically Underserved Areas (MUAs) and are home to a large proportion of the low-income individuals and families in the City who may be uninsured, underinsured and/or Medicaid recipients who often face additional barriers due to cultural differences.

¹ U.S. Census Bureau, 2012-2016 5-year American Community Survey, Table S0101
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S0101&prodType=table

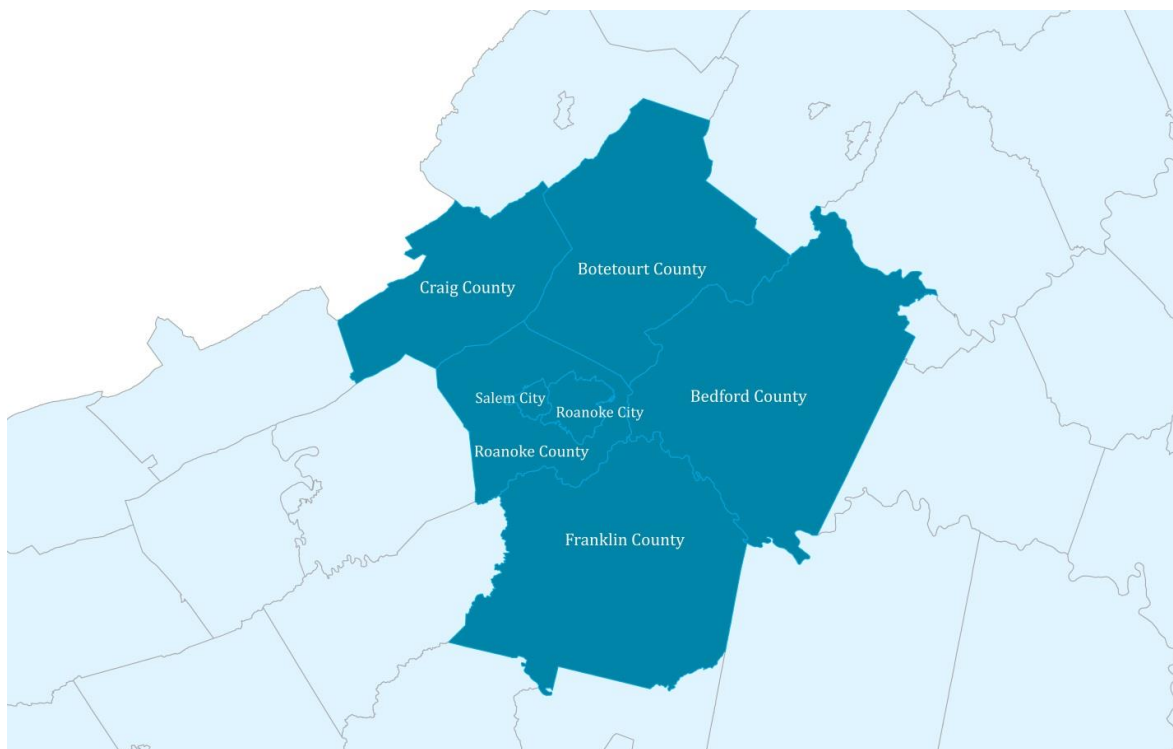
² U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table DP05
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_DP05&prodType=table

Assessment Service Area

The service areas for Carilion Clinic's Community Health Assessments are determined by at least 70% of unique patient origin of the hospital in each respective market. There is a focus placed on areas that are considered MUAs and Health Professional Shortage Areas (HPSAs).

Carilion Roanoke Memorial Hospital and Carilion Roanoke Community Hospital, collectively referred to as Carilion Medical Center (CMC), are located in Roanoke, Virginia. In fiscal year 2017, CMC served 129,045 unique patients. Patient origin data revealed that during this year, 76.52% of patients served by CMC lived in the following localities:

- City of Roanoke (28.65%)
- Roanoke County (19.95%)
- Franklin County (8.81%)
- City of Salem (5.81%)
- Bedford County (5.17%)
- Craig County (0.70%)



The service area for the 2018 RVCHA includes the cities of Roanoke and Salem and the counties of Bedford, Botetourt, Craig and Roanoke, with secondary data included for Franklin County. It is important to note that Franklin County is partly served by Carilion Franklin Memorial Hospital (CFMH) located in Rocky Mount, VA. Franklin County is not included as part of the service area for the 2018 RVCHA because CFMH also conducted its own CHA of Franklin and Henry counties concurrently. Franklin County data are included in secondary data so complete data for the MSA

will be available in this report. Please note that while Bedford County is included in the service area, it is not part of the Roanoke MSA.

Existing Resources

The Roanoke Valley, with the City of Roanoke at its heart, serves as the urban hub for Western Virginia. As such, the Valley is flush with resources including food, healthcare, arts and culture and outdoor amenities. In addition, Roanoke serves as a hub for health and human agencies serving residents of the City of Roanoke, Roanoke Valley and often Southwest Virginia. These health and human service organizations work to reduce the disparities in access to care and access to resources that still exist for many residents of our region. Please see Appendix 8 for a list of community resources in the Roanoke Valley.

Carilion Medical Center

Carilion Medical Center (CMC), comprised of two hospitals, Carilion Roanoke Memorial Hospital (CRMH) and Carilion Roanoke Community Hospital (CRCH), is located in Roanoke, Virginia.

Carilion Medical Center includes Carilion Clinic's flagship facility, Carilion Roanoke Memorial Hospital. A 703-bed hospital, CRMH includes a Neonatal Intensive Care Unit, Carilion Children's Hospital, specialty and advanced clinical care and the region's only Level 1 Trauma Center. U.S. News & World Report ranks it among Virginia's top five; it is one of only 43 in the country ranked at the top for nine adult procedures and conditions. CRMH provides access to the region's most experienced providers and specialty services, while teaching and developing tomorrow's medical leaders through residencies and fellowships sponsored by the Virginia Tech Carilion School of Medicine. Carilion Medical Center serves all patients regardless of their ability to pay. The Hospital's governing Board is elected annually and the majority of members are neither employees nor contractors of the Hospital. Medical staff privileges are extended to qualified providers. Any surplus funds are reinvested in new technology, clinical initiatives, education and charitable efforts. This includes providing free, discounted and subsidized care as well as critical medical services that operate at a loss.³

Carilion Medical Center is wholly owned by Carilion Clinic, a not-for-profit healthcare organization based in Roanoke, Virginia. Carilion Clinic is mission-driven, focusing everyday on improving the health of the communities we serve. Through a comprehensive network of hospitals, primary and specialty physician practices, wellness centers and other complementary services, quality care is provided close to home for nearly 1 million Virginians. With an enduring commitment to the health of our region, we also seek to advance care through medical education and research, helping our community stay healthy and inspire our region to grow stronger.

³ <https://www.carilionclinic.org/locations/carilion-roanoke-memorial-hospital>

To advance education of health professionals, Jefferson College of Health Sciences is a private higher education institution that *“prepares, within a scholarly environment, ethical, knowledgeable, competent and caring healthcare professionals.”* The College focuses on providing healthcare education and is a part of Carilion Clinic. Founded in 1914 as the Jefferson Hospital School of Nursing, Jefferson College now provides more than 1,100 students with opportunities to become part of the healthcare profession, serving communities from southwest Virginia to the Shenandoah Valley and beyond. The school’s graduates are building healthier tomorrows in our region and across the country every day. More information is available at www.jchs.edu.

Community Health Assessment Process

Methods

Carilion Clinic and Healthy Roanoke Valley (HRV) partnered to conduct the 2018 RVCHA. HRV is the community collaboration formed after the 2012 RVCHA to address community health need.

A 31-member Community Health Assessment Team (CHAT) oversaw the planning activities. The service area included those living in the counties of Bedford, Botetourt, Craig and Roanoke and the cities of Roanoke and Salem. An emphasis was placed on those living in the City of Roanoke, especially those living in the two Medically Underserved Areas of the city. We strive to target the underserved/vulnerable populations disproportionately impacted by the social determinants of health, including poverty, race/ethnicity, education, and/or lack of insurance.

Beginning in October 2017, primary data collection included a Community Health Survey, focus groups with key stakeholders and providers and focus groups with target populations. Secondary data collected include demographic and socioeconomic indicators as well as health indicators addressing access to care, health status, prevention, wellness, risky behaviors and the social environment.

To better understand the specific needs of those with cancer, the Community Health Survey was also filtered to show results from respondents who self-identified as having cancer or once having cancer. Their results can be found in Appendix 9.

Collaboration

Forming a true community collaborative with lasting impact is no small feat. Partners in the Roanoke Valley assembled to complete the 2012 Roanoke Valley Community Health Assessment. In response, HRV was formed to foster collaborative community development between partners using the Strive Collective Impact Model⁴. This evidence-based model focuses on “the commitment of a group of important players from different sectors to a common agenda for solving a specific social problem” and has been proven to lead to large-scale change.

Collective impact focuses on four conditions for collective success: (1.) A Shared Community Vision: a broad set of cross-sector community partners come together in an accountable way to implement a vision for a healthier community and communicate that vision effectively. (2.) Evidence-based Decision Making: The integration of professional expertise and data to make decisions about how to prioritize a community's efforts to improve health outcomes. (3.) Collaborative Action: the process by which networks of appropriate cross-sector services/providers use data to continually identify, adopt and scale practices that improve health outcomes. (4.) Investment & Sustainability: There is broad community ownership for building

⁴ Kania, J., & Kramer, M. (2011). Collective Impact. Stanford Social Innovation Review. Retrieved from http://www.ssireview.org/images/articles/2011_WI_Feature_Kania.pdf

civic infrastructure and resources are committed to sustain the work of the partnership to improve health outcomes. Collective Impact also suggests having a neutral anchor institution to serve as the convening body for community collaborative.

Carilion Clinic believes in the power of collaboration and understands that it must address community health issues together, with key partners, as a community. To ensure lasting impact of the health assessment and resulting community health improvement process implementation, Carilion funds and plays a key role in HRV and supports United Way serving as the anchor institution in the Roanoke Valley.

HRV fosters collaborative relationships among over 50 diverse stakeholder organizations representing health and human services, housing, businesses, local governments, and other non-profit organizations.

Community Health Improvement Process

Carilion Clinic's Community Health Improvement Process was adapted from Associates in Process Improvement's the Model for Improvement and the Plan-Do-Study-Act (PDSA) cycle developed by Walter Shewhart⁵. It consists of five distinct steps: (1) conducting the CHA, (2) strategic planning, (3) creating the implementation strategy, (4) program implementation, and (5) evaluation. This cycle is repeated every three years to comply with IRS requirements. Each step in the process is explained below.

Step 1: Conduct Community Health Assessment

The first step in the Community Health Improvement Process is to conduct a Community Health Assessment. Led by a Community Health Assessment Team (CHAT), the assessment involves collection of primary and secondary data from numerous sources. Primary data include responses from a community health survey, open to all residents of the assessment area, as well as focus groups conducted with stakeholders and with target populations. The target populations are defined as underserved/vulnerable populations disproportionately impacted by the social determinants of health, including poverty, race/ethnicity, education, and/or lack of insurance.

Step 2: Strategic Planning

After the completion of the CHA, the CHAT enters the strategic planning phase of the process. First, the CHAT must decide what community health needs to focus on and provide explanation as to what issues will be the focus and why. To help with this determination, the CHAT participates in an activity charting the top priorities on an axis, based on the feasibility and potential impact of solutions that could be implemented locally to address these issues.

⁵ Science of Improvement: How to Improve. (2014). Institute for Healthcare Improvement. Retrieved from <http://www.ihl.org/resources/Pages/HowtoImprove/ScienceofImprovementHowtoImprove.aspx>

After the priority areas (needs) have been identified, the team participates in strategic planning. Break-out session format is used for the planning session. CHAT members spend the strategic planning session developing a framework of goals and strategies to use as a starting point for strategic planning meetings in the coming summer and fall. In future strategic planning sessions, HRV members identify alignment opportunities between organizations and system changes that are likely to lead to improvement, establish measures that will tell if changes are leading to improvement, and select new or existing evidence-based strategies for the community that are most likely to succeed in addressing the needs.

Step 3: Implementation Strategy

After the CHA is completed, Carilion Clinic develops a written Implementation Strategy that specifies what health needs were identified in the CHA, what needs the organizations plans to address and what needs the organizations does not plan to address and reasons for each.

Included in the document are expected outcomes for each community issue being addressed, proposed evidence-based interventions with goals and objectives that will be tracked over time (both process and outcome measures). The document must be formally approved by the organization's Board of Directors and filed on the organizations 990 tax return. Carilion Clinic will integrate the implementation strategy with existing organizational and community plans.

Step 4: Program Implementation

Carilion Clinic Community Health & Outreach and the CHAT will establish and monitor new and ongoing community health programs implemented to respond to the community health needs identified in the CHA. New programs will be piloted on a small scale first and will be continually assessed and improved using the PDSA cycle⁶. The goal of the PDSA cycle is to make small, sustained improvements over time. Relevant data are collected and analyzed for each program.

After successful implementation of the pilot, the program can be implemented on a larger scale throughout Carilion Clinic or with other organizations in the community. The PDSA cycle is ongoing for existing community health improvement programs.

Step 5: Evaluation

Community health programs and metrics associated with the expected outcome in the implementation strategy will be monitored by Carilion Clinic Community Health and Outreach and the HRV Data Collection and Quality Improvement Action Team.

⁶ Plan –Do-Study-Act (PDSA) Cycle (2008).

Retrieved from: <https://innovations.ahrq.gov/qualitytools/plan-do-study-act-pdsa-cycle>

Progress will be reported to Carilion Medical Center's Board of Directors from time to time, which may include periodic updates in the Administrator's Report throughout the year, for each community health need identified in the last CHA cycle.

In addition, the Board will be informed of community grant awards given by the hospital to fund health safety net programs in the community. Decisions on funding of health safety net programs will be based on available resources and the impact on addressing a documented community health need identified in the CHA. For more information, see <https://www.carilionclinic.org/community-health-outreach>.

Finally, Carilion Clinic will update progress made on each community health need identified in the most recent CHA cycle annually on the organization's 990 tax form.

Data Collection

The CHAT leads the assessment and oversees primary and secondary data collection. Beginning in October 2017, primary data collection included a Community Health Survey, focus groups with key stakeholders and providers, and focus groups with target populations. Secondary data were collected, including demographic and socioeconomic indicators, as well as health indicators addressing access to care, health status, prevention, wellness, risky behaviors and the social environment.

Community Health Survey (CHS): The CHS consists of 39 questions for adults, age 18 and older, about access and barriers to healthcare, general health questions, and demographic information. The survey mirrors Healthy People 2020 goals, as well as many other national health surveys that do not collect health care data at the zip code level. This survey is not a scientific survey and the survey method uses oversampling techniques of the target population (please see Appendix 4 for Carilion Medical Center's CHS). HRV's Data Collection and Quality Improvement Committee provides recommendations for future improvements on the CHS with input from the CHAT and community members. Efforts are made to keep as many questions consistent from the previous CHS for result trending purposes. An incentive for completing the CHS was provided to encourage participation.

Focus Groups: Focus groups are conducted with many groups of individuals in an effort to best understand health in the Roanoke Valley. The goal of the focus groups is to identify barriers to care and gaps in services for primary care, dental and mental health/substance use services for the population. An effort was made to meet with groups representing each lifecycle (parents and women of child-bearing age, adults, and the elderly) living in MUAs. We strive to target our assessment of health care and barriers for those underserved and vulnerable populations disproportionately impacted by the social determinants of health. Information provided by focus groups was analyzed to understand themes of group responses.

For each group, there were no more than 15 participants. A facilitator and scribe conducted each focus group meeting and the audio of the meetings were recorded and later transcribed to be analyzed. In order to contribute, participants signed consent forms prior to each meeting agreeing on the format of the meeting, how information would be used and to ensure confidentiality. The groups were held in convenient, neutral locations and/or in sites where participants already congregate. Snacks and beverages were provided.

The script for the focus groups is simple and consists of six open-ended questions, as detailed below:

1. In one or two words, how would you describe good health?
2. Looking at this list, what things do you need to have good health like what we've described?
Do you have these things?
3. What do you, or your family and friends, do when you need a check-up or are sick?

4. What do you, or your family and friends, do when you have a toothache or need your teeth cleaned?
5. What do you, or your family and friends, do when you need to talk to someone about your nerves/stress/depression or need help with alcohol or drug use?
6. Is there anything else you would like to tell us about your health or the health of others in the Roanoke Valley?

Stakeholder Survey: A six-question, open-ended survey is collected from key community stakeholders with insight into the health of the community, more specifically of those in target populations. Stakeholders are identified by the CHAT or by the Project Management Team. A Stakeholder Forum was hosted in January 2018 at which 81 stakeholders, invited by HRV and Carilion Clinic, participated in focus groups answering the same set of questions from the stakeholder survey.

Prioritization

After all primary and secondary data collection is complete, the CHAT reviews all data and participates in a prioritization activity. This activity consists of each CHAT member picking the ten most pertinent community needs and ranking them on a scale of one to ten, with one being the most pertinent. The categories listed on the prioritization activity sheet align with the Robert Wood Johnson Foundation framework for what influences health (please see Appendix 3 to view the prioritization worksheet). The data are combined and priorities are selected based on the number of times a category is selected in the top 10, with average ranking serving as a tie-breaker. Once the priorities have been selected, the CHAT participates in an activity to rate the feasibility and potential impact of a solution to each health issue.

Robert Wood Johnson Foundation Framework

According to the Robert Wood Johnson Foundation's (RWJF) County Health Rankings⁷, where an individual lives, works and plays is a strong predictor of their health outcomes. Currently in the United States, a person's zip code can help predict their life expectancy due to its direct link to the social determinants of health such as poverty, race/ethnicity, education and employment status in these areas⁸. These factors are so important to our overall health, that they were added to the 10-year national Healthy People 2020 objectives with a goal to "create social and physical environments that promote good health for all."⁹

Carilion responds to community health needs in innovative ways: making sure our regions have access to state-of-the-art healthcare close to home; providing community grants and sponsorships

⁷ County Health Ranking & Roadmaps. Retrieved from: <http://www.countyhealthrankings.org/>

⁸ Robert Wood Johnson Foundation. Retrieved from: <https://www.rwjf.org/en/library/interactives/whereyouliveaffectshowlongyoulive.html>

⁹ Social Determinates of Health. Retrieved from: <https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health>

to extend our mission and support other organizations that address health need; creating and implementing community-wide strategies to reduce barriers, coordinate resources and enhance community strengths; and by providing community-based health and wellness programming.

Our community-based programs and community grants are categorized using the RWJF framework for what influences health: health behaviors; social and economic factors; clinical care access and quality; and physical environment¹⁰. We measure our success by tracking related indicators at the regional, local, and zip code level, as well as by monitoring change and improvement in the County Health Rankings of our municipalities.

Target Population

The target population for Carilion Clinic's CHA projects consists of the following groups: underserved/vulnerable populations disproportionately impacted by the social determinants of health including poverty, race/ethnicity, education, and/or lack of insurance. Populations are examined across the different life cycles including parents of children and adolescents, women of child-bearing age, adults, and the elderly as well as across various race and ethnic groups.

¹⁰ County Health Ranking & Roadmaps. Retrieved from: <http://www.countyhealthrankings.org/>

Community Health Assessment Findings

The finding of the 2018 RVCHA revealed 10 priority health-related issues in the community, identified by the CHAT after review of the data collected.

1. Poverty / low average household income
2. Transportation / transit system
3. Access to mental / behavioral health services
 - a. Access to substance use services
4. Culture: healthy behaviors not a priority
5. High uninsured / underinsured population
6. Affordable / safe housing
7. Access to dental care
8. Poor diet
9. High cost of care
10. Educational attainment

The results of the assessment reflected a variety of social determinant of health factors, showing the understood impact that these factors have on overall health. The findings revealed distinct disparities in health for those living in MUAs and for those living in poverty. As in years past, the City of Roanoke overall displayed worse results as compared to the MSA. Poverty rates were higher, academic attainment rates were lower, more children were living in single parent households, and unemployment rates, while improving and better than the national average, continue to be greater than statewide averages, impacting the social determinants of health. Those living in the medically underserved areas of Roanoke City (NW and SE) see even worse results for each of these factors. For many secondary indicators, the data reveal that Craig County and occasionally Franklin County also underperform the MSA.

Many of the respondents to the Community Health Survey and focus group participants, whether insured or uninsured, noted that the cost of care keeps them from accessing preventive care and services. According to focus group participants, often individuals self-treat or delay treatment due to cost. Survey responses revealed “High cost of care” and “High co-pay” to be the top reasons that people feel prevent them from getting the healthcare they need. Stakeholders agreed identifying poverty and transportation as significant barriers to accessing care in the community.

According to the American Community Survey (ACS), 44.9% of people in the City of Roanoke live below 200% of the Federal Poverty Level (FPL) compared to 26.5% for the State of Virginia and in Craig County that percentage is 39.5%. In some MUAs in the City of Roanoke, the rate of people living below 200% FPL jumps as high as 70%. This rate is much lower in parts of the MSA. For

example in Roanoke County, 22.6% of people live below 200% FPL and in Botetourt County, 23.6% of people live below 200% FPL¹¹.

The effects of poverty can be seen through comparisons of free and reduced lunch qualifications in school systems. As a whole in the 2017/2018 school year, only 27.8% of Botetourt County students and 30.1% of Roanoke County students qualified for the Free and Reduced Lunch program. Whereas 54.5% of students in Franklin County, 55.7% of students in Craig County and 86.9% of students in the City of Roanoke qualified.¹²

We know that access to good nutrition contributes to students' ability to focus and learn in school. Education levels in the City of Roanoke also significantly lag the MSA, although there has been a trend of improvement in on-time graduation rates in recent years, likely in part due to the dedication of the school system and community partners to student success. Graduation rates in the City of Roanoke have improved from 85.6% in 2015 to 89.7% in 2017, almost catching up to the state rate of 91.3%. Many other MSA municipalities average 93-94%¹³. When evaluating the academic attainment rates for the population 25 and over, all municipalities average 85% or more of the population with a high school degree or higher. Even Roanoke County, with 34.1% of the population with a Bachelor's degree or higher underperforms the state statistic of 36.9%. Craig County has the lowest percentage of the population with a Bachelor's degree or higher at 13%¹⁴.

Reflective of the urban and rural differences that exist in the Roanoke MSA, transportation opportunities vary across the municipalities. Survey responses revealed that those living in the City of Roanoke are less likely to own a vehicle and more likely to rely on friends and family, public transportation, biking or walking to get around.

When asked for the more important issues that affect health in our community, 42.2% of survey respondents answered "alcohol and illegal drug use," followed by 34.8% answering "overweight/obesity," 31.3% answering "mental health problems," and 29.6% saying "access to healthy foods." Stakeholders responded that substance use and transportation were the most important issues.

The Virginia Department of Health reports that in 2016 emergency department (ED) opioid overdose rates in the Roanoke Valley range from 88.5 overdoses per 100,000 people in Bedford

¹¹ U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table C17002
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

¹² Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports <http://www.doe.virginia.gov/support/nutrition/statistics/>

¹³ Virginia Department of Education, Virginia Cohort Reports
http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

¹⁴ U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1501
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S1501&prodType=table

County to 260.9 overdoses per 100,000 people in from the City of Roanoke. This compares to the state ED opioid overdose rate of 103.5 overdoses per 100,000 population.¹⁵ The State of Virginia, along with many other states, has declared opioid addiction to be a public health emergency and the health commissioner has issued a standing order making Naloxone available to any resident to treat an overdose¹⁶.

Narcan (Naloxone) use rates have been significantly higher in the City of Roanoke at 117.4 per 100,000 population than the rest of the MSA or the state rate according to Virginia Department of Health data¹⁷. Interestingly, according to the same data from 2016, while ED overdose visits in the City of Roanoke were much higher than other municipalities, the fatal overdose rate is similar, sometimes less, than neighboring localities. The CHAT made sure to include “access to substance use services” as a sub-category of the priority health need for “access to mental and behavioral health care,” recognizing the significance of this crisis in our region.

When asked, what health care services are hard to get in our community, survey respondents answered that “adult dental care” (42.5%) was the most challenging to access, followed by “mental health / counseling services” (26.1%) and “substance abuse services for drugs and alcohol” (18.6%).

¹⁵ Virginia Department of Health <http://www.vdh.virginia.gov/data/opioid-overdose/>

¹⁶ Virginia declared opioid emergency, makes antidote available to all. Retrieved from: https://www.washingtonpost.com/local/virginia-politics/virginia-declares-opioid-emergency-makes-antidote-available-to-all/2016/11/21/f9b4f348-booe-11e6-be1c-8cec35biad25_story.html?noredirect=on&utm_term=.f0386afe4b79

¹⁷ Virginia Department of Health <http://www.vdh.virginia.gov/data/opioid-overdose/>

Community Impact

Response Since the 2015 RVCHA

Carilion Clinic responds to community health needs in innovative ways: having a robust primary care physician practice network of medical homes; making sure our regions have access to state-of-the-art healthcare close to home; providing community grants and sponsorships to extend our mission and support other organizations that address health need; creating and implementing community-wide strategies to reduce barriers, coordinate resources and enhance community strengths; and by providing community-based health and wellness programming.

Our community-based programs and community grants are categorized by using the RWJF framework for what influences health: health behaviors; social and economic factors; clinical care access and quality; and physical environment.

In its commitment to improving the health of the communities it serves, Carilion has focused on projects and explored options to improve health in the MUAs in Southeast Roanoke City. Southeast neighborhoods border Carilion Clinic's flagship hospital, CRMH. Much of Carilion's health programming and grant giving was focused on this neighborhood and Carilion continues to explore opportunities to invest in Southeast in ways that will impact health and social determinants.

In response to the health needs that were identified in the 2015 RVCHA, Community Health and Outreach staff provided 2,101 holistic health events that included a variety of health education, health screenings and immunizations that reached 65,025 people. CMC gave 49 community grants that reflect the RWJF framework and align with needs identified through the 2015 RVCHA promoting the community health focused work of partners in the region.

HRV, Carilion Clinic, New Horizons Healthcare and Bradley Free Clinic launched the Pathways HUB partnership, with funding from the Virginia Health Care Foundation, to improve coordination of care. Community Health Workers help qualified patients tackle barriers and complete Pathways to better health. As of early 2018, 677 people had been offered participation in the HUB, 244 people participated, and 348 pathways had been completed with patients. During this pilot phase, the HUB participants experienced a 67% decrease in avoidable ED visits to CRMH and a 73% decrease in subsequent avoidable inpatient admissions, plus an 87% decrease in length of stay days.

Fresh Foods Rx, operated by HRV, with critical support from Carilion Clinic, completed three full summer cycles with diabetic patients at Carilion Family Medicine Southeast, Carilion Family Medicine Roanoke/Salem and at New Horizons Healthcare. Through weekly health education and coaching visit sessions with physicians, as well as with a weekly free prescription to purchase local fresh food at the LEAP Mobile Market after class, participants overall saw reductions in A1c, BMI and blood pressure during the program and increased their awareness of healthy behaviors.

In response to the top need identified in the 2015 RVCHA, “lack of nutrient dense foods in diet,” Carilion has invested in a variety of options to bring local, nutritious foods to residents of the region, especially those living in low income, low food access areas. Carilion Clinic’s Urban Farm was built in spring 2018 in Southeast, bringing with it access to healthy fresh food and education to the neighborhood. Carilion has seen great engagement from the neighborhood in this project and looks forward to beginning health education. Roanoke Community Garden Association is also building a community garden next to the Urban Farm to provide space for community members to garden.

Nearly \$300,000 of local food has been purchased since 2013 by Carilion employees through LEAP’s Farmshare program, increasing healthy food access for employees and impacting the local economy. As the largest employer in the region, efforts to support the health of employees and their families contribute to the overall health of the community. Carilion Medical Center also participates in the Healthier Hospitals Initiative. As a result, Carilion has increased local and sustainable food purchasing in cafes. Additionally, many community grants provided by Carilion increase access to healthy food options for the Roanoke Valley, specifically those within MUA.

Carilion also provided support to create additional physical fitness opportunities by building a kayak launch on the Roanoke River and supporting the development of soccer fields in Southeast.

Success Measures

As a result of Carilion Clinic and HRV’s investments and the coordinated programming of community partners, the City of Roanoke’s RWJF County Health Factor Ranking has improved for the past 6 consecutive years. In addition, the City of Salem and Craig County improved their health factors ranking from 2015 to 2018 and the counties of Botetourt and Roanoke stayed the same at #12 and #14 respectively, making them two of the top ranked localities in the state.

In addition to County Health Rankings, Carilion Clinic monitors program outcomes for internal health programming, as well as for grant funded programs. A scorecard is being created to track specific secondary, primary, and program outcome indicators.

The analysis below shows directional trends between the 2015 and 2018 CHS results.

* Denotes significant change from 2015 measurement.

Right direction:

- Having a specific doctor’s office / health center when sick *
 - ... and for new health problems
 - ... and for preventive care
 - ... and for referrals *
- Using medical care services
- Using dental care services
- Having eye exam in past 12 months *

- Having dental exam within past 12 months *
- ED visits for injuries
- Domestic violence and abuse victim
- Taking medicine doctor tells me
- Affording medicine needed for health conditions
- Having a mammogram *
- Having a colonoscopy *
- Neighborhood supporting physical activity
- Neighborhood supporting healthy eating
- Easy to get affordable fresh fruits and vegetables
- Affording food for family
- Time since last routine check-up *
- Time since last dental clinic visit *
- Heroin use
- Being told by doctor that you have:
 - Asthma
 - Drug or alcohol problems
- Having insurance

Wrong direction:

- ED visit in past 12 months
- Having a long-term or chronic illness
- Having a Pap smear
- Fruit and vegetable consumption in past 7 days *
- Physical activity in past 7 days
- Family eating together in past 7 days
- Being told by a doctor that you have:
 - Depression or anxiety
 - High blood pressure *
 - I have no health problems *
 - Obesity / overweight
 - High cholesterol
 - Mental health problems
 - High blood sugar or diabetes *
 - Heart disease
 - COPD
 - Cancer *
 - Stroke / Cerebrovascular disease
 - HIV/AIDS
 - Cerebral palsy

HRV's Data Collection and Quality Improvement Team also tracks trends in Community Health Assessment data and evaluates specific expected outcomes related to HRV's strategic priorities (please see appendix 5 for the HRV 2016-2019 Strategic Framework). HRV will update its strategic framework to respond to the 2018 RVCHA.

2018 Community Health Assessment Data

Primary Data and Community Engagement

Stakeholder Survey Results

Throughout the CHA process, community stakeholders, leaders, and providers were encouraged to complete the Stakeholder Survey (Appendix 6: Stakeholder Survey). This survey provided an additional perspective to the needs and barriers to health facing our community. Stakeholder focus groups were held in addition to Stakeholder Survey distribution, to ensure all responses were captured. The survey was available online and in print, and was distributed at meetings and focus groups.

In total, **102** surveys were completed:

- 35** online surveys

- 67** print surveys

- 5** focus groups

Stakeholders identified substance use as the biggest issue that impacts health, followed by lack of transportation. Lack of transportation was also identified as the biggest barrier to health, followed by poverty. Poverty was among the top three responses for both needs and barriers to health.

Southeast Roanoke City was identified as the locality with the greatest unmet need, followed by Northwest Roanoke City. Poverty, access to healthy food, lack of transportation, and poor housing were among the reasons given for these localities being chosen.

The population groups identified with the greatest unmet need were those in poverty, closely followed by the elderly.

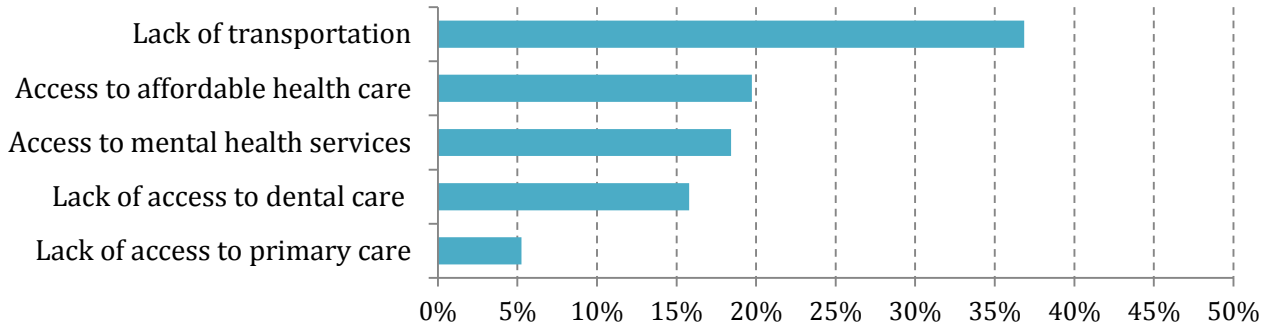
Respondents identified access to transportation as the biggest change the community could make to meet the needs and reduce the barriers to health. Expansion of Medicaid was also frequently identified as a valuable change to be made, which was passed by Virginia in May 2018.

Stakeholders were asked the following questions. Main themes, subcategories, and percent of respondents that identified them are graphed.

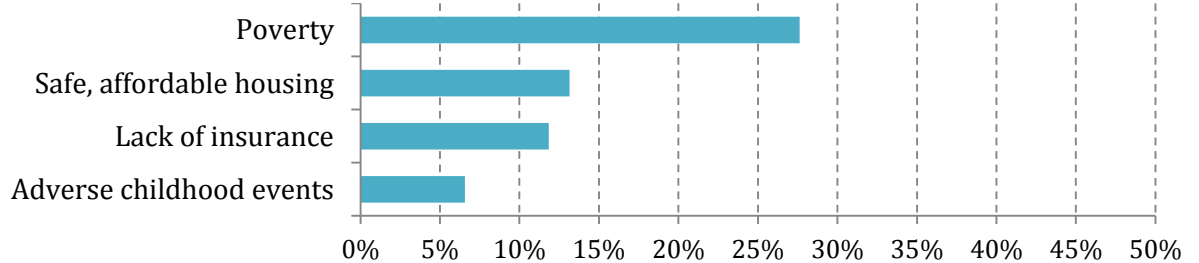
1. What are the most important issues (needs) that impact health in your community?

Main themes, subcategories, and percent of respondents that identified them:

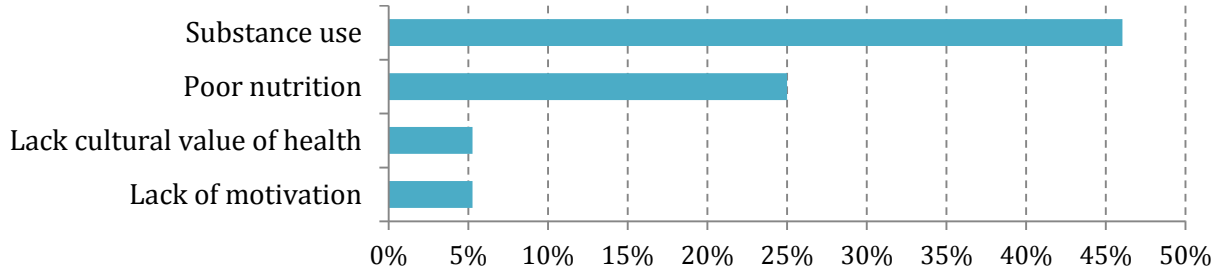
Access to services:



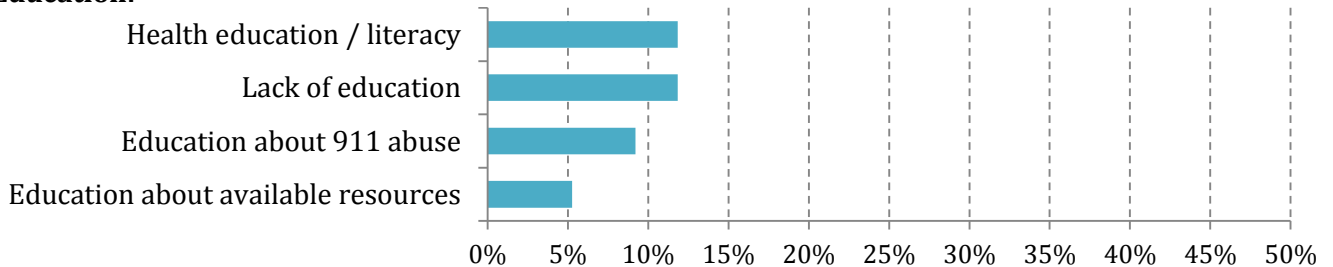
Socioeconomic issues:



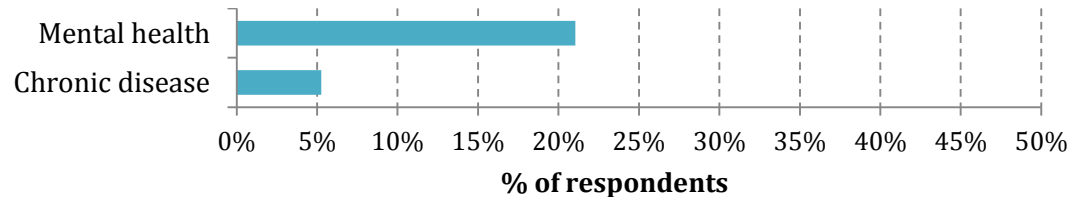
Healthy behaviors:



Education:



Health outcomes:

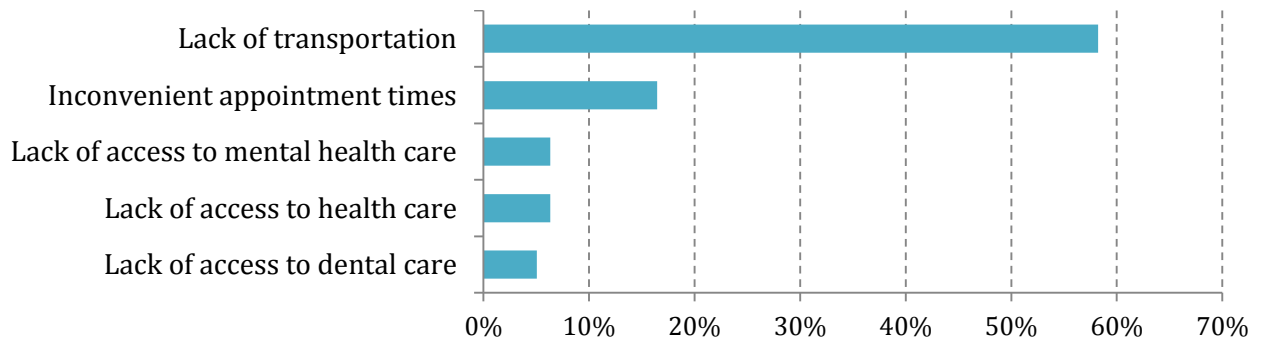


Total respondents: 76

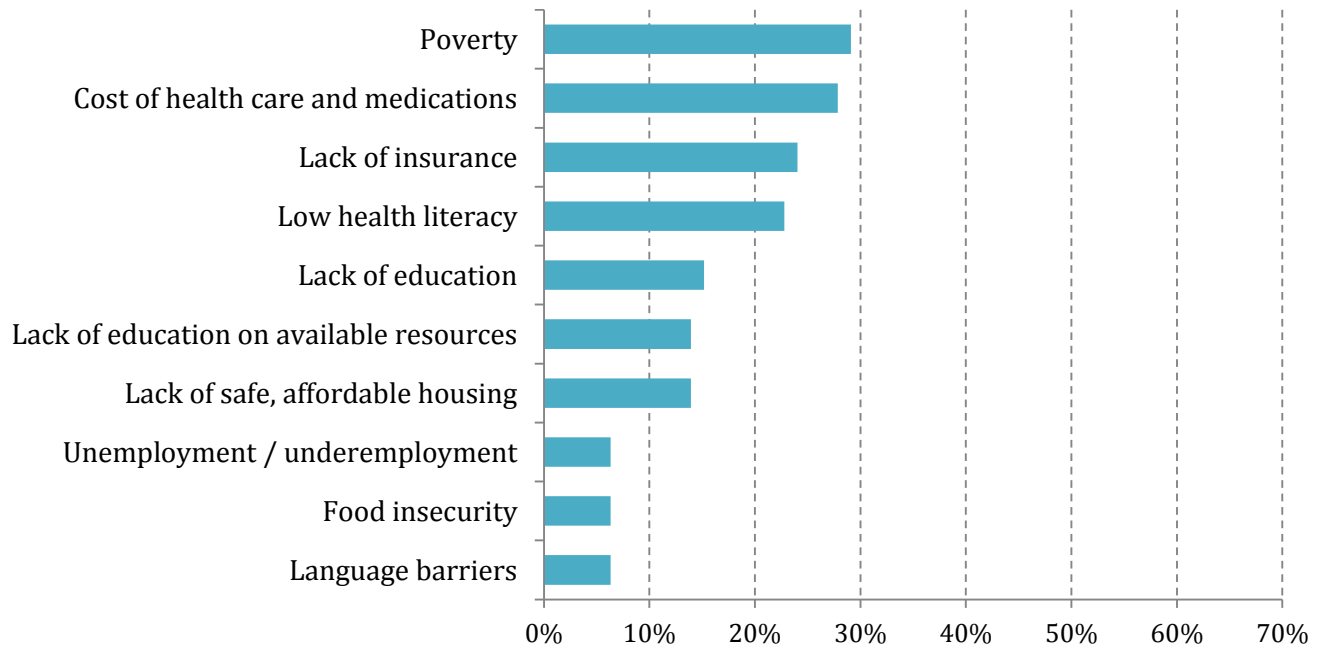
2. What are the barriers to health for the populations you serve?

Main themes, subcategories, and percent of respondents that identified them:

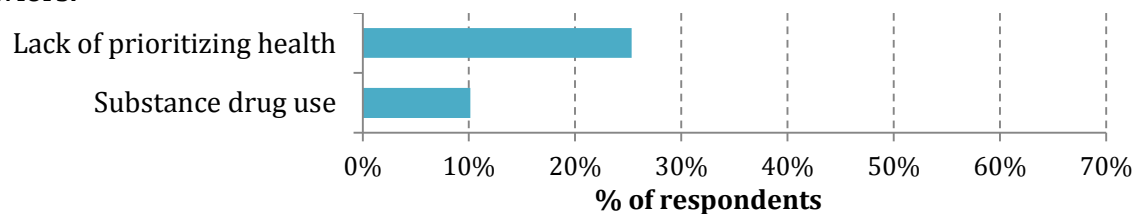
Access to services:



Socioeconomic barriers:



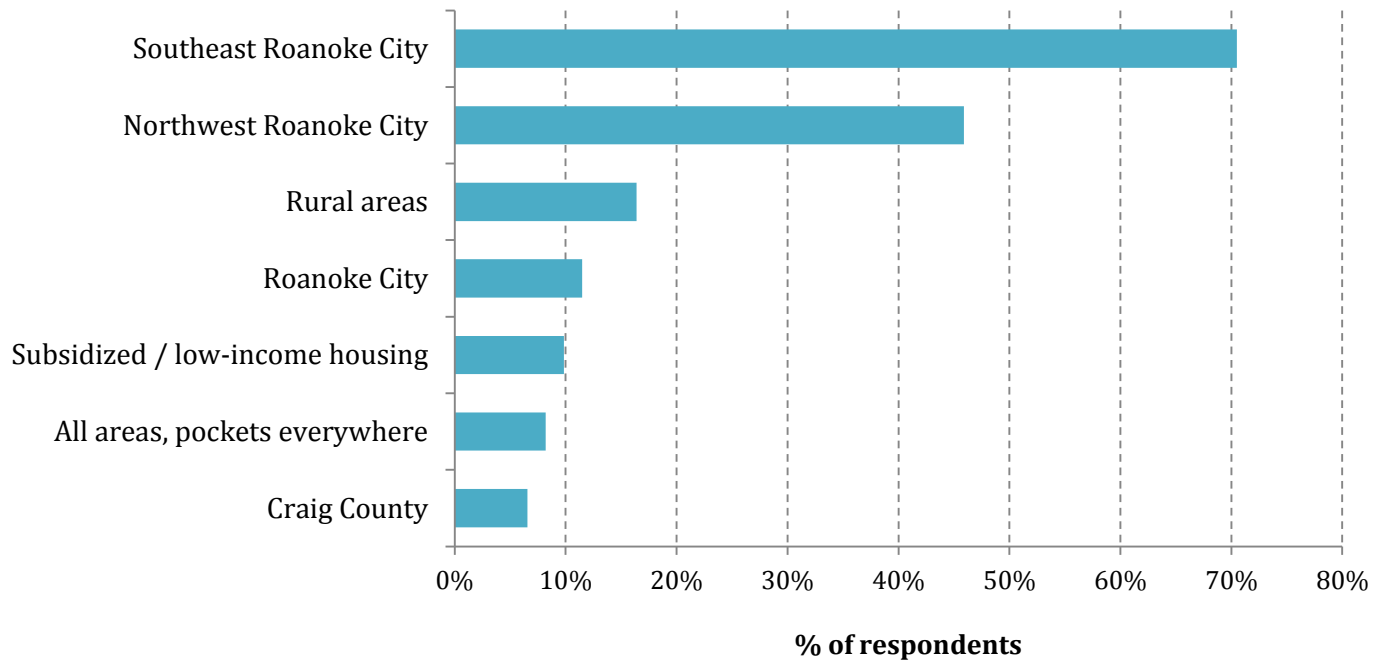
Healthy behaviors:



Total respondents: 79

3. Is there one locality / neighborhood with the greatest unmet need? If so, why?

Main themes and percent of respondents that identified them:



Why:

Southeast Roanoke City:

- Poverty
- Food desert
- Poor housing
- Substance use
- Low education
- Transportation
- Access to healthcare
- Lack of prioritizing health
- Services are out of the way
- Lack of knowledge of resources

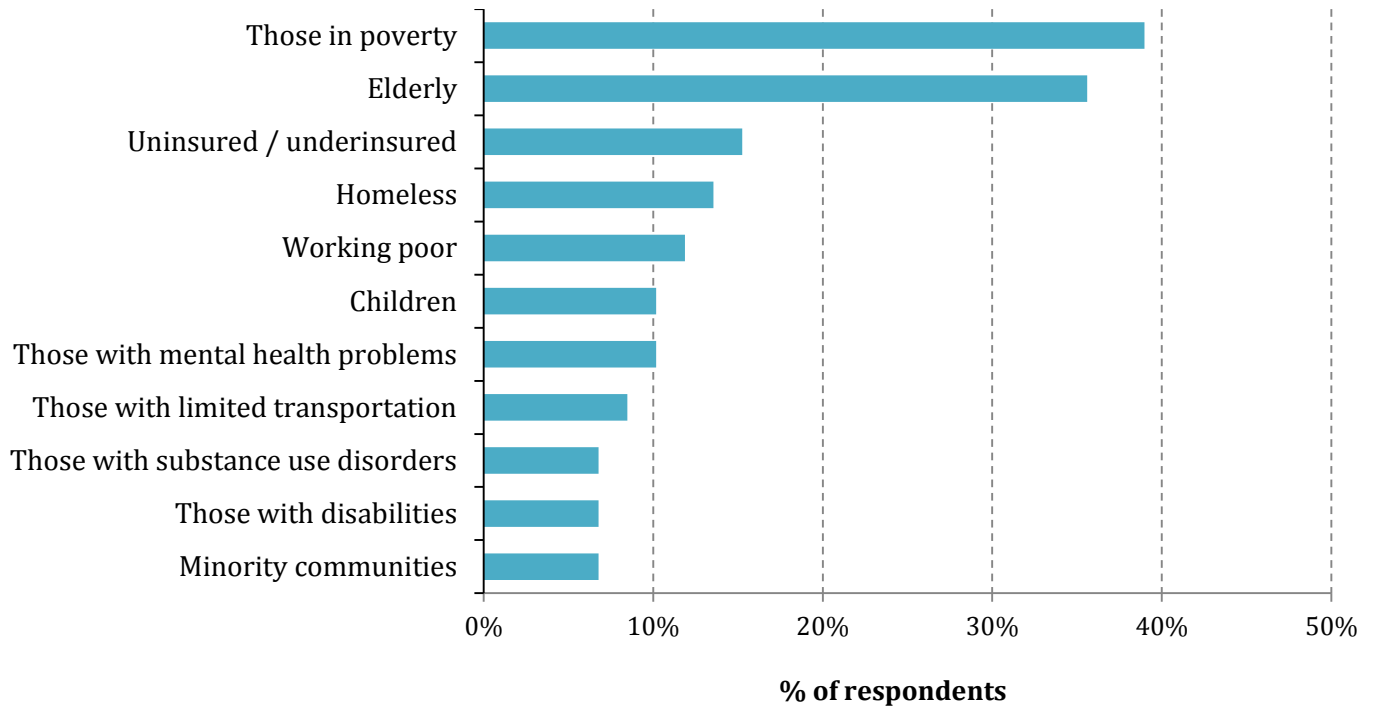
Northwest Roanoke City:

- Poverty
- Food desert
- Poor housing
- Crime / safety
- Substance use
- Low education
- Transportation
- Absence of grocery store
- Lack of prioritizing health
- Lack of knowledge of resources

Total respondents: 61

4. Is there one population group with the greatest unmet need?

Main themes and percent of respondents that identified them:



Total respondents: 59

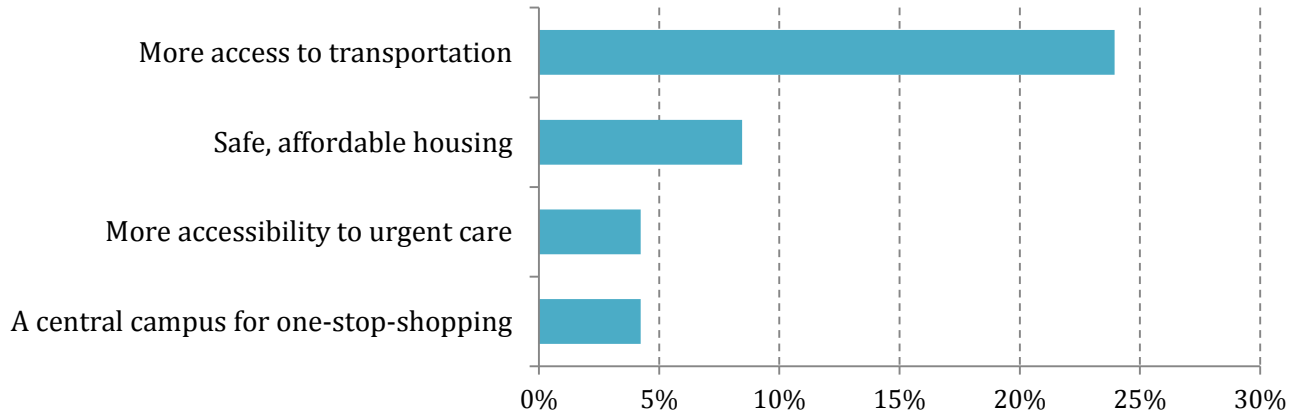
5. What are the resources for health for the populations you serve?

- 211
- 911
- Acute care facilities
- ARCH, Bethany Hall and Trust House
- Assisted living
- Blue Ridge Behavioral Healthcare
- Blue Ridge Independent Living Center
- Bradley Free Clinic
- Campus health centers
- Carilion Community Health and Outreach
- Carilion Dental Clinic
- Carilion Direct
- Carilion Financial Assistance
- Carilion Medication Assistance Program
- Children's Trust Roanoke Valley
- CHIP
- Christian Free Clinic
- Christian Soldiers Food Pantry
- Churches
- Community centers
- Community gardens
- Community Health Clinic
- Community Health Workers
- Community Housing Resource Center
- Dental Health Initiative
- Department of Medical Assistance Services
- Department of Social Services
- Drug stores – “minute clinics”
- Emergency Room
- Employment programs
- Family Service of Roanoke Valley
- FAMIS
- Farmers markets
- Federally Qualified Health Centers (FQHCs)
- Feeding America / Food banks
- Fire-EMS
- Fralin Free Clinic
- Good Samaritan Hospice
- Governor's Access Plan
- Greenway
- Happy Healthy Cooks
- Head Start
- Health Department
- Healthy Families
- Homeless Assistance Team
- HOPE initiative
- Housing assistance
- Lead Safe Roanoke
- LEAP mobile market
- Lewis-Gale
- Local Office on Aging
- Long term care
- Medic truck
- Medicaid
- Medical homes
- Medicare
- Mental Health America
- Mobile markets
- National Alliance on Mental Illness
- New Horizons Healthcare
- Nurses
- Older Americans Act
- On Our Own
- Pantry at Calvary Chapel
- Parks and Recreation Department
- Pathways HUB
- Presbyterian Community Center (PCC)
- Peer Recovery Specialists
- Police Department
- Public Libraries
- Public school systems
- REACH
- Rescue Mission
- Resource Mothers
- Roanoke Area Ministries
- Roanoke Prevention Alliance
- Resiliency Collective
- Roanoke Valley Mental Health Care Collaborative
- Salem Food Pantry
- Salvation Army
- School nurses
- Carilion Family and Community Medicine (Southeast)
- SeniorNavigator.org
- SNAP
- Social Services
- TANF
- Teen Health Centers
- The Council of Community Services
- Carilion Transgender clinic
- Trauma Network
- United Way of the Roanoke Valley
- Urgent Care
- VA Medical Center
- Virginia Cooperative Extension
- Virginia Western Dental Clinic
- VirginiaNavigator.org
- WIC

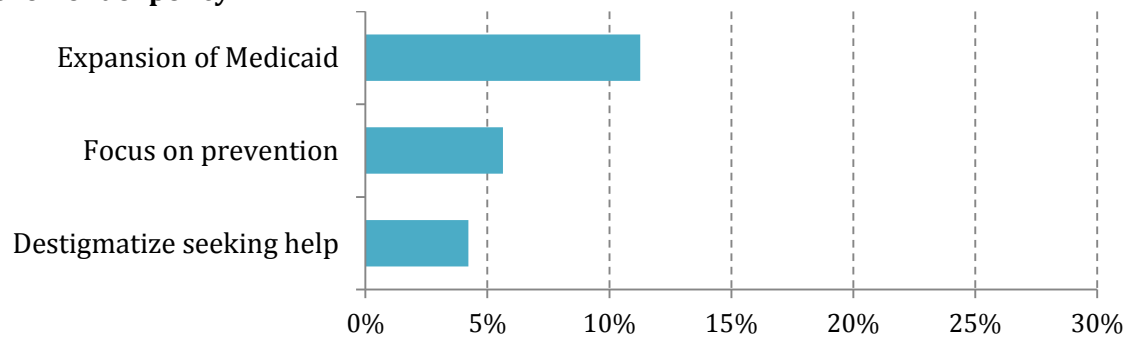
6. If we could make one change as a community to meet the needs and reduce the barriers to health, what would that be?

Main themes, subcategories, and percent of respondents that identified them:

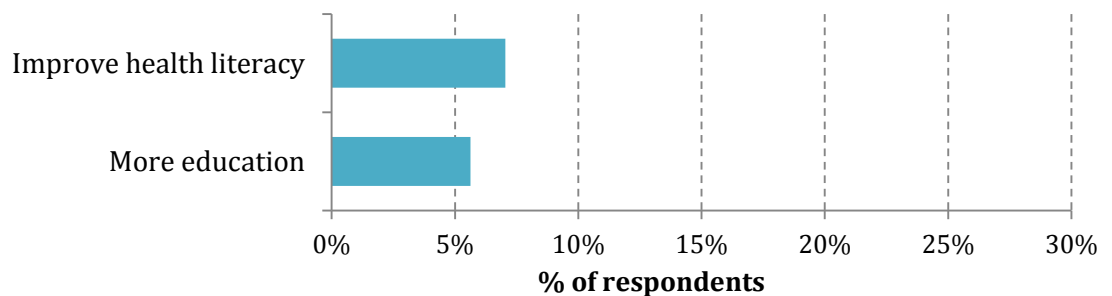
Additional resources:



Change / Improvement of policy:



Education:



Total respondents: 71

Target Population Focus Group Results

Target population focus groups were conducted to capture the needs and barriers to health for the uninsured, underinsured, low-income, minority, senior, and chronically ill populations. Focus group locations were chosen based on their service to target populations, and where existing groups already met.

Ten target population focus groups were held and were asked questions related to needs and barriers to health, and access to primary, oral, and mental health care.

Focus group locations:

AARP:

AARP is an organization that serves and advocates for the retired population of America with the goal of productive and healthy aging. Members receive benefits from a variety of domains such as health, travel, and insurance.

For more information, visit <https://www.aarp.org/>

Our Women's Group:

Women, originally from different countries, coming together to make friendships, speak English and learn about each other.

Blue Ridge Literacy:

Blue Ridge Literacy serves adults in western Virginia to strengthen their literacy skills. English for Speakers of Other Languages (ESOL) courses for immigrants and refugees, basic literacy tutoring for native-born English speakers, and citizenship preparation classes are offered.

For more information, visit <http://www.blueridgeliteracy.org/>

Bradley Free Clinic:

The Bradley Free Clinic provides free medical, dental, and pharmacy care to the Roanoke Valley's working uninsured, temporarily unemployed, and their families using volunteer health care professionals.

For more information, visit <http://bradleyfreeclinic.com/>

Melrose Towers:

Part of the Roanoke Redevelopment and Housing Authority, Melrose Towers is a nine-story independent living apartment building located in the Northwest MUA for individuals who are 62 years of age or older, or who are disabled. Rent is income-based.

For more information, visit <https://www.rkehousing.org/melrose-towers>

Morningside Manor:

Part of the Roanoke Redevelopment and Housing Authority, Morningside Manor is a six-story independent living apartment building located in the Southeast MUA for the elderly and disabled. Rent is income-based.

For more information, visit <https://www.rkehousing.org/morningside-manor>

Peer Recovery Specialists:

Certified Peer Recover Specialists have lived experience with mental illness or substance use disorders and now wish to inspire and support others in their journey to recovery.

Peers must complete a 40-hour week-long training to become certified. Two focus groups were held with Certified Peer Recovery Specialists.

For more information, visit <https://www.carilionclinic.org/community-programs>

Presbyterian Community Center:

The Presbyterian Community Center (PCC) is a coalition of Christian resources from the Roanoke Valley, bringing together churches, caring volunteers, professionals, and financial contributions for a ministry designed to help neighbors in need that live in the Southeast MUA, the eastern quadrants of Roanoke County, and the Town of Vinton.

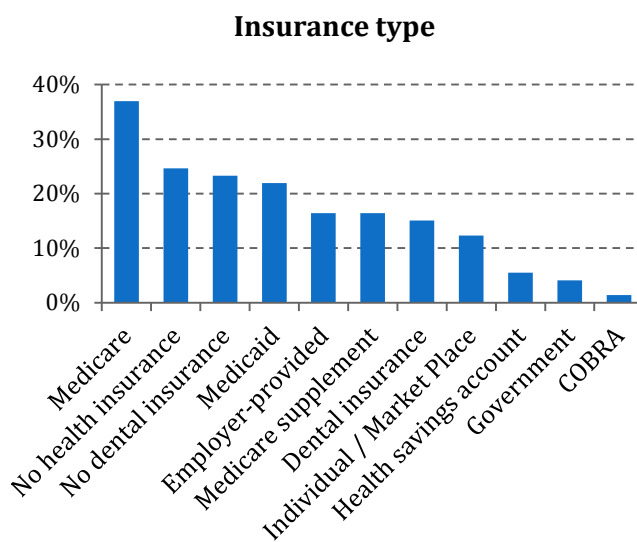
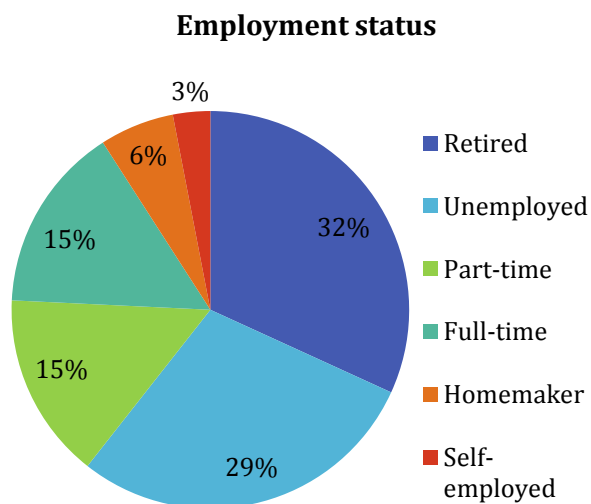
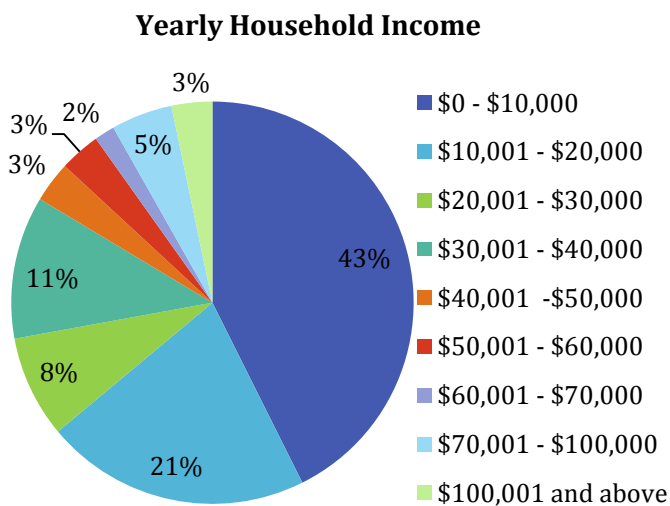
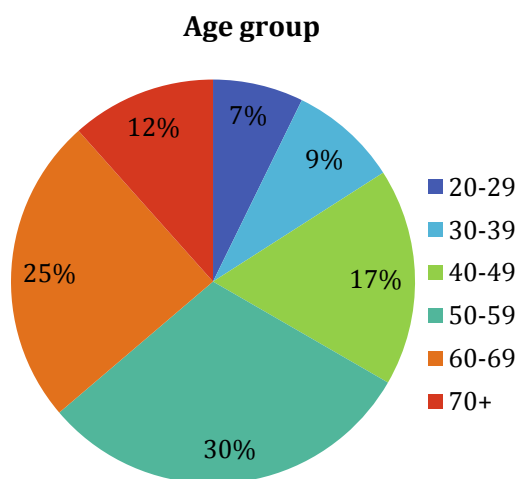
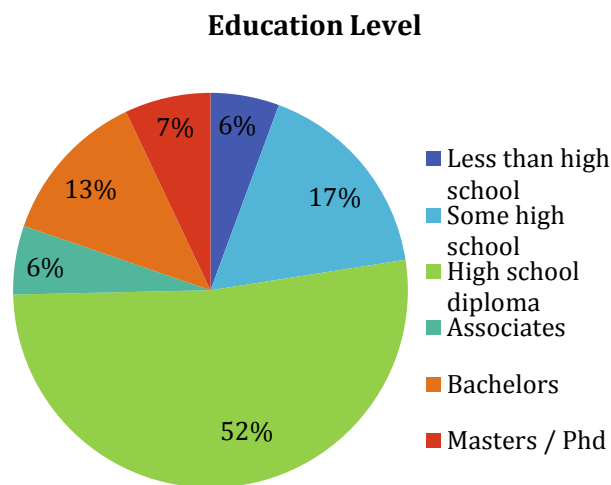
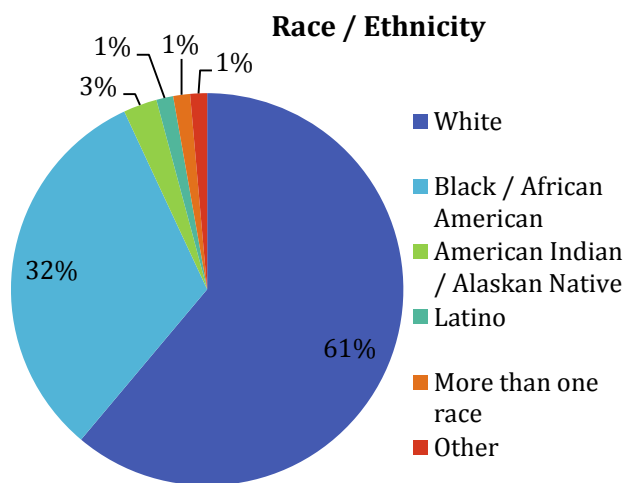
For more information, visit <http://pccse.org/>

Rescue Mission of Roanoke:

The Rescue Mission of Roanoke provides a safe shelter for those who are burdened by homelessness, disabilities, addictions, and abuse. Warm beds, three meals per day, medical care, and legal assistance are available to all guests.

For more information, visit <https://rescuemission.net/>

Focus Group Demographics



Focus Group Responses

To begin the focus groups, attendees were asked to describe good health. A word cloud was created to show results; the larger the word is in the cloud, the more a term was used.

1. In one or two words, how would you describe good health?

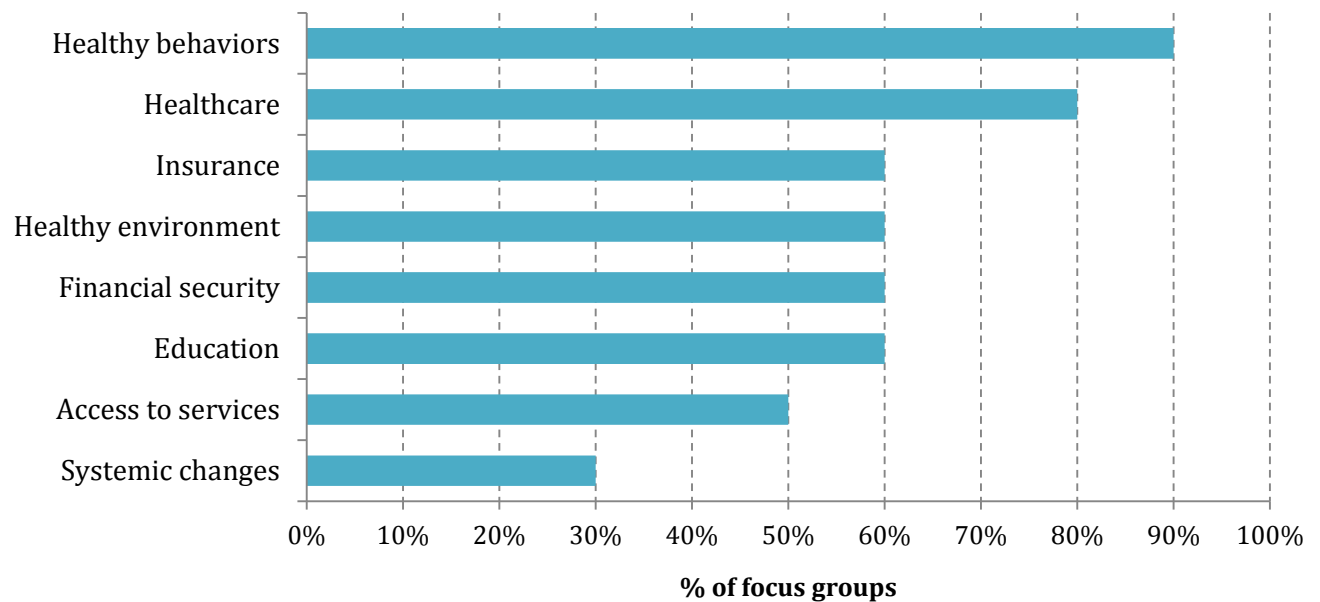


Responses from the rest of the questions revealed that most focus groups were aware of the importance of healthy behaviors and healthcare, but socioeconomic factors limit access to available services and encourage home remedies, inappropriate use of emergency services, or neglect in place of preventive and regular care.

One focus group attendee identified this, saying *“There are people who have to choose between medication and food, because they cannot afford both.”* During a discussion on mental health services, another focus group attendee had a similar thought, saying, *“To spend money talking to a counselor does not seem high on my list. There are other priorities that I need. It should be used for health, but it’s not.”* Though these individuals are aware of the importance of healthcare, other competing priorities make it difficult to invest in available services.

2. Looking at this list, what things do you need to have good health like what we've described?

Main themes and percent of focus groups that identified them:



Subcategories of main themes:

Healthy behaviors:

- Exercise
- Cleanliness
- Drink water
- Rest / Sleep
- Social interaction
- Healthy food/diet
- Personal prioritization of health

Healthcare:

- Medication
- Specialty care
- Affordable care
- Preventive care
- Good quality care
- Availability of physicians
- Doctors closer to where I live
- Consistency / Coordination of care

Education:

- Life skills
- Information about health system / health literacy

Healthy environment:

- Good weather
- Clean air and water
- Neighborhood safety
- Safe housing conditions
- Places to exercise: Walking areas / greenways / gym

Financial security:

- Money
- Affordable healthy food
- Financial support for caregivers
- Lower health insurance deductibles

Access to services:

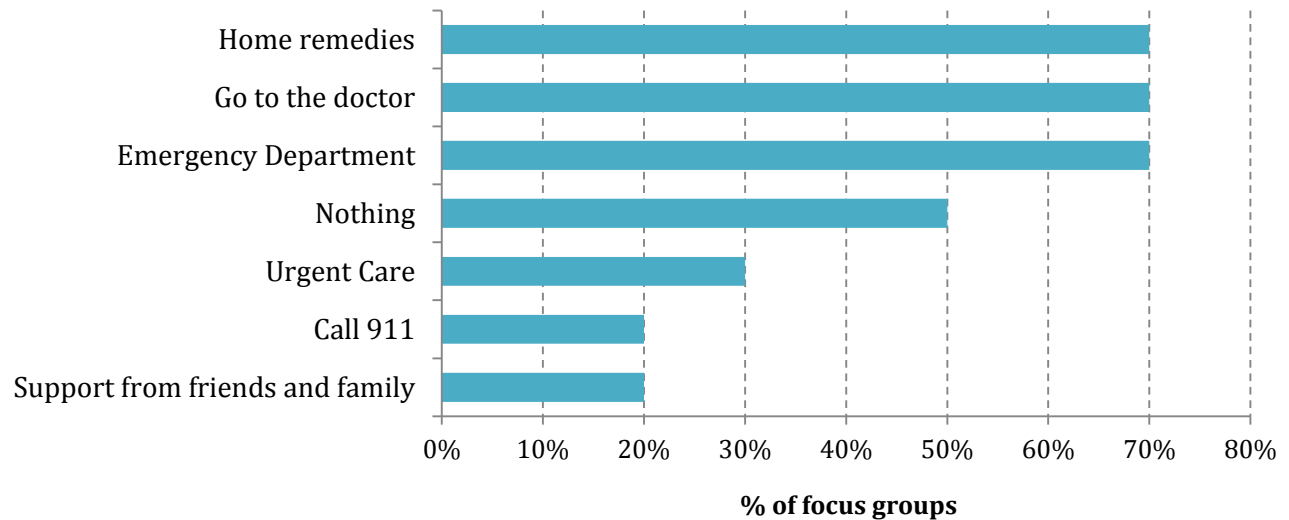
- Transportation
- Translation services
- Patient advocates / caregivers

Systemic changes:

- Medicaid expansion
- Supportive government / legislation

3. What do you, or your family and friends, do when you need a check-up or are sick?

Main themes and percent of focus groups that identified them:



Subcategories of main themes:

Home remedies:

- Rest
- Self-care
- Stay home
- Ginger root
- Take vitamins
- Take temperature
- Take OTC medicine
- Search internet for solutions

Go to the doctor:

- Free Clinics
- Veterans Affairs
- Community Care
- Primary care physician
- New Horizons Healthcare
- Roanoke Rescue Mission clinic

Nothing:

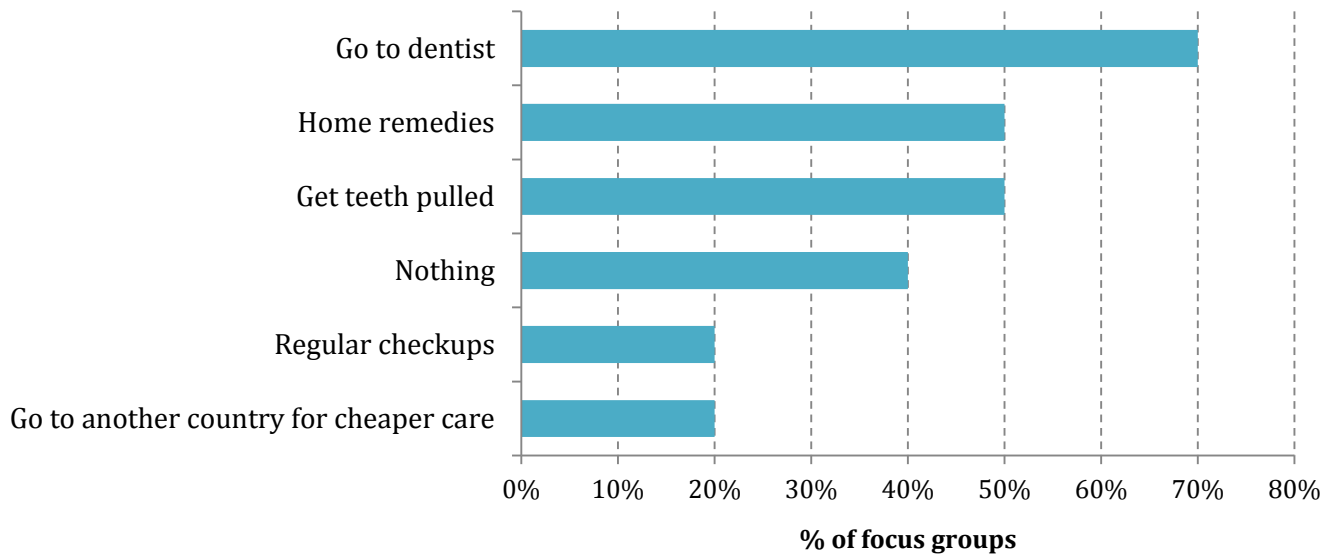
- Fear of doctor
- No insurance
- Care is expensive
- No transportation to clinic
- Insurance coverage is confusing
- Hard to get appointments when you need them

Other responses:

- Cry
- Pray
- Call a nurse
- Minute clinics
- See a pharmacist
- Go to a church clinic
- Have a regular physical
- Call insurance company for information
- Get advice from others that have been sick

4. What do you, or your family and friends, do when you have a toothache or need your teeth cleaned?

Main themes and percent of focus groups that identified them:



Subcategories of main themes:

Go to dentist:

- Free clinic
- Mission of Mercy
- Emergency Room
- Community healthcare
- New Horizons Healthcare
- Roanoke Rescue Mission Clinic
- Virginia Western Community College

Home remedies:

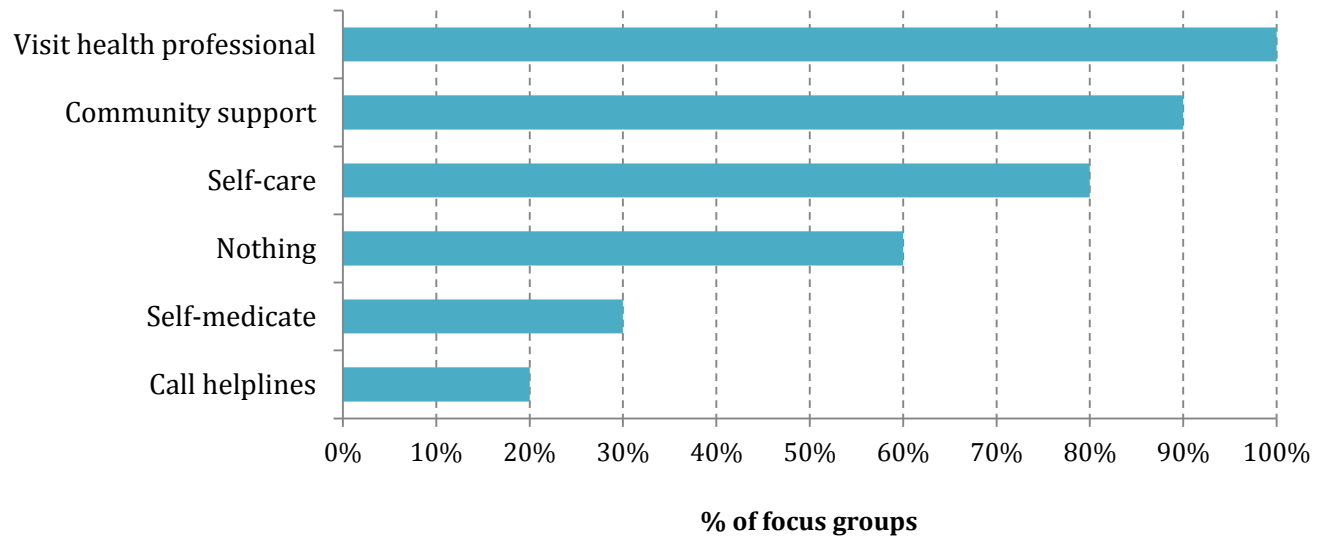
- Orajel
- Saltwater
- BC Powder
- Brush teeth
- Heating pad
- Eat soft things
- OTC medication
- Hydrogen peroxide
- Garlic on cotton ball

Nothing:

- Expensive
- Hard to find dentist
- No insurance coverage
- Haven't had teeth cleaned since childhood

5. What do you, or your family and friends, do when you need to talk to someone about your nerves / stress / depression or need help with alcohol or drug abuse?

Main themes and percent of focus groups that identified them:



Subcategories of main themes:

Visit health professional:

- Gerontologist
- Emergency room
- School counselors
- Bradly Free Clinic
- Health department
- Psychiatrist, therapist, counselor

Community support:

- AA
- NA
- Community centers
- Visit church / priest / pastor
- Group therapy / Support groups
- Talk to family, friends, neighbors

Nothing:

- Not admit need help
- Fear of judgement / stigma

Self-care:

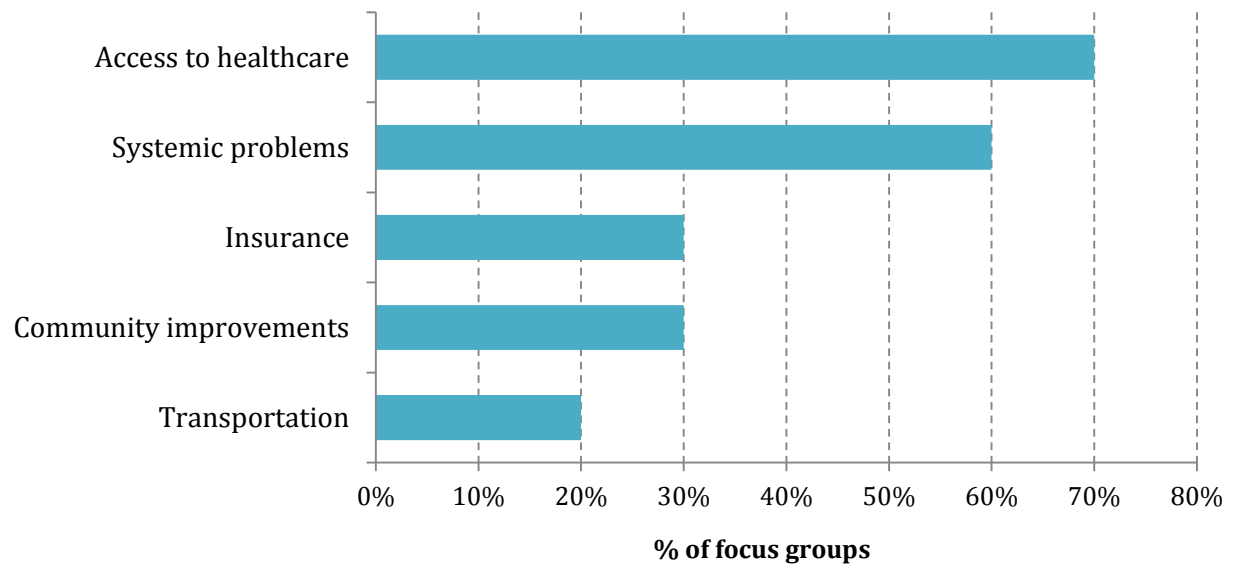
- Rest
- Read
- Draw
- Exercise
- Go outside
- Stay home
- Take a trip
- Play music
- Rely on faith

Other responses:

- EAP
- LOA
- Rehab
- In other countries, free medication
- In other countries, house visits from doctor
- Immigrants unaware of resources available

6. Is there anything else you would like to tell us about your health or the health of others in the Roanoke Valley?

Main themes and percent of focus groups that identified them:



Subcategories of main themes:

Access to healthcare:

- More honest doctors
- Lack of affordable care
- Access to specialist care
- Access to preventive care
- Better doctor-patient communication
- Care coordination between providers
- Long wait times for short doctor visits
- Doctors in hospital do not know me like my PCP

Systemic problems:

- Dysfunctional families
- Everyone needs to vote
- Stigma is still a problem
- Foster care needs improvement
- Government makes people angry
- Legalization of medical marijuana
- Prison system needs improvement
- Doctors prescribe too many opiates
- People must realize they need help first
- People born into poverty are treated differently
- Lack of sympathy for people without insurance
- Medical industry values money over quality of care

Insurance:

- Dental care not covered
- Universal healthcare needed
- Insurance is confusing and expensive
- Some places will turn you away without insurance

Community improvements:

- Better sidewalks
- More community art
- Needle exchange program
- Crime / drugs are a problem
- Services are not evenly geographically distributed
- Community gardens attached to community centers
- More money put into local economic development

Other responses:

- Food deserts
- Lack of sleep
- People are angry
- Unexpected health issues
- Access to pain medication
- Medication management is difficult
- Good to have big health centers nearby

Roanoke Valley Community Health Survey Results

A Community Health Survey was conducted as part of the Roanoke Community Health Assessment. This survey was used to evaluate the health of the community and identify potential geographic areas to target improvements. Input and oversight of survey development was provided by the Community Health Assessment Team (CHAT) and the HRV Data Tracking and Quality Improvement Action Team.

A 39-question survey instrument was developed that asked questions about socioeconomic factors, access to medical, dental, and mental health care, healthy behaviors, physical environment, health outcomes, and demographics. The survey instrument included commonly used questions and metrics from the following established community surveys:

- Community Themes and Strengths Assessments, National Association of County and City Health Officials (NACCHO), Mobilizing for Action through Planning and Partnerships (MAPP)
- Community Healthy Living Index, YMCA
- Behavioral Risk Factor Surveillance System, Centers for Disease Control (CDC)
- National Health Interview Survey, Centers for Disease Control (CDC)
- Youth Risk Behavior Surveillance System, Centers for Disease Control (CDC)
- Martin County Community Health Assessment, Martin County, North Carolina
- Previous Roanoke Valley Community Health Surveys

Both an English and Spanish version of the survey was available (Appendix 4: Community Health Survey).

The CHAT and HRV Data Tracking and Quality Improvement Action Team identified target populations, collection sites, and methods of survey distribution. The population of interest for the survey was Roanoke Valley residents 18 years of age and older. The Roanoke Valley included the CHA service area: Bedford County, Botetourt County, Craig County, Roanoke County, Roanoke City, and Salem City. The following subpopulations were especially targeted for sampling:

- Underserved/vulnerable populations disproportionately impacted by the social determinants of health including:
 - Poverty
 - Race/ethnicity
 - Education
 - Lack of insurance

A non-probability sample method was used, where respondents were not randomly selected. Although the survey was available to all residents living in the Roanoke Valley, oversampling of the targeted subpopulations occurred through specific outreach efforts. Oversampling of the targeted subpopulation ensured that needs and assets specific to this subpopulation of interest were captured.

Surveys were distributed in October 2017 through February 2018. Over 40 organizations, agencies, and community members assisted in the distribution of the survey. A drawing for a \$50 grocery gift card for those who completed the survey was offered as an incentive.

The survey instrument was available via the following methods:

- Survey Monkey link (www.surveymonkey.com/r/2018CHA)
- Phone line (888-964-6620)
- Paper surveys (collected by volunteers and/or staff of partner agencies)

Outreach strategies for survey distribution included:

- Media coverage by the local television and newspaper announcing the URL for the survey
- Facebook
- Face-to-face survey interviews at sites / agencies that serve the target populations using volunteers and/or staff
- Flyers and posters distributed throughout the community with survey URL and phone line information
- Survey URL posted on partner agency websites

In total, **2,308** surveys were collected:

1,485 paper surveys

821 online surveys

2 phone surveys

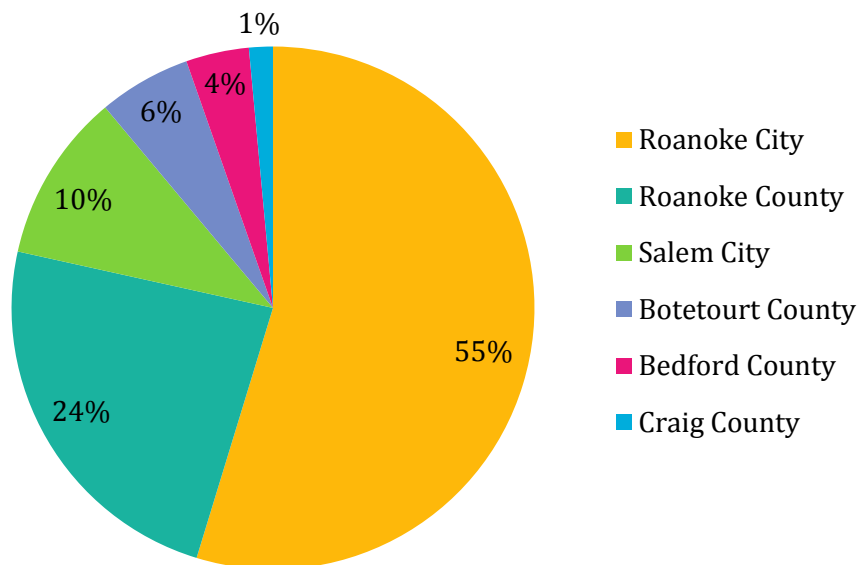
All responses were entered into Survey Monkey by survey respondents or by Carilion Direct who entered responses from paper or phone surveys. Surveys were analyzed and reported using Survey Monkey and Microsoft Excel.

Survey results for respondents who have self-identified as having cancer or once having cancer can be found in Appendix 9.

Community Health Survey Demographics

County of Residence

Locality	#	%
Roanoke City	1,263	54.7%
Roanoke County	548	23.7%
Salem City	241	10.4%
Botetourt County	132	5.7%
Bedford County	90	3.9%
Craig County	34	1.5%
Total Responses:	2,308	



Which of the following describes your current type of health insurance? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Employer Provided Insurance	738	37.3%	306	28.8%
Dental Insurance	428	21.6%	172	16.2%
Medicare	392	19.8%	230	21.6%
Medicaid	382	19.3%	251	23.6%
No Health Insurance	366	18.5%	247	23.2%
No Dental Insurance	358	18.1%	213	20.0%
Medicare Supplement	180	9.1%	87	8.2%
Individual / Private Insurance / Market Place / Obamacare	150	7.6%	72	6.8%
Health Savings / Spending Account	125	6.3%	58	5.5%
Government (VA, Champus)	73	3.7%	43	4.0%
COBRA	8	0.4%	2	0.2%
	Answered	1,980	1,064	
	Skipped	328	199	

If you have no health insurance, why don't you have insurance? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Not applicable- I have health insurance	891	67.9%	402	59.0%
Too expensive / cost	259	19.7%	174	25.6%
Unemployed / no job	123	9.4%	89	13.1%
Not available at my job	61	4.6%	35	5.1%
I don't understand Marketplace / Obamacare Options	24	1.8%	17	2.5%
Student	18	1.4%	11	1.6%
Other	44	3.4%	25	3.7%
	Answered	1,312	681	
	Skipped	996	582	

What is your zip code?

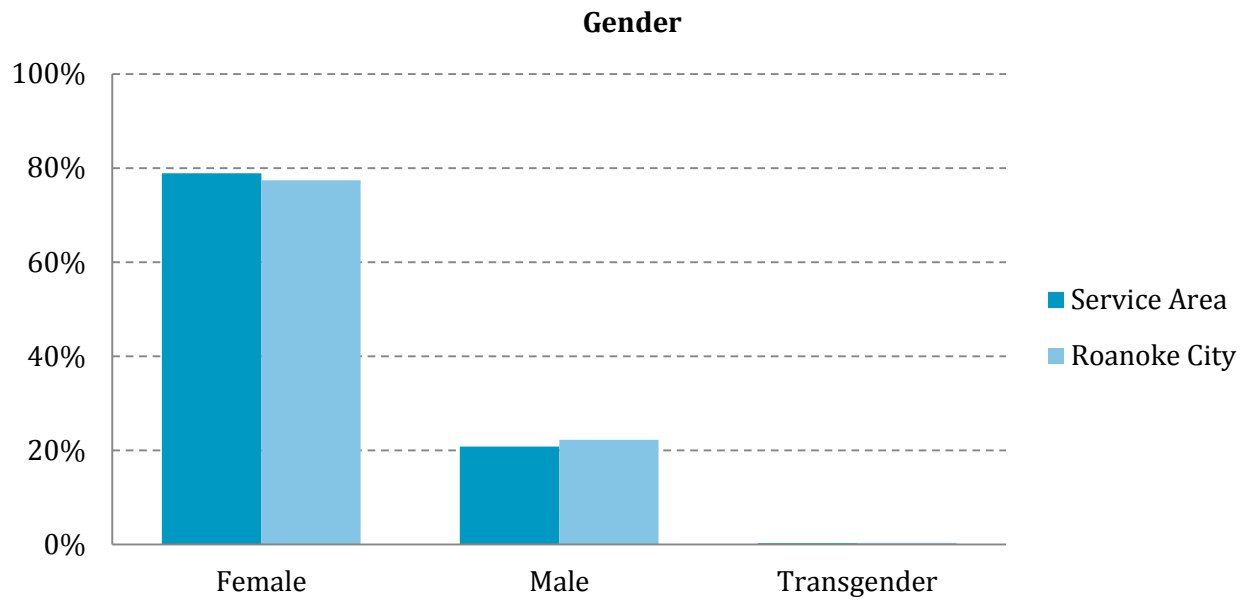
Zip Code	#	%
24017	324	15.6%
24153	274	13.2%
24012	237	11.4%
24018	227	10.9%
24013	148	7.1%
24019	143	6.9%
24015	134	6.5%
24016	130	6.3%
24014	126	6.1%
24179	75	3.6%
24175	33	1.6%
24121	31	1.5%
24127	30	1.4%
24101	29	1.4%
Other	136	6.5%

What is your age?

	Service Area	Roanoke City
Average:	46.1	46.2
Answered	1,944	1,034
Skipped	364	229

What is your gender?

	Service Area		Roanoke City	
	#	%	#	%
Female	1,592	78.9%	845	77.4%
Male	420	20.8%	243	22.3%
Transgender	5	0.2%	3	0.3%
Answered	2,018		1,092	
Skipped	290		171	



Height, in inches:

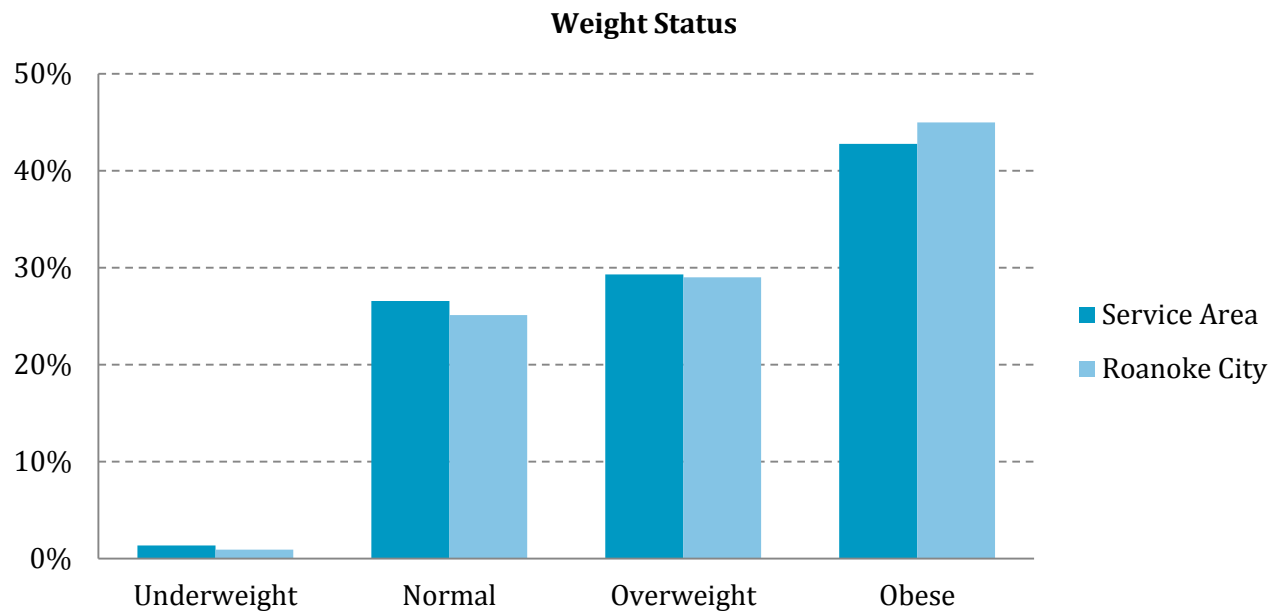
	Service Area	Roanoke City
Median:	65.0	65.0
Answered	1,927	1,038
Skipped	381	225

Weight, in pounds:

	Service Area	Roanoke City
Median:	176.0	178.0
Answered	1,879	1,011
Skipped	429	252

Weight status and BMI:

	Service Area	Roanoke City
Underweight	1.3%	0.9%
Normal	26.6%	25.1%
Overweight	29.3%	29.0%
Obese	42.8%	45.0%
Median BMI:	28.7	29.1

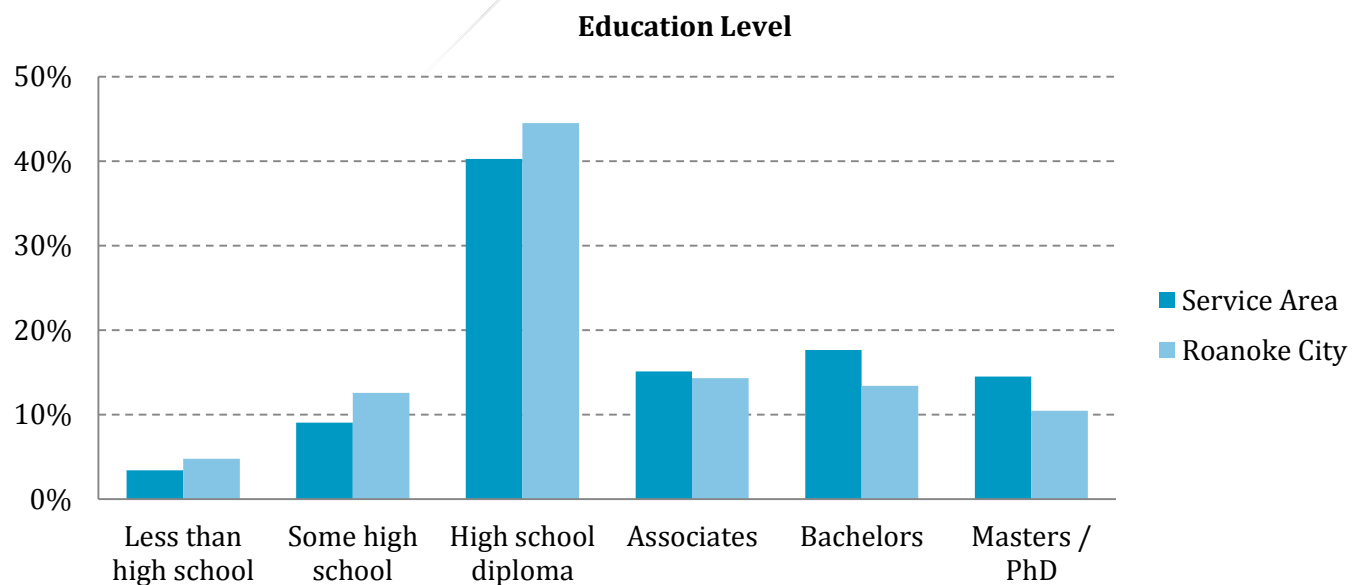


How many people live in your home (including yourself)?

	Service Area	Roanoke City
0-17 average:	1.6	1.6
18-64 average:	1.9	2.0
65+ average:	0.5	0.5
Answered	1,970	1,055
Skipped	338	208

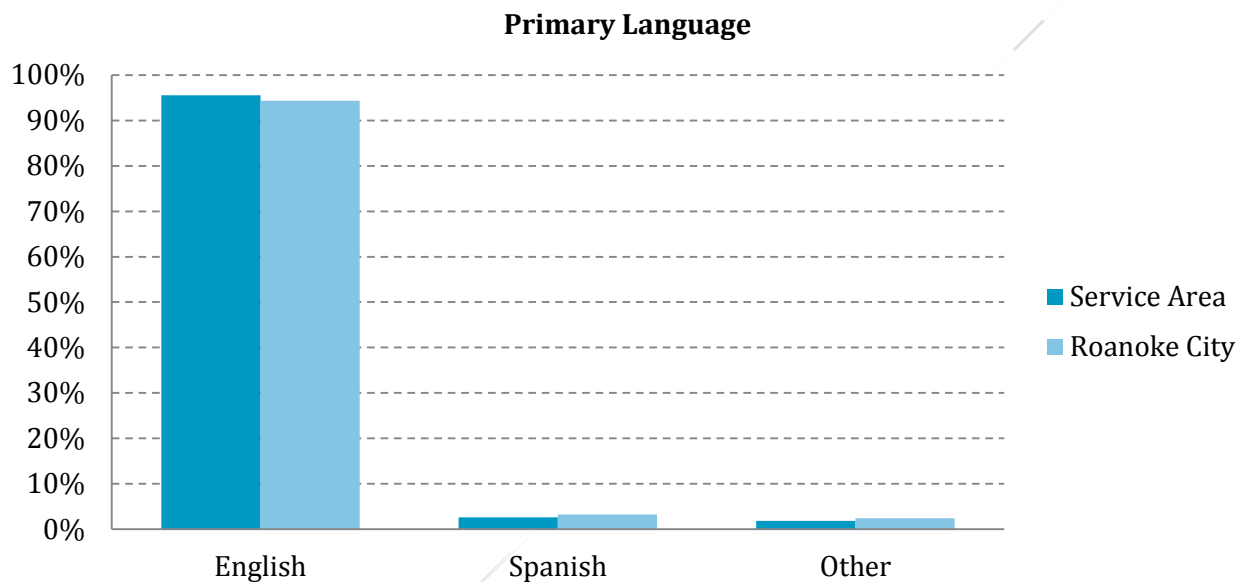
What is your highest education level completed?

	Service Area		Roanoke City	
	#	%	#	%
Less than high school	69	3.4%	52	4.8%
Some high school	183	9.1%	137	12.6%
High school diploma	813	40.3%	485	44.5%
Associates	305	15.1%	156	14.3%
Bachelors	356	17.6%	146	13.4%
Masters / PhD	293	14.5%	114	10.5%
Answered	2,019		1,090	
Skipped	289		173	



What is your primary language?

	Service Area		Roanoke City	
	#	%	#	%
English	1,912	95.6%	1,014	94.3%
Spanish	52	2.6%	35	3.3%
Other	37	1.8%	26	2.4%
Answered	2,001		1,075	
Skipped	307		188	

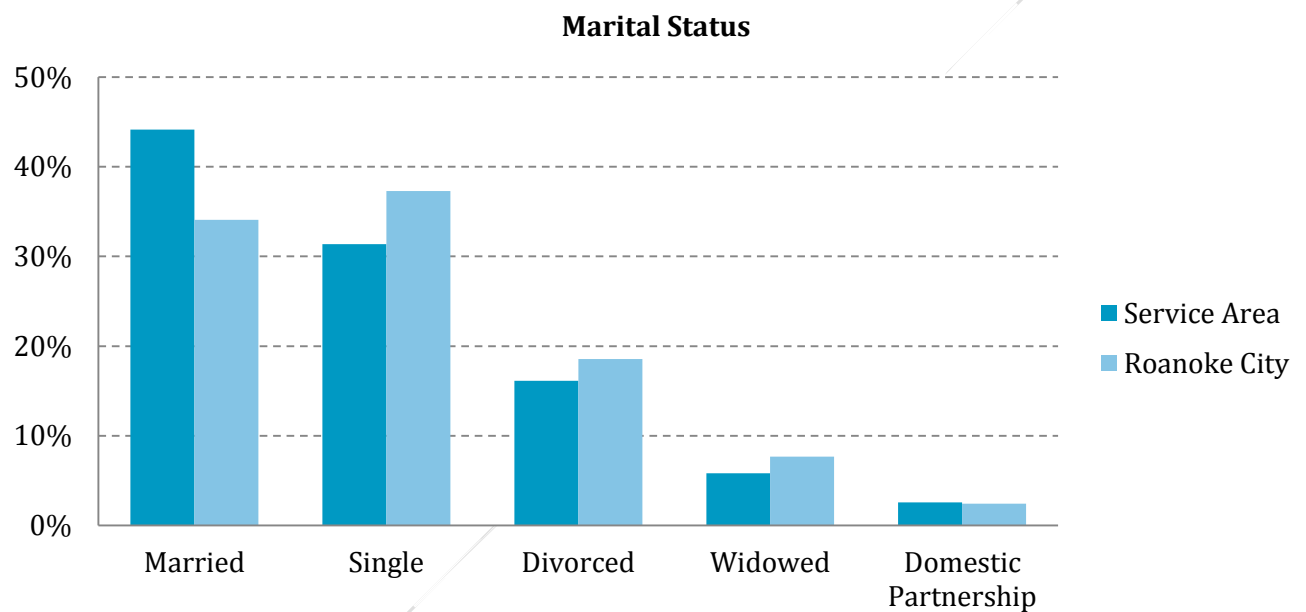


What ethnicity do you identify with? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
White	1,383	68.8%	594	55.0%
Black / African American	427	21.2%	365	33.8%
Latino	80	4.0%	54	5.0%
Decline to answer	54	2.7%	29	2.7%
More than one race	43	2.1%	26	2.4%
Asian	32	1.6%	21	1.9%
American Indian / Alaskan Native	24	1.2%	12	1.1%
Native Hawaiian / Pacific Islander	3	0.1%	2	0.2%
Other	10	0.5%	6	0.6%
Answered	2,010		1,080	
Skipped	298		183	

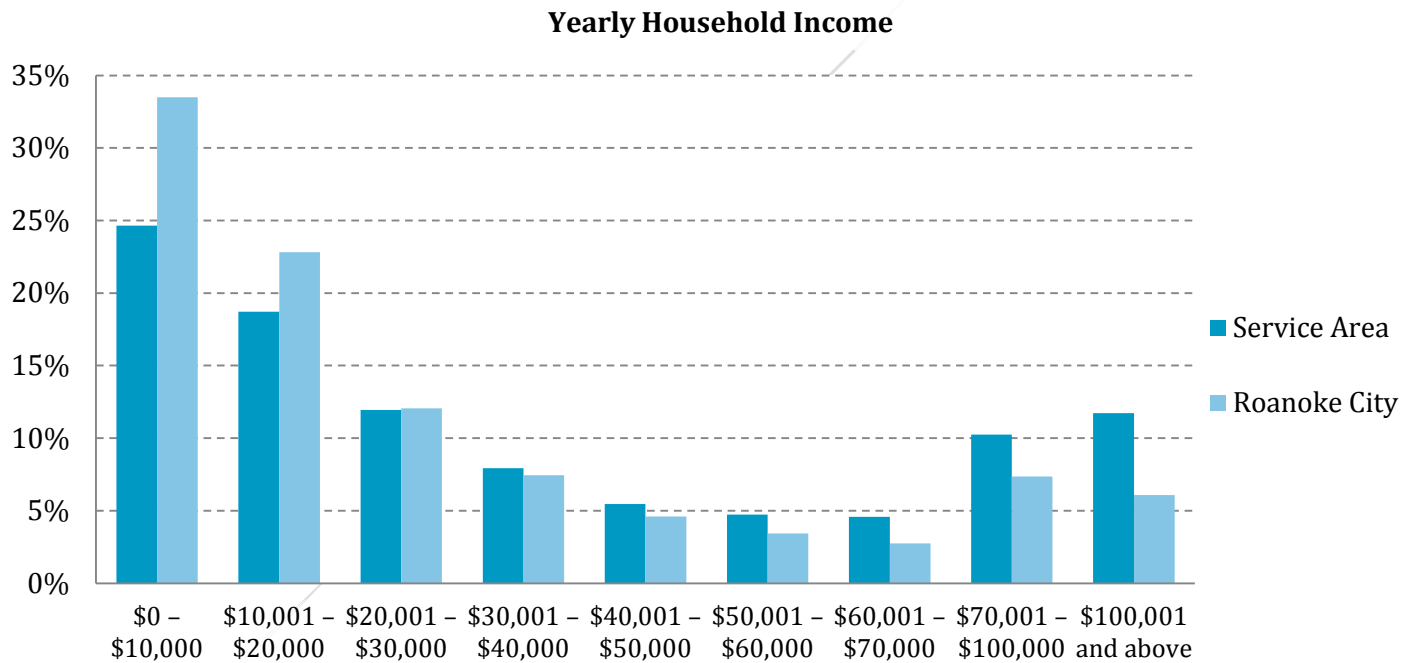
What is your marital status?

	Service Area		Roanoke City	
	#	%	#	%
Married	857	44.1%	351	34.1%
Single	609	31.4%	384	37.3%
Divorced	313	16.1%	191	18.5%
Widowed	113	5.8%	79	7.7%
Domestic Partnership	50	2.6%	25	2.4%
Answered	1,942		1,030	
Skipped	366		233	



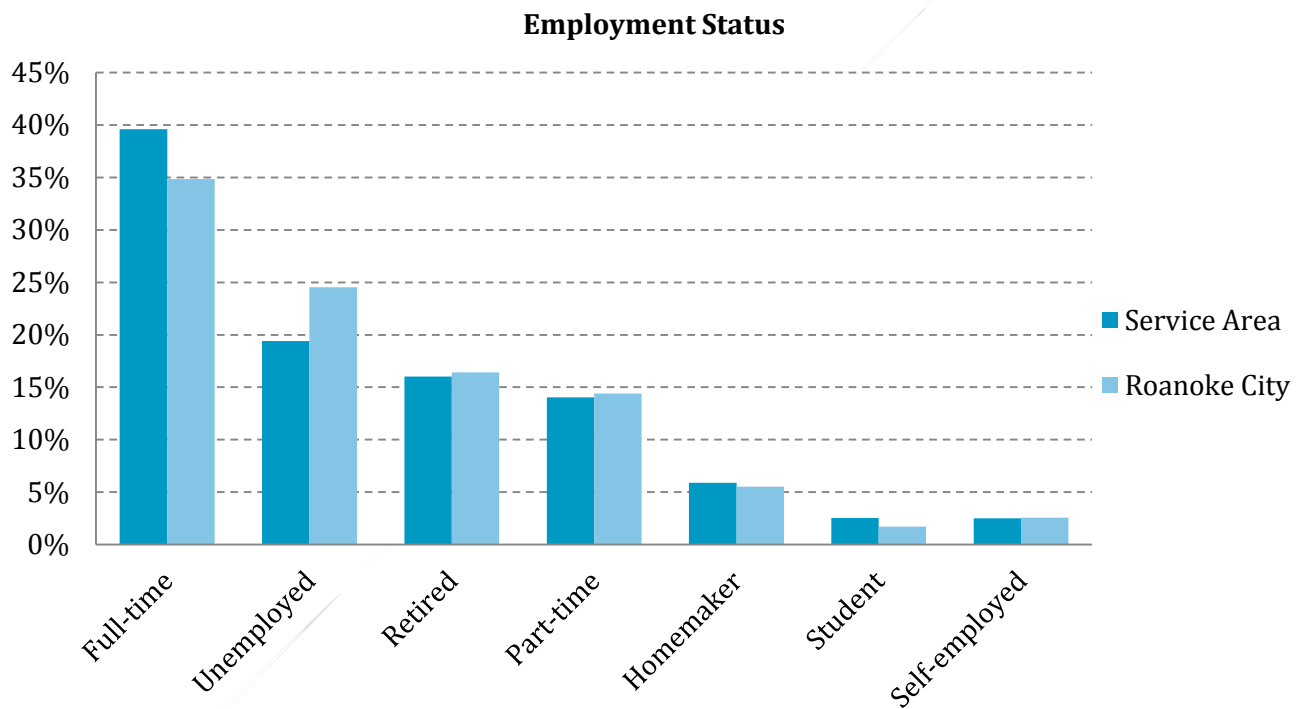
What is your yearly household income?

	Service Area		Roanoke City	
	#	%	#	%
\$0 – \$10,000	469	24.7%	342	33.5%
\$10,001 – \$20,000	356	18.7%	233	22.8%
\$20,001 – \$30,000	227	11.9%	123	12.0%
\$30,001 – \$40,000	151	7.9%	76	7.4%
\$40,001 – \$50,000	104	5.5%	47	4.6%
\$50,001 – \$60,000	90	4.7%	35	3.4%
\$60,001 – \$70,000	87	4.6%	28	2.7%
\$70,001 – \$100,000	195	10.3%	75	7.3%
\$100,001 and above	223	11.7%	62	6.1%
Answered	1,902		1,021	
Skipped	406		242	



What is your current employment status?

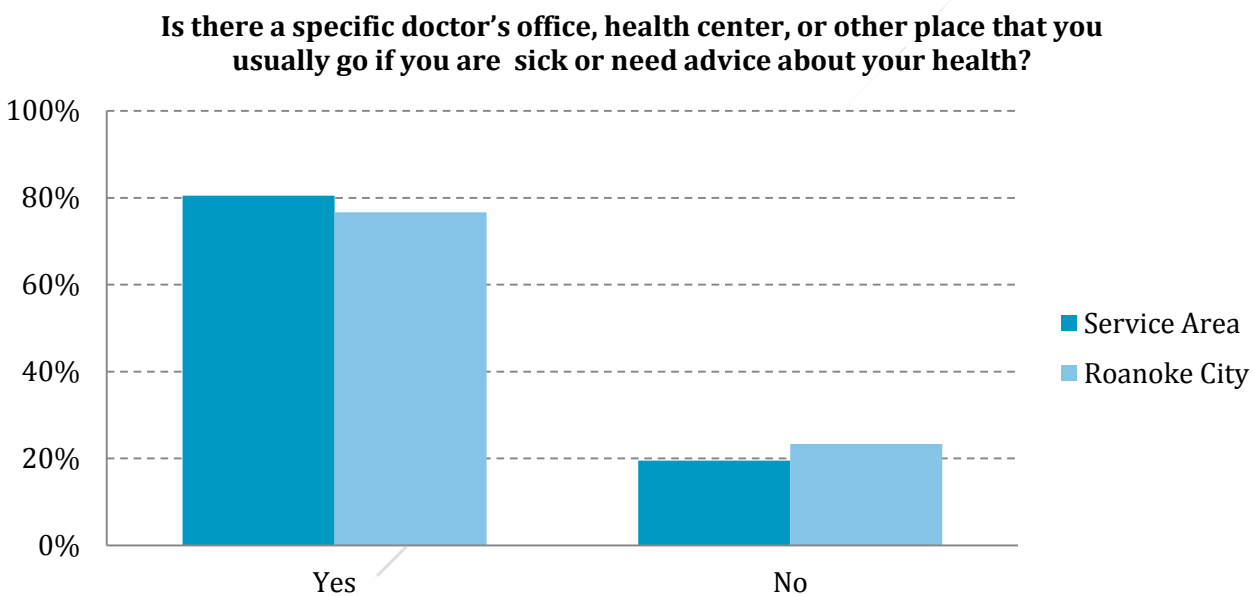
	Service Area		Roanoke City	
	#	%	#	%
Full-time	779	39.6%	365	34.8%
Unemployed	382	19.4%	257	24.5%
Part-time	315	16.0%	172	16.4%
Retired	276	14.0%	151	14.4%
Homemaker	116	5.9%	58	5.5%
Student	50	2.5%	18	1.7%
Self-employed	49	2.5%	27	2.6%
Answered	1,967		1,048	
Skipped	341		215	



Community Health Survey Responses

1. Is there a specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health?

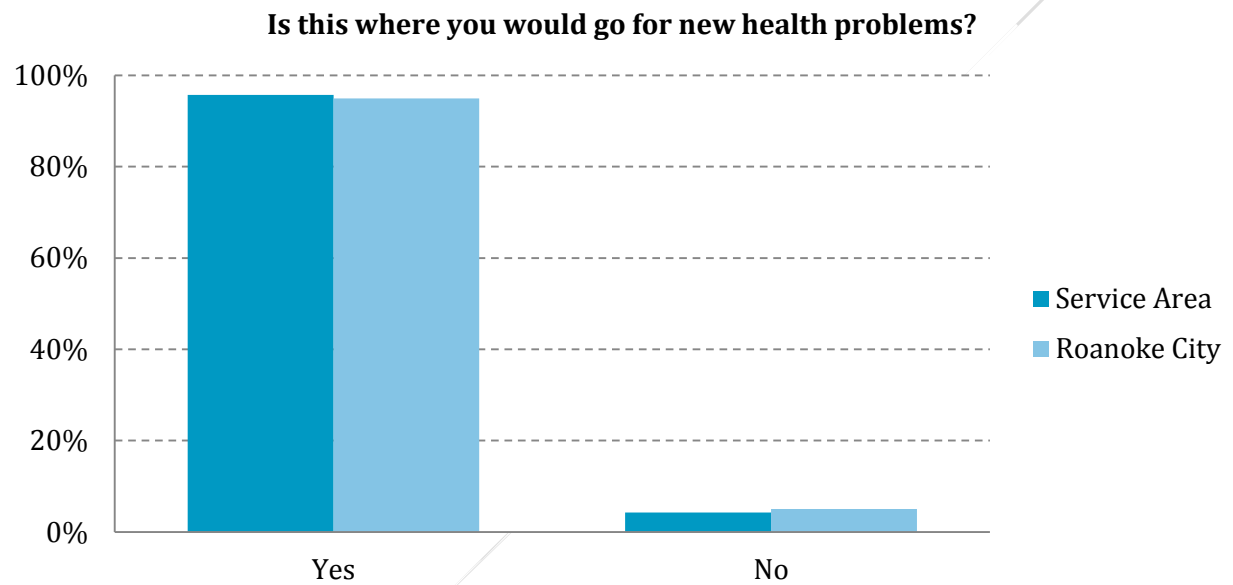
	Service Area		Roanoke City	
	#	%	#	%
Yes	1,785	80.5%	930	76.7%
No	433	19.5%	283	23.3%
Answered	2,218		1,213	
Skipped	90		50	



When thinking about the specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health:

Is this where you would go for new health problems?

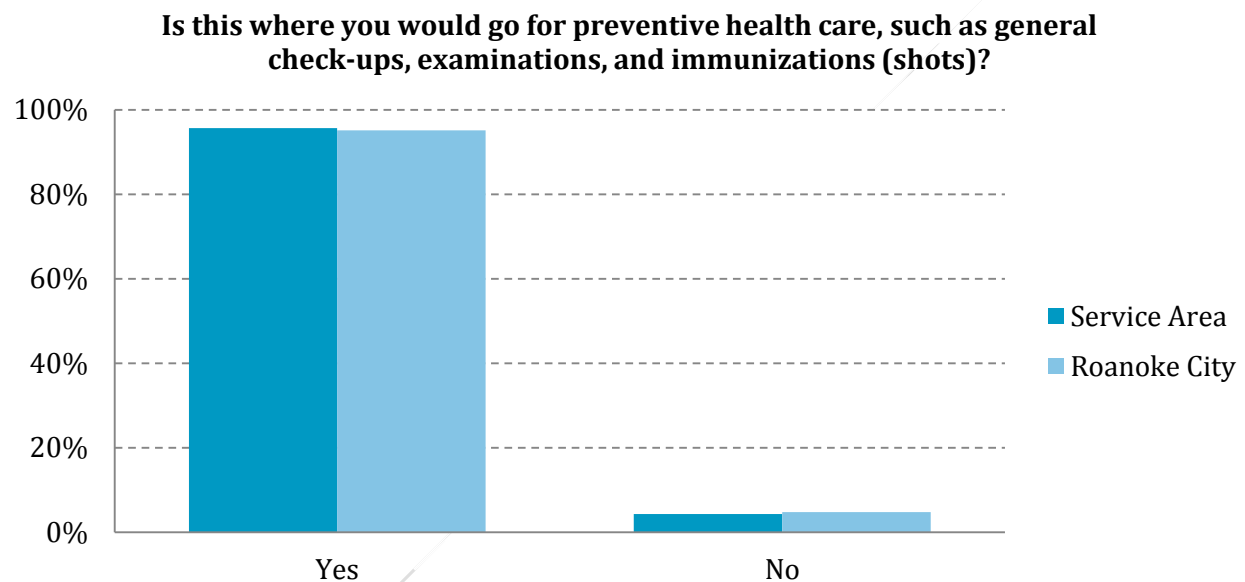
	Service Area		Roanoke City	
	#	%	#	%
Yes	1,554	95.7%	790	95.0%
No	69	4.3%	42	5.0%
Answered	1,623		832	
Skipped	685		431	



When thinking about the specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health:

Is this where you would go for preventive health care, such as general check-ups, examinations, and immunizations (shots)?

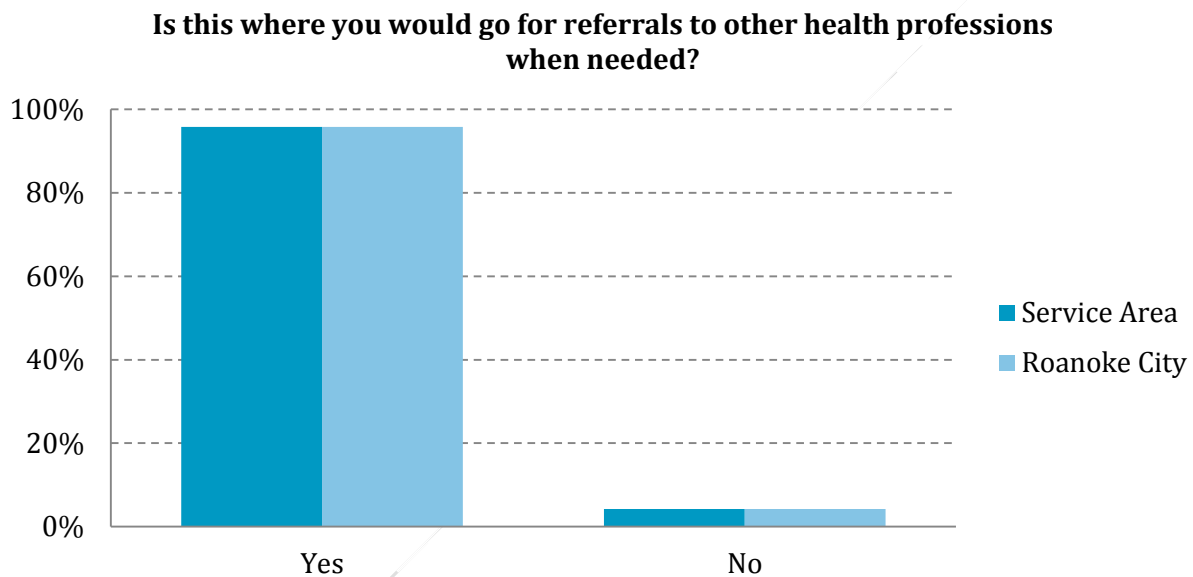
	Service Area		Roanoke City	
	#	%	#	%
Yes	1,554	95.7%	793	95.2%
No	70	4.3%	40	4.8%
Answered	1,624		833	
Skipped	684		430	



When thinking about the specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health:

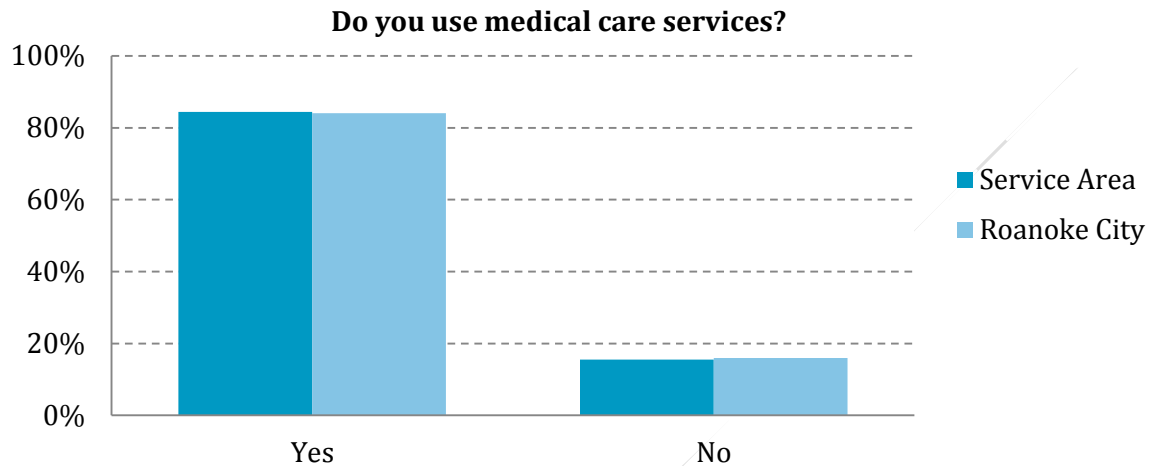
Is this where you would go for referrals to other health professions when needed?

	Service Area		Roanoke City	
	#	%	#	%
Yes	1,495	95.8%	750	95.8%
No	66	4.2%	33	4.2%
Answered	1,561		783	
Skipped	747		480	



2. Do you use medical care services?

	Service Area		Roanoke City	
	#	%	#	%
Yes	1,844	84.5%	993	84.1%
No	339	15.5%	188	15.9%
Answered	2,183		1,181	
Skipped	125		82	

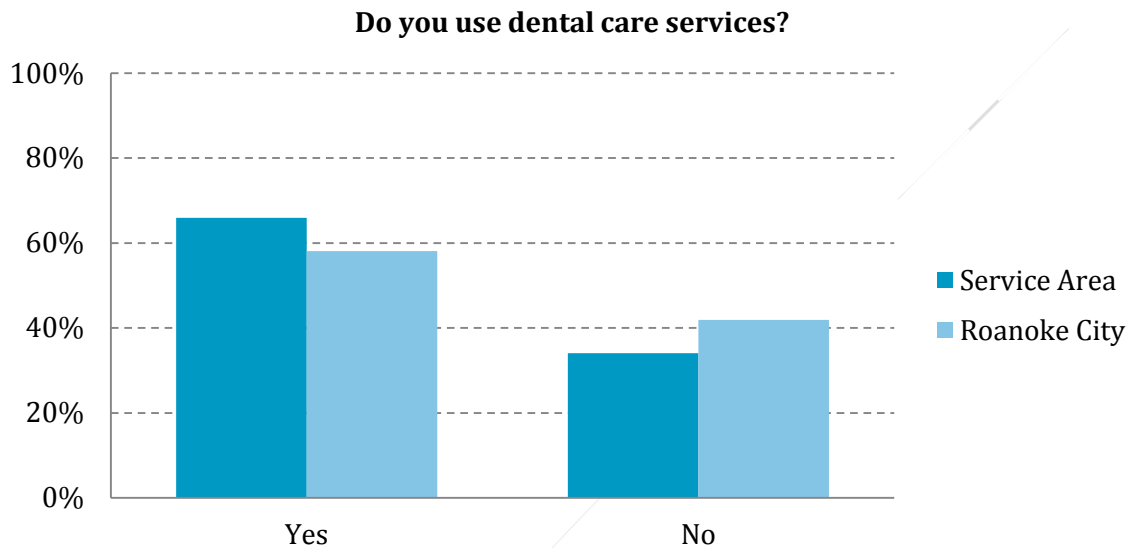


Where do you go for medical care? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Doctor's Office	949	50.4%	481	47.2%
Emergency Room	450	23.9%	274	26.9%
Urgent Care / Walk in Clinic	447	23.7%	212	20.8%
Carilion Clinic Family Medicine – Roanoke/Salem	402	21.3%	223	21.9%
LewisGale Medical Center	341	18.1%	167	16.4%
Carilion Clinic Family Medicine - Other Sites	230	12.2%	87	8.5%
Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Mental Health America, Botetourt Christian Free Clinic)	176	9.3%	124	12.2%
Carilion Clinic Community Care	154	8.2%	108	10.6%
New Horizons Healthcare	151	8.0%	114	11.2%
Carilion Clinic Family Medicine – Southeast	122	6.5%	97	9.5%
Health Department	77	4.1%	37	3.6%
Salem VA Medical Center	41	2.2%	26	2.5%
Pharmacy Clinic	38	2.0%	18	1.8%
Virginia Premier Medical Home	35	1.9%	30	2.9%
Planned Parenthood	22	1.2%	16	1.6%
Craig County Community Health Center	19	1.0%	3	0.3%
Other	99	5.3%	47	4.6%
	Answered	1,884	1,020	
	Skipped	424	243	

3. Do you use dental care services?

	Service Area		Roanoke City	
	#	%	#	%
Yes	1,462	65.9%	701	58.1%
No	756	34.1%	506	41.9%
Answered	2,218		1,207	
Skipped	90		56	

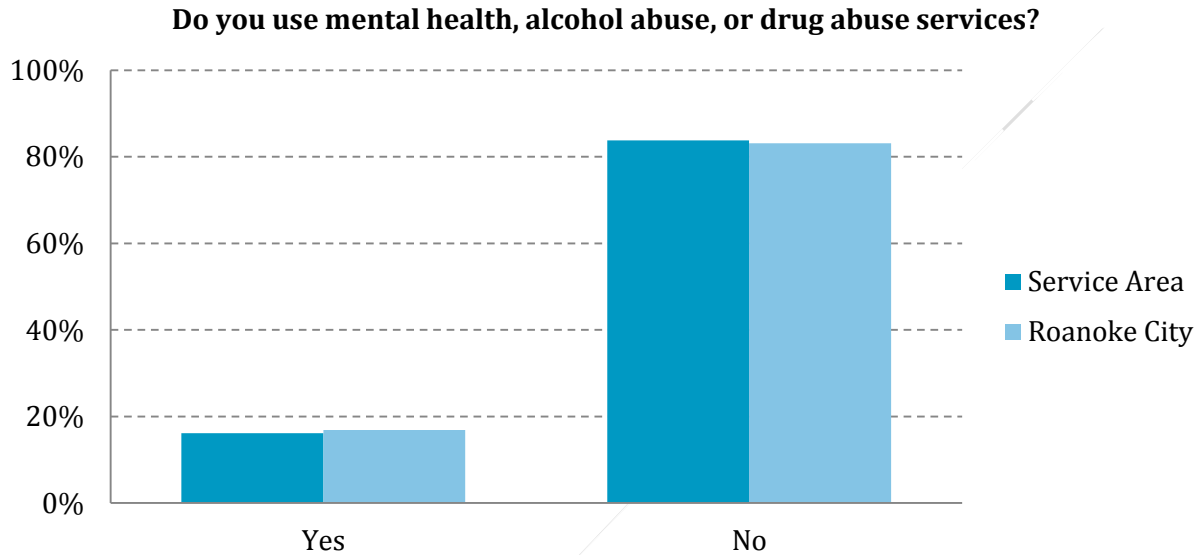


Where do you go for dental care? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Dentist's office	1,089	74.0%	446	62.9%
Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Botetourt Christian Free Clinic)	137	9.3%	93	13.1%
New Horizons Healthcare	89	6.1%	62	8.7%
Kool Smiles	86	5.8%	53	7.5%
Carilion Dental Clinic	46	3.1%	34	4.8%
Commonwealth Dental	33	2.2%	29	4.1%
VWCC Dental Hygiene Program	23	1.6%	11	1.6%
Emergency Room	12	0.8%	10	1.4%
Salem VA Medical Center	12	0.8%	7	1.0%
Urgent Care / Walk in Clinic	10	0.7%	7	1.0%
Craig County Community Health Center	8	0.5%	3	0.4%
Mission of Mercy Project	7	0.5%	5	0.7%
Other	38	2.6%	22	3.1%
Answered	1,471		709	
Skipped	837		554	

4. Do you use mental health, alcohol abuse, or drug abuse services?

	Service Area		Roanoke City	
	#	%	#	%
Yes	358	16.2%	204	16.9%
No	1,856	83.8%	1,004	83.1%
Answered	2,214		1,208	
Skipped	94		55	



Where do you go for mental health, alcohol abuse, or drug abuse services? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Doctor/Counselor's Office	167	45.1%	78	37.0%
Blue Ridge Behavioral Healthcare	92	24.9%	64	30.3%
New Horizons Healthcare	36	9.7%	31	14.7%
Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Botetourt Christian Free Clinic)	35	9.5%	27	12.8%
Emergency Room	21	5.7%	14	6.6%
Mental Health America of Roanoke Valley	21	5.7%	12	5.7%
Connect	13	3.5%	8	3.8%
Family Service of Roanoke Valley	13	3.5%	9	4.3%
Salem VA Medical Center	13	3.5%	9	4.3%
Respond	7	1.9%	5	2.4%
Urgent Care / Walk in Clinic	4	1.1%	3	1.4%
Catawba Hospital	0	0.0%	0	0.0%
Other	58	15.7%	34	16.1%
Answered	370		211	
Skipped	1,938		1,052	

5. What do you think are the five most important issues that affect health in our community? (Please check five)

	Service Area		Roanoke City	
	#	%	#	%
Alcohol and illegal drug use	927	42.2%	484	40.0%
Overweight / obesity	766	34.8%	353	29.1%
Mental health problems	688	31.3%	357	29.5%
Access to healthy foods	651	29.6%	363	30.0%
Lack of exercise	494	22.5%	218	18.0%
Cancers	476	21.6%	238	19.7%
Stress	463	21.1%	254	21.0%
Poor eating habits	459	20.9%	239	19.7%
Diabetes	447	20.3%	267	22.0%
Access to affordable housing	439	20.0%	266	22.0%
Heart disease and stroke	377	17.1%	206	17.0%
Prescription drug abuse	376	17.1%	175	14.5%
Cell phone use / texting and driving / distracted driving	340	15.5%	174	14.4%
High blood pressure	336	15.3%	214	17.7%
Aging problems	324	14.7%	145	12.0%
Child abuse / neglect	301	13.7%	165	13.6%
Tobacco use / smoking	300	13.6%	148	12.2%
Dental problems	285	13.0%	169	14.0%
Domestic violence	273	12.4%	182	15.0%
Bullying	224	10.2%	121	10.0%
Environmental health (e.g. water quality, air quality, pesticides, etc.)	217	9.9%	114	9.4%
Neighborhood safety	143	6.5%	101	8.3%
Suicide	132	6.0%	73	6.0%
Not using seat belts / child safety seats / helmets	118	5.4%	69	5.7%
Not getting "shots" to prevent disease	107	4.9%	50	4.1%
Accidents in the home (ex. falls, burns, cuts)	104	4.7%	68	5.6%
HIV / AIDS	102	4.6%	78	6.4%
Gang activity	98	4.5%	69	5.7%
Unsafe sex	77	3.5%	50	4.1%
Teenage pregnancy	70	3.2%	44	3.6%
Homicide	66	3.0%	51	4.2%
Sexual assault	61	2.8%	43	3.6%
Lung disease	43	2.0%	25	2.1%
Infant death	19	0.9%	11	0.9%
Other	136	6.2%	93	7.7%
Answered		2,199	1,211	
Skipped		109	52	

6. Which health care services are hard to get in our community? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Adult dental care	849	42.5%	527	48.9%
Mental health / counseling	520	26.1%	245	22.7%
Substance abuse services –drug and alcohol	371	18.6%	177	16.4%
Alternative therapy (ex. herbal, acupuncture, massage)	324	16.2%	154	14.3%
Dermatology	280	14.0%	142	13.2%
Medication / medical supplies	272	13.6%	176	16.3%
Eldercare	267	13.4%	132	12.3%
Programs to stop using tobacco products	262	13.1%	147	13.6%
None	251	12.6%	122	11.3%
Vision care	245	12.3%	150	13.9%
Family doctor	233	11.7%	130	12.1%
Specialty care (ex. heart doctor)	230	11.5%	109	10.1%
Domestic violence services	206	10.3%	125	11.6%
Emergency room care	200	10.0%	118	11.0%
Urgent care / walk in clinic	186	9.3%	109	10.1%
Preventive care (ex. yearly check-ups)	164	8.2%	111	10.3%
Women’s health services	161	8.1%	98	9.1%
Child dental care	148	7.4%	81	7.5%
Cancer care	131	6.6%	71	6.6%
End of life / hospice / palliative care	110	5.5%	56	5.2%
Chiropractic care	107	5.4%	70	6.5%
Physical therapy	107	5.4%	59	5.5%
Family planning / birth control	98	4.9%	56	5.2%
Inpatient hospital	91	4.6%	54	5.0%
Lab work	85	4.3%	54	5.0%
X-rays / mammograms	80	4.0%	51	4.7%
Ambulance services	55	2.8%	27	2.5%
Immunizations	41	2.1%	34	3.2%
Other	128	6.4%	65	6.0%
Answered		1,996	1,077	
Skipped		312	186	

7. What do you feel prevents you from getting the healthcare you need? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Cost	893	45.2%	485	45.5%
I can get the healthcare I need	522	26.4%	243	22.8%
High co-pay	468	23.7%	255	23.9%
Long waits for appointments	415	21.0%	217	20.4%
No health Insurance	358	18.1%	229	21.5%
Lack of evening and weekend services	354	17.9%	178	16.7%
Don't know what types of services are available	213	10.8%	143	13.4%
No transportation	179	9.1%	141	13.2%
Can't find providers that accept my Medicaid insurance	175	8.9%	110	10.3%
Have no regular source of healthcare	142	7.2%	85	8.0%
Afraid to have check-ups	106	5.4%	63	5.9%
Can't find providers that accept my Medicare insurance	105	5.3%	68	6.4%
Location of offices	103	5.2%	60	5.6%
Don't trust doctors / clinics	100	5.1%	61	5.7%
Childcare	91	4.6%	54	5.1%
Don't like accepting government assistance	54	2.7%	35	3.3%
Language services	36	1.8%	22	2.1%
Other	107	5.4%	55	5.2%
Answered	1,974		1,065	
Skipped	334		198	

8. Please check one of the following for each statement:

	Service Area			Roanoke City		
	Yes	No	Not applicable	Yes	No	Not applicable
I have had an eye exam within the past 12 months.	55.0%	44.4%	0.6%	50.8%	48.4%	0.8%
I have had a mental health / substance abuse visit within the past 12 months.	17.9%	68.9%	13.2%	18.3%	70.8%	10.9%
I have had a dental exam within the past 12 months.	54.6%	44.9%	0.4%	45.6%	53.7%	0.7%
I have been to the emergency room in the past 12 months.	30.2%	67.7%	2.0%	36.0%	62.6%	1.4%
I have been to the emergency room for an injury in the past 12 months (e.g. motor vehicle crash, fall, poisoning, burn, cut, etc.).	10.1%	86.9%	3.0%	12.2%	85.4%	2.4%
I have been a victim of domestic violence or abuse in the past 12 months.	4.6%	91.3%	4.1%	5.4%	91.3%	3.4%
My doctor has told me that I have a long-term or chronic illness.	30.7%	67.0%	2.3%	30.5%	67.4%	2.1%
I take the medicine my doctor tells me to take to control my chronic illness.	38.9%	34.3%	26.8%	38.5%	37.6%	23.8%
I can afford medicine needed for my health conditions.	52.2%	32.4%	15.4%	46.8%	38.7%	14.5%
I am over 21 years of age and have had a Pap smear in the past three years (if male or under 21, please check not applicable).	54.1%	23.5%	22.3%	50.4%	28.8%	20.8%
I am over 40 years of age and have had a mammogram in the past 12 months (if male or under 40, please check not applicable).	31.2%	28.6%	40.2%	30.7%	31.8%	37.5%
I am over 50 years of age and have had a colonoscopy in the past 10 years (if under 50, please check not applicable).	30.2%	27.4%	42.4%	27.6%	32.5%	39.8%
Does your neighborhood support physical activity? (e.g. parks, sidewalks, bike lanes, etc.)	62.7%	35.7%	1.7%	66.8%	32.0%	1.2%
Does your neighborhood support healthy eating? (e.g. community gardens, farmers' markets, etc.)	51.5%	46.9%	1.7%	49.2%	49.4%	1.4%
In the area that you live, is it easy to get affordable fresh fruits and vegetables?	69.9%	29.8%	0.3%	65.5%	34.0%	0.4%
Have there been times in the past 12 months when you did not have enough money to buy the food that you or your family needed?	37.5%	60.9%	1.6%	42.9%	55.2%	1.9%
Have there been times in the past 12 months when you did not have enough money to pay your rent or mortgage?	31.0%	64.8%	4.2%	34.0%	61.7%	4.3%
Do you feel safe in your neighborhood?	90.3%	9.4%	0.3%	85.4%	14.2%	0.4%
Answered	2,115			1,159		
Skipped	193			104		

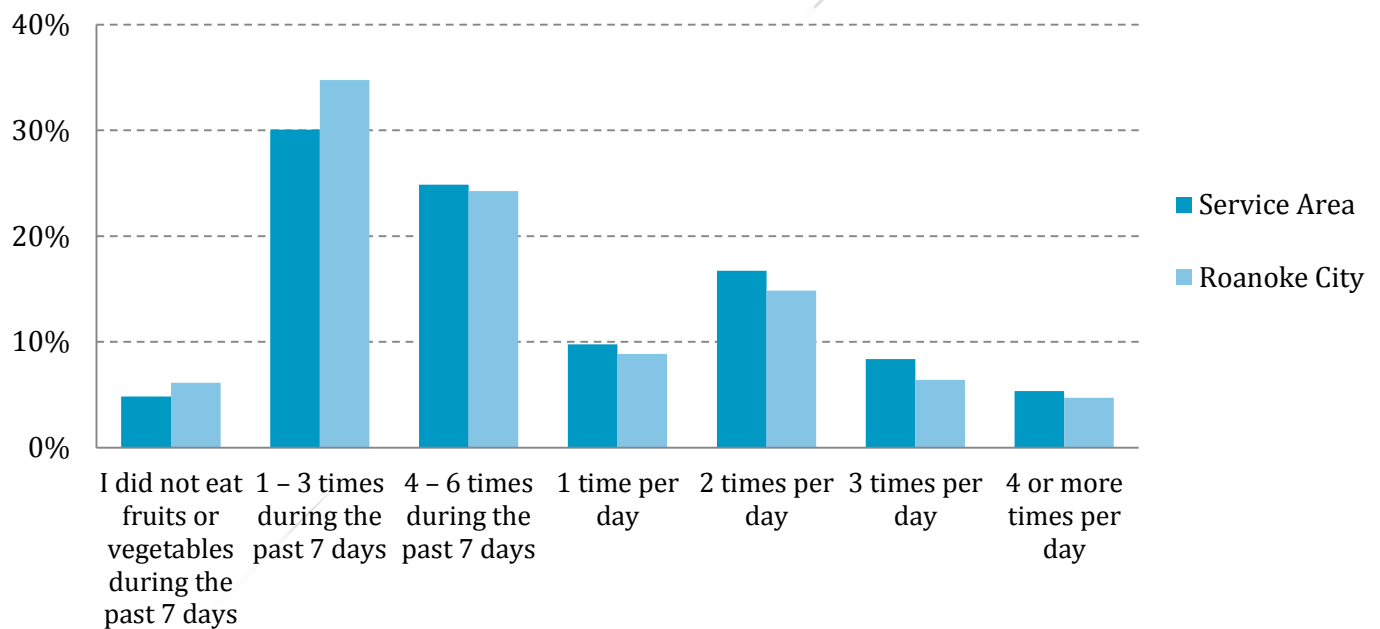
9. Where do you get the food that you eat at home? (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Grocery store	1,954	93.9%	1,046	91.9%
Take-out / fast food / restaurant	652	31.3%	333	29.3%
Farmers' Market	498	23.9%	224	19.7%
Dollar store	432	20.8%	269	23.6%
Food bank / food kitchen / food pantry	399	19.2%	276	24.3%
Home Garden	283	13.6%	104	9.1%
Corner store / convenience store / gas station	204	9.8%	135	11.9%
I regularly receive food from family, friends, neighbors, or my church	121	5.8%	83	7.3%
Back-pack or summer food programs	64	3.1%	43	3.8%
Community Garden	41	2.0%	27	2.4%
I do not eat at home	14	0.7%	9	0.8%
Meals on Wheels	10	0.5%	6	0.5%
Other	69	3.3%	43	3.8%
Answered		2,081	1,138	
Skipped		227	125	

10. During the past 7 days, how many times did you eat fruit or vegetables (fresh or frozen)? Do not count fruit or vegetable juice. (Please check one)

	Service Area		Roanoke City	
	#	%	#	%
I did not eat fruits or vegetables during the past 7 days	99	4.9%	68	6.2%
1 – 3 times during the past 7 days	613	30.1%	384	34.8%
4 – 6 times during the past 7 days	507	24.9%	268	24.3%
1 time per day	199	9.8%	98	8.9%
2 times per day	341	16.7%	164	14.8%
3 times per day	171	8.4%	71	6.4%
4 or more times per day	109	5.3%	52	4.7%
Answered	2,039		1,105	
Skipped	269		158	

During the past 7 days, how many times did you eat fruit or vegetables (fresh or frozen)?

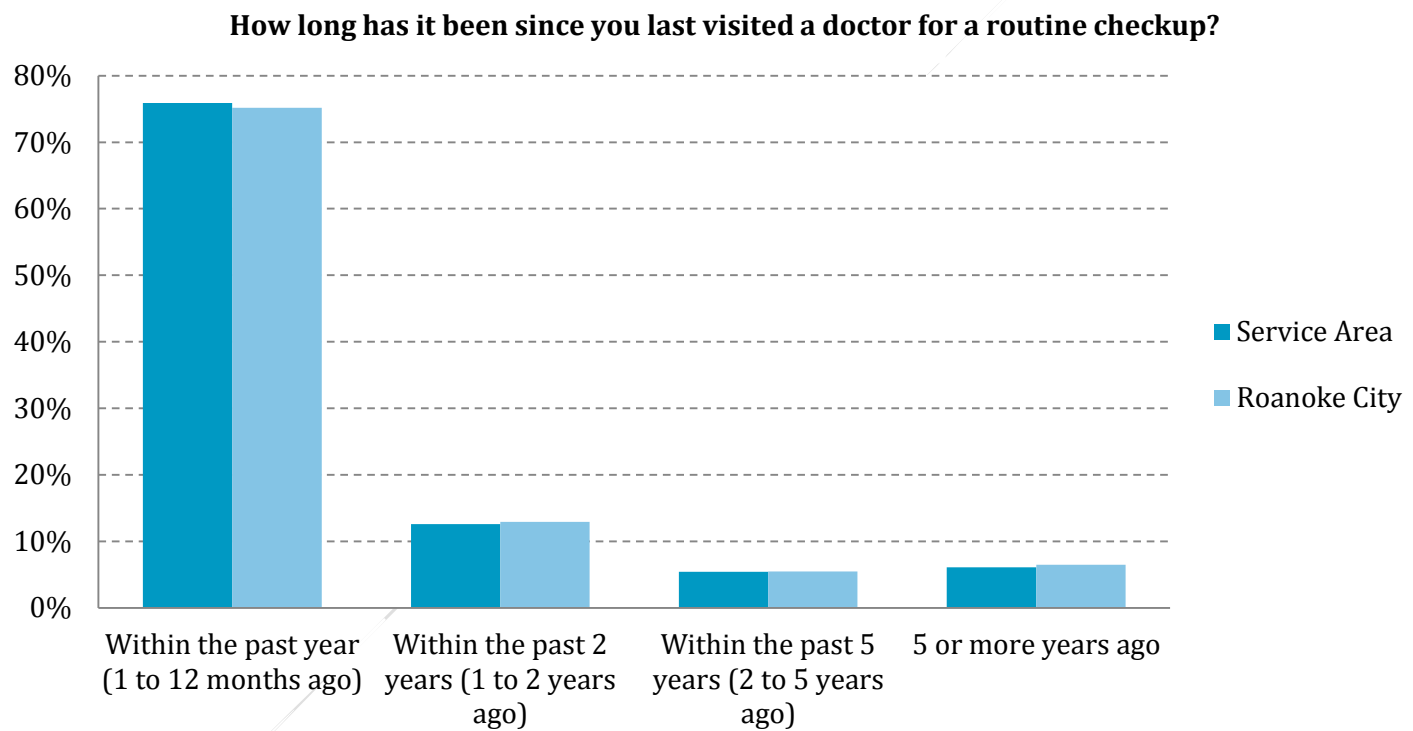


11. Have you been told by a doctor that you have... (Check all that apply)

	Service Area		Roanoke City	
	#	%	#	%
Depression or anxiety	684	35.6%	373	35.8%
High blood pressure	669	34.8%	421	40.4%
Obesity / overweight	514	26.7%	283	27.1%
High cholesterol	362	18.8%	196	18.8%
I have no health problems	337	17.5%	162	15.5%
High blood sugar or diabetes	276	14.3%	181	17.4%
Asthma	273	14.2%	183	17.5%
Mental health problems	254	13.2%	171	16.4%
Heart disease	133	6.9%	75	7.2%
COPD / chronic bronchitis / Emphysema	106	5.5%	66	6.3%
Cancer	104	5.4%	49	4.7%
Drug or alcohol problems	60	3.1%	42	4.0%
Stroke / Cerebrovascular disease	37	1.9%	23	2.2%
HIV / AIDS	10	0.5%	7	0.7%
Cerebral palsy	9	0.5%	7	0.7%
Other	249	12.9%	110	10.5%
Answered	1,924		1,043	
Skipped	384		220	

12. How long has it been since you last visited a doctor for a routine checkup? (Please check one)

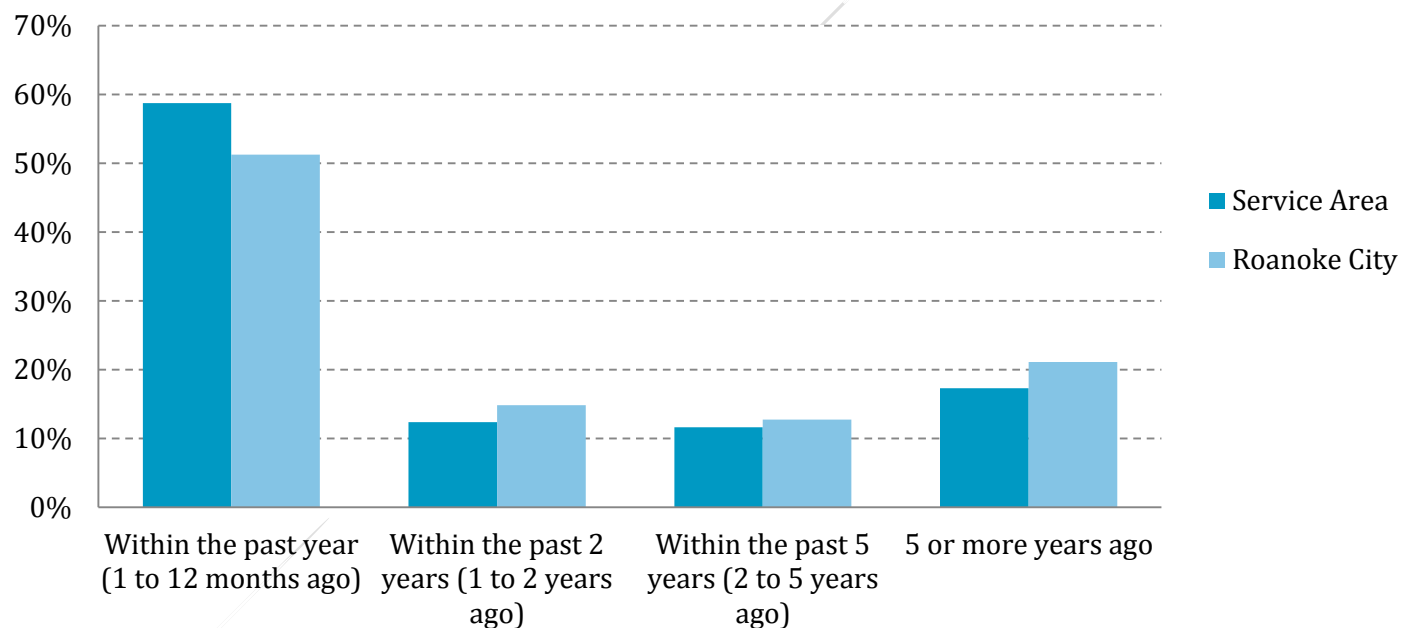
	Service Area		Roanoke City	
	#	%	#	%
Within the past year (1 to 12 months ago)	1,544	75.9%	826	75.2%
Within the past 2 years (1 to 2 years ago)	256	12.6%	142	12.9%
Within the past 5 years (2 to 5 years ago)	110	5.4%	60	5.5%
5 or more years ago	124	6.1%	71	6.5%
Answered	2,034		1,099	
Skipped	274		164	



13. How long has it been since you last visited a dentist or a dental clinic for any reason? Include visits to dental specialists, such as orthodontists. (Please check one)

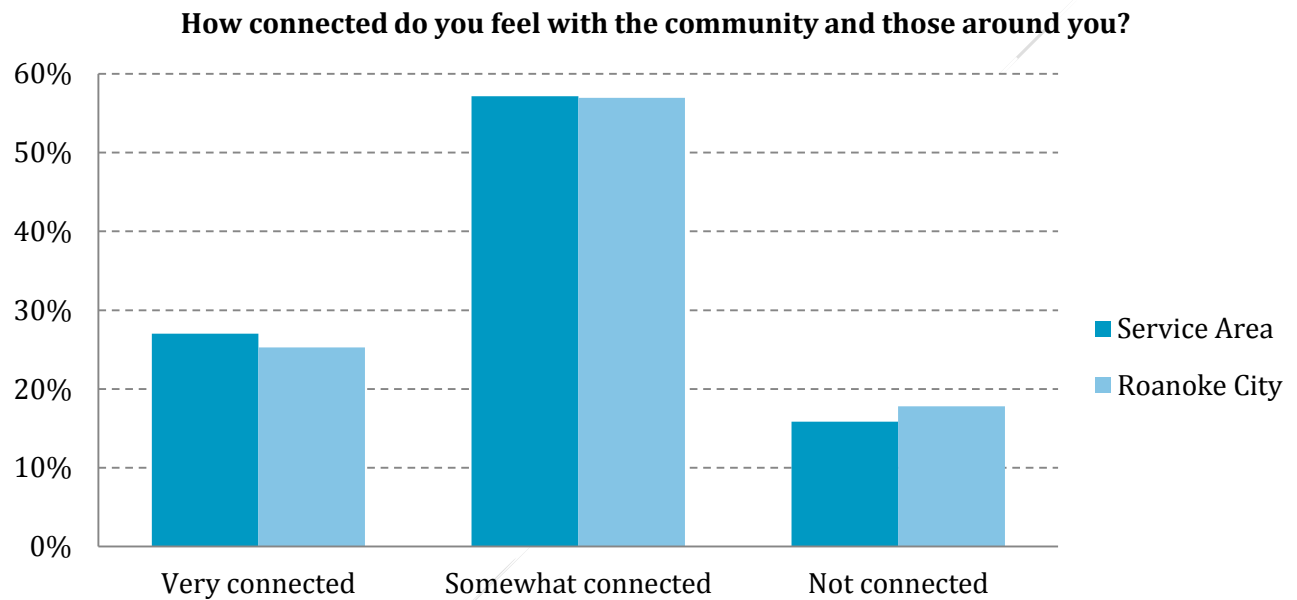
	Service Area		Roanoke City	
	#	%	#	%
Within the past year (1 to 12 months ago)	1,189	58.7%	563	51.3%
Within the past 2 years (1 to 2 years ago)	250	12.4%	163	14.8%
Within the past 5 years (2 to 5 years ago)	235	11.6%	140	12.8%
5 or more years ago	350	17.3%	232	21.1%
Answered	2,024		1,098	
Skipped	284		165	

How long has it been since you last visited a dentist or a dental clinic for any reason?



14. How connected do you feel with the community and those around you?

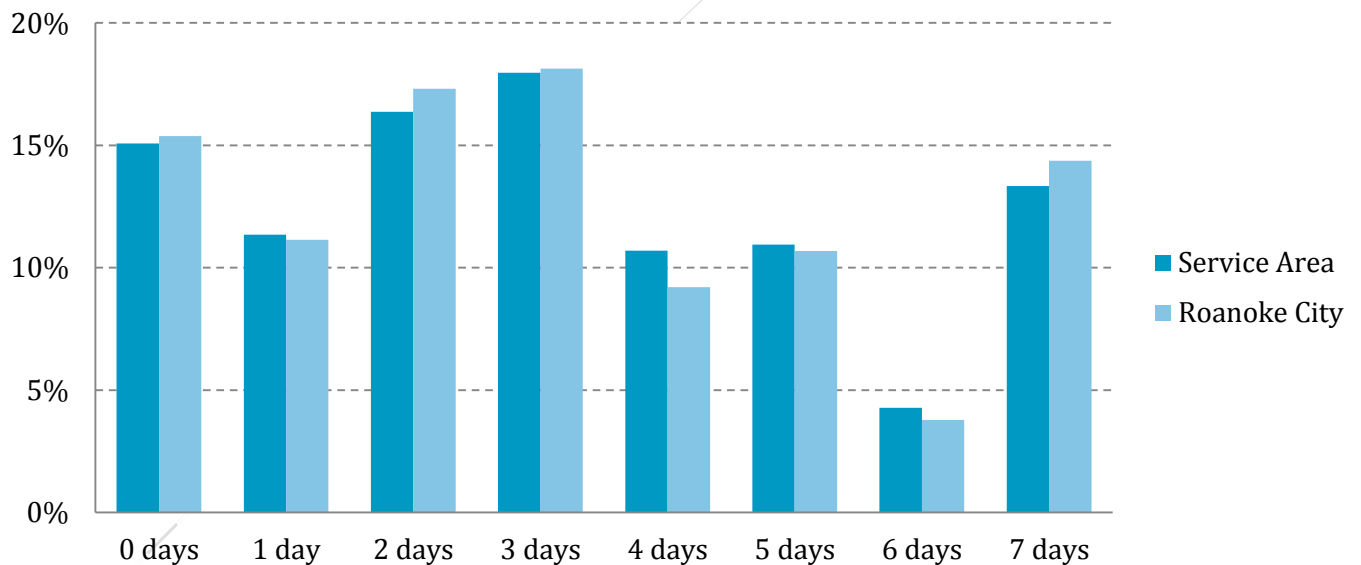
	Service Area		Roanoke City	
	#	%	#	%
Very connected	488	27.0%	233	25.3%
Somewhat connected	1,032	57.1%	525	56.9%
Not connected	286	15.8%	164	17.8%
Answered	1,806		922	
Skipped	502		341	



15. In the past 7 days, on how many days were you physically active for a total of at least 30 minutes? (Add up all the time you spent in any kind of physical activity that increased your heart rate and made you breathe hard for some of the time.)

	Service Area		Roanoke City	
	#	%	#	%
0 days	303	15.1%	167	15.4%
1 day	228	11.3%	121	11.1%
2 days	329	16.4%	188	17.3%
3 days	361	18.0%	197	18.1%
4 days	215	10.7%	100	9.2%
5 days	220	10.9%	116	10.7%
6 days	86	4.3%	41	3.8%
7 days	268	13.3%	156	14.4%
Answered	2,010		1,086	
Skipped	298		177	

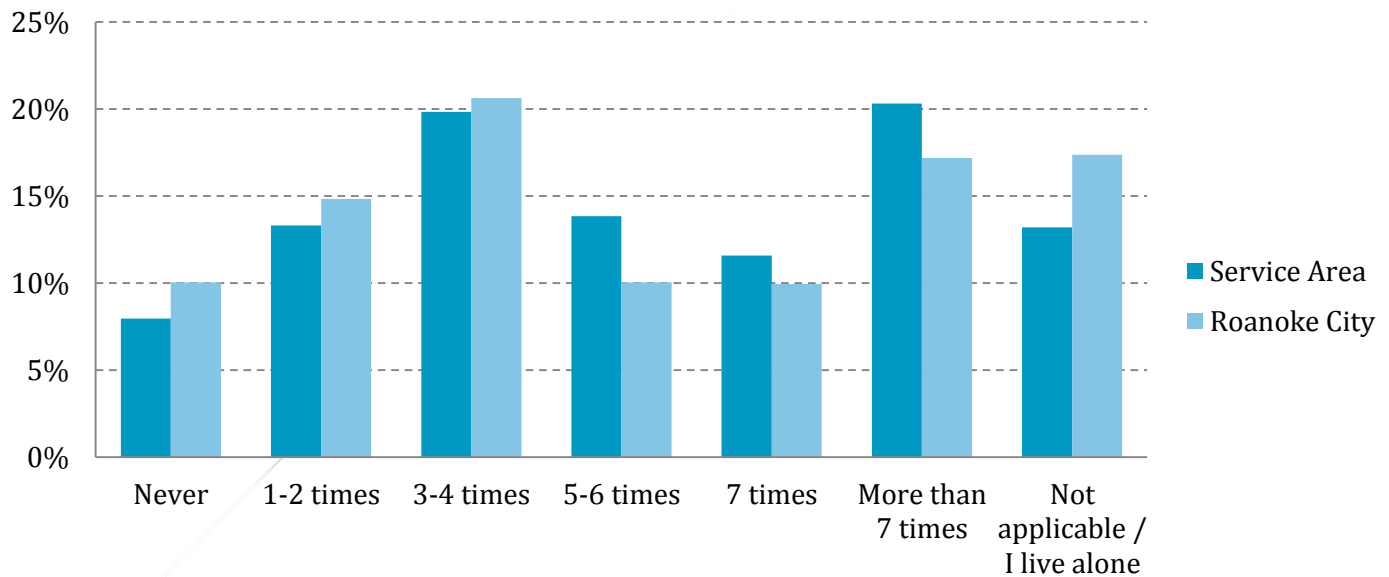
In the past 7 days, on how many days were you physically active for a total of at least 30 minutes?



16. During the past 7 days, how many times did all, or most, of your family living in your house eat a meal together?

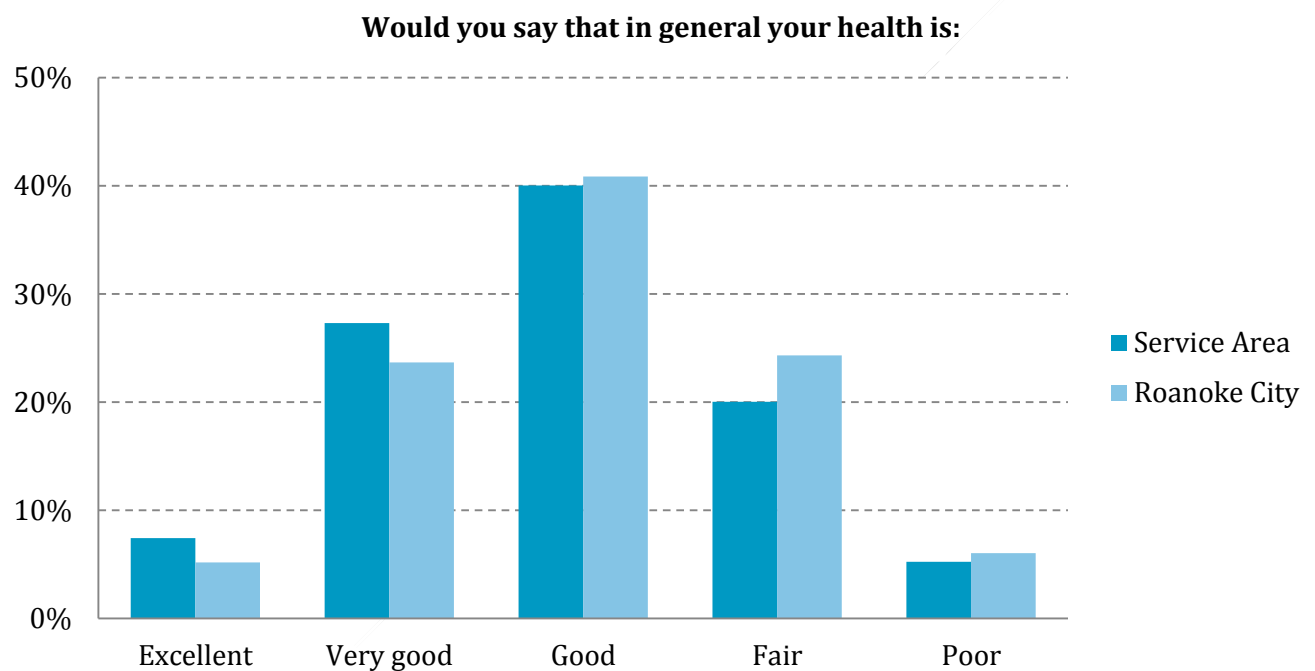
	Service Area		Roanoke City	
	#	%	#	%
Never	162	7.9%	111	10.0%
1-2 times	271	13.3%	164	14.8%
3-4 times	404	19.8%	228	20.6%
5-6 times	282	13.8%	111	10.0%
7 times	236	11.6%	110	9.9%
More than 7 times	414	20.3%	190	17.2%
Not applicable / I live alone	269	13.2%	192	17.4%
Answered	2,038		1,106	
Skipped	270		157	

During the past 7 days, how many times did all, or most, of your family living in your house eat a meal together?



17. Would you say that in general your health is: (Please check one)

	Service Area		Roanoke City	
	#	%	#	%
Excellent	135	7.4%	48	5.2%
Very good	496	27.3%	220	23.7%
Good	727	40.0%	380	40.9%
Fair	364	20.0%	226	24.3%
Poor	95	5.2%	56	6.0%
Answered	1,817		930	
Skipped	491		333	



18. Thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?*

	Service Area	Roanoke City
Median:	2.0	2.0
Answered	1,678	890
Skipped	630	373

*Median was used due to the skewed distribution of the responses.
These median data are not directly comparable to the averages reported in the 2015 report.

19. Thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?*

	Service Area	Roanoke City
Median:	2.0	2.0
Answered	1,672	873
Skipped	636	390

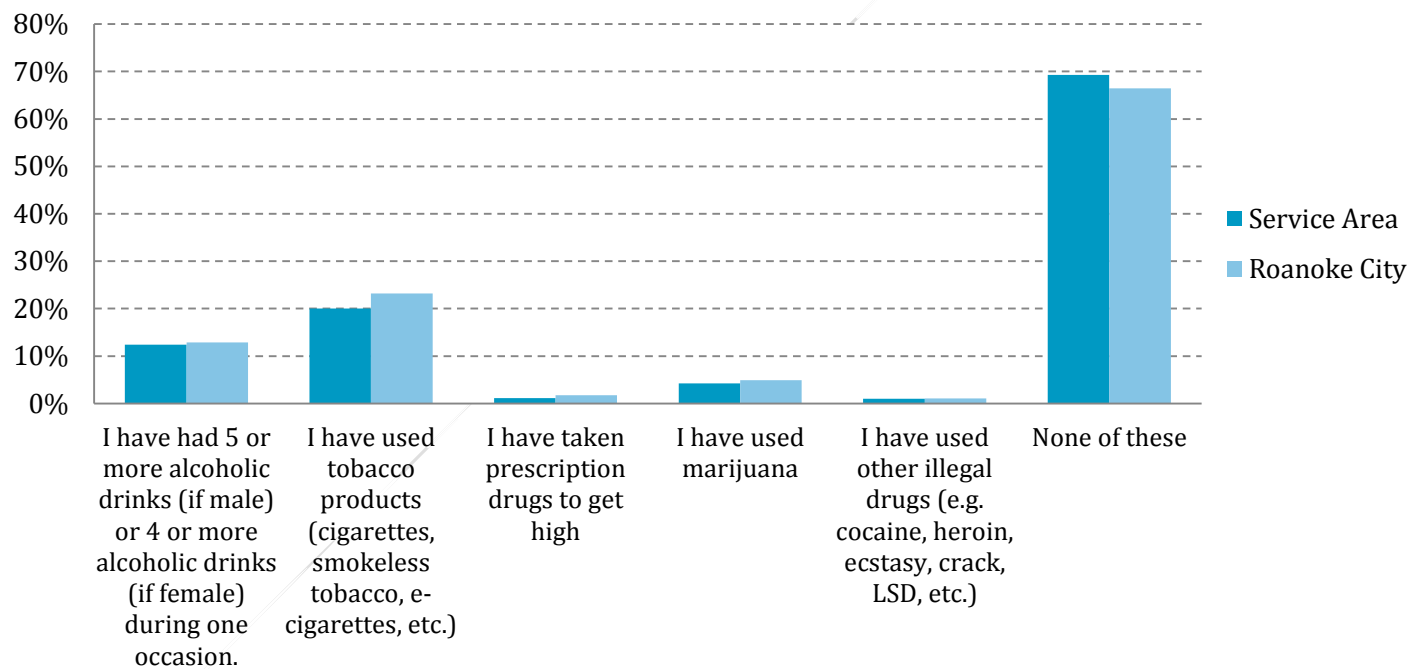
*Median was used due to the skewed distribution of the responses.
These median data are not directly comparable to the averages reported in the 2015 report.

20. During the past 30 days: (Check all that apply)*

	Service Area		Roanoke City	
	#	%	#	%
I have had 5 or more alcoholic drinks (if male) or 4 or more alcoholic drinks (if female) during one occasion.	242	12.4%	134	12.8%
I have used tobacco products (cigarettes, smokeless tobacco, e-cigarettes, etc.)	391	20.0%	242	23.2%
I have taken prescription drugs to get high	22	1.1%	18	1.7%
I have used marijuana	83	4.3%	51	4.9%
I have used other illegal drugs (e.g. cocaine, heroin, ecstasy, crack, LSD, etc.)	19	1.0%	11	1.1%
None of these	1,352	69.3%	693	66.4%
Answered	1,952		1,043	
Skipped	356		220	

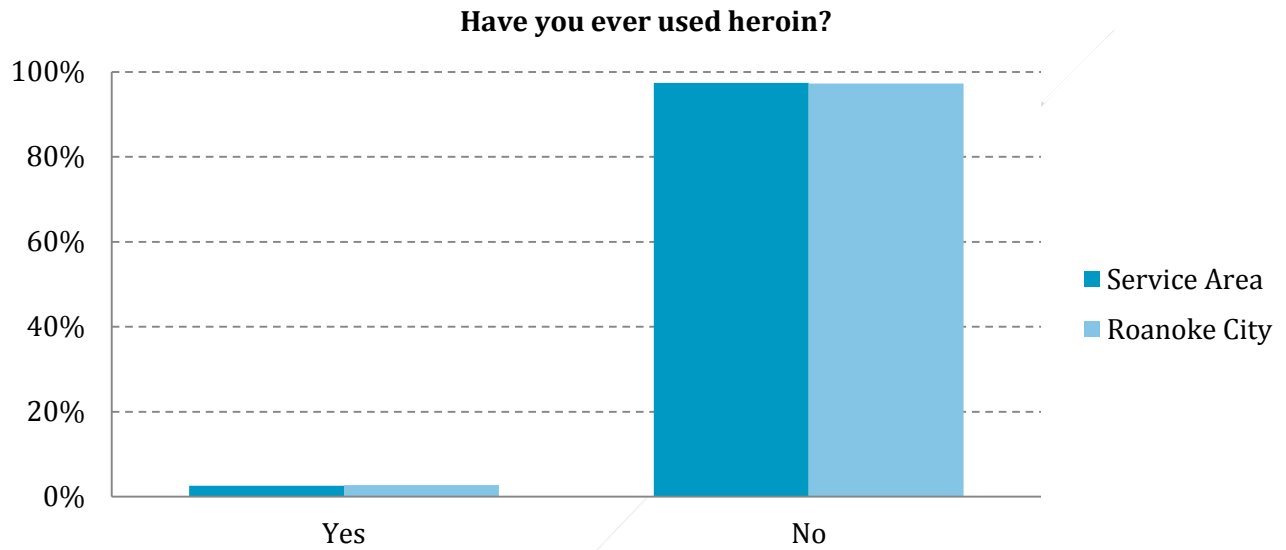
*These 2018 data are not comparable to 2015 data, as this question was reformatted for data quality and accuracy

During the past 30 days:



21. Have you ever used heroin?

	Service Area		Roanoke City	
	#	%	#	%
Yes	52	2.6%	29	2.7%
No	1,942	97.4%	1,041	97.3%
Answered	1,994		1,070	
Skipped	314		193	



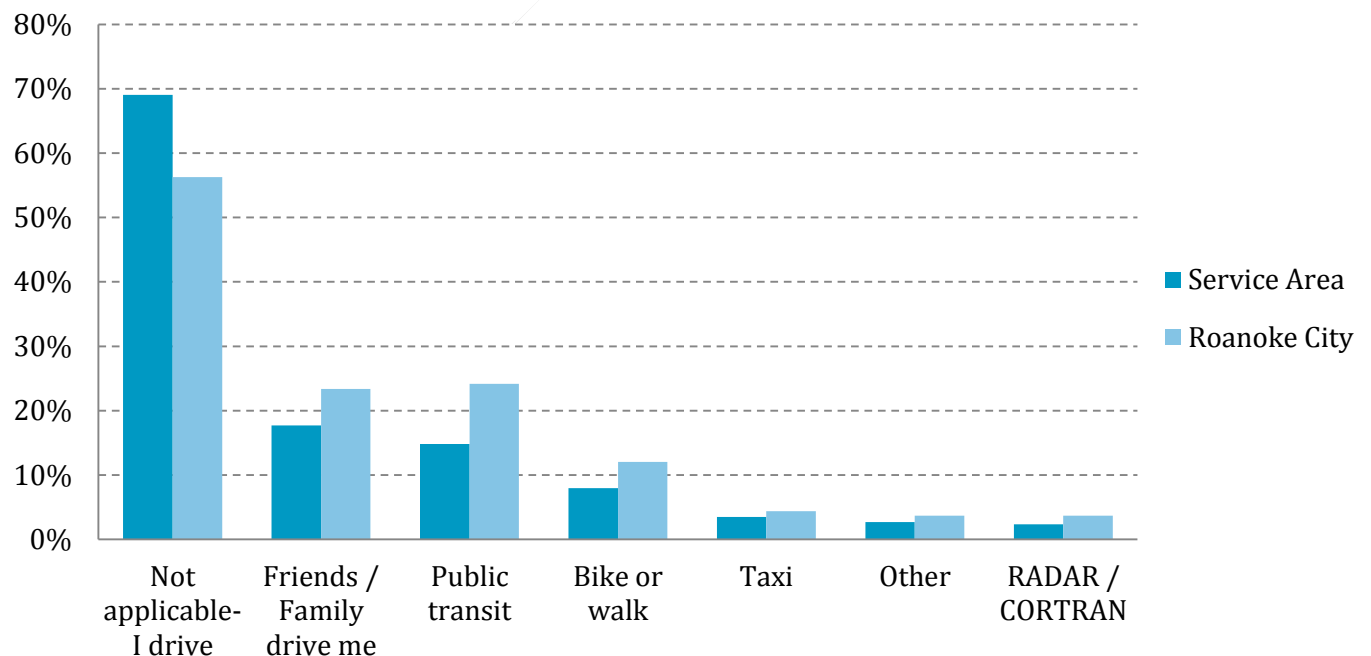
22. How many vehicles are owned, leased, or available for regular use by you and those who currently live in your household? Please be sure to include motorcycles, mopeds and RVs

	Service Area	Roanoke City
Average:	1.7	1.4
Answered	1,825	954
Skipped	483	309

23. If you do not drive, what mode of transportation do you typically use?

	Service Area		Roanoke City	
	#	%	#	%
Not applicable- I drive	1,097	69.1%	487	56.3%
Friends / Family drive me	126	7.9%	104	12.0%
Public transit (i.e. bus, shuttle, similar)	281	17.7%	202	23.4%
Bike or walk	235	14.8%	209	24.2%
Taxi	37	2.3%	32	3.7%
Other	55	3.5%	38	4.4%
RADAR / CORTAN	43	2.7%	32	3.7%
Answered	1,588		865	
Skipped	720		398	

If you do not drive, what mode of transportation do you typically use?



Secondary Data

Secondary data were collected to obtain a more comprehensive description of our community that goes beyond the scope of the primary data collected throughout the Community Health Assessment process. Relevant information from existing data sources validates the trends seen in primary data collection, but also provides more detailed descriptive information on the characteristics of our community.

These population-level measures come from secondary sources such as:

- The American Community Survey, U.S. Census Bureau
- Behavioral Risk Factor Surveillance System, Center for Disease Control
- County Health Rankings, Robert Wood Johnson Foundation
- Virginia Department of Health
- Virginia Department of Education

The demographic data presented first define the Roanoke Valley by population counts, age, income, race/ethnicity, etc. The subsequent sections are organized by Robert Wood Johnson Foundation's County Health Rankings Model. Health factors are presented first and include social and economic factors, health behaviors, clinical care, and physical environment. Health outcomes close the secondary data section and include measures on disease status and quality of life.

Data are presented by county or smallest available geographic area, and include census tracts from the MUAs when applicable. State and national level data are also included for comparison when available.

Links and references to other community health assessments and data can be found in Appendix 10.

Demographics

Total population

Geography	Total Population
Virginia	8,310,301
Bedford County	76,933
Botetourt County	33,192
Craig County	5,195
Franklin County	56,230
Roanoke County	93,655
Roanoke City	99,329
Salem City	25,290
NW MUAs	30,473
SE MUAs	7,622
NW Census Tract 1	4,124
NW Census Tract 9	6,179
NW Census Tract 10	2,214
NW Census Tract 11	1,380
NW Census Tract 23	7,538
NW Census Tract 24	3,589
NW Census Tract 25	5,449
SE Census Tract 26	2,825
SE Census Tract 27	4,797
Northern Botetourt MUA Census Tract 401	3,462
Northern Botetourt MUA Census Tract 402	4,284

U.S. Census Bureau, 2012-2016 5-year American Community Survey, Table S0101

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S0101&prodType=table

Population change estimates, 2010-2040

Geography	2010	2020	Pct. Change	2030	Pct. Change	2040	Pct. Change
Virginia	8,001,024	8,811,512	10.1%	9,645,281	9.5%	10,530,229	9.2%
Bedford County	68,676	77,257	12.5%	86,325	11.7%	95,943	11.1%
Botetourt County	33,148	35,235	6.3%	37,121	5.4%	38,885	4.8%
Craig County	5,190	5,523	6.4%	5,884	6.5%	6,228	5.9%
Franklin County	56,159	62,412	11.1%	68,461	9.7%	74,695	9.1%
Roanoke County	92,376	98,413	6.5%	104,063	5.7%	109,373	5.1%
Roanoke City	97,032	99,287	2.3%	101,174	1.9%	102,656	1.5%
Salem City	24,802	25,889	4.4%	27,075	4.6%	28,116	3.8%

U.S. Census Bureau, Virginia Employment Commission Community Profiles (2018)

<https://data.virginialmi.com/gsipub/index.asp?docid=342>

Median age

Geography	Median Age
Virginia	37.8
Bedford County	45.6
Botetourt County	46.9
Craig County	47.0
Franklin County	45.4
Roanoke County	43.7
Roanoke City	38.1
Salem City	40.6
NW Census Tract 1	42.9
NW Census Tract 9	30.0
NW Census Tract 10	35.8
NW Census Tract 11	30.8
NW Census Tract 23	35.6
NW Census Tract 24	37.4
NW Census Tract 25	35.8
SE Census Tract 26	37.4
SE Census Tract 27	42.0
Northern Botetourt MUA Census Tract 401	46.7
Northern Botetourt MUA Census Tract 402	48.7

U.S. Census Bureau, 2012-2016 5-year American Community Survey, Table S0101

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S0101&prodType=table

Estimates of population by lifecycle

Geography	Under 5 years	5 to 14 years	15 to 17 years	18 to 64 years	65 years and over
Virginia	6.1%	12.5%	3.8%	63.9%	13.8%
Bedford County	4.8%	11.8%	4.2%	59.6%	19.3%
Botetourt County	4.4%	11.6%	4.2%	59.7%	20.0%
Craig County	4.1%	13.6%	3.0%	59.6%	19.6%
Franklin County	4.8%	11.4%	3.5%	59.8%	20.7%
Roanoke County	4.8%	12.0%	4.0%	59.6%	19.6%
Roanoke City	6.9%	11.7%	3.4%	63.1%	14.9%
Salem City	5.5%	10.5%	3.5%	62.7%	17.8%
NW Census Tract 1	3.6%	11.4%	4.4%	65.5%	15.2%
NW Census Tract 9	9.7%	20.5%	5.9%	54.8%	9.2%
NW Census Tract 10	6.5%	15.3%	3.4%	69.7%	5.0%
NW Census Tract 11	0.0%	2.0%	0.4%	94.2%	3.4%
NW Census Tract 23	8.7%	13.0%	3.6%	60.2%	14.5%
NW Census Tract 24	6.7%	14.0%	4.0%	55.4%	19.8%
NW Census Tract 25	5.9%	14.1%	6.4%	61.3%	12.6%
SE Census Tract 26	8.5%	9.0%	4.2%	69.5%	8.8%
SE Census Tract 27	6.0%	11.9%	3.3%	64.1%	14.8%
Northern Botetourt MUA Census Tract 401	6.8%	11.5%	2.3%	58.7%	20.7%
Northern Botetourt MUA Census Tract 402	4.9%	11.5%	3.5%	57.7%	22.4%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S0101

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S0101&prodType=table

Race and ethnicity

Geography	White	Black	American Indian and Alaskan Native	Asian	Native Hawaiian and Other Pacific Islander	Some other race	Two or more races	Hispanic or Latino	Not Hispanic or Latino
Virginia	68.7%	19.2%	0.3%	6.1%	0.1%	2.3%	3.4%	8.7%	91.3%
Bedford County	89.9%	6.9%	0.1%	1.3%	0.0%	0.2%	1.5%	2.0%	98.0%
Botetourt County	93.9%	3.0%	0.3%	0.7%	0.0%	0.7%	1.4%	1.5%	98.5%
Craig County	98.1%	0.2%	0.0%	0.2%	0.0%	0.0%	1.5%	0.0%	100.0%
Franklin County	88.9%	8.3%	0.2%	0.2%	0.0%	1.2%	1.2%	2.7%	97.3%
Roanoke County	89.0%	5.8%	0.1%	2.8%	0.0%	0.4%	2.0%	2.7%	97.3%
Roanoke City	63.8%	28.3%	0.3%	2.7%	0.2%	1.3%	3.5%	6.0%	94.0%
Salem City	88.0%	7.7%	0.1%	2.0%	0.0%	0.4%	1.8%	3.3%	96.7%
NW Census Tract 1	21.8%	65.4%	4.3%	2.3%	0.0%	1.6%	4.6%	7.3%	92.7%
NW Census Tract 9	24.5%	70.7%	0.1%	2.3%	0.0%	0.4%	2.0%	0.6%	99.4%
NW Census Tract 10	28.8%	55.9%	0.0%	0.3%	0.0%	6.6%	8.4%	10.1%	89.9%
NW Census Tract 11	72.9%	21.8%	0.0%	1.4%	0.0%	1.2%	2.7%	5.2%	94.8%
NW Census Tract 23	42.2%	45.6%	0.0%	1.5%	2.3%	1.3%	7.2%	3.7%	96.3%
NW Census Tract 24	6.7%	87.1%	0.0%	0.0%	0.0%	0.0%	6.2%	0.4%	99.6%
NW Census Tract 25	17.6%	76.2%	0.3%	0.0%	0.0%	2.7%	3.2%	5.5%	94.5%
SE Census Tract 26	69.9%	24.5%	0.0%	1.2%	0.0%	0.0%	4.4%	3.5%	96.5%
SE Census Tract 27	85.7%	10.9%	0.0%	0.9%	0.0%	0.0%	2.4%	6.2%	93.8%
Northern Botetourt MUA Census Tract 401	93.7%	5.6%	0.4%	0.0%	0.0%	0.3%	0.0%	0.7%	99.3%
Northern Botetourt MUA Census Tract 402	95.3%	3.0%	0.2%	0.0%	0.0%	0.0%	1.4%	0.2%	99.8%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table DP05

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_DP05&prodType=table

**Bedford County Public Schools race/ethnicity
2015-2018**

School Year	School Type	Hispanic	American Indian / Alaskan Native	Asian	Black, not of Hispanic origin	Native Hawaiian / Other	White	Two or more
2015-2016								
	Elementary Schools	3.3%	0.2%	1.9%	7.9%	0.1%	81.7%	4.8%
	Middle Schools	3.1%	0.3%	1.9%	7.3%	0.0%	83.9%	3.6%
	High Schools	2.7%	0.2%	1.7%	7.0%	0.0%	85.2%	3.0%
	District Grand Total	3.1%	0.2%	1.8%	7.5%	0.1%	83.4%	3.9%
2016-2017								
	Elementary Schools	3.7%	0.2%	1.8%	7.3%	0.1%	81.1%	5.7%
	Middle Schools	3.1%	0.2%	2.3%	8.0%	0.0%	82.8%	3.7%
	High Schools	3.4%	0.3%	1.8%	7.1%	0.1%	83.9%	3.3%
	District Grand Total	3.5%	0.2%	1.9%	7.4%	0.1%	82.4%	4.4%
2017-2018								
	Elementary Schools	4.3%	0.2%	1.9%	7.7%	0.1%	79.9%	5.9%
	Middle Schools	3.4%	0.2%	1.9%	7.8%	0.0%	82.6%	4.0%
	High Schools	3.2%	0.3%	2.2%	6.9%	0.1%	83.6%	3.8%
	District Grand Total	3.7%	0.2%	2.0%	7.5%	0.1%	81.7%	4.7%

Virginia Department of Education. Fall Membership Reports

http://www.doe.virginia.gov/statistics_reports/enrollment/fall_membership/report_data.shtml

**Botetourt County Public Schools race/ethnicity
2015-2018**

School Year	School Type	Hispanic	American Indian / Alaskan Native	Asian	Black, not of Hispanic origin	Native Hawaiian / Other	White	Two or more
2015-2016								
	Elementary Schools	4.7%	0.2%	0.9%	1.9%	0.0%	89.3%	2.9%
	Middle Schools	2.8%	0.3%	1.1%	2.0%	0.0%	92.0%	1.8%
	High Schools	1.9%	0.1%	0.9%	3.0%	0.1%	91.9%	2.1%
	District Grand Total	3.1%	0.2%	2.4%	2.4%	0.0%	91.1%	2.3%
2016-2017								
	Elementary Schools	5.3%	0.1%	0.6%	2.1%	0.1%	88.3%	3.6%
	Middle Schools	3.8%	0.5%	1.0%	2.2%	0.0%	89.4%	3.1%
	High Schools	2.0%	0.4%	1.1%	2.2%	0.1%	91.2%	3.0%
	District Grand Total	3.8%	0.3%	0.9%	2.2%	0.0%	89.6%	3.2%
2017-2018								
	Elementary Schools	5.0%	0.1%	0.8%	2.1%	0.1%	87.8%	4.3%
	Middle Schools	4.1%	0.1%	0.9%	2.8%	0.0%	88.7%	3.4%
	High Schools	2.3%	0.2%	0.9%	2.0%	0.0%	91.9%	2.8%
	District Grand Total	3.8%	0.1%	0.8%	2.2%	0.0%	89.4%	3.6%

Virginia Department of Education. Fall Membership Reports

http://www.doe.virginia.gov/statistics_reports/enrollment/fall_membership/report_data.shtml

**Craig County Public Schools race/ethnicity
2015-2018**

School Year	School Type	Hispanic	American Indian / Alaskan Native	Asian	Black, not of Hispanic origin	Native Hawaiian / Other	White	Two or more
2015-2016								
	Elementary Schools	0.4%	0.0%	0.4%	0.4%	0.0%	98.9%	0.0%
	Middle Schools	2.1%	0.0%	0.7%	0.7%	0.0%	95.9%	0.7%
	High Schools	1.4%	0.0%	0.0%	0.0%	0.0%	98.1%	0.5%
	District Grand Total	1.1%	0.0%	0.3%	0.3%	0.0%	97.9%	0.3%
2016-2017								
	Elementary Schools	0.4%	0.0%	0.4%	0.4%	0.0%	98.8%	0.0%
	Middle Schools	0.8%	0.0%	0.8%	0.8%	0.0%	96.8%	0.8%
	High Schools	2.1%	0.0%	0.0%	0.0%	0.0%	97.9%	0.0%
	District Grand Total	1.1%	0.0%	0.3%	0.3%	0.0%	98.0%	0.2%
2017-2018								
	Elementary Schools	0.4%	0.0%	0.4%	0.0%	0.0%	98.9%	0.4%
	Middle Schools	0.0%	0.0%	0.0%	1.7%	0.0%	98.3%	0.0%
	High Schools	2.6%	0.0%	0.4%	0.0%	0.0%	96.6%	0.4%
	District Grand Total	1.1%	0.0%	0.3%	0.3%	0.0%	97.9%	0.3%

Virginia Department of Education. Fall Membership Reports
http://www.doe.virginia.gov/statistics_reports/enrollment/fall_membership/report_data.shtml

**Franklin County Public Schools race/ethnicity
2015-2018**

School Year	School Type	Hispanic	American Indian / Alaskan Native	Asian	Black, not of Hispanic origin	Native Hawaiian / Other	White	Two or more
2015-2016								
	Elementary Schools	7.6%	0.2%	0.3%	8.0%	0.0%	78.4%	5.4%
	Middle Schools	6.1%	0.2%	0.5%	8.1%	0.1%	79.9%	5.1%
	High Schools	4.5%	0.3%	0.6%	8.2%	0.0%	82.0%	4.5%
	District Grand Total	6.4%	0.2%	0.4%	8.1%	0.0%	79.8%	5.1%
2016-2017								
	Elementary Schools	8.0%	0.2%	0.4%	8.0%	0.0%	77.2%	6.2%
	Middle Schools	7.2%	0.2%	0.4%	7.9%	0.1%	77.7%	6.4%
	High Schools	4.9%	0.1%	0.6%	7.5%	0.0%	82.8%	4.1%
	District Grand Total	6.9%	0.2%	0.5%	7.8%	0.0%	79.0%	5.6%
2017-2018								
	Elementary Schools	8.0%	0.2%	0.4%	8.1%	0.0%	76.5%	6.8%
	Middle Schools	7.1%	0.1%	0.6%	7.3%	0.0%	78.8%	6.2%
	High Schools	5.0%	0.1%	0.6%	8.1%	0.0%	80.9%	5.3%
	District Grand Total	6.9%	0.2%	0.5%	7.9%	0.0%	78.3%	6.2%

Virginia Department of Education. Fall Membership Reports
http://www.doe.virginia.gov/statistics_reports/enrollment/fall_membership/report_data.shtml

**Roanoke County Public Schools race/ethnicity
2015-2018**

School Year	School Type	Hispanic	American Indian / Alaskan Native	Asian	Black, not of Hispanic origin	Native Hawaiian / Other	White	Two or more
2015-2016								
	Elementary Schools	6.2%	0.1%	3.7%	7.2%	0.0%	78.1%	4.6%
	Middle Schools	3.8%	0.1%	4.3%	6.5%	0.1%	80.3%	4.9%
	High Schools	4.0%	0.1%	3.7%	6.3%	0.0%	81.5%	4.4%
	District Grand Total	4.9%	0.1%	3.9%	6.8%	0.0%	79.7%	4.6%
2016-2017								
	Elementary Schools	6.4%	0.1%	4.0%	7.1%	0.1%	77.7%	4.6%
	Middle Schools	4.5%	0.1%	4.2%	6.8%	0.0%	79.4%	5.0%
	High Schools	3.9%	0.1%	4.1%	6.3%	0.1%	80.9%	4.7%
	District Grand Total	5.2%	0.1%	4.1%	6.8%	0.0%	79.1%	4.7%
2017-2018								
	Elementary Schools	6.5%	0.1%	4.4%	7.5%	0.1%	76.7%	4.7%
	Middle Schools	5.2%	0.1%	4.1%	7.2%	0.0%	78.8%	4.6%
	High Schools	4.2%	0.1%	4.4%	6.5%	0.1%	79.8%	4.9%
	District Grand Total	5.5%	0.1%	4.3%	7.1%	0.1%	78.2%	4.8%
Virginia Department of Education. Fall Membership Reports http://www.doe.virginia.gov/statistics_reports/enrollment/fall_membership/report_data.shtml								

**Roanoke City Public Schools race/ethnicity
2015-2018**

School Year	School Type	Hispanic	American Indian / Alaskan Native	Asian	Black, not of Hispanic origin	Native Hawaiian / Other	White	Two or more
2015-2016								
	Elementary Schools	12.2%	0.2%	2.7%	44.3%	0.0%	37.6%	3.0%
	Middle Schools	9.1%	0.3%	2.8%	45.7%	0.0%	38.0%	4.0%
	High Schools	8.6%	0.2%	3.3%	46.5%	0.0%	37.4%	3.9%
	District Grand Total	10.6%	0.2%	2.9%	45.2%	0.0%	37.6%	3.4%
2016-2017								
	Elementary Schools	12.3%	0.2%	3.0%	44.5%	0.1%	36.5%	3.5%
	Middle Schools	11.0%	0.3%	3.1%	44.3%	0.0%	37.7%	3.6%
	High Schools	10.1%	0.2%	2.9%	44.7%	0.0%	38.0%	4.0%
	District Grand Total	11.5%	0.2%	3.0%	44.5%	0.0%	37.2%	3.6%
2017-2018								
	Elementary Schools	12.7%	0.3%	3.0%	44.9%	0.1%	35.1%	3.9%
	Middle Schools	12.2%	0.1%	2.5%	45.4%	0.0%	36.8%	3.0%
	High Schools	11.1%	0.3%	3.2%	44.5%	0.0%	37.2%	3.7%
	District Grand Total	12.2%	0.2%	2.9%	44.9%	0.1%	36.0%	3.7%
Virginia Department of Education. Fall Membership Reports http://www.doe.virginia.gov/statistics_reports/enrollment/fall_membership/report_data.shtml								

**Salem City Public Schools race/ethnicity
2015-2018**

School Year	School Type	Hispanic	American Indian / Alaskan Native	Asian	Black, not of Hispanic origin	Native Hawaiian / Other	White	Two or more
2015-2016								
	Elementary Schools	5.7%	0.2%	2.4%	12.4%	0.1%	75.0%	4.1%
	Middle Schools	4.1%	0.1%	2.1%	11.6%	0.0%	77.7%	4.4%
	High Schools	2.9%	0.0%	2.2%	9.6%	0.1%	79.5%	5.8%
	District Grand Total	4.4%	0.1%	2.3%	11.3%	0.1%	77.0%	4.7%
2016-2017								
	Elementary Schools	6.3%	0.3%	2.6%	13.2%	0.0%	74.2%	3.4%
	Middle Schools	5.1%	0.0%	2.0%	11.7%	0.0%	77.4%	3.9%
	High Schools	3.3%	0.0%	2.5%	9.6%	0.0%	78.9%	5.6%
	District Grand Total	5.1%	0.2%	2.4%	11.7%	0.0%	76.4%	4.2%
2017-2018								
	Elementary Schools	6.0%	0.1%	2.2%	13.7%	0.0%	73.2%	4.8%
	Middle Schools	5.2%	0.0%	1.3%	11.9%	0.0%	76.7%	4.9%
	High Schools	4.3%	0.2%	2.6%	11.5%	0.2%	76.6%	4.6%
	District Grand Total	5.2%	0.1%	2.1%	12.5%	0.1%	75.1%	4.8%

Virginia Department of Education. Fall Membership Reports

http://www.doe.virginia.gov/statistics_reports/enrollment/fall_membership/report_data.shtml

Population 5 years and over who speak a language other than English at home

Geography	#	%
Virginia	1,211,386	15.5%
Bedford County	2,617	3.6%
Botetourt County	839	2.6%
Craig County	52	1.0%
Franklin County	1,887	3.5%
Roanoke County	6,090	6.8%
Roanoke City	8,718	9.4%
Salem City	1,178	4.9%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1601

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S1601&prodType=table

Marital status

Geography	Now married (except separated)	Widowed	Divorced	Separated	Never married
Virginia	50.0%	5.6%	10.2%	2.5%	31.8%
Bedford County	59.7%	6.5%	10.0%	1.7%	22.1%
Botetourt County	61.5%	6.2%	8.9%	1.9%	21.4%
Craig County	55.4%	7.3%	22.3%	1.1%	13.9%
Franklin County	58.1%	7.0%	9.6%	2.1%	23.2%
Roanoke County	55.1%	7.9%	11.6%	2.2%	23.2%
Roanoke City	38.4%	7.4%	14.9%	2.9%	36.3%
Salem City	45.4%	7.5%	13.3%	1.8%	32.0%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1201
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S1201&prodType=table

Social and Economic Factors

Fall PALS-K scores that were below kindergarten readiness levels

Geography	2015-2016	2016-2017	2017-2018
Virginia	13.8%	14.6%	16.0%
Bedford County	12.8%	15.0%	16.0%
Botetourt County	12.5%	14.0%	19.0%
Craig County	30.6%	46.0%	26.0%
Franklin County	11.7%	15.0%	19.0%
Roanoke County	12.5%	13.0%	15.0%
Roanoke City	20.6%	17.0%	22.0%
Salem City	14.9%	22.0%	17.0%

Virginia Department of Education vis Kids Count Data Center
<http://datacenter.kidscount.org/data/bar/3254-kindergarteners-whose-fall-pals-k-scores-were-below-kindergarten-readiness-levels?loc=48&loct=5>

Third grade Standards of Learning Reading Assessment pass rate

Geography	2014-2015	2015-2016	2016-2017
Bedford County	75.4%	76.2%	76.3%
Botetourt County	83.1%	84.0%	82.2%
Craig County	78.4%	80.0%	72.7%
Franklin County	84.4%	79.6%	75.1%
Roanoke County	82.7%	81.1%	84.0%
Roanoke City	74.1%	73.0%	73.1%
Salem City	84.7%	83.1%	81.3%

Virginia Department of Education, Test Data
http://www.doe.virginia.gov/statistics_reports/research_data/index.shtml

On time graduation rates, Roanoke MSA

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
Bedford County	88.7%	92.9%	90.4%
Botetourt County	96.0%	95.5%	93.5%
Craig County	91.1%	95.7%	89.1%
Franklin County	88.0%	91.6%	93.5%
Roanoke County	94.6%	94.1%	94.2%
Roanoke City	85.6%	87.5%	89.7%
Salem City	94.2%	94.9%	94.3%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

On time graduation rates, Bedford County high schools

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
Jefferson Forest High	93.1%	95.5%	94.0%
Liberty High	84.9%	91.7%	87.7%
Staunton River High	86.0%	90.8%	87.8%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

On time graduation rates, Botetourt County high schools

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
James River High	95.8%	94.5%	94.6%
Lord Botetourt High	96.2%	96.0%	93.0%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

On time graduation rates, Craig County high schools

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
Craig County High	91.1%	95.7%	89.1%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

On time graduation rates, Franklin County high schools

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
Franklin County High	88.0%	91.6%	93.5%

Virginia Department of Education, Virginia Cohort Reports
http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

On time graduation rates, Roanoke County high schools

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
Cave Spring High	93.0%	95.3%	95.8%
Glenvar High	95.4%	90.5%	92.4%
Hidden Valley High	96.9%	96.8%	97.2%
Northside High	94.8%	91.7%	91.7%
William Byrd High	93.7%	95.3%	93.8%

Virginia Department of Education, Virginia Cohort Reports
http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

On time graduation rates, Roanoke City high schools

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
Patrick Henry High	85.8%	87.9%	91.4%
William Fleming High	85.4%	87.0%	87.4%

Virginia Department of Education, Virginia Cohort Reports
http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

On time graduation rates, Salem City high schools

Geography	2015	2016	2017
Virginia	90.6%	91.4%	91.3%
Salem High	94.2%	94.9%	94.3%

Virginia Department of Education, Virginia Cohort Reports
http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

Dropout rates, Roanoke MSA

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
Bedford County	5.0%	4.9%	6.5%
Botetourt County	2.2%	2.1%	1.6%
Craig County	7.1%	2.2%	6.5%
Franklin County	5.6%	5.3%	5.6%
Roanoke County	3.1%	4.1%	3.9%
Roanoke City	10.3%	10.5%	9.8%
Salem City	2.6%	4.1%	4.2%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

Dropout rates, Bedford County high schools

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
Jefferson Forest High	2.5%	3.4%	3.3%
Liberty High	7.1%	4.8%	8.0%
Staunton River High	6.8%	6.8%	9.7%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

Dropout rates, Botetourt County high schools

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
James River High	2.4%	2.7%	2.3%
Lord Botetourt High	2.1%	1.8%	1.2%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

Dropout rates, Craig County high schools

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
Craig County High	7.1%	2.2%	6.5%

Virginia Department of Education, Virginia Cohort Reports

http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml

Dropout rates, Franklin County high schools

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
Franklin County High	5.6%	5.3%	5.6%
Virginia Department of Education, Virginia Cohort Reports http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml			

Dropout rates, Roanoke County high schools

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
Cave Spring High	3.3%	2.0%	1.5%
Glenvar High	3.8%	8.2%	4.9%
Hidden Valley High	2.3%	2.8%	2.4%
Northside High	2.6%	5.3%	5.5%
William Byrd High	3.6%	3.2%	5.1%
Virginia Department of Education, Virginia Cohort Reports http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml			

Dropout rates, Roanoke City high schools

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
Patrick Henry High	10.2%	10.6%	8.2%
William Fleming High	10.4%	10.2%	11.8%
Virginia Department of Education, Virginia Cohort Reports http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml			

Dropout rates, Salem City high schools

Geography	2015	2016	2017
Virginia	5.2%	5.3%	5.8%
Salem High	2.6%	4.1%	4.2%
Virginia Department of Education, Virginia Cohort Reports http://www.doe.virginia.gov/statistics_reports/graduation_completion/cohort_reports/index.shtml			

High school students enrolled in an institution of higher education within 16 months of graduation

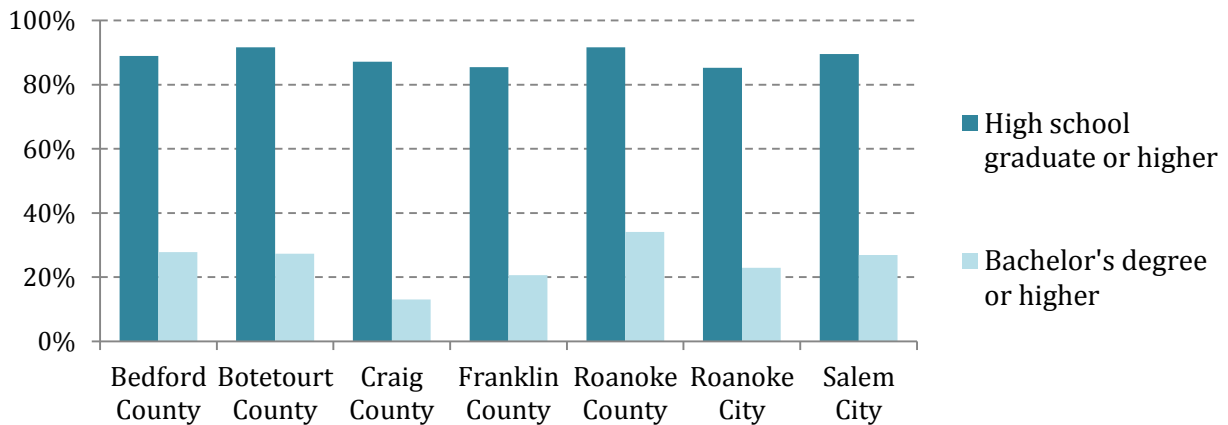
Geography	2013	2014	2015
Virginia	72%	72%	72%
Bedford County	60%	65%	64%
Botetourt County	73%	75%	73%
Craig County	60%	73%	58%
Franklin County	63%	67%	66%
Roanoke County	77%	77%	75%
Roanoke City	65%	61%	56%
Salem City	74%	73%	72%
Virginia Department of Education, Postsecondary Enrollment Reports https://p1pe.doe.virginia.gov/postsec_public/postsec.do?dowhat=LOAD_REPORT_C11			

Academic attainment for population 25 and over

Geography	High school graduate or higher	Bachelor's degree or higher
Virginia	88.6%	36.9%
Bedford County	88.9%	27.8%
Botetourt County	91.6%	27.3%
Craig County	87.1%	13.0%
Franklin County	85.4%	20.6%
Roanoke County	91.6%	34.1%
Roanoke City	85.2%	22.9%
Salem City	89.5%	26.9%
NW Census Tract 1	81.8%	13.3%
NW Census Tract 9	75.4%	7.9%
NW Census Tract 10	75.1%	7.3%
NW Census Tract 11	88.8%	45.7%
NW Census Tract 23	88.4%	16.0%
NW Census Tract 24	79.4%	13.1%
NW Census Tract 25	67.5%	7.3%
SE Census Tract 26	71.8%	5.1%
SE Census Tract 27	82.4%	7.4%
Northern Botetourt MUA Census Tract 401	89.3%	20.8%
Northern Botetourt MUA Census Tract 402	83.0%	14.4%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1501
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S1501&prodType=table

Roanoke MSA academic attainment for population 25 and over



Median household income

Geography	Median Household Income
Virginia	\$66,149
Bedford County	\$56,725
Botetourt County	\$61,470
Craig County	\$40,500
Franklin County	\$48,720
Roanoke County	\$60,380
Roanoke City	\$39,201
Salem City	\$52,351
NW Census Tract 1	\$36,324
NW Census Tract 9	\$24,074
NW Census Tract 10	\$24,708
NW Census Tract 11	\$50,461
NW Census Tract 23	\$44,338
NW Census Tract 24	\$26,275
NW Census Tract 25	\$23,412
SE Census Tract 26	\$27,500
SE Census Tract 27	\$30,873
Northern Botetourt MUA Census Tract 401	\$47,833
Northern Botetourt MUA Census Tract 402	\$48,710

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1903
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S1903&prodType=table

Federal poverty guidelines for the 48 contiguous states and the District of Columbia

Persons in family/household	2016	2017	2018
1	\$11,880	\$12,060	\$12,140
2	\$16,020	\$16,240	\$16,460
3	\$20,160	\$20,420	\$20,780
4	\$24,300	\$24,600	\$25,100
5	\$28,440	\$28,780	\$29,420
6	\$32,580	\$32,960	\$33,740
7	\$36,730	\$37,140	\$38,060
8	\$40,890	\$41,320	\$42,380
9+	Add \$4,160 for each additional person	Add \$4,180 for each additional person	Add \$4,320 for each additional person

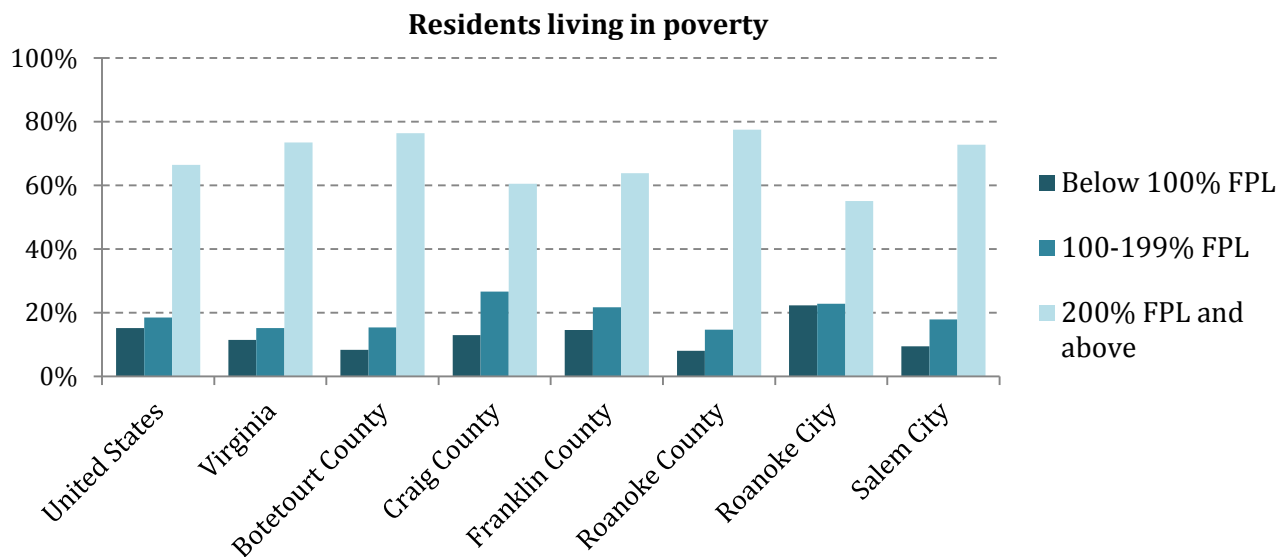
Federal Registrar, Annual Update of the HHS Poverty Guidelines
<https://www.federalregister.gov/documents/2018/01/18/2018-00814/annual-update-of-the-hhs-poverty-guidelines>

Number of residents living in poverty

Geography	Below 100% FPL		100-199% FPL		200% FPL and above		Total
	#	%	#	%	#	%	
United States	46,932,225	15.1%	57,457,973	18.5%	206,239,447	66.4%	310,629,645
Virginia	921,664	11.4%	1,220,553	15.1%	5,918,675	73.4%	8,060,892
Bedford County	7,028	9.2%	11,968	15.7%	57,369	75.1%	76,365
Botetourt County	2,732	8.3%	5,030	15.3%	25,097	76.4%	32,859
Craig County	667	12.9%	1,379	26.6%	3,132	60.5%	5,178
Franklin County	7,950	14.6%	11,833	21.7%	34,855	63.8%	54,638
Roanoke County	7,270	8.0%	13,349	14.6%	70,740	77.4%	91,359
Roanoke City	21,610	22.2%	22,110	22.7%	53,510	55.0%	97,230
Salem City	2,158	9.4%	4,109	17.9%	16,735	72.8%	23,002
NW Census Tract 1	715	17.6%	1,104	27.1%	2,252	55.3%	4,071
NW Census Tract 9	2,684	43.6%	1,423	23.1%	2,055	33.3%	6,162
NW Census Tract 10	790	35.7%	761	34.4%	663	29.9%	2,214
NW Census Tract 11	133	14.8%	107	11.9%	658	73.3%	898
NW Census Tract 23	1,615	21.5%	1,408	18.8%	4,486	59.7%	7,509
NW Census Tract 24	1,426	39.9%	1,017	28.5%	1,129	31.6%	3,572
NW Census Tract 25	2,156	41.5%	1,291	24.8%	1,752	33.7%	5,199
SE Census Tract 26	1,397	50.9%	478	17.4%	868	31.6%	2,743
SE Census Tract 27	1,316	28.2%	1,409	30.2%	1,939	41.6%	4,664
Northern Botetourt MUA Census Tract 401	542	16.1%	827	24.6%	1,999	59.4%	3,368
Northern Botetourt MUA Census Tract 402	390	9.1%	763	17.8%	3,131	73.1%	4,284

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table C17002

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table



Ratio of income by poverty status, by age, Roanoke MSA + MUA

Geography	< 6 years of age					
	Below 100% FPL		100-199% FPL		200% FPL and above	
	#	%	#	%	#	%
United States	5,535,200	23.5%	5,399,378	22.9%	12,598,178	53.5%
Virginia	100,968	16.7%	119,744	19.8%	384,499	63.5%
Bedford County	693	15.3%	909	20.0%	2,935	64.7%
Botetourt County	248	14.8%	293	17.5%	1,136	67.7%
Craig County	16	7.1%	--	--	210	92.9%
Franklin County	974	30.0%	728	22.4%	1,543	47.6%
Roanoke County	419	7.8%	1,306	24.4%	3,619	67.7%
Roanoke City	2,671	34.7%	1,610	20.9%	3,418	44.4%
Salem City	196	11.8%	460	27.8%	999	60.4%
NW Census Tract 1	22	11.9%	72	38.9%	91	49.2%
NW Census Tract 9	570	76.8%	81	10.9%	91	12.3%
NW Census Tract 10	70	37.2%	54	28.7%	64	34.0%
NW Census Tract 11	--	--	--	--	--	--
NW Census Tract 23	204	32.7%	194	31.1%	226	36.2%
NW Census Tract 24	217	84.8%	22	8.6%	17	6.6%
NW Census Tract 25	207	53.4%	86	22.2%	95	24.5%
SE Census Tract 26	158	76.3%	20	9.7%	29	14.0%
SE Census Tract 27	147	56.8%	17	6.6%	95	36.7%
Northern Botetourt MUA Census Tract 401	72	34.3%	33	15.7%	105	50.0%
Northern Botetourt MUA Census Tract 402	30	11.7%	96	37.4%	131	51.0%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table B17024

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Ratio of income by poverty status, by age, Roanoke MSA + MUA

Geography	6-17 years of age					
	Below 100% FPL		100-199% FPL		200% FPL and above	
	#	%	#	%	#	%
United States	9,800,583	20.0%	10,629,109	21.7%	28,493,648	58.2%
Virginia	177,384	14.4%	222,105	18.0%	833,512	67.6%
Bedford County	983	8.7%	2,074	18.3%	8,284	73.0%
Botetourt County	480	9.6%	733	14.7%	3,785	75.7%
Craig County	131	15.7%	344	41.1%	362	43.2%
Franklin County	1,514	19.8%	2,278	29.7%	3,868	50.5%
Roanoke County	1,407	10.2%	2,590	18.8%	9,806	71.0%
Roanoke City	4,677	34.7%	3,899	28.9%	4,902	36.4%
Salem City	341	10.9%	769	24.5%	2,028	64.6%
NW Census Tract 1	245	41.5%	141	23.9%	205	34.7%
NW Census Tract 9	796	54.1%	421	28.6%	255	17.3%
NW Census Tract 10	197	53.1%	139	37.5%	35	9.4%
NW Census Tract 11	--	--	--	--	33	100.0%
NW Census Tract 23	384	30.7%	411	32.9%	456	36.5%
NW Census Tract 24	413	65.5%	188	29.8%	30	4.8%
NW Census Tract 25	496	58.8%	266	31.5%	82	9.7%
SE Census Tract 26	185	57.1%	63	19.4%	76	23.5%
SE Census Tract 27	317	50.7%	203	32.5%	105	16.8%
Northern Botetourt MUA Census Tract 401	99	22.0%	110	24.4%	242	53.7%
Northern Botetourt MUA Census Tract 402	43	7.2%	60	10.0%	495	82.8%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table B17024

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Ratio of income by poverty status, by age, Roanoke MSA + MUA

Geography	18-64 years of age					
	Below 100% FPL		100-199% FPL		200% FPL and above	
	#	%	#	%	#	%
United States	27,401,015	14.2%	32,181,272	16.6%	133,716,676	69.2%
Virginia	558,524	10.9%	682,490	13.4%	3,862,973	75.7%
Bedford County	4,328	9.4%	5,920	12.9%	35,578	77.6%
Botetourt County	1,446	7.4%	2,375	12.1%	15,846	80.6%
Craig County	406	13.1%	754	24.3%	1,939	62.6%
Franklin County	4,491	13.9%	5,986	18.5%	21,814	67.6%
Roanoke County	4,363	8.0%	6,826	12.5%	43,416	79.5%
Roanoke City	12,536	20.3%	12,992	21.0%	36,322	58.7%
Salem City	1,394	9.9%	2,214	15.7%	10,470	74.4%
NW Census Tract 1	407	15.1%	640	23.7%	1,653	61.2%
NW Census Tract 9	1,133	33.5%	784	23.2%	1,463	43.3%
NW Census Tract 10	504	32.6%	498	32.2%	543	35.1%
NW Census Tract 11	128	15.6%	91	11.1%	599	73.2%
NW Census Tract 23	927	20.4%	577	12.7%	3,034	66.9%
NW Census Tract 24	710	35.6%	608	30.5%	674	33.8%
NW Census Tract 25	1,344	40.3%	759	22.8%	1,229	36.9%
SE Census Tract 26	966	49.2%	341	17.4%	657	33.5%
SE Census Tract 27	706	23.0%	951	31.0%	1,414	46.0%
Northern Botetourt MUA Census Tract 401	309	15.2%	421	20.7%	1,301	64.1%
Northern Botetourt MUA Census Tract 402	219	8.9%	362	14.7%	1,889	76.5%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table B17024

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Ratio of income by poverty status, by age, Roanoke MSA + MUA

Geography	65+ years of age					
	Below 100% FPL		100-199% FPL		200% FPL and above	
	#	%	#	%	#	%
United States	4,195,427	9.3%	9,248,214	20.6%	31,430,945	70.0%
Virginia	84,788	7.6%	196,214	17.5%	837,691	74.9%
Bedford County	1,024	7.0%	3,065	20.9%	10,572	72.1%
Botetourt County	558	8.6%	1,629	25.0%	4,330	66.4%
Craig County	114	11.2%	281	27.7%	621	61.1%
Franklin County	971	8.5%	2,841	24.8%	7,630	66.7%
Roanoke County	1,081	6.1%	2,627	14.9%	13,899	78.9%
Roanoke City	1,726	12.2%	3,609	25.4%	8,868	62.4%
Salem City	227	5.5%	666	16.1%	3,238	78.4%
NW Census Tract 1	41	6.9%	251	42.2%	303	50.9%
NW Census Tract 9	185	32.6%	137	24.1%	246	43.3%
NW Census Tract 10	19	17.3%	70	63.6%	21	19.1%
NW Census Tract 11	5	10.6%	16	34.0%	26	55.3%
NW Census Tract 23	100	9.1%	226	20.6%	770	70.3%
NW Census Tract 24	86	12.4%	199	28.7%	408	58.9%
NW Census Tract 25	109	17.2%	180	28.3%	346	54.5%
SE Census Tract 26	88	35.5%	54	21.8%	106	42.7%
SE Census Tract 27	146	20.6%	238	33.6%	325	45.8%
Northern Botetourt MUA Census Tract 401	62	9.2%	263	38.9%	351	51.9%
Northern Botetourt MUA Census Tract 402	98	10.2%	245	25.5%	616	64.2%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table B17024
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Poverty status in the past 12 months, by race/ethnicity

Geography	White			Black / African American		
	Population	Number in poverty	Percent in poverty	Population	Number in poverty	Percent in poverty
Virginia	5,561,852	506,826	9.1%	1,522,283	303,397	19.9%
Bedford County	68,718	5,327	7.8%	5,233	1,121	21.4%
Botetourt County	30,906	2,412	7.8%	934	165	17.7%
Craig County	5,090	631	12.4%	--	--	--
Franklin County	48,964	6,403	13.1%	4,231	960	22.7%
Roanoke County	81,517	5,745	7.0%	5,000	720	14.4%
Roanoke City	62,085	10,161	16.4%	27,343	9,333	34.1%
Salem City	20,321	1,621	8.0%	1,754	444	25.3%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1701
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Poverty status in the past 12 months, by race/ethnicity

Geography	American Indian / Alaskan Native			Asian		
	Population	Number in poverty	Percent in poverty	Population	Number in poverty	Percent in poverty
Virginia	20,911	2,852	13.6%	494,027	39,385	8.0%
Bedford County	93	--	--	983	212	21.6%
Botetourt County	87	5	5.7%	239	19	7.9%
Craig County	--	--	--	9	9	100.0%
Franklin County	78	--	--	124	--	--
Roanoke County	100	8	8.0%	2,551	280	11.0%
Roanoke City	272	33	12.1%	2,691	1,068	39.7%
Salem City	20	20	100.0%	492	48	9.8%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1701

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Poverty status in the past 12 months, by race/ethnicity

Geography	Native Hawaiian and Other Pacific Islander			Some other race		
	Population	Number in poverty	Percent in poverty	Population	Number in poverty	Percent in poverty
Virginia	5,074	383	7.5%	186,105	32,823	17.6%
Bedford County	16	--	--	191	135	70.7%
Botetourt County	--	--	--	229	114	49.8%
Craig County	--	--	--	--	--	--
Franklin County	--	--	--	640	479	74.8%
Roanoke County	--	--	--	375	12	3.2%
Roanoke City	174	--	--	1,251	234	18.7%
Salem City	--	--	--	90	--	--

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1701

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Poverty status in the past 12 months, by race/ethnicity

Geography	Two or more races			Hispanic / Latino origin		
	Population	Number in poverty	Percent in poverty	Population	Number in poverty	Percent in poverty
Virginia	270,640	35,998	13.3%	705,132	108,944	15.5%
Bedford County	1,131	233	20.6%	1,482	345	23.3%
Botetourt County	464	17	3.7%	477	122	25.6%
Craig County	79	27	34.2%	--	--	--
Franklin County	601	108	18.0%	1,413	1,004	71.1%
Roanoke County	1,816	505	27.8%	2,441	151	6.2%
Roanoke City	3,414	781	22.9%	5,854	1,825	31.2%
Salem City	325	25	7.7%	784	99	12.6%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1701

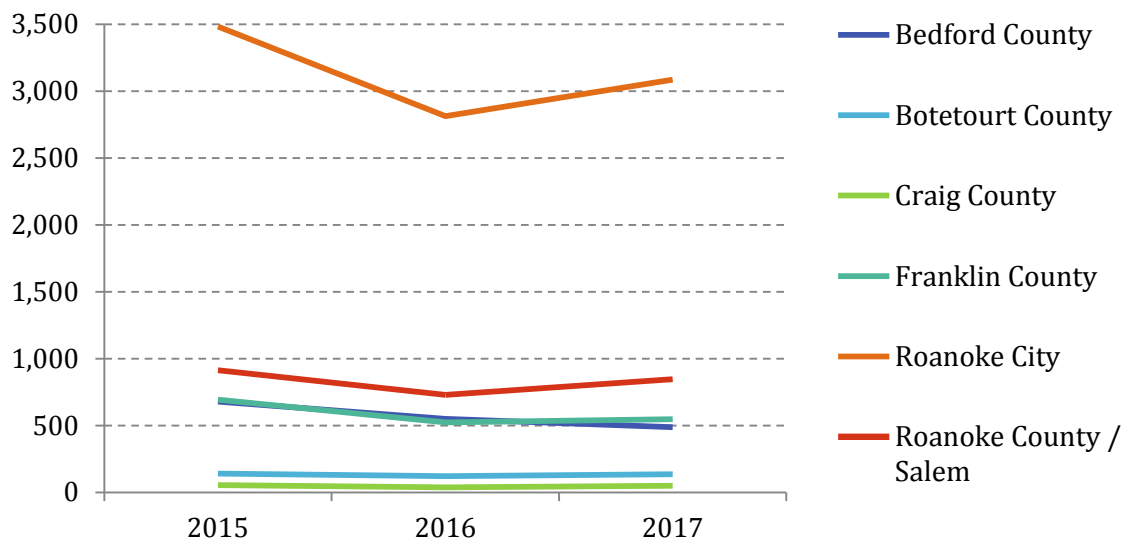
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_C17002&prodType=table

Number of TANF recipients for Rockbridge for calendar year 2015-2017

Geography	2015	2016	2017
Bedford County	679	550	487
Botetourt County	141	122	136
Craig County	55	38	50
Franklin County	694	524	547
Roanoke City	3,485	2,815	3,086
Roanoke County / Salem	914	730	847

Virginia Department of Social Services Profile Report
http://www.dss.virginia.gov/geninfo/reports/agency_wide/ldss_profile.cgi

TANF recipients 2015-2017

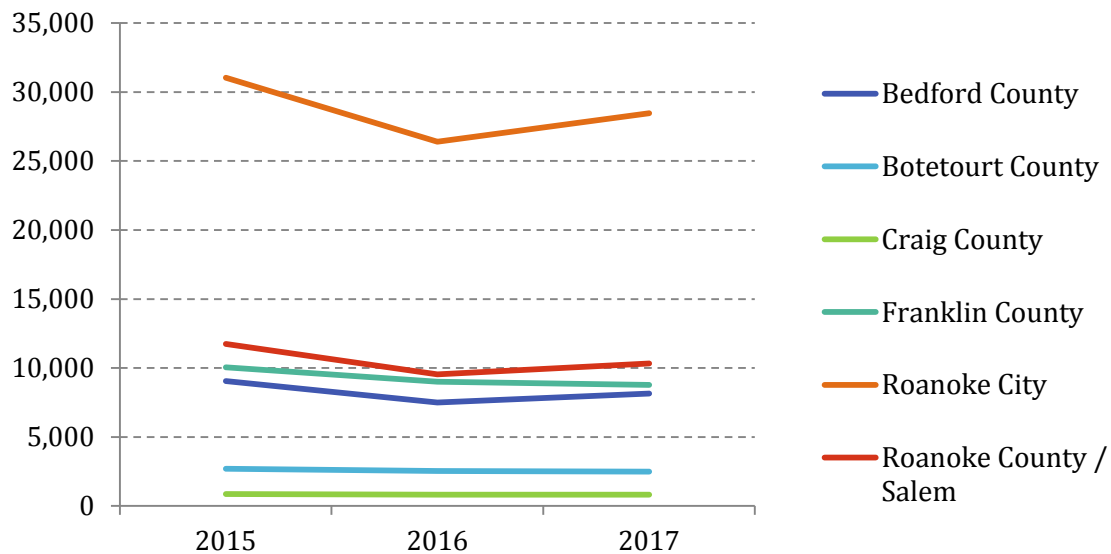


Number of SNAP recipients for Rockbridge for calendar year 2015-2017

Geography	2015	2016	2017
Bedford County	9,060	7,498	8,151
Botetourt County	2,706	2,527	2,498
Craig County	865	813	816
Franklin County	10,042	9,007	8,784
Roanoke City	31,049	26,407	28,466
Roanoke County / Salem	11,746	9,544	10,334

Virginia Department of Social Services Profile Report
http://www.dss.virginia.gov/geninfo/reports/agency_wide/ldss_profile.cgi

SNAP recipients 2015-2017



Students eligible for free and reduced lunch program

Geography	2015-2016	2016-2017	2017-2018
Virginia	42.0%	41.9%	44.3%
Bedford County	36.4%	35.2%	37.3%
Botetourt County	23.1%	23.8%	27.8%
Craig County	52.2%	52.0%	55.7%
Franklin County	51.3%	49.4%	54.5%
Roanoke County	26.2%	25.7%	30.1%
Roanoke City	85.5%	84.8%	86.9%
Salem City	30.2%	32.6%	36.6%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Bedford County Public Schools free and reduced lunch eligibility, 2015-2016

	SNAP membership	Free lunch eligible # %	Reduced lunch eligible # %	Total F/R lunch eligible # %
Elementary Schools				
Bedford	421	196 46.6%	37 8.8%	233 55.3%
Bedford Primary	263	140 53.2%	23 8.8%	163 62.0%
Big Island	136	48 35.3%	6 4.4%	54 39.7%
Boonsboro	302	52 17.2%	19 6.3%	71 23.5%
Forest	363	31 8.5%	5 1.4%	36 9.9%
Goodview	533	224 42.0%	46 8.6%	270 50.7%
Huddleston	263	110 41.8%	29 11.0%	139 52.9%
Moneta	256	115 44.9%	33 12.9%	148 57.8%
Montvale	319	148 46.4%	36 11.3%	184 57.7%
New London Academy	327	68 20.8%	22 6.7%	90 27.5%
Otter River	217	56 25.8%	12 5.5%	68 31.3%
Stewartsville	361	168 46.5%	41 11.4%	209 57.7%
Thomas Jefferson	579	82 14.2%	36 6.2%	118 20.4%
Middle Schools				
Bedford	604	233 38.6%	61 10.1%	294 48.7%
Bedford Co. Alternative Education Center	43	25 58.1%	5 11.6%	30 69.8%
Forest	974	128 13.1%	40 4.1%	168 17.3%
Staunton River	708	264 37.3%	92 13.0%	356 50.3%
High Schools				
Jefferson Forest	1,361	150 11.0%	44 3.2%	194 14.3%
Liberty	848	269 31.7%	83 9.8%	352 41.5%
Staunton River	1,031	325 31.5%	101 9.8%	426 41.3%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Bedford County Public Schools free and reduced lunch eligibility, 2016-2017

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Bedford	385	171	44.4%	18	4.7%	189	49.1%
Bedford Primary	273	146	53.5%	15	5.5%	161	59.0%
Big Island	155	51	32.9%	16	10.3%	67	43.2%
Boonsboro	298	52	17.5%	18	6.0%	70	23.5%
Forest	373	33	8.9%	9	2.4%	42	11.3%
Goodview	484	190	39.3%	46	9.5%	236	48.8%
Huddleston	289	127	43.9%	30	10.4%	157	54.3%
Moneta	261	109	41.8%	34	13.0%	143	54.8%
Montvale	288	117	40.6%	30	10.4%	147	51.0%
New London Academy	300	60	20.0%	19	6.3%	79	26.3%
Otter River	219	45	20.6%	17	7.8%	62	28.3%
Stewartsville	356	165	46.4%	47	13.2%	212	59.6%
Thomas Jefferson	621	88	14.2%	36	5.8%	124	20.0%
Middle Schools							
Bedford	572	231	40.4%	51	8.9%	282	49.3%
Bedford Co. Alternative Education Center	82	55	67.1%	5	6.1%	60	73.2%
Forest	979	120	12.3%	51	5.2%	171	17.5%
Staunton River	962	279	29.0%	74	7.7%	353	36.7%
High Schools							
Jefferson Forest	1,326	119	9.0%	46	3.5%	165	12.4%
Liberty	841	272	32.3%	68	8.1%	340	40.4%
Staunton River	694	270	38.9%	105	15.1%	375	54.0%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Bedford County Public Schools free and reduced lunch eligibility, 2017-2018

	SNAP membership	Free lunch eligible # %	Reduced lunch eligible # %	Total F/R lunch eligible # %
Elementary Schools				
Bedford	481	255 53.0%	28 5.8%	283 58.8%
Bedford Primary	276	155 56.2%	17 6.2%	172 62.3%
Big Island	142	57 40.1%	8 5.6%	65 45.8%
Boonsboro	300	65 21.7%	9 3.0%	74 24.7%
Forest	362	36 9.9%	12 3.3%	48 13.3%
Goodview	488	192 39.3%	40 8.2%	232 47.5%
Huddleston	287	142 49.5%	13 4.5%	155 54.0%
Moneta	246	104 42.3%	32 13.0%	136 55.3%
Montvale	269	137 50.9%	18 6.7%	155 57.6%
New London Academy	328	75 22.9%	16 4.9%	91 27.7%
Otter River	225	60 26.7%	11 4.9%	71 31.6%
Stewartsville	352	193 54.8%	43 12.2%	236 67.1%
Thomas Jefferson	614	119 19.4%	19 3.1%	138 22.5%
Middle Schools				
Bedford	568	256 45.1%	34 6.0%	290 51.1%
Bedford Co. Alternative Education Center	39	32 82.1%	3 7.7%	35 89.7%
Forest	950	133 14.0%	30 3.2%	163 17.2%
Staunton River	721	305 42.3%	64 8.9%	369 51.2%
High Schools				
Jefferson Forest	1,379	155 11.2%	35 2.5%	190 13.8%
Liberty	811	290 35.8%	63 7.8%	353 43.5%
Staunton River	966	335 34.7%	69 7.1%	404 41.8%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Botetourt County Public Schools free and reduced lunch eligibility, 2015-2016

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Breckinridge	217	49	22.6%	7	3.2%	56	25.8%
Buchanan	297	110	37.0%	26	8.8%	136	45.8%
Cloverdale	274	39	14.2%	7	2.6%	46	16.8%
Colonial	387	77	19.9%	14	3.6%	91	23.5%
Eagle Rock	162	44	27.2%	17	10.5%	61	37.7%
Greenfield	383	99	25.9%	10	2.6%	109	28.5%
Troutville	269	66	24.5%	15	5.6%	81	30.1%
Middle Schools							
Central Academy	419	87	20.8%	17	4.1%	104	24.8%
Read Mountain	773	115	14.9%	32	4.1%	147	19.0%
High Schools							
James River	545	103	18.9%	22	4.0%	125	22.9%
Lord Botetourt	1,032	119	11.5%	23	2.2%	142	13.8%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Botetourt County Public Schools free and reduced lunch eligibility, 2016-2017

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Breckinridge	203	46	22.7%	4	2.0%	50	24.6%
Buchanan	292	101	34.6%	27	9.3%	128	43.8%
Cloverdale	256	34	13.3%	10	3.9%	44	17.2%
Colonial	398	81	20.4%	26	6.5%	107	26.9%
Eagle Rock	140	43	30.7%	15	10.7%	58	41.4%
Greenfield	393	98	24.9%	16	4.1%	114	29.0%
Troutville	261	62	23.8%	16	6.1%	78	29.9%
Middle Schools							
Central Academy	406	89	21.9%	18	4.4%	107	26.4%
Read Mountain	725	111	15.3%	40	5.5%	151	20.8%
High Schools							
James River	548	95	17.3%	31	5.7%	126	23.0%
Lord Botetourt	1,029	111	10.8%	35	3.4%	146	14.2%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Botetourt County Public Schools free and reduced lunch eligibility, 2017-2018

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Breckinridge	201	68	33.8%	5	2.5%	73	36.3%
Buchanan	257	95	37.0%	30	11.7%	125	48.6%
Cloverdale	270	42	15.6%	9	3.3%	51	18.9%
Colonial	382	90	23.6%	18	4.7%	108	28.3%
Eagle Rock	149	56	37.6%	20	13.4%	76	51.0%
Greenfield	430	133	30.9%	4	0.9%	137	31.9%
Troutville	261	67	25.7%	23	8.8%	90	34.5%
Middle Schools							
Central Academy	388	93	24.0%	23	5.9%	116	29.9%
Read Mountain	724	159	22.0%	30	4.1%	189	26.1%
High Schools							
James River	549	111	20.2%	35	6.4%	146	26.6%
Lord Botetourt	1,046	151	14.4%	32	3.1%	183	17.5%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Craig County Public Schools free and reduced lunch eligibility, 2015-2016

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
McCleary	268	134	50.0%	32	11.9%	166	61.9%
High Schools							
Craig County	358	126	35.2%	35	9.8%	161	45.0%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Craig County Public Schools free and reduced lunch eligibility, 2016-2017

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
McCleary	261	136	52.1%	23	8.8%	159	60.9%
High Schools							
Craig County	360	138	38.3%	26	7.2%	164	45.6%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Craig County Public Schools free and reduced lunch eligibility, 2017-2018

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
McCleary	268	153	57.1%	25	9.3%	178	66.4%
High Schools							
Craig County	350	146	41.7%	20	5.7%	166	47.4%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Franklin County Public Schools free and reduced lunch eligibility, 2015-2016

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Ben. Franklin Middle-East	527	224	42.5%	36	6.8%	260	49.3%
Boones Mill	339	108	31.9%	37	10.9%	145	42.8%
Burnt Chimney	299	115	38.5%	15	5.0%	130	43.5%
Callaway	269	139	51.7%	19	7.1%	158	58.7%
Dudley	293	105	35.8%	20	6.8%	125	42.7%
Ferrum	260	201	77.3%	0	0.0%	201	77.3%
Glade Hill	299	165	55.2%	26	8.7%	191	63.9%
Henry	199	94	47.2%	19	9.6%	113	56.8%
Lee M. Wald	381	215	56.4%	26	6.8%	241	63.3%
Rocky Mount	392	325	82.9%	0	0.0%	325	82.9%
Snow Creek	212	103	48.6%	14	6.6%	117	55.2%
Sontag	366	311	85.0%	0	0.0%	311	85.0%
Windy Gap	322	113	35.1%	15	4.7%	128	39.8%
Middle Schools							
Ben. Franklin Middle-West	819	331	40.4%	55	6.7%	386	47.1%
Gereau Center for Apl Tech & Career Expl	258	101	39.2%	23	8.9%	124	48.1%
High Schools							
Franklin County	1,049	344	32.8%	74	7.1%	418	39.9%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Franklin County Public Schools free and reduced lunch eligibility, 2016-2017

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Ben. Franklin Middle-East	541	225	41.6%	38	7.0%	263	48.6%
Boones Mill	345	99	28.7%	34	9.9%	133	38.6%
Burnt Chimney	303	117	38.6%	18	5.9%	135	44.6%
Callaway	267	135	50.6%	27	10.1%	162	60.7%
Dudley	276	92	33.3%	19	6.9%	111	40.2%
Ferrum	256	198	77.3%	0	0.0%	198	77.3%
Glade Hill	281	140	49.8%	18	6.4%	158	56.2%
Henry	212	117	55.2%	18	8.5%	135	63.7%
Lee M. Wald	393	205	52.2%	31	7.9%	236	60.1%
Rocky Mount	418	347	83.0%	0	0.0%	347	83.0%
Snow Creek	218	105	48.2%	12	5.5%	117	53.7%
Sontag	332	282	84.9%	0	0.0%	282	84.9%
Windy Gap	330	109	33.0%	9	2.7%	118	35.8%
Middle Schools							
Ben. Franklin Middle-West	802	302	37.7%	50	6.2%	352	43.9%
Gereau Center for Apl Tech & Career Expl	269	104	38.7%	20	7.4%	124	46.1%
High Schools							
Franklin County	2,151	649	30.2%	132	6.1%	781	36.3%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Franklin County Public Schools free and reduced lunch eligibility, 2017-2018

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Ben. Franklin Middle-East	546	258	47.3%	24	4.4%	282	51.7%
Boones Mill	343	128	37.3%	26	7.6%	154	44.9%
Burnt Chimney	300	142	47.3%	15	5.0%	157	52.3%
Callaway	247	130	52.6%	18	7.3%	148	59.9%
Dudley	282	107	37.9%	21	7.5%	128	45.4%
Ferrum	245	202	82.5%	0	0.0%	202	82.5%
Glade Hill	280	150	53.6%	25	8.9%	175	62.5%
Henry	211	174	82.5%	0	0.0%	174	82.5%
Lee M. Wald	385	317	82.3%	0	0.0%	317	82.3%
Rocky Mount	386	318	82.4%	0	0.0%	318	82.4%
Snow Creek	204	102	50.0%	21	10.3%	123	60.3%
Sontag	358	295	82.4%	0	0.0%	295	82.4%
Windy Gap	337	132	39.2%	15	4.5%	147	43.6%
Middle Schools							
Ben. Franklin Middle-West	762	340	44.6%	32	4.2%	372	48.8%
Gereau Center for Apl Tech & Career Expl	306	127	41.5%	21	6.9%	148	48.4%
High Schools							
Franklin County	2,110	741	35.1%	101	4.8%	842	39.9%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Roanoke County Public Schools free and reduced lunch eligibility, 2015-2016

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Back Creek	317	37	11.7%	13	4.1%	50	15.8%
Bonsack	380	35	9.2%	3	0.8%	38	10.0%
Burlington	463	211	45.6%	47	10.2%	258	55.7%
Cave Spring	486	58	11.9%	12	2.5%	70	14.4%
Clearbrook	354	81	22.9%	22	6.2%	103	29.1%
Fort Lewis	235	40	17.0%	10	4.3%	50	21.3%
Glen Cove	433	87	20.1%	39	9.0%	126	29.1%
Glenvar	402	122	30.4%	30	7.5%	152	37.8%
Green Valley	506	138	27.3%	44	8.7%	182	36.0%
Herman L. Horn	423	177	41.8%	38	9.0%	215	50.8%
Mason's Cove	234	64	27.4%	15	6.4%	79	33.8%
Mountain View	381	94	24.7%	28	7.4%	122	32.0%
Mt. Pleasant	348	106	30.5%	27	7.8%	133	38.2%
Oak Grove	459	137	29.9%	19	4.1%	156	34.0%
Penn Forest	460	64	13.9%	12	2.6%	76	16.5%
W.E. Cundiff	540	176	32.6%	39	7.2%	215	39.8%
Middle Schools							
Cave Spring	771	108	14.0%	20	2.6%	128	16.6%
Glenvar	433	95	21.9%	20	4.6%	115	26.6%
Hidden Valley	596	76	12.8%	32	5.4%	108	18.1%
Northside	676	179	26.5%	51	7.5%	230	34.0%
William Byrd	805	190	23.6%	54	6.7%	244	30.3%
High Schools							
Cave Spring	1,027	113	11.0%	27	2.6%	140	13.6%
Glenvar	564	77	13.7%	28	5.0%	105	18.6%
Hidden Valley	953	94	9.9%	30	3.2%	124	13.0%
Northside	1,041	240	23.1%	60	5.8%	300	28.8%
William Byrd	1,144	205	17.9%	53	4.6%	258	22.6%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Roanoke County Public Schools free and reduced lunch eligibility, 2016-2017

	SNAP membership	Free lunch eligible # %	Reduced lunch eligible # %	Total F/R lunch eligible # %
Elementary Schools				
Back Creek	307	23 7.5%	10 3.3%	33 10.8%
Bonsack	397	34 8.6%	3 0.8%	37 9.3%
Burlington	454	212 46.7%	35 7.7%	247 54.4%
Cave Spring	486	56 11.5%	21 4.3%	77 15.8%
Clearbrook	345	88 25.5%	26 7.5%	114 33.0%
Fort Lewis	239	38 15.9%	16 6.7%	54 22.6%
Glen Cove	459	96 20.9%	34 7.4%	130 28.3%
Glenvar	393	100 25.5%	26 6.6%	126 32.1%
Green Valley	508	116 22.8%	50 9.8%	166 32.7%
Herman L. Horn	429	172 40.1%	35 8.2%	207 48.3%
Mason's Cove	222	52 23.4%	21 9.5%	73 32.9%
Mountain View	361	86 23.8%	26 7.2%	112 31.0%
Mt. Pleasant	316	103 32.6%	21 6.7%	124 39.2%
Oak Grove	467	131 28.1%	28 6.0%	159 34.1%
Penn Forest	470	68 14.5%	14 3.0%	82 17.5%
W.E. Cundiff	542	158 29.2%	40 7.4%	198 36.5%
Middle Schools				
Cave Spring	756	93 12.3%	33 4.4%	126 16.7%
Glenvar	451	90 20.0%	27 6.0%	117 25.9%
Hidden Valley	580	80 13.8%	28 4.8%	108 18.6%
Northside	675	195 28.9%	55 8.2%	250 37.0%
William Byrd	810	196 24.2%	59 7.3%	255 31.5%
High Schools				
Cave Spring	1,051	100 9.5%	34 3.2%	134 12.8%
Glenvar	569	81 14.2%	25 4.4%	106 18.6%
Hidden Valley	925	99 10.7%	32 3.5%	131 14.2%
Northside	1,028	227 22.1%	67 6.5%	294 28.6%
William Byrd	1,095	177 16.2%	53 4.8%	230 21.0%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Roanoke County Public Schools free and reduced lunch eligibility, 2017-2018

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Back Creek	310	53	17.1%	16	5.2%	69	22.3%
Bonsack	366	44	12.0%	11	3.0%	55	15.0%
Burlington	458	239	52.2%	47	10.3%	286	62.5%
Cave Spring	485	72	14.9%	17	3.5%	89	18.4%
Clearbrook	355	84	23.7%	29	8.2%	113	31.8%
Fort Lewis	254	52	20.5%	11	4.3%	63	24.8%
Glen Cove	478	111	23.2%	33	6.9%	144	30.1%
Glenvar	374	104	27.8%	21	5.6%	125	33.4%
Green Valley	522	140	26.8%	42	8.1%	182	34.9%
Herman L. Horn	392	180	45.9%	26	6.6%	206	52.6%
Mason's Cove	182	58	31.9%	18	9.9%	76	41.8%
Mountain View	357	111	31.1%	27	7.6%	138	38.7%
Mt. Pleasant	304	114	37.5%	21	6.9%	135	44.4%
Oak Grove	414	116	28.0%	18	4.4%	134	32.4%
Penn Forest	472	72	15.3%	16	3.4%	88	18.6%
W.E. Cundiff	527	206	39.1%	23	4.4%	229	43.5%
Middle Schools							
Cave Spring	760	127	16.7%	25	3.3%	152	20.0%
Glenvar	434	95	21.9%	27	6.2%	122	28.1%
Hidden Valley	595	113	19.0%	28	4.7%	141	23.7%
Northside	660	222	33.6%	55	8.3%	277	42.0%
William Byrd	847	256	30.2%	46	5.4%	302	35.7%
High Schools							
Cave Spring	1,022	150	14.7%	34	3.3%	184	18.0%
Glenvar	583	109	18.7%	26	4.5%	135	23.2%
Hidden Valley	880	119	13.5%	27	3.1%	146	16.6%
Northside	997	287	28.8%	67	6.7%	354	35.5%
William Byrd	1,049	248	23.6%	46	4.4%	294	28.0%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Roanoke City Public Schools free and reduced lunch eligibility, 2015-2016

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Crystal Spring	327	48	14.7%	4	1.2%	52	15.9%
Fairview	463	462	99.8%	0	0.0%	462	99.8%
Fallon Park	659	658	99.9%	0	0.0%	658	99.9%
Fishburn Park	287	147	51.2%	26	9.1%	173	60.3%
Garden City	310	309	99.7%	0	0.0%	309	99.7%
Grandin Court	335	87	26.0%	18	5.4%	105	31.3%
Highland Park	351	350	99.7%	0	0.0%	350	99.7%
Hurt Park	401	400	99.8%	0	0.0%	400	99.8%
Lincoln Terrace	337	336	99.7%	0	0.0%	336	99.7%
Monterey	575	574	99.8%	0	0.0%	574	99.8%
Morningside	301	300	99.7%	0	0.0%	300	99.7%
Preston Park	482	481	99.8%	0	0.0%	481	99.8%
Roanoke Acad. Math/Science	467	466	99.8%	0	0.0%	466	99.8%
Round Hill	619	618	99.8%	0	0.0%	618	99.8%
Virginia Heights	383	382	99.7%	0	0.0%	382	99.7%
Wasena	247	132	53.4%	21	8.5%	153	61.9%
Westside	832	830	99.8%	0	0.0%	830	99.8%
Middle Schools							
Lucy Addison	582	581	99.8%	0	0.0%	581	99.8%
Aerospace Magnet							
Breckinridge	579	578	99.8%	0	0.0%	578	99.8%
James Madison	631	331	52.5%	21	3.3%	352	55.8%
Stonewall Jackson	591	590	99.8%	0	0.0%	590	99.8%
Woodrow Wilson	472	235	49.8%	31	6.6%	266	56.4%
High Schools							
Patrick Henry	1,878	960	51.1%	143	7.6%	1,103	58.7%
William Fleming	1,460	1,457	99.8%	0	0.0%	1,457	99.8%
Other Schools							
Forest Park Academy	126	126	100.0%	0	0.0%	126	100.0%
Noel C. Taylor Academy- Oakland	83	83	100.0%	0	0.0%	83	100.0%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Roanoke City Public Schools free and reduced lunch eligibility, 2016-2017

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
Crystal Spring	343	54	15.7%	12	3.5%	66	19.2%
Fairview	533	532	99.8%	0	0.0%	532	99.8%
Fallon Park	643	642	99.8%	0	0.0%	642	99.8%
Fishburn Park	342	183	53.5%	37	10.8%	220	64.3%
Garden City	286	286	100.0%	0	0.0%	286	100.0%
Grandin Court	350	83	23.7%	19	5.4%	102	29.1%
Highland Park	362	361	99.7%	0	0.0%	361	99.7%
Hurt Park	390	389	99.7%	0	0.0%	389	99.7%
Lincoln Terrace	299	298	99.7%	0	0.0%	298	99.7%
Monterey	584	583	99.8%	0	0.0%	583	99.8%
Morningside	303	302	99.7%	0	0.0%	302	99.7%
Preston Park	507	506	99.8%	0	0.0%	506	99.8%
Roanoke Acad. Math/Science	431	430	99.8%	0	0.0%	430	99.8%
Round Hill	623	622	99.8%	0	0.0%	622	99.8%
Virginia Heights	330	329	99.7%	0	0.0%	329	99.7%
Wasena	237	127	53.6%	8	3.4%	135	57.0%
Westside	761	760	99.9%	0	0.0%	760	99.9%
Middle Schools							
Lucy Addison	599	598	99.8%	0	0.0%	598	99.8%
Aerospace Magnet							
Breckinridge	566	565	99.8%	0	0.0%	565	99.8%
James Madison	596	305	51.2%	24	4.0%	329	55.2%
Stonewall Jackson	577	576	99.8%	0	0.0%	576	99.8%
Woodrow Wilson	456	215	47.2%	24	5.3%	239	52.4%
High Schools							
Patrick Henry	1,850	935	50.5%	94	5.1%	1,029	55.6%
William Fleming	1,427	1,425	99.9%	0	0.0%	1,425	99.9%
Other Schools							
Forest Park Academy	115	115	100.0%	0	0.0%	115	100.0%
Noel C. Taylor Academy- Oakland	81	81	100.0%	0	0.0%	81	100.0%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Roanoke City Public Schools free and reduced lunch eligibility, 2017-2018

	SNAP membership	Free lunch eligible # %	Reduced lunch eligible # %	Total F/R lunch eligible # %
Elementary Schools				
Crystal Spring	343	58 16.9%	10 2.9%	68 19.8%
Fairview	561	560 99.8%	0 0.0%	560 99.8%
Fallon Park	673	672 99.9%	0 0.0%	672 99.9%
Fishburn Park	333	167 50.2%	32 9.6%	199 59.8%
Garden City	288	288 100.0%	0 0.0%	288 100.0%
Grandin Court	345	96 27.8%	15 4.4%	111 32.2%
Highland Park	360	359 99.7%	0 0.0%	359 99.7%
Hurt Park	366	365 99.7%	0 0.0%	365 99.7%
Lincoln Terrace	355	354 99.7%	0 0.0%	354 99.7%
Monterey	499	498 99.8%	0 0.0%	498 99.8%
Morningside	284	284 100.0%	0 0.0%	284 100.0%
Preston Park	531	530 99.8%	0 0.0%	530 99.8%
Roanoke Acad. Math/Science	473	472 99.8%	0 0.0%	472 99.8%
Round Hill	694	693 99.9%	0 0.0%	693 99.9%
Virginia Heights	333	332 99.7%	0 0.0%	332 99.7%
Wasena	225	121 53.8%	11 4.9%	132 58.7%
Westside	755	754 99.9%	0 0.0%	754 99.9%
Middle Schools				
Lucy Addison	586	585 99.8%	0 0.0%	585 99.8%
Aerospace Magnet				
Breckinridge	611	610 99.8%	0 0.0%	610 99.8%
James Madison	569	310 54.5%	17 3.0%	327 57.5%
Stonewall Jackson	548	547 99.8%	0 0.0%	547 99.8%
Woodrow Wilson	485	262 54.0%	30 6.2%	292 60.2%
High Schools				
Patrick Henry	1,747	1,059 60.6%	92 5.3%	1,151 65.9%
William Fleming	1,466	1,464 99.9%	0 0.0%	1,464 99.9%
Other Schools				
Forest Park Academy	99	99 100.0%	0 0.0%	99 100.0%
Noel C. Taylor Academy- Oakland	87	87 100.0%	0 0.0%	87 100.0%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Salem City Public Schools free and reduced lunch eligibility, 2015-2016

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
East Salem	439	170	38.7%	30	6.8%	200	45.6%
G.W. Carver	464	179	38.6%	35	7.5%	214	46.1%
South Salem	399	77	19.3%	22	5.5%	99	24.8%
West Salem	394	57	14.5%	28	7.1%	85	21.6%
Middle Schools							
Andrew Lewis	902	218	24.2%	71	7.9%	289	32.0%
High Schools							
Salem	1,184	205	17.3%	50	4.2%	255	21.5%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Salem City Public Schools free and reduced lunch eligibility, 2016-2017

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
East Salem	415	162	39.0%	35	8.4%	197	47.5%
G.W. Carver	462	211	45.7%	38	8.2%	249	53.9%
South Salem	401	84	21.0%	28	7.0%	112	27.9%
West Salem	428	77	18.0%	24	5.6%	101	23.6%
Middle Schools							
Andrew Lewis	914	238	26.0%	54	5.9%	292	32.0%
High Schools							
Salem	1,198	216	18.0%	79	6.6%	295	24.6%
Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports http://www.doe.virginia.gov/support/nutrition/statistics/							

Salem City Public Schools free and reduced lunch eligibility, 2017-2018

	SNAP membership	Free lunch eligible		Reduced lunch eligible		Total F/R lunch eligible	
		#	%	#	%	#	%
Elementary Schools							
East Salem	451	190	42.1%	33	7.3%	223	49.5%
G.W. Carver	438	193	44.1%	44	10.1%	237	54.1%
South Salem	418	128	30.6%	21	5.0%	149	35.7%
West Salem	444	112	25.2%	23	5.2%	135	30.4%
Middle Schools							
Andrew Lewis	924	252	27.3%	62	6.7%	314	34.0%
High Schools							
Salem	1,290	313	24.3%	80	6.2%	393	30.5%

Virginia Department of Education National School Lunch Program Free and Reduced Price Eligibility Reports
<http://www.doe.virginia.gov/support/nutrition/statistics/>

Children living in single parent households, by race/ethnicity

Geography	Total children living in single parent households	White	Black / African American	Hispanic or Latino
Virginia	27.2%	19.5%	55.5%	28.4%
Bedford County	18.5%	17.3%	36.7%	26.1%
Botetourt County	18.2%	17.7%	26.2%	23.9%
Craig County	22.8%	22.9%	0.0%	18.2%
Franklin County	28.6%	25.5%	60.7%	28.4%
Roanoke County	21.9%	20.0%	48.5%	27.2%
Roanoke City	49.5%	34.3%	71.1%	45.5%
Salem City	32.7%	34.3%	74.7%	33.7%

U.S. Census Bureau, 2010 Census Summary File 1, Table P31, P31A, P31B, P31H
https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=DEC_10_SF1_P31&prodType=table

Families living in poverty

Geography	Families living in poverty	Families living in poverty with related children under 18 years	Female head of household with related children under 18 years living in poverty
Virginia	8.1%	12.8%	34.2%
Bedford County	6.7%	10.6%	31.6%
Botetourt County	5.8%	11.0%	30.7%
Craig County	6.8%	15.7%	54.2%
Franklin County	10.4%	18.5%	44.5%
Roanoke County	5.6%	9.5%	25.3%
Roanoke City	18.4%	30.9%	49.5%
Salem City	7.3%	13.8%	26.8%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1701

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S1702&prodType=table

Grandparents living with grandchildren who are responsible for their grandchildren with no parent of the grandchild present

Geography	Pct.
Virginia	12.9%
Bedford County	10.3%
Botetourt County	29.2%
Craig County	25.0%
Franklin County	21.7%
Roanoke County	30.6%
Roanoke City	27.0%
Salem City	8.6%

U.S. Census Bureau, 2012-2016 5-year estimates, American Community Survey, Table S1002

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_S1002&prodType=table

Cost-burdened renters and homeowners, 2015

Geography	Renters	Homeowners
Roanoke Metro Area	41.5%	19.9%
Lynchburg Metro Area	50.3%	15.2%

Harvard Joint Center for Housing Studies

<http://harvard-cga.maps.arcgis.com/apps/MapSeries/index.html?appid=6177d472b7934ad9b38736432ace1acb>

Consumer opportunity profile

Geography	Residents living in census tracts with <i>low to very low</i> Consumer Opportunity Scores	Residents living in census tracts with <i>high to very high</i> Consumer Opportunity Scores
Bedford County	24%	30%
Botetourt County	0%	31%
Craig County	0%	0%
Franklin County	51%	13%
Roanoke County	20%	68%
Roanoke City	78%	14%
Salem City	42%	0%
Virginia Department of Health, Virginia Health Opportunity Index (2018) https://www.vdh.virginia.gov/omhhe/hoi/consumer-opportunity-profile		

Economic opportunity profile

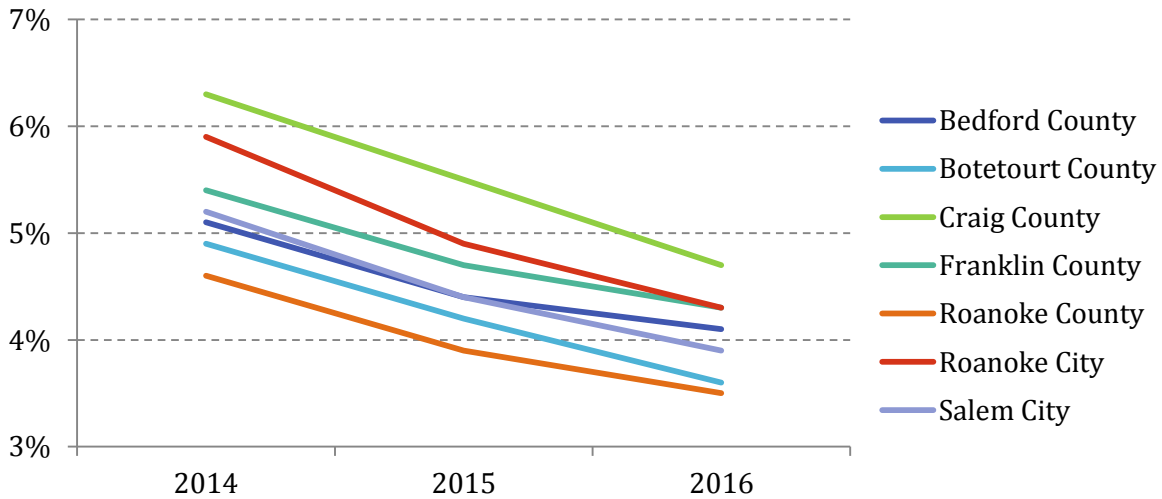
Geography	Residents living in census tracts with <i>low to very low</i> Economic Opportunity Scores	Residents living in census tracts with <i>high to very high</i> Economic Opportunity Scores
Bedford County	45%	18%
Botetourt County	48%	35%
Craig County	0%	0%
Franklin County	100%	0%
Roanoke County	34%	20%
Roanoke City	47%	20%
Salem City	81%	0%
Virginia Department of Health, Virginia Health Opportunity Index (2018) https://www.vdh.virginia.gov/omhhe/hoi/consumer-opportunity-profile		

Unemployment rate

Geography	2014	2015	2016
United States	6.2%	5.3%	4.9%
Virginia	5.2%	4.5%	4.0%
Bedford County	5.1%	4.4%	4.1%
Botetourt County	4.9%	4.2%	3.6%
Craig County	6.3%	5.5%	4.7%
Franklin County	5.4%	4.7%	4.3%
Roanoke County	4.6%	3.9%	3.5%
Roanoke City	5.9%	4.9%	4.3%
Salem City	5.2%	4.4%	3.9%

U.S. Census Bureau, Virginia Employment Commission Community Profiles (2018)
<https://data.virginialmi.com/gsipub/index.asp?docid=342>

Unemployment rate, Roanoke MSA 2014-2016



Rate of child abuse and neglect, 2012-2013

Geography	Completed child abuse and neglect cases per 1,000 children	
	2012	2013
Bedford County	4.0	2.5
Botetourt County	2.2	3.1
Craig County	0.0	1.7
Franklin County	0.6	3.5
Roanoke County	2.6	2.2
Roanoke City	5.4	8.5
Salem City	0.0	0.0

Virginia Department of Social Services, Child protective Reports and Studies
https://www.dss.virginia.gov/geninfo/reports/children/cps/all_other.cgi

Child abuse and neglect cases, count, 2017

Geography	
Virginia	9,578
Bedford County	51
Botetourt County	9
Craig County	15
Franklin County	150
Roanoke County	60
Roanoke City	398
Salem City	0

2017 case counts may be from incomplete cases.
 Virginia Department of Social Services, Child protective Reports and Studies
https://www.dss.virginia.gov/geninfo/reports/children/cps/all_other.cgi

Roanoke City Crime

Part 1 incidents, 2015

Offense	Number of incidents				
	Zone 1: SE	Zone 2: NE	Zone 3: SW	Zone 4: NW	Citywide total
Aggravated assault	30	26	24	57	137
DV aggravated assault	10	11	18	21	60
Homicide	1	3	2	5	11
Rape	4	5	7	12	28
Robbery	15	12	13	27	67
<i>Violent subtotal</i>	60	57	64	122	303
Burglary	112	92	104	144	452
Larceny	737	1142	623	717	3219
Motor vehicle theft	51	49	34	51	185
Arson	7	3	3	10	23
<i>Property subtotal</i>	907	1286	764	922	3879
Total	967	1343	828	1044	4182
Roanoke City Police Department					

Part 1 incidents, 2016

Offense	Number of incidents				
	Zone 1: SE	Zone 2: NE	Zone 3: SW	Zone 4: NW	Citywide total
Aggravated assault	33	27	25	76	161
DV aggravated assault	23	15	8	16	62
Homicide	2	5	1	4	12
Rape	5	6	7	8	26
Robbery	31	27	19	40	117
<i>Violent subtotal</i>	94	80	60	144	378
Burglary	130	79	81	137	427
Larceny	876	1262	663	815	3616
Motor vehicle theft	58	63	38	63	221
Arson	14	4	4	7	29
<i>Property subtotal</i>	1078	1408	786	1022	4293
Total	1172	1488	846	1166	4671
Roanoke City Police Department					

Part 1 incidents, 2017

Offense	Number of incidents				
	Zone 1: SE	Zone 2: NE	Zone 3: SW	Zone 4: NW	Citywide total
Aggravated assault	28	29	25	78	160
DV aggravated assault	6	16	17	25	64
Homicide	3	2	2	9	16
Rape	6	5	3	7	21
Robbery	12	20	13	35	80
<i>Violent subtotal</i>	55	72	60	154	341
Burglary	135	101	85	172	493
Larceny	971	1214	611	987	3783
Motor vehicle theft	63	85	39	102	289
Arson	10	1	2	13	26
<i>Property subtotal</i>	1179	1401	737	1274	4591
Total	1234	1473	797	1428	4932
Roanoke City Police Department					

Domestic incidents, 2015

Offense	Number of incidents				
	Zone 1: SE	Zone 2: NE	Zone 3: SW	Zone 4: NW	Citywide total
Domestic aggravated assault	10	11	18	21	60
Domestic simple assault	326	292	277	569	1464
Roanoke City Police Department					

Domestic incidents, 2016

Offense	Number of incidents				
	Zone 1: SE	Zone 2: NE	Zone 3: SW	Zone 4: NW	Citywide total
Domestic aggravated assault	23	15	8	16	62
Domestic simple assault	328	315	292	529	1464
Roanoke City Police Department					

Domestic incidents, 2017

Offense	Number of incidents				
	Zone 1: SE	Zone 2: NE	Zone 3: SW	Zone 4: NW	Citywide total
Domestic aggravated assault	6	16	17	25	64
Domestic simple assault	319	323	256	609	1507
Roanoke City Police Department					

Roanoke City drug incidents

Incident	Number of incidents		
	2015	2016	2017
Drug / Narcotics violations	1077	1122	1372
Drug equipment violations	242	256	161
Heroin seized incidents	320	423	356

Both drug violation categories are counts of offenses, not incidents. Some incidents may have multiple offenses. Heroin seized is a count of incidents in which heroin was seized, not the offenses.
Roanoke City Police Department

Health Behaviors

No leisure time physical activity

Geography	2012	2013	2014
Virginia	22%	21%	22%
Bedford County	23%	24%	24%
Botetourt County	24%	22%	24%
Craig County	24%	23%	23%
Franklin County	23%	22%	24%
Roanoke County	25%	26%	27%
Roanoke City	26%	26%	26%
Salem City	23%	21%	22%

2016 County Health Rankings, 2012 CDC Diabetes Interactive Atlas
2017 County Health Rankings, 2013 CDC Diabetes Interactive Atlas
2018 County Health Rankings, 2014 CDC Diabetes Interactive Atlas
<http://www.countyhealthrankings.org/app/virginia/2017/downloads>

Access to recreational facilities

Geography	2012		2014	
	#	Facilities / 1,000	#	Facilities / 1,000
Bedford County	5	0.07	4	0.05
Botetourt County	3	0.09	2	0.06
Craig County	0	0.00	0	0.00
Franklin County	5	0.09	7	0.12
Roanoke County	14	0.15	17	0.18
Roanoke City	9	0.09	11	0.11
Salem City	3	0.12	3	0.12

USDA Food Environment Atlas: Data Access and Documentation Downloads
<https://www.ers.usda.gov/data-products/food-environment-atlas/data-access-and-documentation-downloads/>

Fast food restaurants rate

Geography	Fast food restaurants per 1,000	
	2012	2014
Bedford County	0.27	0.26
Botetourt County	0.54	0.57
Craig County	0.00	0.00
Franklin County	0.50	0.46
Roanoke County	0.55	0.57
Roanoke City	1.00	0.89
Salem City	1.20	1.18
USDA Food Environment Atlas: Data Access and Documentation Downloads https://www.ers.usda.gov/data-products/food-environment-atlas/data-access-and-documentation-downloads/		

Low income and low access to store

Geography	2010	2015
Bedford County	1.8%	1.7%
Botetourt County	2.9%	8.4%
Craig County	4.2%	4.3%
Franklin County	7.1%	6.5%
Roanoke County	2.9%	3.3%
Roanoke City	10.7%	7.7%
Salem City	11.1%	11.6%
USDA Food Environment Atlas: Data Access and Documentation Downloads https://www.ers.usda.gov/data-products/food-environment-atlas/data-access-and-documentation-downloads/		

Low income and low access to store, by census tract, 2015

Census Tract	Population	Low access to a supermarket or large grocery store		Total population that is low-income and has low access to a supermarket or large grocery store	
		#	%	#	%
NW Census Tract 1	3,794	546	14.4%	139	3.7%
NW Census Tract 9	5,361	0	0.0%	0	0.0%
NW Census Tract 10	2,192	352	16.1%	290	13.2%
NW Census Tract 11	1,204	1116	92.7%	299	24.8%
NW Census Tract 23	6,971	685	9.8%	379	5.4%
NW Census Tract 24	3,816	0	0.0%	0	0.0%
NW Census Tract 25	5,641	2688	47.7%	1866	33.1%
SE Census Tract 26	3,215	1124	35.0%	755	23.5%
SE Census Tract 27	5,395	956	17.7%	601	11.1%
Northern Botetourt Census Tract 401	3,498	3498	100.0%	1249	35.7%
Northern Botetourt Census Tract 402	4,294	4294	100.0%	1186	27.6%

USDA Food Access Research Atlas

<https://www.ers.usda.gov/data-products/food-access-research-atlas/download-the-data/>

Flu vaccination, 2014

Geography	
Virginia	43.5%
Bedford County	47.7%
Botetourt County	46.2%
Craig County	63.8%
Franklin County	43.9%
Roanoke County	48.9%
Roanoke City	42.9%
Salem City	48.1%

Virginia Department of Health

Behavioral Risk Factor Surveillance System, Small Area Estimation

<http://www.vdh.virginia.gov/data/health-behavior/>

Adolescents (Ages 13-17) who receive three doses of HPV vaccine

Geography	Girls		Boys	
	2014	2015	2014	2015
Virginia	35.9%	38.5%	22.5%	25.7%

Virginia Department of Health, Virginia Plan for Well-Being

<https://virginiawellbeing.com/measures/>

Cancer screenings, 2014

Geography	Women with no Pap test in the past 3 years	Women 40 and older with no mammogram in past 2 years	Adults 50 and older with no sigmoidoscopy or colonoscopy
Virginia	20.5%	25.0%	28.0%
Southwestern Region	29.6%	30.0%	32.8%
Alleghany Health District	--	35.0%	28.2%
West Piedmont Health District	--	--	34.3%
Central Virginia Health District	--	24.0%	28.4%

Virginia Department of Health, Behavioral Risk Factor Surveillance System
<http://www.vdh.virginia.gov/brfss/data/>

Sexually transmitted infection rate

Geography	Sexually transmitted infections per 100,000					
	2014			2015		
	Early Syphilis	Gonorrhea	Chlamydia	Early Syphilis	Gonorrhea	Chlamydia
Virginia	6.8	97.6	423.3	10.3	103.5	436.4
Bedford County	3.9	57.5	135.8	1.3	20.9	161.9
Botetourt County	6.0	24.2	151.1	0.0	21.1	154.1
Craig County	0.0	57.3	38.2	0.0	0.0	133.7
Franklin County	7.1	95.8	260.8	3.5	46.1	220.0
Roanoke County	10.7	60.8	249.5	3.2	57.6	205.8
Roanoke City	14.1	245.4	620.5	16.1	216.2	749.3
Salem City	3.9	51.0	223.7	23.5	51.0	239.4

Virginia Department of Health, Sexually Transmitted Infections
<http://www.vdh.virginia.gov/data/sexually-transmitted-infections/>

Late to no prenatal care rate, 2014

Geography	Late to no prenatal care per 1,000 live births
Virginia	28.0
Bedford County	6.2
Botetourt County	0.0
Craig County	27.0
Franklin County	4.1
Roanoke County	1.3
Roanoke City	4.8
Salem City	3.1

Virginia Department of Health, Statistical Reports and Tables
<http://www.vdh.virginia.gov/HealthStats/stats.htm>

Birth rate, by race

Geography	Live births per 1,000							
	2014				2015			
	Total	White	Black	Other	Total	White	Black	Other
Virginia	12.3	10.8	12.4	26.4	12.3	10.7	12.3	26.6
Bedford County	8.4	8.3	8.4	10.2	8.2	8.1	7.7	16.9
Botetourt County	7.1	7.3	2.4	8.2	7.0	7	3.9	10.3
Craig County	7.1	7.1	--	--	8.4	8.5	--	--
Franklin County	8.7	8.9	6.2	16.1	9.5	9.9	5.9	6.8
Roanoke County	8.3	7.9	10.8	14.6	8.0	7.6	10.4	13.6
Roanoke City	14.5	14	14.8	24.3	15.2	15.6	14.2	17.8
Salem City	12.5	12.3	8.9	29.8	13.2	13.2	11.1	17.5

Virginia Department of Health, Statistical Reports and Tables
<http://www.vdh.virginia.gov/HealthStats/stats.htm>

Teen pregnancy rate, by race, 2015

Geography	Teen pregnancies per 1,000 females ages 10-19			
	Total	White	Black	Other
Virginia	12.0	8.9	17.5	21.4
Bedford County	7.7	7.3	10.8	14.5
Botetourt County	9.2	9.7	--	--
Craig County	10.6	10.7	--	--
Franklin County	12.6	12.9	12.2	--
Roanoke County	5.4	4.8	7.6	11.2
Roanoke City	31.8	33.5	29.1	39.6
Salem City	11	9.4	17.1	52.6

Virginia Department of Health, Statistical Reports and Tables
<http://www.vdh.virginia.gov/HealthStats/stats.htm>

Adult smoking

Geography	2014	2015	2016
Virginia	20%	17%	15%
Bedford County	16%	15%	15%
Botetourt County	15%	14%	14%
Craig County	17%	16%	17%
Franklin County	17%	17%	17%
Roanoke County	18%	16%	15%
Roanoke City	21%	19%	19%
Salem City	17%	16%	15%

2016 County Health Rankings, 2014 Behavioral Risk Factor Surveillance System
 2017 County Health Rankings, 2015 Behavioral Risk Factor Surveillance System
 2018 County Health Rankings, 2016 Behavioral Risk Factor Surveillance System
<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

ED heroin overdose rate

Geography	Overdoses per 100,000	
	2015	2016
Virginia	9.5	16.7
Bedford County	1.3	5.1
Botetourt County	3.0	3.0
Craig County	0.0	0.0
Franklin County	0.0	10.7
Roanoke County	13.8	14.9
Roanoke City	32.0	42.1
Salem City	15.7	39.1
Virginia Department of Health http://www.vdh.virginia.gov/data/opioid-overdose/		

ED opioid overdose rate

Geography	Overdoses per 100,000	
	2015	2016
Virginia	87.4	103.5
Bedford County	65.6	88.5
Botetourt County	60.0	102.3
Craig County	76.8	116.3
Franklin County	90.6	148.0
Roanoke County	95.3	102.1
Roanoke City	196.2	260.9
Salem City	208.4	195.7
Virginia Department of Health http://www.vdh.virginia.gov/data/opioid-overdose/		

Fatal prescription opioid overdose rate

Geography	Fatal overdoses per 100,000		
	2014	2015	2016
Virginia	6.0	4.7	5.5
Bedford County	7.8	5.1	2.6
Botetourt County	6.0	6.0	6.0
Craig County	0.0	0.0	0.0
Franklin County	8.9	3.6	14.3
Roanoke County	8.5	2.1	4.3
Roanoke City	10.1	8.0	4.0
Salem City	7.8	7.9	3.9

Virginia Department of Health

<http://www.vdh.virginia.gov/data/opioid-overdose/>

Fatal fentanyl and/or heroin overdose rate

Geography	Fatal overdoses per 100,000		
	2014	2015	2016
Virginia	4.2	5.6	9.6
Bedford County	1.3	1.3	1.3
Botetourt County	9.1	3.0	3.0
Craig County	0.0	0.0	19.4
Franklin County	3.5	1.8	3.6
Roanoke County	9.6	5.3	11.7
Roanoke City	8.0	14.0	7.0
Salem City	15.7	0.0	15.7

Virginia Department of Health

<http://www.vdh.virginia.gov/data/opioid-overdose/>

EMS Narcan use rate

Geography	EMS Narcan use per 100,000		
	2014	2015	2016
Virginia	26.0	33.9	48.5
Bedford County	0.0	16.7	19.2
Botetourt County	21.1	45.0	27.1
Craig County	19.1	0.0	38.8
Franklin County	19.5	12.4	21.4
Roanoke County	34.1	27.5	48.9
Roanoke City	65.4	86.1	117.4
Salem City	78.5	39.3	39.1

Virginia Department of Health

<http://www.vdh.virginia.gov/data/opioid-overdose/>

Clinical Care

Health insurance status

Geography	Medicaid		Medicare		Private	
	#	%	#	%	#	%
Virginia	865,073	10.9%	1,180,282	14.8%	5,944,729	74.6%
Bedford County	7,058	9.4%	15,513	20.7%	56,820	75.7%
Botetourt County	2,443	7.4%	6,668	20.3%	27,091	82.6%
Craig County	693	13.4%	1,257	24.2%	3,514	67.7%
Franklin County	8,076	14.4%	12,765	22.8%	37,586	67.1%
Roanoke County	8,366	9.1%	17,827	19.5%	73,080	79.7%
Roanoke City	18,750	19.4%	17,529	18.1%	56,371	58.3%
Salem City	1,901	7.7%	4,203	17.1%	18,846	76.8%

U.S. Census Bureau, 2010-2014 5-year estimates, American Community Survey, Table S2701

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_14_5YR_S2701&prodType=table

Geography	Direct-Purchase		Employer Based		Uninsured	
	#	%	#	%	#	%
Virginia	1,042,552	13.1%	4,799,029	60.2%	968,444	12.1%
Bedford County	12,490	16.6%	46,075	61.3%	7,276	9.7%
Botetourt County	5,705	17.4%	22,547	68.8%	1,829	5.6%
Craig County	748	14.4%	2,955	57.0%	653	12.6%
Franklin County	10,970	19.6%	27,943	49.9%	7,613	13.6%
Roanoke County	14,758	16.1%	60,563	66.1%	6,378	7.0%
Roanoke City	11,405	11.8%	46,140	47.7%	16,221	16.8%
Salem City	3,535	14.4%	16,022	65.3%	2,756	11.2%

U.S. Census Bureau, 2010-2014 5-year estimates, American Community Survey, Table S2701

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_14_5YR_S2701&prodType=table

Less than 200% FPL health insurance status by age, Virginia, 2016

	< 18 years old		18-64 years old		65+ years old		All ages	
	#	%	#	%	#	%	#	%
With health insurance	542,282	91.8%	855,485	71.9%	270,731	98.5%	1,668,498	81.1%
Employer-based health insurance	139,623	23.6%	396,090	33.3%	53,006	19.3%	588,719	28.6%
Direct-purchase health insurance	34,132	5.8%	186,992	15.7%	89,270	32.5%	310,394	15.1%
Medicare	9,488	1.6%	92,184	7.7%	264,239	96.1%	365,911	17.8%
Medicaid	365,483	61.8%	249,778	21.0%	54,746	19.9%	670,007	32.6%
No health insurance	48,744	8.2%	334,968	28.1%	4,164	1.5%	387,876	18.9%
Total number <200% FPL	591,026		1,190,453		274,895		2,056,374	

U.S. Census Bureau, 2016 1-year estimates, American Community Survey, Table B27016

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_1YR_B27016&prodType=table

Less than 200% FPL health insurance status by age, Bedford County, 2016

	< 18 years old		18-64 years old		65+ years old		All ages	
	#	%	#	%	#	%	#	%
With health insurance	5,154	97.4%	7,976	78.3%	4,337	100.0%	17,467	88.1%
Employer-based health insurance	1,208	22.8%	4,161	40.8%	896	20.7%	6,265	31.6%
Direct-purchase health insurance	57	1.1%	2,171	21.3%	1,693	39.0%	3,921	19.8%
Medicare	0	0.0%	1,074	10.5%	4,337	100.0%	5,411	27.3%
Medicaid	4,083	77.2%	2,059	20.2%	593	13.7%	6,735	34.0%
No health insurance	137	2.6%	2,213	21.7%	0	0.0%	2,350	11.9%
Total number <200% FPL	5,291		10,189		4,337		19,817	

U.S. Census Bureau, 2016 1-year estimates, American Community Survey, Table B27016

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_1YR_B27016&prodType=table

Less than 200% FPL health insurance status by age, Botetourt County, 2011-2013

	< 18 years old		18-64 years old		65+ years old		All ages	
	#	%	#	%	#	%	#	%
With health insurance	1,603	98.1%	2,874	78.3%	1,656	100.0%	6,133	88.1%
Employer-based health insurance	425	26.0%	1,483	40.1%	383	23.1%	2,291	32.9%
Direct-purchase health insurance	338	20.7%	485	13.2%	776	46.9%	1,599	23.0%
Medicare	35	2.1%	403	11.0%	1,656	100.0%	2,094	30.1%
Medicaid	884	54.1%	852	23.2%	234	14.1%	1,970	28.3%
No health insurance	31	1.9%	796	21.7%	0	0.0%	827	11.9%
Total number <200% FPL	1,634		3,670		1,656		6,960	

U.S. Census Bureau, 2011-2013 3-year estimates, American Community Survey, Table B27016

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_13_3YR_B27016&prodType=table

Less than 200% FPL health insurance status by age, Franklin County, 2011-2013

	< 18 years old		18-64 years old		65+ years old		All ages	
	#	%	#	%	#	%	#	%
With health insurance	4,697	94.0%	6,365	59.7%	3,444	100.0%	14,506	75.9%
Employer-based health insurance	828	16.6%	2,730	25.6%	670	19.5%	4,228	22.1%
Direct-purchase health insurance	154	3.1%	1,041	9.8%	1,381	40.1%	2,576	13.5%
Medicare	0	0.0%	1,286	12.1%	3,408	99.0%	4,694	24.6%
Medicaid	3,725	74.5%	2,022	19.0%	422	12.3%	6,169	32.3%
No health insurance	300	6.0%	4,304	40.3%	0	0.0%	4,604	24.1%
Total number <200% FPL	4,997		10,669		3,444		19,110	

U.S. Census Bureau, 2011-2013 3-year estimates, American Community Survey, Table B27016

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_13_3YR_B27016&prodType=table

Less than 200% FPL health insurance status by age, Roanoke County, 2016

	< 18 years old		18-64 years old		65+ years old		All ages	
	#	%	#	%	#	%	#	%
With health insurance	5,972	92.5%	10,145	81.4%	3,073	96.7%	19,190	86.9%
Employer-based health insurance	3,120	48.3%	6,781	54.4%	716	22.5%	10,617	48.1%
Direct-purchase health insurance	96	1.5%	1,519	12.2%	1,223	38.5%	2,838	12.8%
Medicare	0	0.0%	1,318	10.6%	3,073	96.7%	4,391	19.9%
Medicaid	3,175	49.2%	1,558	12.5%	235	7.4%	4,968	22.5%
No health insurance	481	7.5%	2,311	18.6%	104	3.3%	2,896	13.1%
Total number <200% FPL	6,453		12,456		3,177		22,086	

U.S. Census Bureau, 2016 1-year estimates, American Community Survey, Table B27016

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_1YR_B27016&prodType=table

Less than 200% FPL health insurance status by age, Roanoke City, 2016

	< 18 years old		18-64 years old		65+ years old		All ages	
	#	%	#	%	#	%	#	%
With health insurance	10,364	93.1%	16,626	64.0%	6,362	100.0%	33,352	76.7%
Employer-based health insurance	1,259	11.3%	7,570	29.1%	509	8.0%	9,338	21.5%
Direct-purchase health insurance	53	0.5%	2,110	8.1%	1,700	26.7%	3,863	8.9%
Medicare	0	0.0%	2,871	11.0%	6,295	98.9%	9,166	21.1%
Medicaid	8,552	76.8%	5,470	21.0%	955	15.0%	14,977	34.4%
No health insurance	768	6.9%	9,360	36.0%	0	0.0%	10,128	23.3%
Total number <200% FPL	11,132		25,986		6,362		43,480	

U.S. Census Bureau, 2016 1-year estimates, American Community Survey, Table B27016

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_1YR_B27016&prodType=table

Less than 200% FPL health insurance status by age, Salem City, 2011-2013

	< 18 years old		18-64 years old		65+ years old		All ages	
	#	%	#	%	#	%	#	%
With health insurance	1,832	94.1%	2,820	62.7%	980	97.2%	5,632	75.6%
Employer-based health insurance	828	42.5%	1,551	34.5%	147	14.6%	2,526	33.9%
Direct-purchase health insurance	28	1.4%	299	6.7%	495	49.1%	822	11.0%
Medicare	0	0.0%	192	4.3%	943	93.6%	1,135	15.2%
Medicaid	997	51.2%	762	16.9%	128	12.7%	1,887	25.3%
No health insurance	116	6.0%	1,679	37.3%	28	2.8%	1,823	24.5%
Total number <200% FPL	1,948		4,499		1,008		7,455	

U.S. Census Bureau, 2011-2013 3-year estimates, American Community Survey, Table B27016

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_13_3YR_B27016&prodType=table

Projected newly eligible for Medicaid through closing coverage gap, 2018

Geography

Bedford County	2,200
Botetourt County	700
Craig County	200
Franklin County	2,500
Roanoke County	1,600
Roanoke City	6,900
Salem City	1,000

The Commonwealth Institute

<http://www.thecommonwealthinstitute.org/>

2018/01/11/closing-the-coverage-gap-by-locality/

Roanoke MSA Health Professional Shortage Areas

Geography	MUA	Primary Care HPSA	Dental HPSA	Mental Health HPSA
Bedford County	Big Island	Big Island, Center, Peaks, Bedford County, Bedford	Bedford County and Bedford City, Bedford	Low Income-Central Virginia Service Area, Bedford
Botetourt County	Northern Botetourt	Northern Botetourt	Low income- Botetourt County North	Craig-Botetourt Counties
Craig County	Craig County	Craig County	Craig County	Craig-Botetourt Counties
Franklin County	Franklin Service Area	Franklin County	Low income- Franklin County	Low income- Piedmont Service Area
Roanoke County	None	None	Low income- Roanoke / Salem	Low income- Roanoke / Salem, Smh-Catawba Hospital
Roanoke City	Roanoke City Service Area, Northwest Roanoke City	Kuumba Community Health, Northwest Roanoke	Kuumba Community Health, Low income- Roanoke-Salem	Low income- Roanoke-Salem, Kuumba Community Health
Salem City	None	None	Low income- Roanoke / Salem	Low income- Roanoke-Salem

*Kuumba Community Health DBA New Horizons Healthcare
 Department of Health and Human Services, Health Resources and Services Administration Data Warehouse (2018)
<https://datawarehouse.hrsa.gov/tools/analyzers/HpsaFindResults.aspx>
<https://datawarehouse.hrsa.gov/tools/analyzers/MuaSearchResults.aspx>

People who could not see a doctor due to cost, 2014

Geography	
Bedford County	11.0%
Botetourt County	11.3%
Craig County	13.1%
Franklin County	12.8%
Roanoke County	9.6%
Roanoke City	15.7%
Salem City	14.3%
Virginia Department of Health, Behavioral Risk Factor Surveillance System http://www.vdh.virginia.gov/data/health-behavior/	

Adults with a regular healthcare provider, 2014

Geography	
Virginia	69.3%
Bedford County	78.5%
Botetourt County	88.8%
Craig County	90.8%
Franklin County	82.4%
Roanoke County	79.0%
Roanoke City	70.2%
Salem City	73.9%
Virginia Department of Health Behavioral Risk Factor Surveillance System, Small Area Estimation http://www.vdh.virginia.gov/data/health-behavior/	

Primary care provider population ratio, 2013

Geography	# PCPs	PCP Rate	PCP Ratio
Virginia	6,216	75	1,329:1
Bedford County	17	52	1,941:1
Botetourt County	49	70	1,425:1
Craig County	1	19	5,210:1
Franklin County	26	46	2,167:1
Roanoke County	116	124	806:1
Roanoke City	83	84	1,186:1
Salem City	35	138	723:1

Rates are per 1,000 population
 2016 County Health Rankings, 2013 Area Health Resource File, American Medical Association
<http://www.countyhealthrankings.org/app/virginia/2017/downloads>

Primary care provider population ratio, 2014

Geography	# PCPs	PCP Rate	PCP Ratio
Virginia	6,321	76	1,317:1
Bedford County	48	63	1,595:1
Botetourt County	19	57	1,742:1
Craig County	1	19	5,234:1
Franklin County	26	46	2,168:1
Roanoke County	116	124	808:1
Roanoke City	85	85	1,170:1
Salem City	40	157	637:1

Rates are per 1,000 population
 2017 County Health Rankings, 2014 Area Health Resource File, American Medical Association
<http://www.countyhealthrankings.org/app/virginia/2017/downloads>

Primary care provider population ratio, 2015

Geography	# PCPs	PCP Rate	PCP Ratio
Virginia	6,368	76	1,316:1
Bedford County	51	66	1,524:1
Botetourt County	18	54	1,853:1
Craig County	1	19	5,211:1
Franklin County	26	46	2,164:1
Roanoke County	114	121	828:1
Roanoke City	90	90	1,110:1
Salem City	34	134	748:1

Rates are per 1,000 population
 2018 County Health Rankings, 2015 Area Health Resource File, American Medical Association
<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

Mental health provider population ratio, 2015

Geography	# MHPs	MHP Rate	MHP Ratio
Virginia	10,814	130	770:1
Bedford County	24	31	3,191:1
Botetourt County	10	30	3,310:1
Craig County	--	--	--
Franklin County	10	18	5,636:1
Roanoke County	192	205	488:1
Roanoke City	201	202	495:1
Salem City	172	675	148:1

Rates are per 1,000 population
 2016 County Health Rankings, 2015 CMS, National Provider Identification File
<http://www.countyhealthrankings.org/app/virginia/2017/downloads>

Mental health provider population ratio, 2016

Geography	# MHPs	MHP Rate	MHP Ratio
Virginia	11,479	137	730:1
Bedford County	25	32	3,109:1
Botetourt County	13	39	2,565:1
Craig County	--	--	--
Franklin County	12	21	4,689:1
Roanoke County	203	215	465:1
Roanoke City	213	213	469:1
Salem City	175	688	145:1

Rates are per 1,000 population
 2017 County Health Rankings, 2016 CMS, National Provider Identification File
<http://www.countyhealthrankings.org/app/virginia/2017/downloads>

Mental health provider population ratio, 2017

Geography	# MHPs	MHP Rate	MHP Ratio
Virginia	12,294	146	684:1
Bedford County	28	36	2,784:1
Botetourt County	13	39	2,556:1
Craig County	--	--	--
Franklin County	20	36	2,803:1
Roanoke County	211	224	446:1
Roanoke City	229	230	435:1
Salem City	178	697	144:1

Rates are per 1,000 population
 2018 County Health Rankings, 2017 CMS, National Provider Identification File
<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

Dentist population ratio, 2014

Geography	# Dentist	Dentist Rate	Dentist Ratio
Virginia	5,303	64	1,570:1
Bedford County	11	16	6,348:1
Botetourt County	8	24	4,138:1
Craig County	3	57	1,745:1
Franklin County	10	18	5,636:1
Roanoke County	79	84	1,187:1
Roanoke City	65	65	1,530:1
Salem City	31	122	822:1

Rates are per 1,000 population
 2016 County Health Rankings, 2014 Area Health Resource File, National Provider Identification File
<http://www.countyhealthrankings.org/app/virginia/2017/downloads>

Dentist population ratio, 2015

Geography	# Dentists	Dentist Rate	Dentist Ratio
Virginia	5,465	65	1,534:1
Bedford County	19	24	4,091:1
Botetourt County	9	27	3,705:1
Craig County	3	58	1,737:1
Franklin County	10	18	5,626:1
Roanoke County	80	85	1,180:1
Roanoke City	65	65	1,537:1
Salem City	35	138	727:1

Rates are per 1,000 population
 2017 County Health Rankings, 2015 Area Health Resource File, National Provider Identification File
<http://www.countyhealthrankings.org/app/virginia/2017/downloads>

Dentist population ratio, 2016

Geography	# Dentists	Dentist Rate	Dentist Ratio
Virginia	5,631	67	1,494:1
Bedford County	20	26	3,898:1
Botetourt County	10	30	3,323:1
Craig County	3	58	1,719:1
Franklin County	10	18	5,607:1
Roanoke County	81	86	1,161:1
Roanoke City	72	72	1,384:1
Salem City	35	137	730:1

Rates are per 1,000 population
 2018 County Health Rankings, 2016 Area Health Resource File, National Provider Identification File
<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

Adults with a dental visit in the last year, 2014

Geography	
Bedford County	73.1%
Botetourt County	76.1%
Craig County	76.5%
Franklin County	67.7%
Roanoke County	75.0%
Roanoke City	64.2%
Salem City	68.8%
Virginia Department of Health, Health Behavior http://www.vdh.virginia.gov/data/health-behavior/	

Youth with no dental visit in the last year, 2013

Geography	
Virginia	21%
Botetourt County	19%
Craig County	19%
Franklin County	20%
Roanoke County	20%
Roanoke City	21%
Salem City	20%
Virginia Atlas of Community Health http://www.atlasva.com	

Physical Environment

Severe housing problems, 2010-2014

Geography	Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities
Virginia	15%
Bedford County	12%
Botetourt County	10%
Craig County	6%
Franklin County	13%
Roanoke County	11%
Roanoke City	19%
Salem City	19%
2018 County Health Rankings, Comprehensive Housing Affordability Strategy (CHAS) http://www.countyhealthrankings.org/app/virginia/2018/downloads	

Occupied housing units with no vehicles available

Geography	#	%
Virginia	196,917	6.4%
Bedford County	1,337	4.3%
Botetourt County	496	3.7%
Craig County	151	6.5%
Franklin County	1,071	4.7%
Roanoke County	1,748	4.6%
Roanoke City	5,669	13.3%
Salem City	608	6.0%
NW Census Tract 1	303	19.0%
NW Census Tract 9	642	28.5%
NW Census Tract 10	332	40.9%
NW Census Tract 11	35	5.5%
NW Census Tract 23	235	7.9%
NW Census Tract 24	218	15.4%
NW Census Tract 25	783	34.3%
SE Census Tract 26	283	30.9%
SE Census Tract 27	267	12.7%
Northern Botetourt MUA Census Tract 401	54	3.9%
Northern Botetourt MUA Census Tract 402	53	2.9%

U.S. Census Bureau, 2012-2016 5-year American Community Survey, Table DP04

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_16_5YR_DP04&prodType=table

Driving alone to work

Geography	Drive alone to work	Drive alone to work, commute > 30 minutes
Virginia	77%	39%
Bedford County	84%	41%
Botetourt County	89%	44%
Craig County	81%	81%
Franklin County	80%	48%
Roanoke County	87%	25%
Roanoke City	80%	22%
Salem City	82%	22%

2018 County Health Rankings, 2012-2016 5-year American Community Survey

<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

County Health Rankings: Health outcomes (out of 133)

Geography	2016	2017	2018
Bedford County	30	31	29
Botetourt County	24	24	25
Craig County	87	98	95
Franklin County	67	69	64
Roanoke County	21	30	31
Roanoke City	106	102	104
Salem City	68	58	50
County Health Rankings http://www.countyhealthrankings.org/app/virginia/2018/downloads			

County Health Rankings: Health factors (out of 133)

Geography	2016	2017	2018
Bedford County	36	41	48
Botetourt County	14	13	14
Craig County	73	50	58
Franklin County	59	69	65
Roanoke County	13	12	12
Roanoke City	121	115	112
Salem City	15	15	16
County Health Rankings http://www.countyhealthrankings.org/app/virginia/2018/downloads			

Adults reporting poor or fair health

Geography	2014	2015	2016
Virginia	17%	15%	16%
Bedford County	12%	12%	13%
Botetourt County	11%	11%	11%
Craig County	13%	13%	15%
Franklin County	15%	15%	17%
Roanoke County	11%	14%	14%
Roanoke City	18%	18%	20%
Salem City	14%	14%	14%
2016 County Health Rankings, 2014 Behavioral Risk Factor Surveillance System 2017 County Health Rankings, 2015 Behavioral Risk Factor Surveillance System 2018 County Health Rankings, 2016 Behavioral Risk Factor Surveillance System http://www.countyhealthrankings.org/app/virginia/2017/downloads			

Average poor physical health days in the past month

Geography	2014	2015	2016
Virginia	3.5	3.2	3.5
Bedford County	3.0	3.1	3.3
Botetourt County	3.0	2.8	3.1
Craig County	3.3	3.4	3.7
Franklin County	3.5	3.5	3.6
Roanoke County	2.8	3.3	3.3
Roanoke City	4.0	3.7	3.9
Salem City	3.3	3.4	3.3

2016 County Health Rankings, 2014 Behavioral Risk Factor Surveillance System
 2017 County Health Rankings, 2015 Behavioral Risk Factor Surveillance System
 2018 County Health Rankings, 2016 Behavioral Risk Factor Surveillance System
<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

Average mentally unhealthy days in the past month

Geography	2014	2015	2016
Virginia	3.3	3.3	3.5
Bedford County	3.0	3.1	3.4
Botetourt County	3.0	3.0	3.3
Craig County	3.3	3.4	3.8
Franklin County	3.4	3.5	3.8
Roanoke County	3.1	3.2	3.5
Roanoke City	3.6	3.7	4.0
Salem City	3.2	3.3	3.6

2016 County Health Rankings, 2014 Behavioral Risk Factor Surveillance System
 2017 County Health Rankings, 2015 Behavioral Risk Factor Surveillance System
 2018 County Health Rankings, 2016 Behavioral Risk Factor Surveillance System
<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

Adults who report having one or more days of poor health that kept them from doing their usual activities during the past 30 days, 2013-2014

Geography	
Virginia	41.1%
Alleghany Health District	32.2%
West Piedmont Health District	50.1%
Central Virginia Health District	33.6%
Roanoke City Health District	54.0%

Virginia Department of Health
 Behavioral Risk Factor Surveillance System
<http://www.vdh.virginia.gov/brfss/data/>

Youth with dental caries in their primary or permanent teeth, 2013

Geography	
Virginia	18%
Botetourt County	16%
Craig County	15%
Franklin County	16%
Roanoke County	16%
Roanoke City	20%
Salem City	17%
Virginia Atlas of Community Health http://www.atlasva.com	

Youth with teeth in fair/poor condition, 2013

Geography	
Virginia	6%
Botetourt County	5%
Craig County	5%
Franklin County	5%
Roanoke County	5%
Roanoke City	6%
Salem City	5%
Virginia Atlas of Community Health http://www.atlasva.com	

Low birthweight

Geography	2014	2015
Virginia	7.9%	7.9%
Bedford County	7.5%	6.5%
Botetourt County	6.4%	6.5%
Craig County	8.1%	13.6%
Franklin County	6.5%	7.5%
Roanoke County	7.2%	6.9%
Roanoke City	9.9%	10.4%
Salem City	5.7%	6.0%
Virginia Department of Health, Statistical Reports and Tables http://www.vdh.virginia.gov/HealthStats/stats.htm		

Confirmed elevated blood lead levels in children under 36 months

Geography	Population <36 months	2014	2015
Virginia	303,439	185	164
Bedford County	1,904	0	2
Botetourt County	896	0	0
Craig County	160	0	0
Franklin County	1,881	0	2
Roanoke County	2,604	2	0
Roanoke City	4,345	8	7
Salem City	704	2	0
Virginia Department of Health, Lead-Safe http://www.vdh.virginia.gov/leadsafe/data-statistics/			

HIV infection rate

Geography	HIV infections per 100,000	
	2014	2015
Virginia	11.1	11.2
Bedford County	2.6	1.3
Botetourt County	3.0	3.0
Craig County	0.0	0.0
Franklin County	3.5	1.8
Roanoke County	11.7	7.5
Roanoke City	22.1	14.1
Salem City	0.0	3.9
Virginia Department of Health, Sexually Transmitted Infections http://www.vdh.virginia.gov/data/sexually-transmitted-infections/		

New HIV diagnosis rate

Geography	New diagnoses per 100,000		
	2014	2015	2016
Virginia	11.0	11.6	10.3
Bedford County	2.6	1.3	2.6
Botetourt County	3.0	3.0	3.0
Craig County	0.0	0.0	0.0
Franklin County	3.5	1.8	3.6
Roanoke County	10.7	7.4	3.2
Roanoke City	23.1	10.0	5.0
Salem City	0.0	3.9	3.9
Virginia Department of Health http://www.vdh.virginia.gov/data/opioid-overdose/			

Reported tuberculosis rate

Geography	Reported tuberculosis cases per 100,000		
	2014	2015	2016
Virginia	2.4	2.5	2.4
Bedford County	1.3	0.0	0.0
Botetourt County	0.0	0.0	3.0
Craig County	0.0	0.0	0.0
Franklin County	3.6	0.0	1.8
Roanoke County	1.1	1.1	5.3
Roanoke City	3.0	3.0	2.0
Salem City	0.0	3.9	0.0

Virginia Department of Health, Tables of Selected Reportable Diseases
<http://www.vdh.virginia.gov/surveillance-and-investigation/virginia-reportable-disease-surveillance-data/tables-of-selected-reportable-diseases-in-virginia-by-year-of-report>

New reported hepatitis C case rate

Geography	New cases per 100,000, ages 18-30		
	2014	2015	2016
Virginia	76.3	89.7	131.3
Bedford County	68.7	66.3	66.3
Botetourt County	249.2	190.6	167.3
Craig County	0.0	438.0	0.0
Franklin County	170.5	339.1	276.3
Roanoke County	259.5	266.6	251.8
Roanoke City	172.7	261.9	490.5
Salem City	37.5	263.4	96.4

Virginia Department of Health
<http://www.vdh.virginia.gov/data/opioid-overdose/>

High blood pressure, 2015

Geography	
Virginia	33.2%
Alleghany Health District	40.9%
West Piedmont Health District	49.7%
Central Virginia Health District	33.0%

Virginia Department of Health
<http://www.vdh.virginia.gov/data/chronic-disease/>

Obesity

Geography	2012	2013	2014
Virginia	27%	27%	28%
Bedford County	31%	33%	33%
Botetourt County	26%	26%	25%
Craig County	29%	28%	28%
Franklin County	27%	28%	29%
Roanoke County	27%	27%	27%
Roanoke City	34%	32%	32%
Salem City	24%	25%	27%

2016 County Health Rankings, 2012 CDC Diabetes Interactive Atlas
 2017 County Health Rankings, 2013 CDC Diabetes Interactive Atlas
 2018 County Health Rankings, 2014 CDC Diabetes Interactive Atlas
<http://www.countyhealthrankings.org/app/virginia/2018/downloads>

Heart disease prevalence, 2014

Geography	
Bedford County	4.8%
Botetourt County	3.8%
Craig County	3.2%
Franklin County	4.8%
Roanoke County	3.2%
Roanoke City	5.7%
Salem City	3.6%

Virginia Department of Health
 Behavioral Risk Factor Surveillance System
<http://www.vdh.virginia.gov/data/chronic-disease/>

Diabetes prevalence, 2014

Geography	
Bedford County	13.0%
Botetourt County	10.7%
Craig County	12.8%
Franklin County	12.1%
Roanoke County	9.8%
Roanoke City	10.3%
Salem City	6.4%

Virginia Department of Health
 Behavioral Risk Factor Surveillance System
<http://www.vdh.virginia.gov/data/chronic-disease/>

Chronic obstructive pulmonary disease (COPD) prevalence, 2014

Geography	
Bedford County	5.7%
Botetourt County	5.7%
Craig County	8.4%
Franklin County	10.2%
Roanoke County	5.8%
Roanoke City	8.9%
Salem City	6.2%
Virginia Department of Health Behavioral Risk Factor Surveillance System http://www.vdh.virginia.gov/data/chronic-disease/	

Chronic disease discharges by age group

Asthma, June 2016 – June 2017

Geography	Discharge rate per 100,000		
	18-44 years old	45-64 years old	65+ years old
Bedford County	34.8	22.9	50.6
Botetourt County	0.0	0.0	15.4
Craig County	0.0	76.9	214.6
Franklin County	13.0	17.5	0.0
Roanoke County	30.3	24.8	21.9
Roanoke City	59.7	90.9	29.0
Salem City	52.3	18.9	50.8
Rates based on primary diagnosis hospital discharges Sg2, Virginia Health Information, 2018			

Angina, June 2016 – June 2017

Geography	Discharge rate per 100,000		
	18-44 years old	45-64 years old	65+ years old
Bedford County	14.9	54.9	94.9
Botetourt County	0.0	75.2	153.8
Craig County	86.9	230.6	214.6
Franklin County	6.4	52.1	87.6
Roanoke County	26.6	103.2	147.8
Roanoke City	46.2	134.6	272.7
Salem City	29.9	104.0	380.9
Rates based on primary diagnosis hospital discharges Sg2, Virginia Health Information, 2018			

Chronic obstructive pulmonary disease, June 2016 – June 2017

Geography	Discharge rate per 100,000		
	18-44 years old	45-64 years old	65+ years old
Bedford County	0.0	206.0	512.5
Botetourt County	12.5	193.3	415.4
Craig County	0.0	153.7	1,073.0
Franklin County	31.9	280.0	709.8
Roanoke County	7.6	169.2	509.0
Roanoke City	35.3	411.1	818.2
Salem City	22.4	264.6	622.1
Rates based on primary diagnosis hospital discharges Sg2, Virginia Health Information, 2018			

Congestive heart failure, June 2016 – June 2017

Geography	Discharge rate per 100,000		
	18-44 years old	45-64 years old	65+ years old
Bedford County	39.7	398.3	1,347.8
Botetourt County	62.7	289.9	1,584.6
Craig County	260.6	76.9	2,038.6
Franklin County	19.2	214.9	1,226.9
Roanoke County	30.3	214.6	1,433.9
Roanoke City	65.2	738.5	2,065.8
Salem City	37.4	311.9	1,676.0
Rates based on primary diagnosis hospital discharges Sg2, Virginia Health Information, 2018			

Diabetes, June 2016 – June 2017

Geography	Discharge rate per 100,000		
	18-44 years old	45-64 years old	65+ years old
Bedford County	9.9	59.5	139.2
Botetourt County	75.3	225.5	323.1
Craig County	0.0	307.5	429.2
Franklin County	185.2	293.0	254.1
Roanoke County	144.1	260.0	284.6
Roanoke City	377.4	589.3	539.7
Salem City	194.3	207.9	419.0
Rates based on primary diagnosis hospital discharges Sg2, Virginia Health Information, 2018			

Hypertension, June 2016 – June 2017

Geography	Discharge rate per 100,000		
	18-44 years old	45-64 years old	65+ years old
Bedford County	9.9	59.5	139.2
Botetourt County	12.5	53.7	76.9
Craig County	0.0	0.0	0.0
Franklin County	19.2	13.0	131.5
Roanoke County	22.8	74.3	164.2
Roanoke City	43.4	178.2	295.9
Salem City	29.9	56.7	50.8

Rates based on primary diagnosis hospital discharges
Sg2, Virginia Health Information, 2018

Pneumonia, June 2016 – June 2017

Geography	Discharge rate per 100,000		
	18-44 years old	45-64 years old	65+ years old
Bedford County	44.7	59.5	575.8
Botetourt County	0.0	128.9	569.2
Craig County	0.0	153.7	965.7
Franklin County	51.1	201.8	762.4
Roanoke County	53.1	103.2	459.7
Roanoke City	78.7	214.6	806.6
Salem City	37.4	122.9	863.4

Rates based on primary diagnosis hospital discharges
Sg2, Virginia Health Information, 2018

Overall death rate

Geography	Deaths per 100,000		
	2014	2015	2016
Virginia	74.1	74.6	69.0
Bedford County	81.0	101.6	88.5
Botetourt County	66.5	72.0	81.2
Craig County	76.4	115.1	155.1
Franklin County	63.9	97.8	101.7
Roanoke County	91.7	76.3	73.4
Roanoke City	99.6	111.1	126.4
Salem City	117.7	86.5	90.0

Virginia Department of Health
Office of Chief Medical Examiner's Annual Report, Table 1.8
<http://www.vdh.virginia.gov/medical-examiner/annual-reports/>

Infant mortality rate, by race, 2015

Geography	Infant deaths / 1,000 live births			
	Total	White	Black	Other
Virginia	5.9	4.7	11.3	3.5
Bedford County	3.1	1.8	--	45.5
Botetourt County	4.3	4.5	--	--
Craig County	--	--	--	--
Franklin County	7.5	8.0	--	--
Roanoke County	7.9	9.3	--	--
Roanoke City	8.5	7.8	9.2	16.7
Salem City	3.0	--	43.5	--

Virginia Department of Health, Statistical Reports and Tables
<http://www.vdh.virginia.gov/HealthStats/stats.htm>

Malignant neoplasm deaths per 100,000, 2013

Geography	
Virginia	161.3
Bedford County	174.3
Botetourt County	157.3
Craig County	184.6
Franklin County	147.7
Roanoke County	152.8
Roanoke City	173.9
Salem City	153.3

Virginia Department of Health
<http://www.vdh.virginia.gov/HealthStats/stats.htm>

Heart disease deaths per 100,000, 2013

Geography	
Virginia	155.9
Bedford County	163.1
Botetourt County	209.8
Craig County	105.9
Franklin County	160.0
Roanoke County	135.7
Roanoke City	223.1
Salem City	208.9

Virginia Department of Health
<http://www.vdh.virginia.gov/HealthStats/stats.htm>

Cerebrovascular disease deaths per 100,000, 2013

Geography	
Virginia	38.5
Bedford County	74.0
Botetourt County	39.2
Craig County	55.9
Franklin County	43.6
Roanoke County	32.8
Roanoke City	47.6
Salem City	53.8
Virginia Department of Health http://www.vdh.virginia.gov/HealthStats/stats.htm	

Chronic lower respiratory disease deaths per 100,000, 2013

Geography	
Virginia	37.2
Bedford County	37.6
Botetourt County	36.3
Craig County	10.7
Franklin County	36.0
Roanoke County	35.5
Roanoke City	53.6
Salem City	42.9
Virginia Department of Health http://www.vdh.virginia.gov/HealthStats/stats.htm	

Diabetes mellitus deaths per 100,000, 2013

Geography	
Virginia	18.3
Bedford County	17.7
Botetourt County	22.5
Craig County	10.3
Franklin County	23.3
Roanoke County	15.2
Roanoke City	23.9
Salem City	22.4
Virginia Department of Health http://www.vdh.virginia.gov/HealthStats/stats.htm	

Suicide death rate

Geography	Suicide deaths per 100,000		
	2014	2015	2016
Virginia	13.8	13.1	13.2
Bedford County	11.8	25.7	12.8
Botetourt County	9.1	18.0	24.1
Craig County	0.0	19.2	77.5
Franklin County	7.1	17.8	16.1
Roanoke County	20.3	16.9	18.1
Roanoke City	19.1	13.0	20.1
Salem City	35.3	19.7	23.5

Virginia Department of Health

Office of Chief Medical Examiner's Annual Report, Table 1.8

<http://www.vdh.virginia.gov/medical-examiner/annual-reports/>

Accidental death rate

Geography	Accidental deaths per 100,000		
	2014	2015	2016
Virginia	31.6	34.2	35.2
Bedford County	34.0	45.0	48.7
Botetourt County	42.3	39.0	39.1
Craig County	38.2	38.4	38.8
Franklin County	40.8	35.5	69.6
Roanoke County	46.9	37.1	35.1
Roanoke City	40.2	54.1	50.2
Salem City	47.1	23.6	50.9

Virginia Department of Health

Office of Chief Medical Examiner's Annual Report, Table 1.8

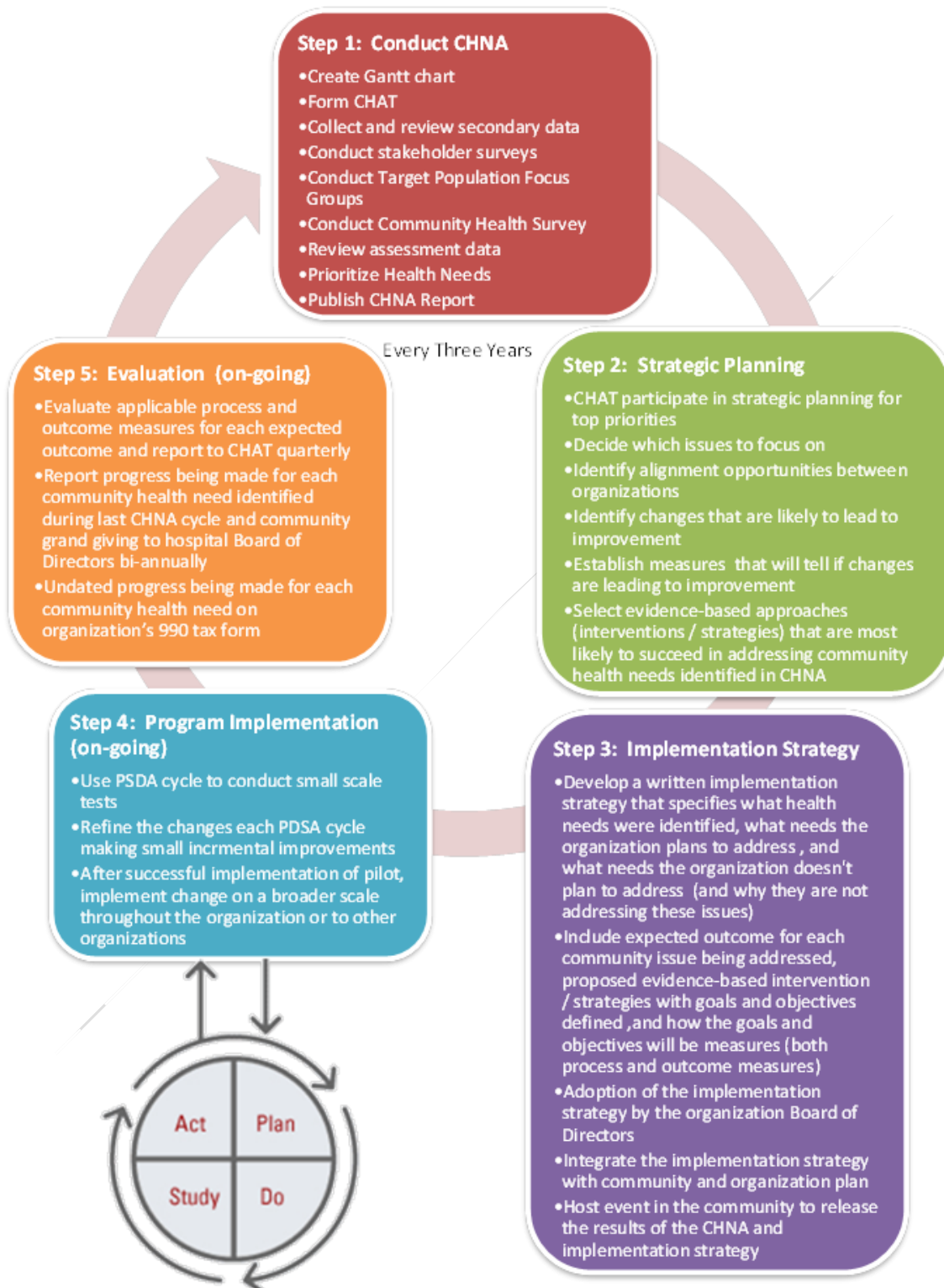
<http://www.vdh.virginia.gov/medical-examiner/annual-reports/>

Drug/Poison death rate

Geography	Drug/Poison deaths per 100,000		
	2014	2015	2016
Virginia	11.4	11.6	16.0
Bedford County	6.5	10.3	10.3
Botetourt County	12.1	12.0	6.0
Craig County	0.0	0.0	19.4
Franklin County	16.0	10.7	26.8
Roanoke County	18.1	7.4	14.9
Roanoke City	15.1	25.0	16.1
Salem City	35.3	11.8	19.6
Virginia Department of Health, Office of Chief Medical Examiner's Annual Report, Table 5.8 http://www.vdh.virginia.gov/medical-examiner/annual-reports/			

Appendices

Appendix 1: Community Health Improvement Process



Appendix 2: Gantt Chart

Tasks	Assigned To:	Start Date	End Date	Duration (working days)	% complete
2018 Roanoke Valley CHA		08-10 Thu	11-01 Thu	320	86%
Create Gantt Chart	Amy	08-10 Thu	08-11 Fri	1	100%
2018 CHS Survey Planning and Data Committee Meeting	Amy/HRV Data Committee	09-11 Mon	09-21 Thu	8	100%
Finalize Survey	HRV Data Committee and Amy	09-20 Wed	09-21 Thu	1	100%
2018 CHA Planning Meeting	Amy, Aaron, Pat and Brittany	09-08 Fri	09-08 Fri		100%
Identify additional CHAT members	Amy/Pat	08-16 Wed	09-11 Mon	18	100%
Pre-CHAT #1 Work	Amy/Aaron/Pat	10-05 Thu	10-16 Mon	7	100%
CHAT #1 Meeting	CHAT	10-16 Mon	10-16 Mon	1	100%
Survey Distribution	All	10-01 Sun	03-31 Sat	129	100%
Focus Groups	Amy/Pat	11-01 Wed	03-31 Sat	107	100%
Collect Secondary Data for CHA	Sierra	12-01 Fri	03-31 Sat	85	100%
Stakeholder Forum Planning	HRV and Carilion	10-05 Thu	01-23 Tue	78	100%
CHAT #2 Meeting/ Stakeholder Forum	HRV	01-23 Tue	01-23 Tue	1	100%
Analyze Survey, Focus Group & Secondary Data	Sierra	04-01 Sun	04-16 Mon	10	100%
CHAT Meeting #3- Data and Prioritization	HRV Steering Committee	04-16 Mon	04-16 Mon	1	100%
Final CHA Report	Carilion Clinic	06-01 Fri	07-06 Fri	25	100%
CHAT Strategic Plan	HRV Steering Committee	06-18 Mon	06-18 Mon	1	100%
Create Implementation Strategy	Carilion Clinic / HRV	06-01 Fri	08-01 Wed	43	30%
Communication Plan	Carilion Clinic / HRV	09-03 Mon	11-01 Thu	43	10%

Appendix 3: Community Health Need Prioritization

Community Health Assessment Prioritization

From the entire list, please pick 10 of the most pertinent community needs and rank on a scale of 1 - 10, with 1 being the most pertinent.

Rank	Community Issue
Health Behavior Factors	
	Alcohol and drug use
	Culture: healthy behaviors not a priority
	Lack of exercise
	Lack of health literacy / lack of knowledge of healthy behaviors
	Lack of knowledge of community resources
	Poor diet
	Risky sexual activity
	Tobacco use
Clinical Care Factors	
	Access to primary care
	Access to dental care
	Access to mental / behavioral health services
	Access to specialty care (general)
	Access to specific specialty care: _____ (write in)
	Access to substance use services
	Communication barriers with providers
	Coordination of care
	High cost of care
	High uninsured / underinsured population
	Quality of care
Social and Economic Health Factors	
	Child abuse / neglect
	Community safety / violence
	Domestic violence
	Educational attainment
	Lack of family / social support systems
	Poverty / low average household income
	Unemployment
Physical Environment Factors	
	Air quality
	Affordable / safe housing
	Injury prevention / safety of environment
	Outdoor recreation
	Transportation / transit system
	Water quality
Health Outcomes	
	High prevalence of chronic disease (general)
	High prevalence of specific chronic disease: _____ (write in)
Write-in section	
	Other:
	Other:
	Other:
	Other:
	Other:
	Other:
	Other:
	Other:

Appendix 4: Community Health Survey

ROANOKE VALLEY COMMUNITY HEALTH SURVEY

ACCESS and BARRIERS TO HEALTHCARE

1. Is there a specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health? ☐ Yes ☐ No
- **Skip to question 2 if you answered No**
 - **If you answered Yes**
 - Is this where you would go for new health problems? ☐ Yes ☐ No
 - Is this where you would go for preventive health care, such as general check-ups, examinations, and immunizations (shots)? ☐ Yes ☐ No
 - Is this where you would go for referrals to other health professions when needed? ☐ Yes ☐ No
2. Do you use medical care services? ☐ Yes ☐ No
- **If yes, where do you go for medical care? (Check all that apply)**
- | | |
|--|--|
| <input type="checkbox"/> Doctor's Office | <input type="checkbox"/> Health Department |
| <input type="checkbox"/> Carilion Clinic Community Care | <input type="checkbox"/> LewisGale Medical Center |
| <input type="checkbox"/> Carilion Clinic Family Medicine – Roanoke/Salem | <input type="checkbox"/> New Horizons Healthcare |
| <input type="checkbox"/> Carilion Clinic Family Medicine – Southeast | <input type="checkbox"/> Pharmacy Clinic |
| <input type="checkbox"/> Carilion Clinic Family Medicine – Other Sites | <input type="checkbox"/> Planned Parenthood |
| <input type="checkbox"/> Craig County Community Health Center | <input type="checkbox"/> Salem VA Medical Center |
| <input type="checkbox"/> Emergency Room | <input type="checkbox"/> Urgent Care / Walk in Clinic |
| <input type="checkbox"/> Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Mental Health America, Botetourt Christian Free Clinic) | <input type="checkbox"/> Virginia Premier Medical Home |
| | <input type="checkbox"/> Other: _____ |
3. Do you use dental care services? ☐ Yes ☐ No
- **If yes, where do you go for dental care? (Check all that apply)**
- | | | |
|---|---|---|
| <input type="checkbox"/> Dentist's Office | <input type="checkbox"/> Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Botetourt Christian Free Clinic) | <input type="checkbox"/> Salem VA Medical Center |
| <input type="checkbox"/> Carilion Dental Clinic | <input type="checkbox"/> Mission of Mercy Project | <input type="checkbox"/> Kool Smiles |
| <input type="checkbox"/> Commonwealth Dental | <input type="checkbox"/> New Horizons Healthcare | <input type="checkbox"/> Urgent Care / Walk in Clinic |
| <input type="checkbox"/> Craig County Community Health Center | | <input type="checkbox"/> VWCC Dental Hygiene Program |
| <input type="checkbox"/> Emergency Room | | <input type="checkbox"/> Other: _____ |
4. Do you use mental health, alcohol abuse, or drug abuse services? ☐ Yes ☐ No
- **If yes, where do you go for mental health, alcohol abuse, or drug abuse services? (Check all that apply)**
- | | | |
|---|---|---|
| <input type="checkbox"/> Doctor/Counselor's Office | <input type="checkbox"/> Family Service of Roanoke Valley | <input type="checkbox"/> New Horizons Healthcare |
| <input type="checkbox"/> Blue Ridge Behavioral Healthcare | <input type="checkbox"/> Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Botetourt Christian Free Clinic) | <input type="checkbox"/> Respond |
| <input type="checkbox"/> Catawba Hospital | <input type="checkbox"/> Mental Health America of Roanoke Valley | <input type="checkbox"/> Salem VA Medical Center |
| <input type="checkbox"/> Connect | | <input type="checkbox"/> Urgent Care / Walk in Clinic |
| <input type="checkbox"/> Emergency Room | | <input type="checkbox"/> Other: _____ |
5. What do you think are the five most important issues that affect health in our community? (**Please check five**)
- | | | |
|--|---|--|
| <input type="checkbox"/> Access to healthy foods | <input type="checkbox"/> Environmental health (e.g. water quality, air quality, pesticides, etc.) | <input type="checkbox"/> Not using seat belts / child safety seats / helmets |
| <input type="checkbox"/> Access to affordable housing | <input type="checkbox"/> Gang activity | <input type="checkbox"/> Overweight / obesity |
| <input type="checkbox"/> Accidents in the home (e.g. falls, burns, cuts) | <input type="checkbox"/> Heart disease and stroke | <input type="checkbox"/> Poor eating habits |
| <input type="checkbox"/> Aging problems | <input type="checkbox"/> High blood pressure | <input type="checkbox"/> Prescription drug abuse |
| <input type="checkbox"/> Alcohol and illegal drug use | <input type="checkbox"/> HIV / AIDS | <input type="checkbox"/> Sexual assault |
| <input type="checkbox"/> Bullying | <input type="checkbox"/> Homicide | <input type="checkbox"/> Stress |
| <input type="checkbox"/> Cancers | <input type="checkbox"/> Infant death | <input type="checkbox"/> Suicide |
| <input type="checkbox"/> Cell phone use / texting and driving / distracted driving | <input type="checkbox"/> Lack of exercise | <input type="checkbox"/> Teenage pregnancy |
| <input type="checkbox"/> Child abuse / neglect | <input type="checkbox"/> Lung disease | <input type="checkbox"/> Tobacco use / smoking |
| <input type="checkbox"/> Dental problems | <input type="checkbox"/> Mental health problems | <input type="checkbox"/> Unsafe sex |
| <input type="checkbox"/> Diabetes | <input type="checkbox"/> Neighborhood safety | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Domestic violence | <input type="checkbox"/> Not getting "shots" to prevent disease | |

6. Which health care services are hard to get in our community? (Check all that apply)

- | | | |
|--|--|---|
| <input type="checkbox"/> Adult dental care | <input type="checkbox"/> End of life / hospice / palliative care | <input type="checkbox"/> Programs to stop using tobacco products |
| <input type="checkbox"/> Alternative therapy (e.g. herbal, acupuncture, massage) | <input type="checkbox"/> Family doctor | <input type="checkbox"/> Specialty care (e.g. heart doctor) |
| <input type="checkbox"/> Ambulance services | <input type="checkbox"/> Family planning / birth control | <input type="checkbox"/> Substance abuse services –drug and alcohol |
| <input type="checkbox"/> Cancer care | <input type="checkbox"/> Immunizations | <input type="checkbox"/> Urgent care / walk in clinic |
| <input type="checkbox"/> Child dental care | <input type="checkbox"/> Inpatient hospital | <input type="checkbox"/> Vision care |
| <input type="checkbox"/> Chiropractic care | <input type="checkbox"/> Lab work | <input type="checkbox"/> Women's health services |
| <input type="checkbox"/> Dermatology | <input type="checkbox"/> Medication / medical supplies | <input type="checkbox"/> X-rays / mammograms |
| <input type="checkbox"/> Domestic violence services | <input type="checkbox"/> Mental health / counseling | <input type="checkbox"/> None |
| <input type="checkbox"/> Eldercare | <input type="checkbox"/> Physical therapy | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Emergency room care | <input type="checkbox"/> Preventive care (e.g. yearly check-ups) | |

7. What do you feel prevents you from getting the healthcare you need? (Check all that apply)

- | | | |
|---|---|--|
| <input type="checkbox"/> Afraid to have check-ups | <input type="checkbox"/> Don't like accepting government assistance | <input type="checkbox"/> Location of offices |
| <input type="checkbox"/> Can't find providers that accept my Medicaid insurance | <input type="checkbox"/> Don't trust doctors / clinics | <input type="checkbox"/> Long waits for appointments |
| <input type="checkbox"/> Can't find providers that accept my Medicare insurance | <input type="checkbox"/> Have no regular source of healthcare | <input type="checkbox"/> No health insurance |
| <input type="checkbox"/> Childcare | <input type="checkbox"/> High co-pay | <input type="checkbox"/> No transportation |
| <input type="checkbox"/> Cost | <input type="checkbox"/> Lack of evening and weekend services | <input type="checkbox"/> I can get the healthcare I need |
| <input type="checkbox"/> Don't know what types of services are available | <input type="checkbox"/> Language services | <input type="checkbox"/> Other: _____ |

GENERAL HEALTH QUESTIONS

8. Please check one of the following for each statement

	Yes	No	Not applicable
I have had an eye exam within the past 12 months.	<input type="checkbox"/>	<input type="checkbox"/>	
I have had a mental health / substance abuse visit within the past 12 months.	<input type="checkbox"/>	<input type="checkbox"/>	
I have had a dental exam within the past 12 months.	<input type="checkbox"/>	<input type="checkbox"/>	
I have been to the emergency room in the past 12 months.	<input type="checkbox"/>	<input type="checkbox"/>	
I have been to the emergency room for <u>an injury</u> in the past 12 months (e.g. motor vehicle crash, fall, poisoning, burn, cut, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	
I have been a victim of domestic violence or abuse in the past 12 months.	<input type="checkbox"/>	<input type="checkbox"/>	
My doctor has told me that I have a long-term or chronic illness.	<input type="checkbox"/>	<input type="checkbox"/>	
I take the medicine my doctor tells me to take to control my chronic illness.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can afford medicine needed for my health conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am over 21 years of age and have had a pap smear in the past three years (if male or under 21, please check "Not applicable").	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am over 40 years of age and have had a mammogram in the past 12 months (if male or under 40, please check "Not applicable").	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am over 50 years of age and have had a colonoscopy in the past 10 years (if under 50, please check "Not applicable").	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does your neighborhood support physical activity? (e.g. parks, sidewalks, bike lanes, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	
Does your neighborhood support healthy eating? (e.g. community gardens, farmers' markets, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	
In the area that you live, is it easy to get affordable fresh fruits and vegetables?	<input type="checkbox"/>	<input type="checkbox"/>	
Have there been times in the past 12 months when you did not have enough money to buy the food that you or your family needed?	<input type="checkbox"/>	<input type="checkbox"/>	
Have there been times in the past 12 months when you did not have enough money to pay your rent or mortgage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you feel safe in your neighborhood?	<input type="checkbox"/>	<input type="checkbox"/>	

9. Where do you get the food that you eat at home? (Check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Back-pack or summer food programs | <input type="checkbox"/> Home garden |
| <input type="checkbox"/> Community garden | <input type="checkbox"/> I do not eat at home |
| <input type="checkbox"/> Corner store / convenience store / gas station | <input type="checkbox"/> I regularly receive food from family, friends, neighbors, or my church |
| <input type="checkbox"/> Dollar store | <input type="checkbox"/> Meals on Wheels |
| <input type="checkbox"/> Farmers' market | <input type="checkbox"/> Take-out / fast food / restaurant |
| <input type="checkbox"/> Food bank / food kitchen / food pantry | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Grocery store | |

10. During the past 7 days, how many times did you eat fruit or vegetables (fresh or frozen)? Do not count fruit or vegetable juice. (Please check one)

- | | | |
|--|---|--|
| <input type="checkbox"/> I did not eat fruits or vegetables during the past 7 days | <input type="checkbox"/> 4 – 6 times during the past 7 days | <input type="checkbox"/> 3 times per day |
| <input type="checkbox"/> 1 – 3 times during the past 7 days | <input type="checkbox"/> 1 time per day | <input type="checkbox"/> 4 or more times per day |
| <input type="checkbox"/> 2 times per day | | |

11. Have you been told by a doctor that you have... (Check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> Asthma | <input type="checkbox"/> Drug or alcohol problems | <input type="checkbox"/> Mental health problems |
| <input type="checkbox"/> Cancer | <input type="checkbox"/> Heart disease | <input type="checkbox"/> Obesity / overweight |
| <input type="checkbox"/> Cerebral palsy | <input type="checkbox"/> High blood pressure | <input type="checkbox"/> Stroke / cerebrovascular disease |
| <input type="checkbox"/> COPD / chronic bronchitis / emphysema | <input type="checkbox"/> High blood sugar or diabetes | <input type="checkbox"/> I have no health problems |
| <input type="checkbox"/> Depression or anxiety | <input type="checkbox"/> High cholesterol | <input type="checkbox"/> Other: _____ |
| | <input type="checkbox"/> HIV / AIDS | |

12. How long has it been since you last visited a doctor for a routine checkup? (Please check one)

- | | |
|---|---|
| <input type="checkbox"/> Within the past year (1 to 12 months ago) | <input type="checkbox"/> Within the past 5 years (2 to 5 years ago) |
| <input type="checkbox"/> Within the past 2 years (1 to 2 years ago) | <input type="checkbox"/> 5 or more years ago |

13. How long has it been since you last visited a dentist or a dental clinic for any reason? Include visits to dental specialists, such as orthodontists. (Please check one)

- | | |
|---|---|
| <input type="checkbox"/> Within the past year (1 to 12 months ago) | <input type="checkbox"/> Within the past 5 years (2 to 5 years ago) |
| <input type="checkbox"/> Within the past 2 years (1 to 2 years ago) | <input type="checkbox"/> 5 or more years ago |

14. How connected do you feel with the community and those around you?

- | | | |
|---|---|--|
| <input type="checkbox"/> Very connected | <input type="checkbox"/> Somewhat connected | <input type="checkbox"/> Not connected |
|---|---|--|

15. In the past 7 days, on how many days were you physically active for a total of at least 30 minutes? (Add up all the time you spent in any kind of physical activity that increased your heart rate and made you breathe hard for some of the time.)

- | | | | | | | | |
|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <input type="checkbox"/> 0 days | <input type="checkbox"/> 1 day | <input type="checkbox"/> 2 days | <input type="checkbox"/> 3 days | <input type="checkbox"/> 4 days | <input type="checkbox"/> 5 days | <input type="checkbox"/> 6 days | <input type="checkbox"/> 7 days |
|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|

16. During the past 7 days, how many times did all, or most, of your family living in your house eat a meal together?

- | | | | |
|------------------------------------|------------------------------------|--|--|
| <input type="checkbox"/> Never | <input type="checkbox"/> 3-4 times | <input type="checkbox"/> 7 times | <input type="checkbox"/> Not applicable / I live alone |
| <input type="checkbox"/> 1-2 times | <input type="checkbox"/> 5-6 times | <input type="checkbox"/> More than 7 times | |

17. Would you say that in general your health is: (Please check one)

- | | | | | |
|------------------------------------|------------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> Excellent | <input type="checkbox"/> Very good | <input type="checkbox"/> Good | <input type="checkbox"/> Fair | <input type="checkbox"/> Poor |
|------------------------------------|------------------------------------|-------------------------------|-------------------------------|-------------------------------|

18. Thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good? _____ Days

19. Thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good? _____ Days

20. During the past 30 days: (Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> I have had 5 or more alcoholic drinks (if male) or 4 or more alcoholic drinks (if female) during one occasion. | <input type="checkbox"/> I have used marijuana |
| <input type="checkbox"/> I have used tobacco products (cigarettes, smokeless tobacco, e-cigarettes, etc.) | <input type="checkbox"/> I have used other illegal drugs (e.g. cocaine, heroin, ecstasy, crack, LSD, etc.) |
| <input type="checkbox"/> I have taken prescription drugs to get high | <input type="checkbox"/> None of these |

21. Have you ever used heroin? ☐ Yes ☐ No

22. How many vehicles are owned, leased, or available for regular use by you and those who currently live in your household? Please be sure to include motorcycles, mopeds and RVs. _____ Vehicles

23. If you do not drive, what mode of transportation do you typically use?

- | | |
|--|---|
| <input type="checkbox"/> Not applicable- I drive | <input type="checkbox"/> RADAR / CORTAN |
| <input type="checkbox"/> Bike or walk | <input type="checkbox"/> Taxi |
| <input type="checkbox"/> Friends / family drive me | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Public transit (i.e. bus, shuttle, similar) | |

DEMOGRAPHIC INFORMATION and HEALTH INSURANCE

24. Which of the following describes your current type of health insurance? (*Check all that apply*)

- | | | |
|--|---|--|
| <input type="checkbox"/> COBRA | <input type="checkbox"/> Health Savings / Spending Account | <input type="checkbox"/> Medicare |
| <input type="checkbox"/> Dental Insurance | | <input type="checkbox"/> Medicare Supplement |
| <input type="checkbox"/> Employer Provided Insurance | <input type="checkbox"/> Individual / Private Insurance / Marketplace / Obamacare | <input type="checkbox"/> No Dental Insurance |
| <input type="checkbox"/> Government (VA, Champus) | <input type="checkbox"/> Medicaid | <input type="checkbox"/> No Health Insurance |

25. If you have no health insurance, why don't you have insurance? (*Check all that apply*)

- | | |
|---|---|
| <input type="checkbox"/> Not applicable- I have health insurance | <input type="checkbox"/> Too expensive / cost |
| <input type="checkbox"/> I don't understand Marketplace / Obamacare options | <input type="checkbox"/> Unemployed / no job |
| <input type="checkbox"/> Not available at my job | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Student | |

26. What is your ZIP code? _____

27. What is your street address (optional)? _____

28. What is your age? _____

29. What is your gender? ☐ Male ☐ Female ☐ Transgender

30. What is your height? _____

31. What is your weight? _____

32. How many people live in your home (including yourself)?

Number who are 0 – 17 years of age _____

Number who are 18 – 64 years of age _____

Number who are 65 years of age or older _____

33. What is your highest education level completed?

- ☐ Less than high school ☐ Some high school ☐ High school diploma / GED ☐ Associates ☐ Bachelors ☐ Masters / PhD

34. What is your primary language? ☐ English ☐ Spanish ☐ Other _____

35. What ethnicity do you identify with? (*Check all that apply*)

- | | | | |
|---|---------------------------------|---|--|
| <input type="checkbox"/> Native Hawaiian / Pacific Islander | <input type="checkbox"/> Asian | <input type="checkbox"/> Black / African American | <input type="checkbox"/> White |
| <input type="checkbox"/> American Indian / Alaskan Native | <input type="checkbox"/> Latino | <input type="checkbox"/> More than one race | <input type="checkbox"/> Decline to answer <input type="checkbox"/> Other: _____ |

36. What is your marital status? ☐ Married ☐ Single ☐ Divorced ☐ Widowed ☐ Domestic Partnership

37. What is your yearly household income?

- | | | | | |
|--|--|---|--|--|
| <input type="checkbox"/> \$0 – \$10,000 | <input type="checkbox"/> \$10,001 – \$20,000 | <input type="checkbox"/> \$20,001 – \$30,000 | <input type="checkbox"/> \$30,001 – \$40,000 | <input type="checkbox"/> \$40,001 – \$50,000 |
| <input type="checkbox"/> \$50,001 – \$60,000 | <input type="checkbox"/> \$60,001 – \$70,000 | <input type="checkbox"/> \$70,001 – \$100,000 | <input type="checkbox"/> \$100,001 and above | |

38. What is your current employment status?

- ☐ Full-time ☐ Part-time ☐ Unemployed ☐ Self-employed ☐ Retired ☐ Homemaker ☐ Student

39. Is there anything else we should know about your (or someone living in your home) health care needs in the Roanoke Valley?

Thanks for helping make the Roanoke Valley a healthier place to live, work, and play!

Appendix 5: Healthy Roanoke Valley Strategic Framework 2016-2019

Healthy Roanoke Valley Strategic Framework 2016-2019 FINAL			
Mission	Our mission is to mobilize community resources to improve access to care, coordination of services, and promote a culture of wellness.		
Vision	A community where all are empowered to achieve and sustain optimal health.		
Target Population	<u>Geographic Range</u> : Roanoke Valley (Botetourt, Craig, & Roanoke Counties; Cities of Roanoke & Salem) with a current focus on the City of Roanoke. <u>Characteristics</u> : We strive to target the underserved/vulnerable populations disproportionately impacted by the social determinants of health including poverty, race/ethnicity, education, and/or lack of insurance.		
Coordination of Care Action Team			
Goal 2016-19	Program Specific Strategies 2016-17	Comments & Timeline 2016-2017	Expected Outcome(s)
Integrate a Coordination of Care system to ensure access among available resources and services that address the holistic need (social determinants of health) of individuals, families, and the community.	<ul style="list-style-type: none">Implement HRV Pathways HUB.	<p>HRV is a partner with Bradley Free Clinic, Carilion Clinic, and New Horizons Healthcare in the Virginia Health Care Foundation’s “Take Aim, Improving Health” application. This grant opportunity is an 18-month pilot that focuses on care coordination systems among hospital systems and safety net providers to improve health outcomes for uninsured individuals. This funding will allow us to focus on improving health outcomes for adults ages 18-64 years of age with a diagnosis of hypertension that live less than 200% of Federal Poverty level and in the MUA’s of the city of Roanoke.</p> <p>Timeline for the pilot is June 2016-December 2017.</p>	<p>Increase the proportion of persons with a usual primary care provider</p> <p>Source: Community Health Survey Baseline & Target TBD in 2015</p> <p>Increase the proportion of persons with a specific source of ongoing care</p> <p>Source: Community Health Survey Baseline & Targets established for 2012-2015</p>

		<p>A timeline for the HUB has been developed and is subject to change based on funding requirements.</p> <p><i>Please note: HRV and the United Way will continue to fundraise to continue to fund the HUB regardless of Virginia Health Care Foundation</i></p> <p>The Coordination of Care Action Team will continue to meet quarterly during the project period.</p>	
Mental Health and Substance Abuse Action Team			
Goal 2016-19	Program Specific Strategies 2016-17	Comments & Timeline 2016-2017	Expected Outcome(s)
Use natural environments to empower families and the community to increase education about mental health topics, reduce stigma attached to getting help, and improve access to services and supports.	<ul style="list-style-type: none"> Support community-based prevention efforts including establishing “Healthy Families” (Children’s Trust) and Communities Addressing Childhood Trauma (FSRV) (pending funding). 	<p>A subcommittee of the Mental Health Action Team will begin meeting in April 2016 to determine funding opportunities, potential partnerships for the “Healthy Families” initiative. Children’s Trust will take the lead on this initiative. A timeline will be developed in June 2016.</p> <p>Family Service of Roanoke Valley is submitting an application to Office of Minority Health for the Communities Addressing Childhood Trauma on April 18, 2016. If funded, anticipated start date is July 1, 2016.</p>	<p>Decrease the number of CHS respondents who report services are hard to get in the community.</p> <p>Source: Community Health Survey Baseline & Targets established for 2012-2015</p> <p>Decrease the number of mentally unhealthy days in the past month.</p> <p>Source: Community Health Survey Baseline & Targets established for 2015</p>

		The Mental Health Action Team will continue to meet quarterly during the project year.	
Oral Health Action Team			
Goal 2016-19	Program Specific Strategies 2016-17	Comments & Timeline 2016-2017	Expected Outcome(s)
Improve oral health IQ and integrate the value of oral health as part of efforts to increase access to dental services.	<ul style="list-style-type: none"> Engage community members using Community Health Promoters. Engage and educate key stakeholders, community leaders, and medical and dental providers around oral health issues. Conduct a marketing and outreach campaign to reinforce our messages on the value of oral health. Create a community-driven strategic plan to address oral health priorities in the Roanoke Valley. 	<p>Please refer to the Star City Smiles Work Plan for 2016-17.</p> <p>The Oral Health Action Team will meet monthly during the project period.</p>	<p>Increase the proportion of children, adolescents, & adults who used the oral health care system in the past year</p> <p>Source: Community Health Survey Baseline & Targets established for 2012-2015</p>
Primary Care Action Team			
Goal 2016-19	Program Specific Strategies 2016-17	Comments & Timeline 2016-2017	Expected Outcome(s)
Champion HRV initiatives that address the importance of preventive care and chronic disease management among providers in the Roanoke Valley.	<ul style="list-style-type: none"> Represent HRV mission and related initiatives at provider and/or membership meetings. Serve as potential intervention sites for HRV initiatives (i.e. HRV Pathways HUB and/or FFRx program) 	<p>The Primary Care Action Team will create a work plan to address these strategies in September 2016.</p> <p>The Primary Care Action Team will meet bi-annually during the project period.</p>	<p>Increase the proportion of persons with a usual primary care provider</p> <p>Source: Community Health Survey Baseline & Target TBD in 2015</p>

	<ul style="list-style-type: none"> Engage in Provider-Dentist meetings as part of the Star City Smiles Initiative. 		<p>Increase the proportion of persons with a specific source of ongoing care</p> <p>Source: Community Health Survey Baseline & Targets established for 2012-2015</p>
Wellness Action Team			
Goal 2016-19	Program Specific Strategies 2016-17	Comments & Timeline 2016-2017	Expected Outcome(s)
Create and sustain a culture of wellness where all residents have access to, education about, and empowerment to consume healthy foods, engage in physical activity, and make informed choices about optimal health and wellness.	<ul style="list-style-type: none"> Implement expanded FFRX program (pending funding). Continue to partner with the Eat Together initiative. Explore collaborative opportunities around physical activity. 	<p>FFRx program will begin the week of June 20, 2016 and end the week of October 6, 2016 pending notification of funding from Carilion Clinic.</p> <p>Planning for the Eat Together project begins May 2016 with program implementation the week of September 26, 2016. We will again partner with the Prevention Council of Roanoke County and RAYSAC on this initiative.</p>	<p>Reduce the number of children, youth, adults who are obese</p> <p>Source: Community Health Survey Baseline & Targets established for 2012-2015</p> <p>Reduce the number of adolescents reporting substance use in the past month</p> <p>Source: Biannual YRBS</p> <p>CONSIDERATIONS:</p> <ul style="list-style-type: none"> Fruit & Vegetable Consumption Measure Physical Activity Measure Risky Behaviors Measure

Supporting Strategies 2016-17
Advocacy
Develop a public policy agenda that supports advocacy efforts for Health Information Exchange; strengthening the safety net provider workforce; increasing health insurance coverage and reimbursement for mental health/dental; engaging community leaders to support HRV efforts; & reducing risky behaviors
Communications & Outreach
Create a communications plan to promote HRV programs, initiatives, and partnerships and develop public messages that promote healthy living
Data Collection & Tracking
Monitor the success of HRV by tracking primary & secondary data and HRV expected outcomes; create shared databases for partners & the community; link with existing efforts to create information exchanges.
Resource Development
Create a framework for HRV that sustains its work to improve health outcomes by maximizing existing resources & in-kind support; identifying additional resources to support HRV operations; & identifying resources/funds to support HRV-affiliated programs.

Appendix 6: Stakeholder Survey

Roanoke Valley Professional Informant Survey Barriers and Challenges Faced by Residents and Health and Human Services Agencies

An online version of this survey is available at <https://www.surveymonkey.com/r/2018CHStakeholder>

Responses will not be identified, either in written material or verbally, by name or organization.

Please return to: Amy Michals, Carilion Community Health & Outreach, 1202 3rd Street S.W., Roanoke, VA 24016. Thank you!

1. Your name, organization, and title:

NAME: _____
ORGANIZATION: _____
TITLE: _____

2. What are the most important issues (needs) that impact health in the Roanoke Valley?

3. What are the barriers to health for the populations you serve?

4. Is there one locality / neighborhood with the greatest unmet need? If so, why?

5. Is there one population group with the greatest unmet need? If so, why?

6. What are the resources for health for the populations you serve?

7. If we could make one change as a community to meet the needs and reduce the barriers to health in the Roanoke Valley, what would that be?

Thank you for your input!

*Please return to: Amy Michals, Carilion Community Health & Outreach, 1202 3rd Street
S.W., Roanoke, VA 24016.*

Questions: Please contact Amy Michals at 540-983-4046 or almichals@carilionclinic.org

Appendix 7: Stakeholder Focus Group and Survey Locations

Organization/Group
City of Roanoke Fire/EMS Station #5
City of Roanoke Fire/EMS Station #6
City of Roanoke Police Department
Roanoke Valley Palliative Care Partnership
Healthy Roanoke Valley Celebration & Stakeholder Forum – <ul style="list-style-type: none">• Healthy Roanoke Valley Partners and Key Community Stakeholders

Appendix 8: Community Resource List

Community Resources listed by Stakeholders are listed below along with publicly available contact information collected in spring 2018. A more comprehensive resource list can be found at <https://tinyurl.com/yb7bh8ys>. This list is a point-in-time snapshot of resources available and is not updated regularly. Please note that information may have changed since the collection date.

Community members can also learn more about available resources by calling 2-1-1 or going online to <https://www.211virginia.org/consumer/index.php>. 2-1-1 is a free service available to help callers find appropriate resources in their locality.

Community Resources Listed by Stakeholders

ARCH

404 Elm Ave SW
Roanoke, VA 24016
(540) 344-8060
<https://archservices.org/>

Bethany Hall (ARCH)
1109 Franklin Rd., SW
Roanoke, VA 24016
(540) 343-4261
<https://archservices.org/>

Blue Ridge Behavioral Healthcare
Access Center
The Burrell Center
611 McDowell Avenue
Roanoke, VA 24016
(540) 343-3007
<http://www.brbh.org/>

Emergency Services
The Burrell Center
611 McDowell Avenue
Roanoke, VA 24016
(540) 981-9351
<http://www.brbh.org/>

Crisis Stabilization Unit
Rita J. Gliniecki Recovery Center
3003 A Hollins Road NE
Roanoke, VA 24012
(540) 344-6208
<http://www.brbh.org/>

Blue Ridge Independent Living Center
1502 B Williamson Rd NE
Roanoke, VA 24012
(540) 342-1231
<http://www.brilc.org/>

Bradley Free Clinic
1240 3rd St., SW
Roanoke, VA 24016
(540) 344-5156
<http://bradleyfreeclinic.com/>

Carilion Clinic
1906 Belleview Ave., SE
Roanoke, VA 24014
(800) 422-8482
<https://carilionclinic.org/>

Carilion Clinic Dental Care
2017 S Jefferson St.,
Roanoke, VA 24014
(540) 981-7128
<https://www.carilionclinic.org/specialties/dentistry>

Carilion Financial Assistance
1906 Belleview Ave., SE
Roanoke, VA 24014
(800) 422-8482
<https://www.carilionclinic.org/billing/financial-assistance>

Carilion Medication Assistance Program (CMAP)
1906 Belleview Ave., SE
(Ground Floor)
Roanoke, VA 24014
(540) 981-7647 CHIP of Roanoke Valley
1201 3rd St., SW
Roanoke, VA 24016
(540) 857-6993
<https://chiprv.org/>

Children's Trust Roanoke Valley
541 Luck Ave., SW #308
Roanoke, VA 24016
(540) 344-3579
<http://www.roact.org/>

Christian Free Clinic
7330 Roanoke Rd.
Fincastle, VA 24090
(540) 353-0509
<http://www.christianfreeclinic.com/index.html>

Christian Soldier's Food Pantry
728 A Church Ave., SE
Roanoke, VA 24013
(540) 206-3466

Roanoke Community Garden Association
1731 Grandin Ave., SW
Roanoke, VA 24015
Tina Badger- Co-Director, Resource Development
(540) 929-1390
<http://roanokecommunitygarden.org/>

Community Housing Resource Center
339 Salem Ave., SW
Roanoke, VA 24016
(540) 266-7551
<https://www.roanokeva.gov/359/Community-Housing-Resource-Center>

The Council of Community Service
502 Campbell Ave., SW
Roanoke, VA 24016
(540) 985-0131
<http://www.councilofcommunityservices.org/>

Dental Health Initiative
302 2nd St., SW
Roanoke, VA 24011
(540) 777-4673
<https://www.tapintohope.org/DHI.aspx>

Roanoke Human Services Department
1510 Williamson Rd., NE
3rd Floor
Roanoke, VA 24012
(540) 853-2591
<https://www.roanokeva.gov/372/Social-Services>

Minute Clinic (Inside CVS Pharmacy)
2001 Colonial Ave.
Roanoke, VA 24015
(540) 342-1877

MedExpress Urgent Care
5610 Williamson Rd.
Roanoke, VA 24012
(540) 265-8924

Carilion Roanoke Memorial Hospital ER
1906 Belleview Ave., SE
Roanoke, VA 24014
(540) 981-7337
<https://carilionclinic.org/>

Goodwill Industries of the Valleys
2502 Melrose Ave., NW
Roanoke, VA 24017
(540) 581-0620
<https://www.goodwillvalleys.com/>

FAMIS, Cover Virginia
1-855-242-8282 (Toll free)
http://www.coverva.org/programs_famis.cfm

Family Services of Roanoke Valley
360 Campbell Ave., SW
Roanoke, VA 24016
(540) 563-5316
<https://www.fsrv.org/>

Feeding America SW Virginia
1025 Electric RD
Salem, VA 24153
(540) 342-3011
<https://www.faswva.org/>

New Horizons Healthcare (FQHC)
3716 Melrose Ave., NW
Roanoke, VA 24017
(540) 362-0360 <https://newhorizonshealthcare.org/>

Rosalind Hills Baptist Church
2712 Brandon Ave.
Roanoke, VA 24015
(540) 344-7888
<http://www.rosalindhills.org/>

G. Wayne Fralin Free Clinic (Rescue Mission)
402 4th St., SE
Roanoke, VA 24013
(540) 343-7227 <https://rescuemission.net/what-we-do/fralin-free-clinic-for-the-homeless/>

Good Samaritan Hospice
2408 Electric Rd.
Cave Spring, VA 24018
(540) 776-0198
<http://www.goodsamhospice.org/>

Governor's Access Plan
1-855-869-8190
www.coverva.org/gap.cfm.

Happy Healthy Cooks
1914 Belleville Rd., SW
Roanoke, VA 24015
(540) 314-2375
Heather Quintana, Executive Director.
<http://happyhealthycooks.org/>

Local Office on Aging
706 Campbell Ave., SW
Roanoke, VA 24016
(540) 345-0451
<http://www.loaa.org/>

Total Action For Progress (TAP/Head Start)
302 2nd St., SW
Roanoke, VA 24011
(540) 777-4673
<https://www.tapintohope.org/Default.aspx>

Health Department
57 Williamson Rd., NE, 2nd floor
Roanoke, VA 24012
(540) 283-5050
<http://www.vdh.virginia.gov/roanoke/>

Healthy Families Virginia
541 Luck Ave. Suite 308
Roanoke, VA 24016
(540) 344-3579
<http://www.roact.org/programs/healthy-families/>

Homeless Assistance Team
339 Salem Ave., SW
Roanoke, VA 24016
(540) 853-1715
<https://www.roanokeva.gov/348/Homeless-Assistance-Team>

HOPE Initiative
1240 3rd St, SW
Roanoke, VA 24016
(540) 339-9010
<http://bradleyfreeclinic.com/services/roanoke-hope-initiative/>

Lead Safe Roanoke
215 Church Ave., SW Room 208 N
Roanoke, VA 24011
(540) 853-5682
<https://www.roanokeva.gov/684/Lead-Safe-Roanoke>

LEAP Local Food Market
1327 Grandin RD #201
Roanoke, VA 24015
(540) 632-1360
<http://leapforlocalfood.org/local-food/>

Lewis Gale Medical Center
1900 Electric Rd
Salem, VA 24153
(540) 776-4000
<https://lewisgale.com/location/lewisgale-medical-center>

Roanoke Public Library
706 S Jefferson St.
Roanoke, VA 24016
(540) 853-2473
<https://www.roanokeva.gov/892/Libraries>

South Roanoke Nursing Home
3823 Franklin Rd., SW
Roanoke, VA 24014
(540) 344-4325
<http://www.southroanokenursinghome.com/>

Roanoke Human Services (Medicaid)
1510 Williamson Rd., NE, 3rd floor
Roanoke, VA 24012
(540) 853-2894
<https://www.roanokeva.gov/372/Social-Services>

Roanoke Social Security Office (Medicare)
612 S Jefferson St., Suite 100
Roanoke, VA 24011
1-800-772-1213
<https://www.ssofficelocation.com/roanoke-social-security-office-so1436>

Virginia Premier Medical Home
5060 Valley View Blvd, NW
Roanoke, VA 24012
(540) 278-1051
<https://www.virginiapremier.com/medical-home/>

Mental Health America of Roanoke Valley
10 Church Ave., SE, #300
Roanoke, VA 24011
(540) 344-0931
<http://mharv.org/>

National Alliance on Mental Illness (NAMI)
NAMI Roanoke Valley PO Box 20864
Roanoke, VA 24018-0087
(540) 977-3470
<http://www.namiroanokevalley.us/>

On Our Own Roanoke Valley
429 Elm Ave., SW
Roanoke, VA 24016
(540) 362-0061
<https://vocalvirginia.org/events/roanoke-valley-offering-peer-recovery-specialist-46-hour-training/>

Pantry at Calvary Chapel
3839 Shenandoah Ave., NW
Roanoke, VA 24017
(540) 774-8400
<https://ccr.life/>

Roanoke Parks and Recreation
215 Church Ave., SW, Room 303
Roanoke, VA 24011
(540) 853-2236 <https://www.playroanoke.com/>

Presbyterian Community Center
1228 Jamison Ave., SE
Roanoke, VA 24013
(540) 982-2911
<http://pccse.org/>

Roanoke City Police Department
348 Campbell Ave., SW
Roanoke, VA 24016

(540) 853-2212
<https://www.roanokeva.gov/150/Police>

REACH, Inc.
344 Church Ave., SW
Roanoke, VA 24016
(540) 529-9200
<https://www.reachinroanokeva.org/>

Roanoke Area Ministries
824 Campbell Ave., SW
Roanoke, VA 24016
(540) 345-8850
<http://raminc.org/>

Roanoke's Prevention Alliance (RPA)
(540) 982-1427 x119
<http://www.roanokepreventionalliance.org/>

Salem Food Pantry
620 Chapman Ave
Salem, VA 24153
(540) 389-6938
<http://salemfoodpantry.org/>

Salvation Army
724 Dale Ave., SE
Roanoke, VA 24016
(540) 343-5335
<http://virginiasalvationarmy.org/roanokeva/>

Carilion Clinic Family Medicine SE
2145 Mt. Pleasant Blvd., SE
Roanoke, VA 24014
(540) 427-9200
https://www.carilionclinic.org/locations/carilion-clinic-family-medicine-southeast?utm_source=GMB&utm_campaign=local-listing

Virginia Navigator Center
706 Campbell Ave., SW
Roanoke, VA 24016
(540) 345-0451
<http://virginiannavigator.org/>

Supplemental Nutrition Assistance Program (SNAP)
1510 Williamson Rd., NE
Roanoke, VA 24012
(540) 853-2591
<https://www.benefits.gov/benefits/benefit-details/1593>

Temporary Assistance for Needy Families (TANF)
1510 Williamson Rd., NE
Roanoke, VA 24012
(540) 853-2591
<http://www.dss.virginia.gov/benefit/tanf/>

Carilion Clinic Adolescent Medicine
902 S Jefferson St
Roanoke, VA 24016
(540) 985-9075
<https://www.carilionclinic.org/locations/carilion-clinic-adolescent-medicine>

Carilion Clinic Transgender Services
1906 Belleview Ave., SE
Roanoke, VA 24014
(540) 981-7000
<https://www.carilionclinic.org/locations/carilion-roanoke-memorial-hospital>

United Way of Roanoke Valley
325 Campbell Ave., SW
Roanoke, VA 24016
(540) 777-4200
<https://www.uwrv.org/>

AFC Urgent Care
602 Brandon Ave., SW #222
Roanoke, VA 24015
(540) 774-0000
<https://www.afcurgentcareroanoke.com/>

Salem Veterans Affairs Medical Center
1970 Roanoke Blvd.
Salem, VA 24153
(540) 982-2463 <https://www.salem.va.gov/>

Virginia Cooperative Extension
3738 Brambleton Ave., SW
Roanoke, VA 24018-3639
(540) 772-7524 <https://roanoke.ext.vt.edu/>

Virginia Western Dental Hygiene
3094 Colonial Ave
Roanoke, VA 24015
(540) 857-8922
https://www.virginiawestern.edu/academics/health/dental/dental_clinic.php

WIC Roanoke
1502 Williamson Rd., NE 2nd floor
Roanoke, VA 24012
(540) 283-5050
<http://www.vdh.virginia.gov/roanoke/women-infants-and-children/>

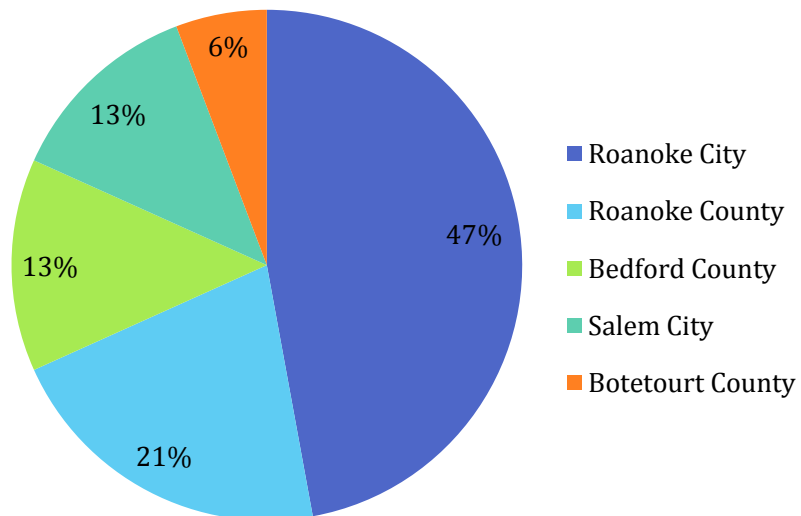
Appendix 9: Cancer Community Health Survey

To better understand the specific needs of those with cancer, the Community Health Survey was filtered to show results from respondents who self-identified as having cancer or once having cancer.

Demographics

County of Residence

Locality	#	%
Roanoke City	49	47.1%
Roanoke County	22	21.2%
Bedford County	14	13.5%
Salem City	13	12.5%
Botetourt County	6	5.8%
Craig County	0	0.0%
Total Responses:	104	



Which of the following describes your current type of health insurance? (Check all that apply)

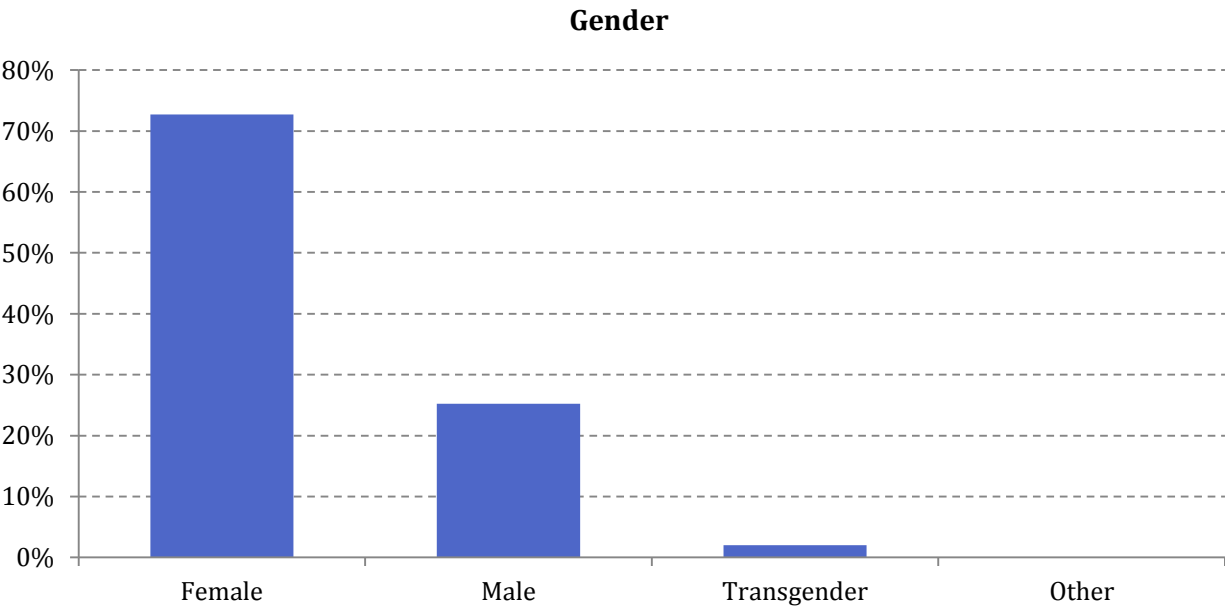
	#	%
Employer Provided Insurance	37	37.4%
Medicare	35	35.4%
Dental Insurance	28	28.3%
Medicare Supplement	20	20.2%
No Dental Insurance	20	20.2%
Medicaid	19	19.2%
Individual / Private Insurance / Market Place / Obamacare	12	12.1%
No Health Insurance	11	11.1%
Health Savings / Spending Account	9	9.1%
Government (VA, Champus)	6	6.1%
COBRA	1	1.0%
Answered	99	
Skipped	5	

If you have no health insurance, why don't you have insurance? (Check all that apply)

	#	%
Not applicable- I have health insurance	43	74.1%
Too expensive / cost	10	17.2%
Unemployed / no job	5	8.6%
I don't understand Marketplace / Obamacare Options	2	3.4%
Not available at my job	2	3.4%
Student	0	0.0%
Other	2	3.4%
Answered	58	
Skipped	46	

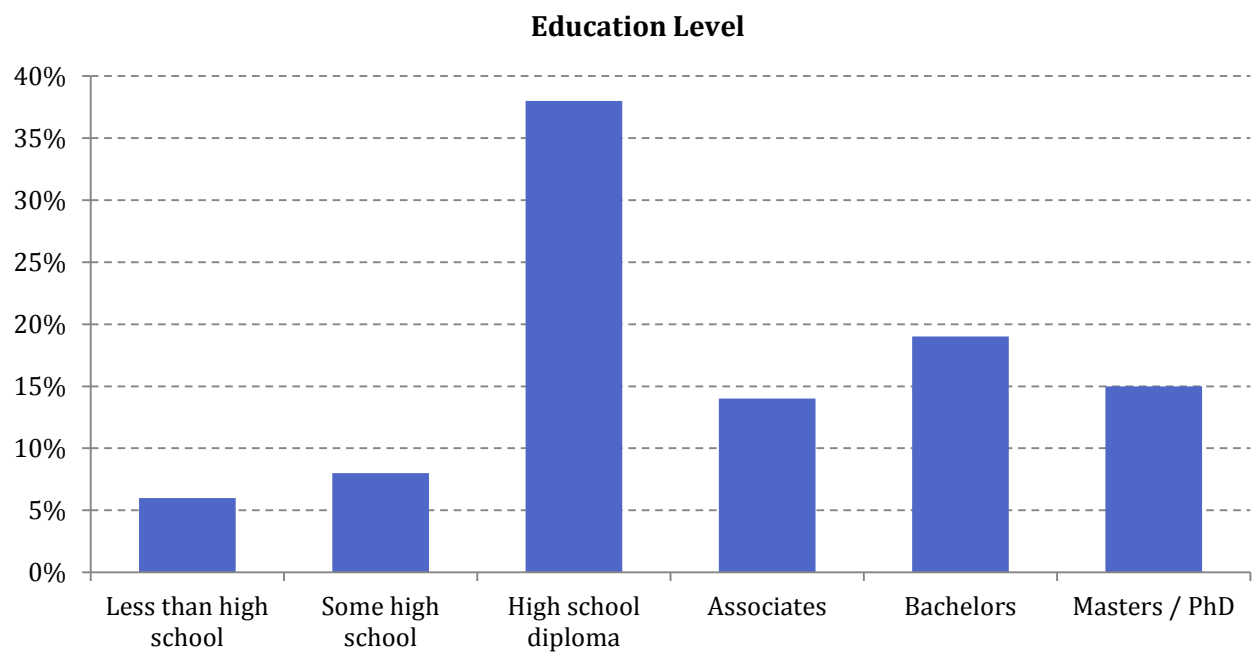
What is your gender?

	#	%
Female	72	72.7%
Male	25	25.3%
Transgender	2	2.0%
Other	0	0.0%
Answered	99	
Skipped	5	



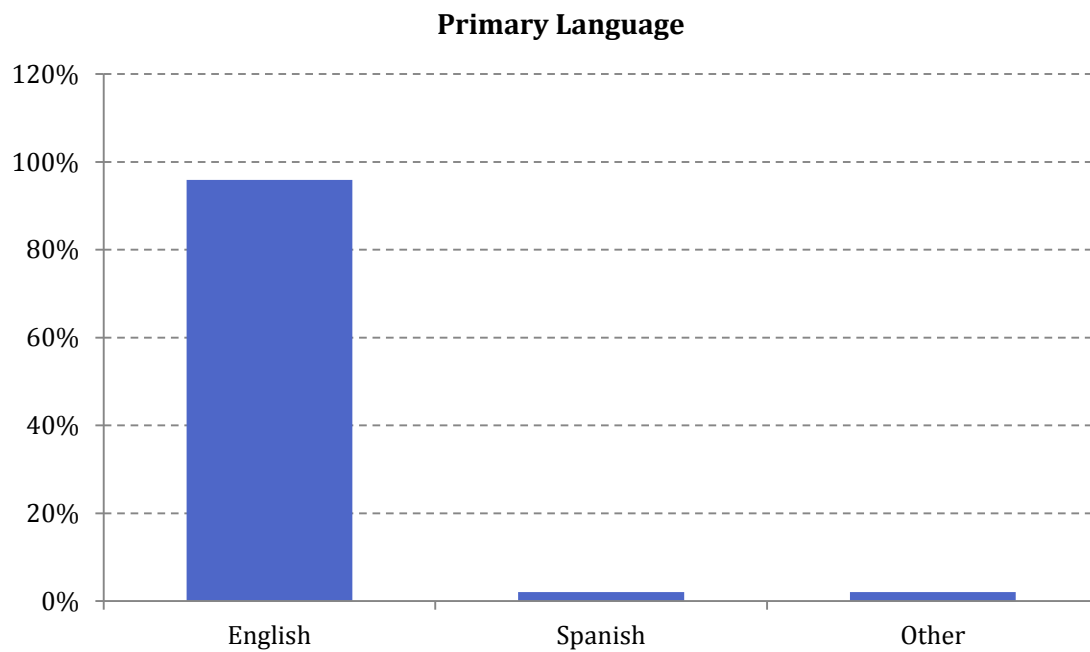
What is your highest education level completed?

	#	%
Less than high school	6	6.0%
Some high school	8	8.0%
High school diploma	38	38.0%
Associates	14	14.0%
Bachelors	19	19.0%
Masters / PhD	15	15.0%
Answered	100	
Skipped	4	



What is your primary language?

	#	%
English	94	95.9%
Spanish	2	2.0%
Other	2	2.0%
Answered	98	
Skipped	6	

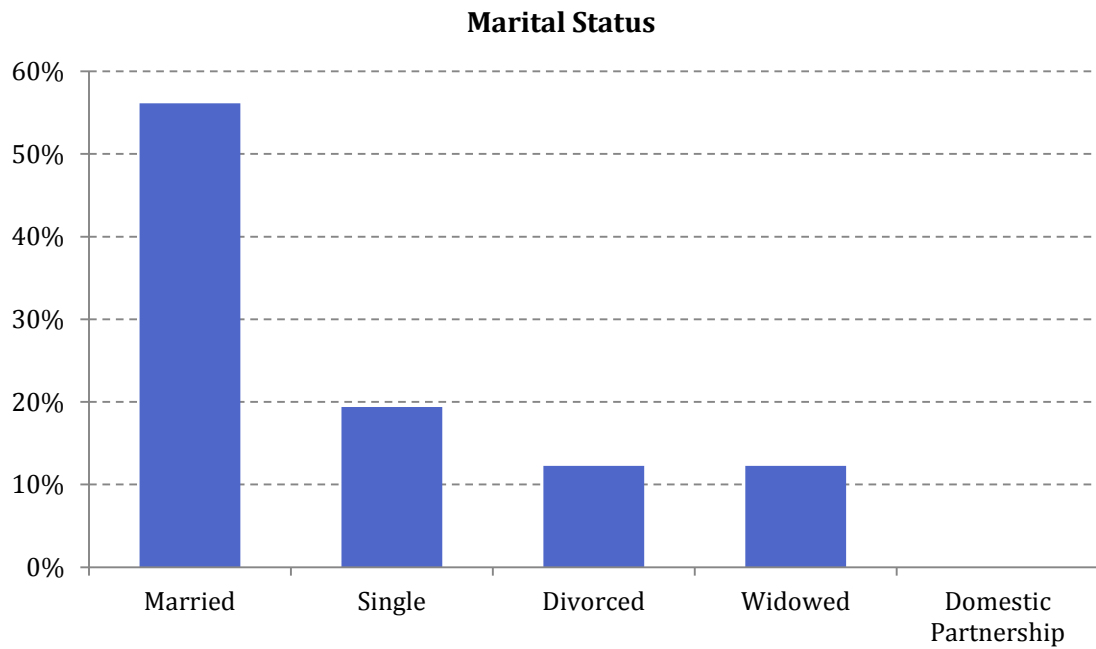


What ethnicity do you identify with? (Check all that apply)

	#	%
White	85	85.0%
Black / African American	9	9.0%
Latino	4	4.0%
Decline to answer	3	3.0%
American Indian / Alaskan Native	2	2.0%
Asian	1	1.0%
More than one race	1	1.0%
Native Hawaiian / Pacific Islander	0	0.0%
Other	0	0.0%
Answered	100	
Skipped	4	

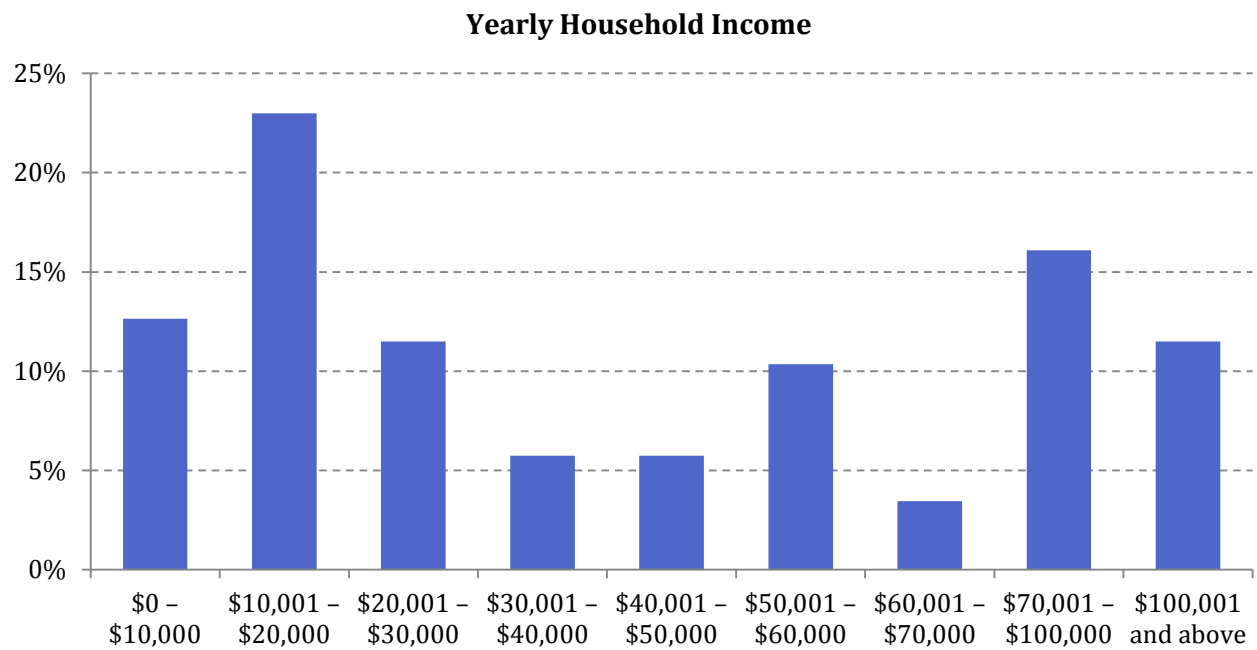
What is your marital status?

	#	%
Married	55	56.1%
Single	19	19.4%
Divorced	12	12.2%
Widowed	12	12.2%
Domestic Partnership	0	0.0%
Answered	98	
Skipped	6	



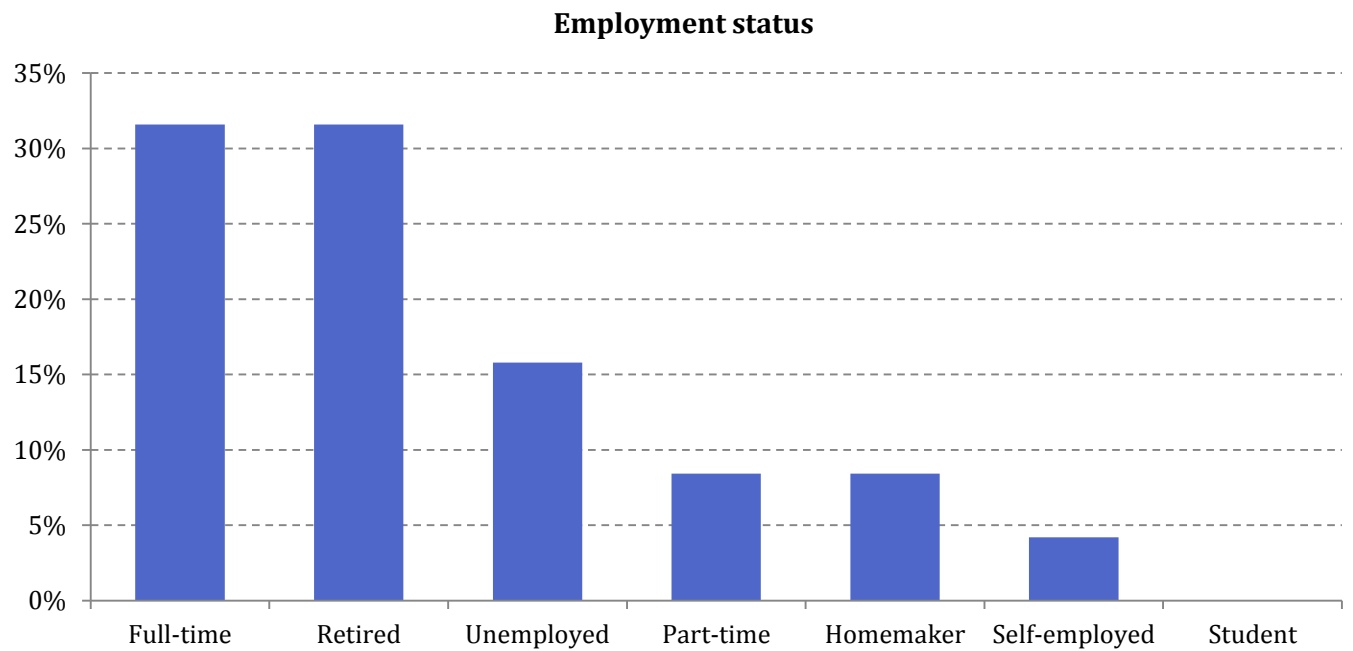
What is your yearly household income?

	#	%
\$0 – \$10,000	11	12.6%
\$10,001 – \$20,000	20	23.0%
\$20,001 – \$30,000	10	11.5%
\$30,001 – \$40,000	5	5.7%
\$40,001 – \$50,000	5	5.7%
\$50,001 – \$60,000	9	10.3%
\$60,001 – \$70,000	3	3.4%
\$70,001 – \$100,000	14	16.1%
\$100,001 and above	10	11.5%
Answered	87	
Skipped	17	



What is your current employment status?

	#	%
Full-time	30	31.6%
Retired	30	31.6%
Unemployed	15	15.8%
Part-time	8	8.4%
Homemaker	8	8.4%
Self-employed	4	4.2%
Student	0	0.0%
Answered	95	
Skipped	9	

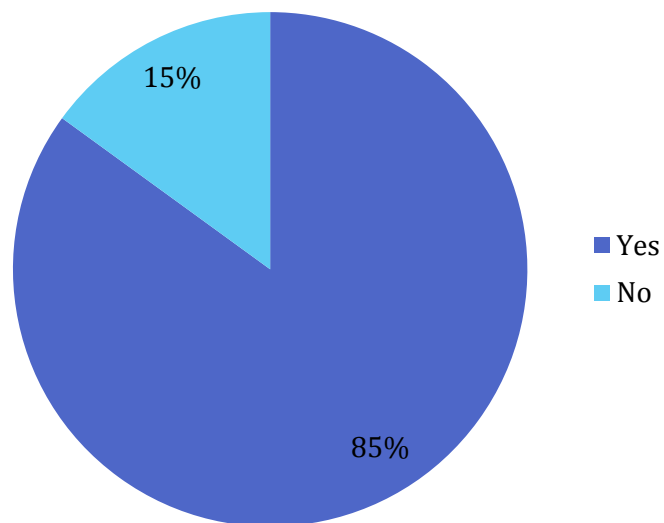


Responses

1. Is there a specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health?

	#	%
Yes	85	85.0%
No	15	15.0%
Answered	100	
Skipped	4	

Is there a specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health?

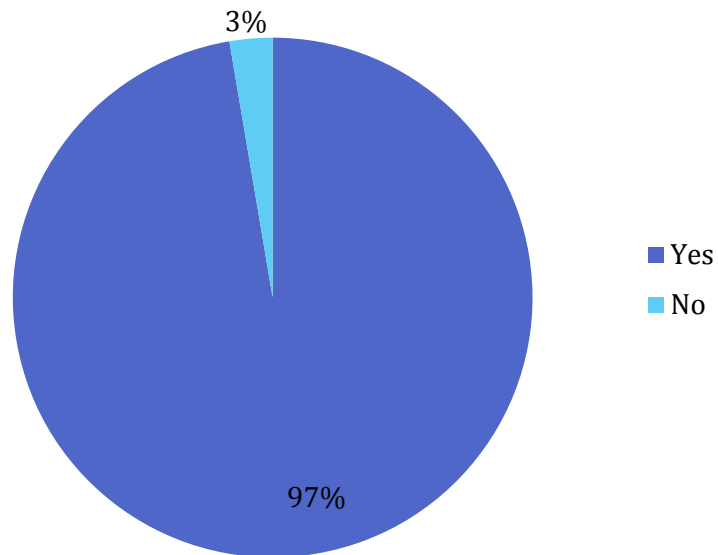


When thinking about the specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health:

Is this where you would go for new health problems?

	#	%
Yes	73	97.3%
No	2	2.7%
Answered	75	
Skipped	29	

Is this where you would go for new health problems?

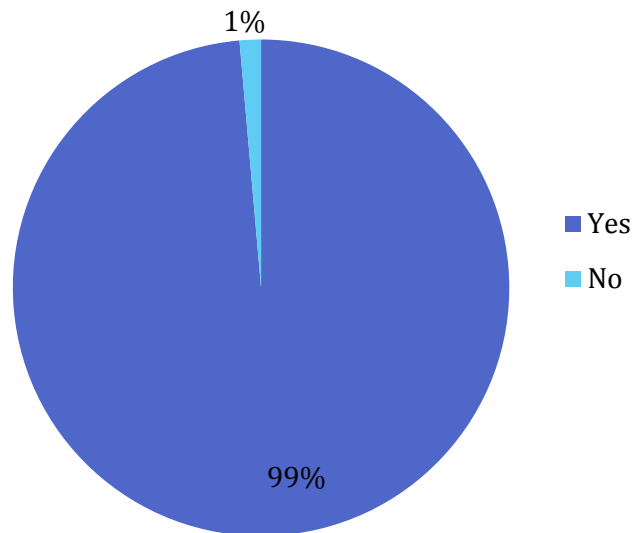


When thinking about the specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health:

Is this where you would go for preventive health care, such as general check-ups, examinations, and immunizations (shots)?

	#	%
Yes	71	98.6%
No	1	1.4%
Answered	72	
Skipped	32	

Is this where you would go for preventive health care, such as general check-ups, examinations, and immunizations (shots)?

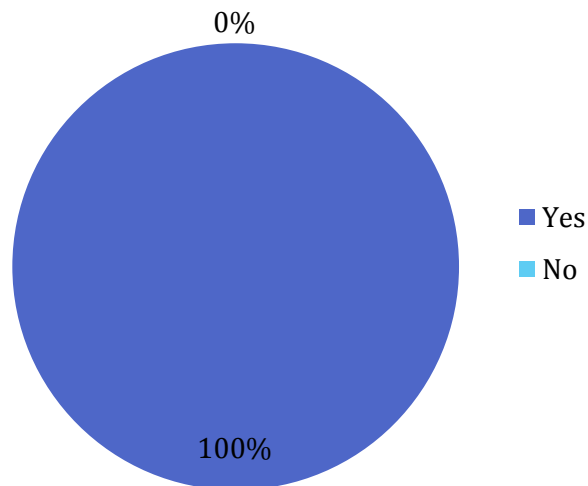


When thinking about the specific doctor's office, health center, or other place that you usually go if you are sick or need advice about your health:

Is this where you would go for referrals to other health professions when needed?

	#	%
Yes	69	100.0%
No	0	0.0%
Answered	69	
Skipped	35	

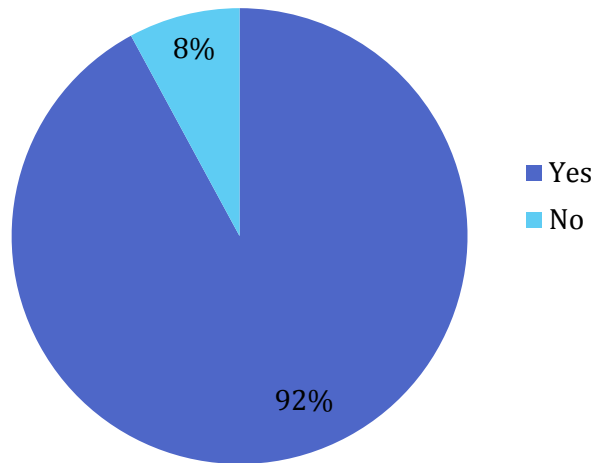
Is this where you would go for referrals to other health professions when needed?



2. Do you use medical care services?

	#	%
Yes	92	92.0%
No	8	8.0%
Answered	100	
Skipped	4	

Do you use medical care services?



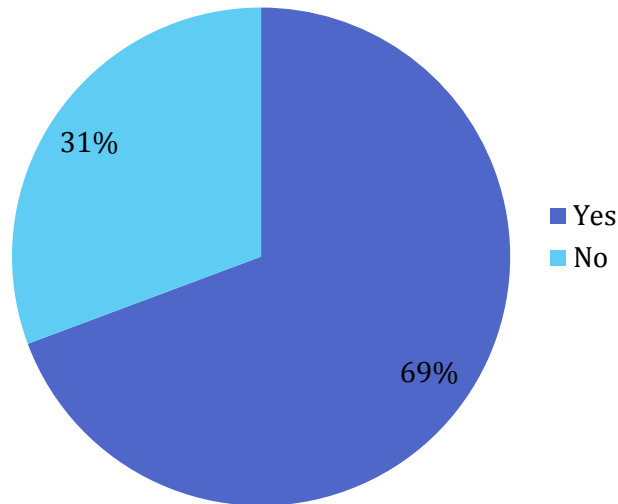
Where do you go for medical care? (Check all that apply)

	#	%
Doctor's Office	62	64.6%
Emergency Room	26	27.1%
Carilion Clinic Family Medicine – Roanoke/Salem	24	25.0%
LewisGale Medical Center	24	25.0%
Urgent Care / Walk in Clinic	21	21.9%
Carilion Clinic Family Medicine - Other Sites	10	10.4%
Carilion Clinic Community Care	9	9.4%
Carilion Clinic Family Medicine – Southeast	8	8.3%
New Horizons Healthcare	7	7.3%
Pharmacy Clinic	6	6.3%
Salem VA Medical Center	6	6.3%
Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Mental Health America, Botetourt Christian Free Clinic)	5	5.2%
Health Department	2	2.1%
Planned Parenthood	2	2.1%
Virginia Premier Medical Home	2	2.1%
Craig County Community Health Center	1	1.0%
Other	6	6.3%
Answered	96	
Skipped	8	

3. Do you use dental care services?

	#	%
Yes	70	69.3%
No	31	30.7%
Answered	101	
Skipped	3	

Do you use dental care services?



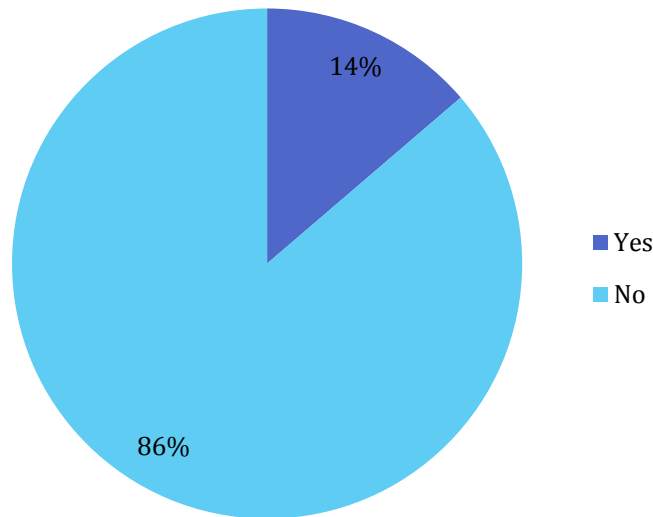
Where do you go for dental care? (Check all that apply)

	#	%
Dentist's office	59	83.1%
Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Botetourt Christian Free Clinic)	3	4.2%
New Horizons Healthcare	3	4.2%
Kool Smiles	3	4.2%
Commonwealth Dental	2	2.8%
Carilion Dental Clinic	1	1.4%
Emergency Room	1	1.4%
Salem VA Medical Center	1	1.4%
VWCC Dental Hygiene Program	1	1.4%
Craig County Community Health Center	0	0.0%
Mission of Mercy Project	0	0.0%
Urgent Care / Walk in Clinic	0	0.0%
Other	1	1.4%
Answered	71	
Skipped	33	

4. Do you use mental health, alcohol abuse, or drug abuse services?

	#	%
Yes	14	13.7%
No	88	86.3%
Answered	102	
Skipped	0	

Do you use mental health, alcohol abuse, or drug abuse services?



Where do you go for mental health, alcohol abuse, or drug abuse services? (Check all that apply)

	#	%
Doctor/Counselor's Office	5	35.7%
Blue Ridge Behavioral Healthcare	3	21.4%
Salem VA Medical Center	2	14.3%
Connect	1	7.1%
Emergency Room	1	7.1%
Mental Health America of Roanoke Valley	1	7.1%
New Horizons Healthcare	1	7.1%
Catawba Hospital	0	0.0%
Family Service of Roanoke Valley	0	0.0%
Free Clinic (e.g. Bradley Free Clinic, Fralin Free Clinic - Rescue Mission, Botetourt Christian Free Clinic)	0	0.0%
Respond	0	0.0%
Urgent Care / Walk in Clinic	0	0.0%
Other	4	28.6%
Answered	14	
Skipped	90	

5. What do you think are the five most important issues that affect health in our community? (Please check five)

	#	%
Cancers	42	40.4%
Alcohol and illegal drug use	36	34.6%
Overweight / obesity	36	34.6%
Mental health problems	34	32.7%
Lack of exercise	30	28.8%
Diabetes	29	27.9%
Heart disease and stroke	26	25.0%
Prescription drug abuse	23	22.1%
Stress	22	21.2%
Cell phone use / texting and driving / distracted driving	21	20.2%
Access to healthy foods	20	19.2%
Aging problems	20	19.2%
Poor eating habits	20	19.2%
High blood pressure	19	18.3%
Tobacco use / smoking	15	14.4%
Child abuse / neglect	12	11.5%
Domestic violence	10	9.6%
Access to affordable housing	9	8.7%
Dental problems	8	7.7%
Bullying	7	6.7%
Neighborhood safety	7	6.7%
Accidents in the home (ex. falls, burns, cuts)	6	5.8%
Environmental health (e.g. water quality, air quality, pesticides, etc.)	6	5.8%
Not using seat belts / child safety seats / helmets	6	5.8%
Gang activity	5	4.8%
Suicide	5	4.8%
Lung disease	4	3.8%
Not getting "shots" to prevent disease	4	3.8%
Sexual assault	4	3.8%
HIV / AIDS	3	2.9%
Teenage pregnancy	3	2.9%
Unsafe sex	3	2.9%
Homicide	0	0.0%
Infant death	0	0.0%
Other	3	2.9%
Answered		104
Skipped		0

6. Which health care services are hard to get in our community? (Check all that apply)

	#	%
Adult dental care	36	37.5%
Mental health / counseling	25	26.0%
Dermatology	20	20.8%
Substance abuse services –drug and alcohol	20	20.8%
Alternative therapy (ex. herbal, acupuncture, massage)	19	19.8%
Eldercare	15	15.6%
Medication / medical supplies	15	15.6%
Programs to stop using tobacco products	14	14.6%
Cancer care	13	13.5%
None	13	13.5%
Chiropractic care	12	12.5%
Domestic violence services	12	12.5%
Emergency room care	11	11.5%
Family doctor	10	10.4%
Preventive care (ex. yearly check-ups)	10	10.4%
Vision care	10	10.4%
End of life / hospice / palliative care	7	7.3%
Lab work	7	7.3%
Urgent care / walk in clinic	7	7.3%
Child dental care	6	6.3%
Specialty care (ex. heart doctor)	6	6.3%
Family planning / birth control	3	3.1%
Inpatient hospital	3	3.1%
X-rays / mammograms	3	3.1%
Physical therapy	2	2.1%
Women's health services	2	2.1%
Ambulance services	1	1.0%
Immunizations	0	0.0%
Other	6	6.3%
Answered	96	
Skipped	8	

7. What do you feel prevents you from getting the healthcare you need? (Check all that apply)

	#	%
Cost	41	44.6%
I can get the healthcare I need	27	29.3%
High co-pay	25	27.2%
Long waits for appointments	23	25.0%
No health Insurance	15	16.3%
Lack of evening and weekend services	14	15.2%
No transportation	9	9.8%
Can't find providers that accept my Medicaid insurance	9	9.8%
Can't find providers that accept my Medicare insurance	8	8.7%
Have no regular source of healthcare	7	7.6%
Location of offices	6	6.5%
Afraid to have check-ups	5	5.4%
Don't know what types of services are available	5	5.4%
Childcare	4	4.3%
Don't trust doctors / clinics	4	4.3%
Don't like accepting government assistance	3	3.3%
Language services	3	3.3%
Other	7	7.6%
Answered		92
Skipped		12

8. Please check one of the following for each statement:

	Yes		No		Not applicable	
	#	%	#	%	#	%
I have had an eye exam within the past 12 months.	69	68.3%	32	31.7%	0	0.0%
I have had a mental health / substance abuse visit within the past 12 months.	12	12.1%	73	73.7%	14	14.1%
I have had a dental exam within the past 12 months.	53	53.5%	46	46.5%	0	0.0%
I have been to the emergency room in the past 12 months.	31	31.6%	65	66.3%	2	2.0%
I have been to the emergency room for an injury in the past 12 months (e.g. motor vehicle crash, fall, poisoning, burn, cut, etc.).	7	7.1%	89	89.9%	3	3.0%
I have been a victim of domestic violence or abuse in the past 12 months.	3	3.0%	91	91.9%	5	5.1%
My doctor has told me that I have a long-term or chronic illness.	61	62.2%	37	37.8%	0	0.0%
I take the medicine my doctor tells me to take to control my chronic illness.	64	64.0%	20	20.0%	16	16.0%
I can afford medicine needed for my health conditions.	57	62.0%	27	29.3%	8	8.7%
I am over 21 years of age and have had a Pap smear in the past three years (if male or under 21, please check not applicable).	49	50.0%	19	19.4%	30	30.6%
I am over 40 years of age and have had a mammogram in the past 12 months (if male or under 40, please check not applicable).	43	43.4%	20	20.2%	36	36.4%
I am over 50 years of age and have had a colonoscopy in the past 10 years (if under 50, please check not applicable).	57	57.6%	21	21.2%	21	21.2%
Does your neighborhood support physical activity? (e.g. parks, sidewalks, bike lanes, etc.)	59	60.2%	37	37.8%	2	2.0%
Does your neighborhood support healthy eating? (e.g. community gardens, farmers' markets, etc.)	51	52.6%	42	43.3%	4	4.1%
In the area that you live, is it easy to get affordable fresh fruits and vegetables?	75	75.8%	24	24.2%	0	0.0%
Have there been times in the past 12 months when you did not have enough money to buy the food that you or your family needed?	32	32.3%	62	62.6%	5	5.1%
Have there been times in the past 12 months when you did not have enough money to pay your rent or mortgage?	27	28.7%	62	66.0%	5	5.3%
Do you feel safe in your neighborhood?	84	91.3%	8	8.7%	0	0.0%
Answered		102				
Skipped		2				

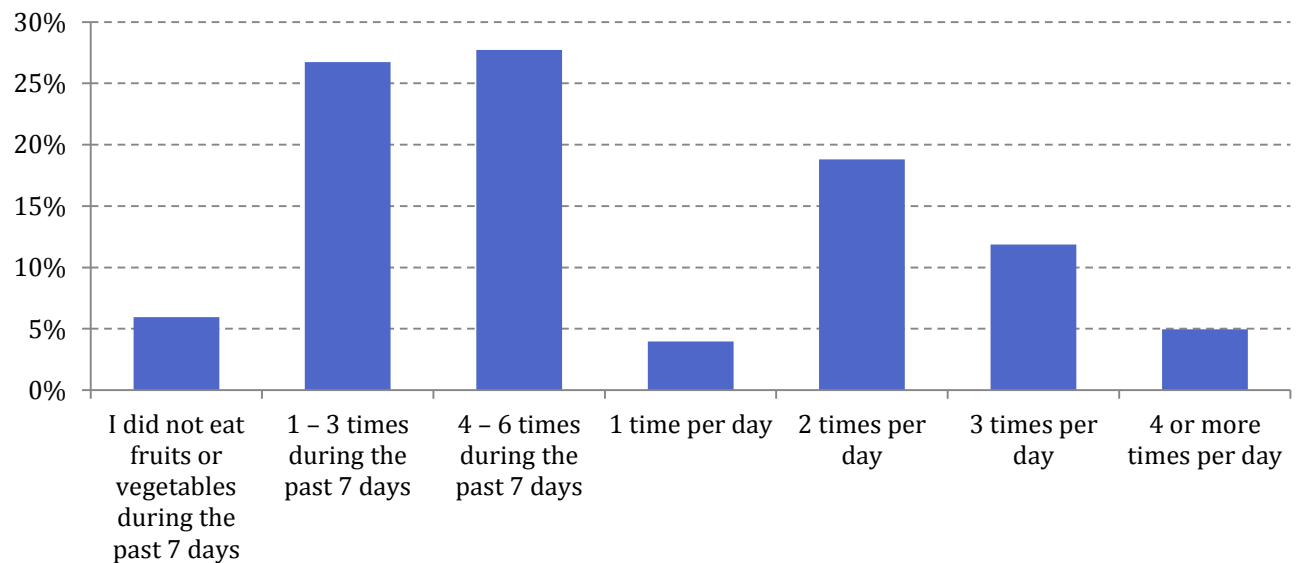
9. Where do you get the food that you eat at home? (Check all that apply)

	#	%
Grocery store	94	93.1%
Take-out / fast food / restaurant	32	31.7%
Farmers' Market	23	22.8%
Dollar store	20	19.8%
Home Garden	16	15.8%
Food bank / food kitchen / food pantry	12	11.9%
Corner store / convenience store / gas station	9	8.9%
Back-pack or summer food programs	6	5.9%
I regularly receive food from family, friends, neighbors, or my church	5	5.0%
Community Garden	2	2.0%
I do not eat at home	1	1.0%
Meals on Wheels	0	0.0%
Other	8	7.9%
Answered		101
Skipped		3

10. During the past 7 days, how many times did you eat fruit or vegetables (fresh or frozen)? Do not count fruit or vegetable juice. (Please check one)

	#	%
I did not eat fruits or vegetables during the past 7 days	6	5.9%
1 – 3 times during the past 7 days	27	26.7%
4 – 6 times during the past 7 days	28	27.7%
1 time per day	4	4.0%
2 times per day	19	18.8%
3 times per day	12	11.9%
4 or more times per day	5	5.0%
Answered	101	
Skipped	3	

During the past 7 days, how many times did you eat fruit or vegetables (fresh or frozen)?

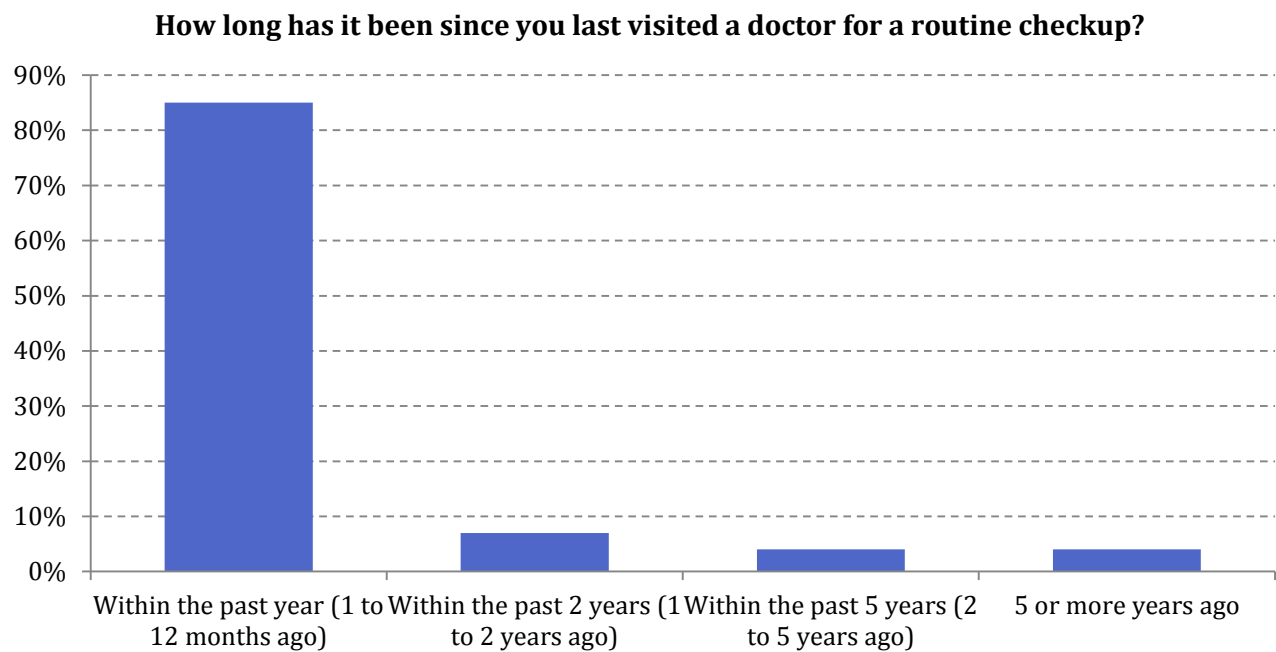


11. Have you been told by a doctor that you have... (Check all that apply)

	#	%
Cancer	104	100.0%
High blood pressure	39	37.5%
Depression or anxiety	34	32.7%
High cholesterol	33	31.7%
Obesity / overweight	32	30.8%
High blood sugar or diabetes	24	23.1%
Asthma	21	20.2%
COPD / chronic bronchitis / Emphysema	16	15.4%
Heart disease	16	15.4%
Mental health problems	12	11.5%
Stroke / Cerebrovascular disease	4	3.8%
Cerebral palsy	2	1.9%
Drug or alcohol problems	2	1.9%
HIV / AIDS	2	1.9%
I have no health problems	2	1.9%
Other	8	7.7%
Answered	104	
Skipped	0	

12. How long has it been since you last visited a doctor for a routine checkup? (Please check one)

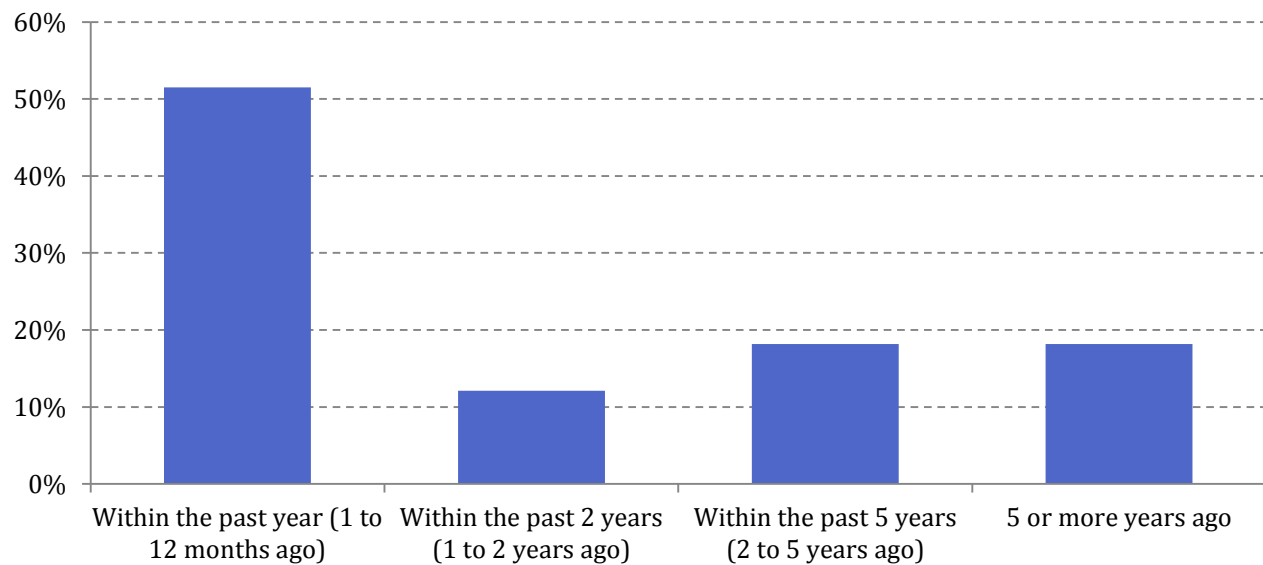
	#	%
Within the past year (1 to 12 months ago)	85	85.0%
Within the past 2 years (1 to 2 years ago)	7	7.0%
Within the past 5 years (2 to 5 years ago)	4	4.0%
5 or more years ago	4	4.0%
Answered	100	
Skipped	4	



**13. How long has it been since you last visited a dentist or a dental clinic for any reason?
Include visits to dental specialists, such as orthodontists. (Please check one)**

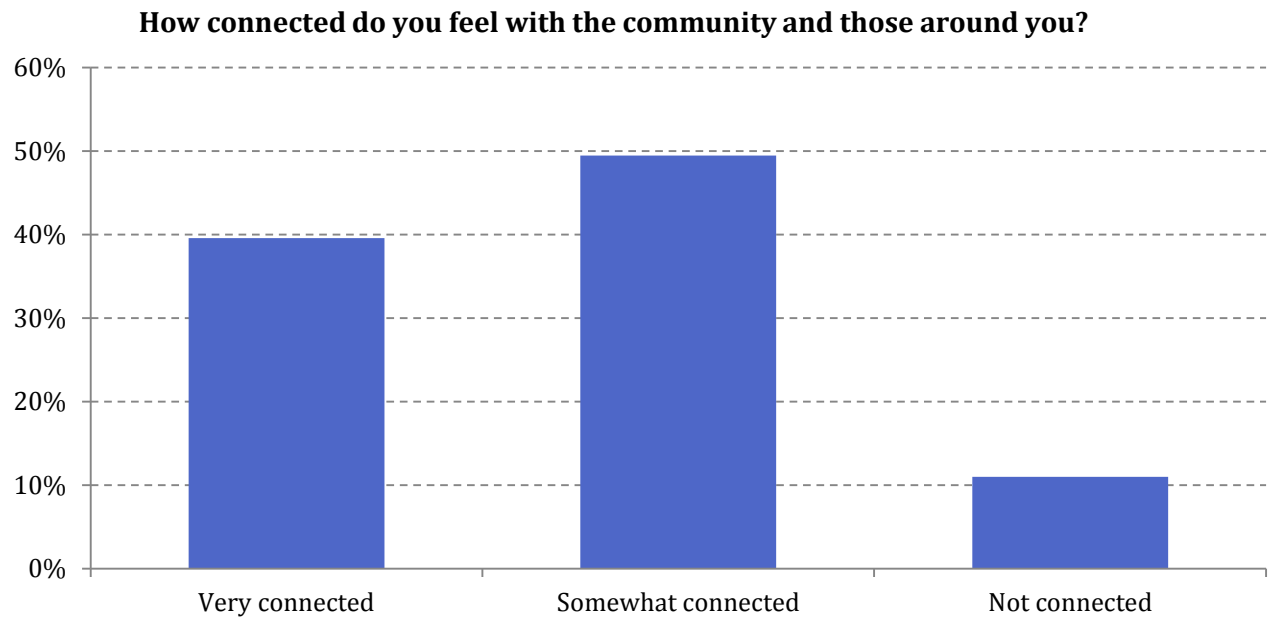
	#	%
Within the past year (1 to 12 months ago)	51	51.5%
Within the past 2 years (1 to 2 years ago)	12	12.1%
Within the past 5 years (2 to 5 years ago)	18	18.2%
5 or more years ago	18	18.2%
Answered	99	
Skipped	5	

How long has it been since you last visited a dentist or a dental clinic for any reason?



14. How connected do you feel with the community and those around you?

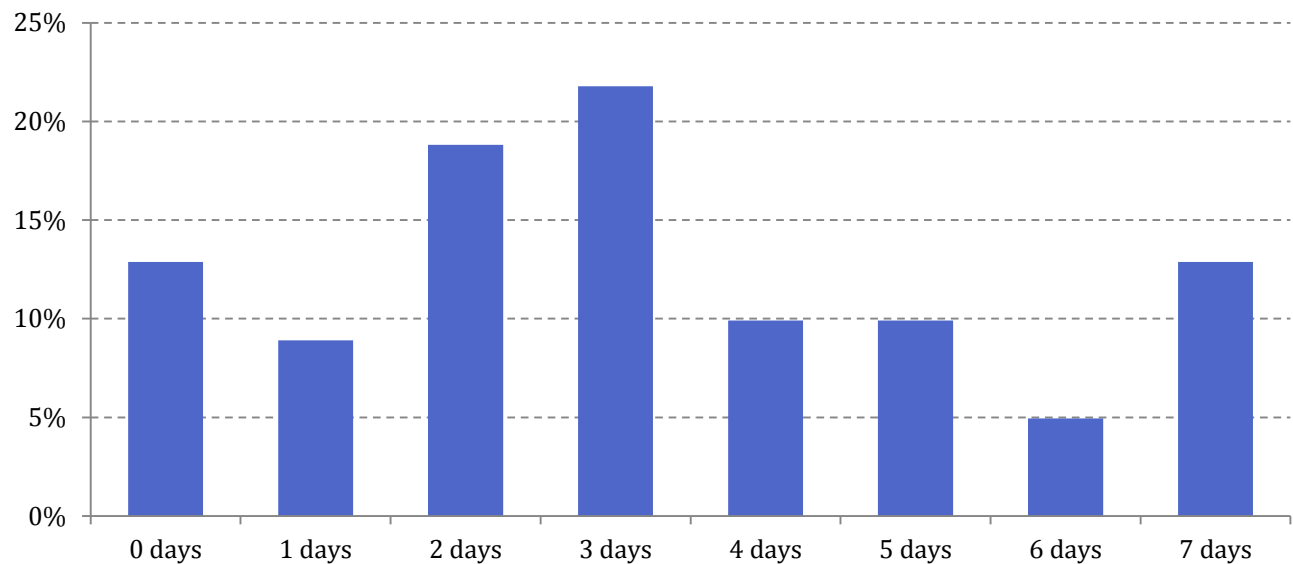
	#	%
Very connected	36	39.6%
Somewhat connected	45	49.5%
Not connected	10	11.0%
Answered	91	
Skipped	13	



15. In the past 7 days, on how many days were you physically active for a total of at least 30 minutes? (Add up all the time you spent in any kind of physical activity that increased your heart rate and made you breathe hard for some of the time.)

	#	%
0 days	13	12.9%
1 day	9	8.9%
2 days	19	18.8%
3 days	22	21.8%
4 days	10	9.9%
5 days	10	9.9%
6 days	5	5.0%
7 days	13	12.9%
Answered	101	
Skipped	3	

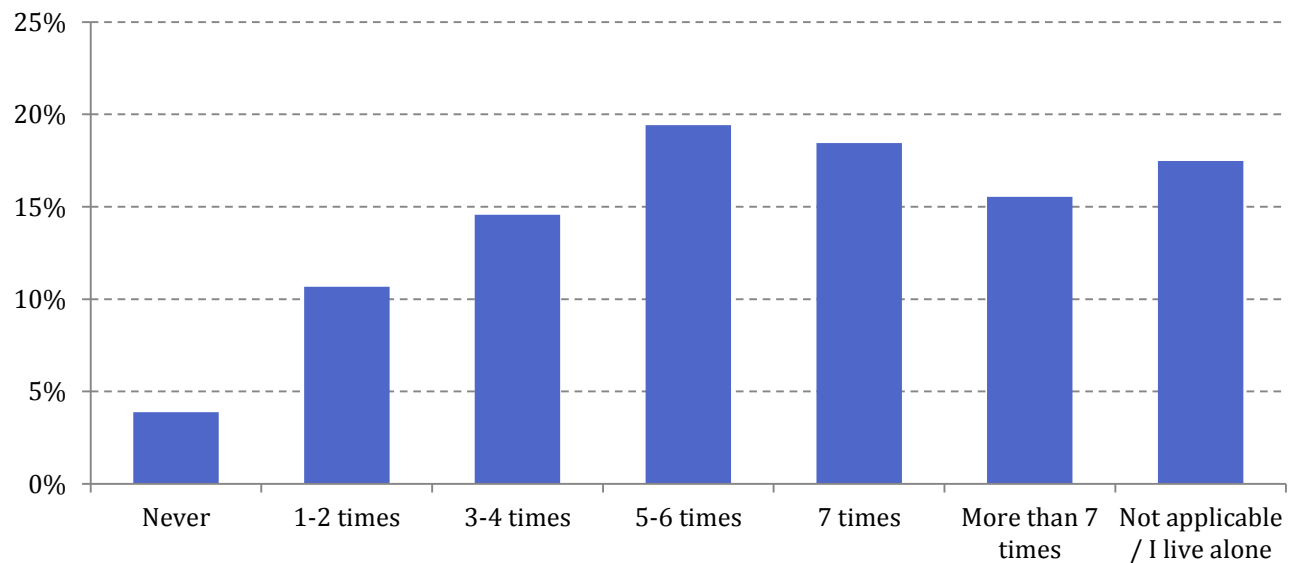
In the past 7 days, on how many days were you physically active for a total of at least 30 minutes?



16. During the past 7 days, how many times did all, or most, of your family living in your house eat a meal together?

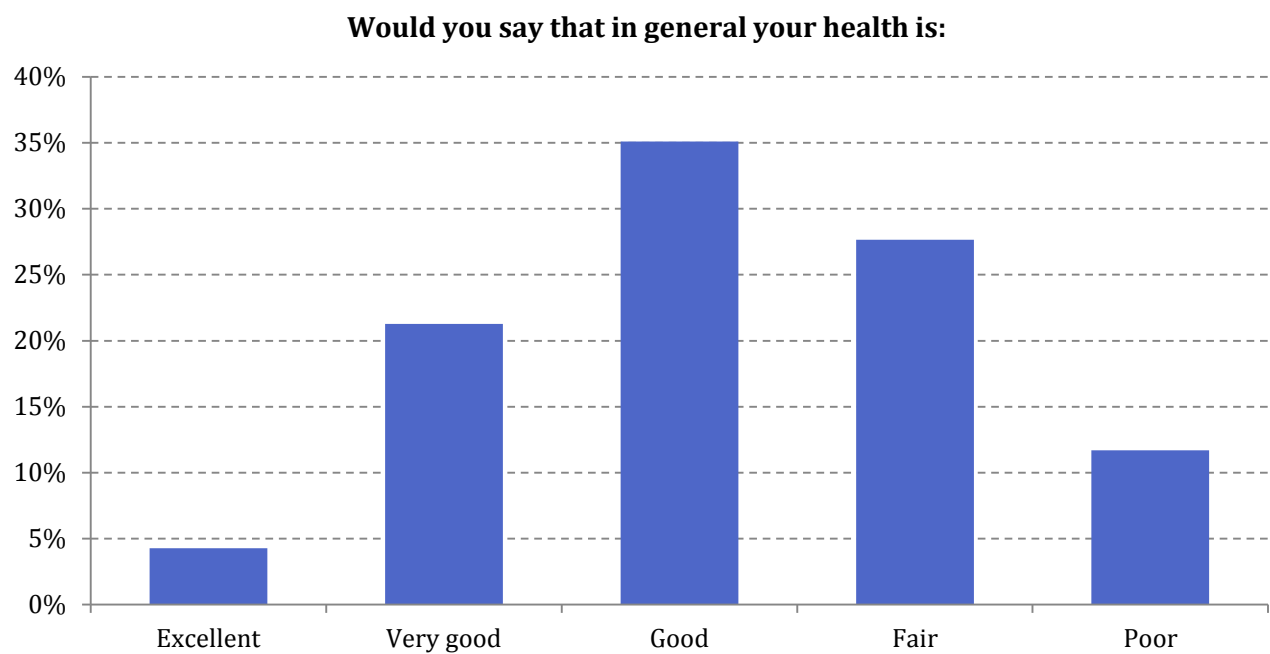
	#	%
Never	4	3.9%
1-2 times	11	10.7%
3-4 times	15	14.6%
5-6 times	20	19.4%
7 times	19	18.4%
More than 7 times	16	15.5%
Not applicable / I live alone	18	17.5%
Answered	103	
Skipped	1	

During the past 7 days, how many times did all, or most, of your family living in your house eat a meal together?



17. Would you say that in general your health is: (Please check one)

	#	%
Excellent	4	4.3%
Very good	20	21.3%
Good	33	35.1%
Fair	26	27.7%
Poor	11	11.7%
Answered	94	
Skipped	10	



18. Thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?*

Median:	3.0
Answered	84
Skipped	20

*Median was used due to the skewed distribution of the responses.
These median data are not directly comparable to the averages reported in the 2015 report.

19. Thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?*

Median:	2.0
Answered	85
Skipped	19

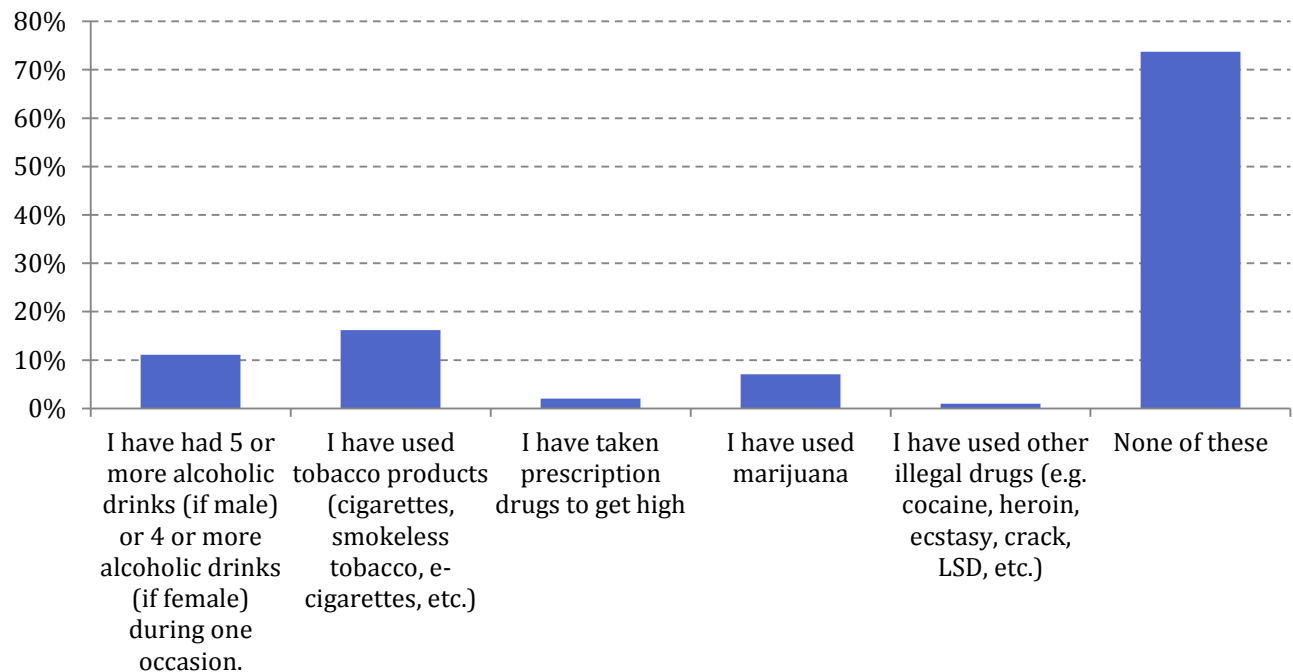
*Median was used due to the skewed distribution of the responses.
These median data are not directly comparable to the averages reported in the 2015 report.

20. During the past 30 days: (Check all that apply)*

	#	%
I have had 5 or more alcoholic drinks (if male) or 4 or more alcoholic drinks (if female) during one occasion.	11	11.1%
I have used tobacco products (cigarettes, smokeless tobacco, e-cigarettes, etc.)	16	16.2%
I have taken prescription drugs to get high	2	2.0%
I have used marijuana	7	7.1%
I have used other illegal drugs (e.g. cocaine, heroin, ecstasy, crack, LSD, etc.)	1	1.0%
None of these	73	73.7%
Answered	99	
Skipped	5	

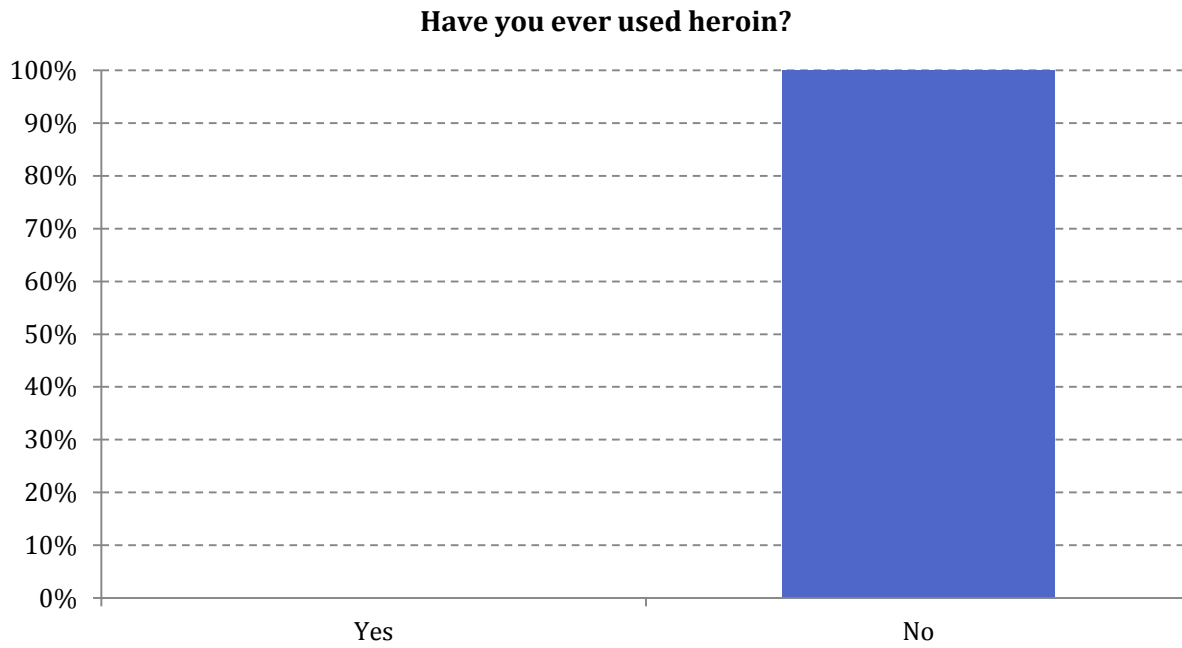
*These 2018 data are not comparable to 2015 data, as this question was reformatted for data quality and accuracy

During the past 30 days:



21. Have you ever used heroin?

	#	%
Yes	0	0.0%
No	99	100.0%
Answered	99	
Skipped	5	



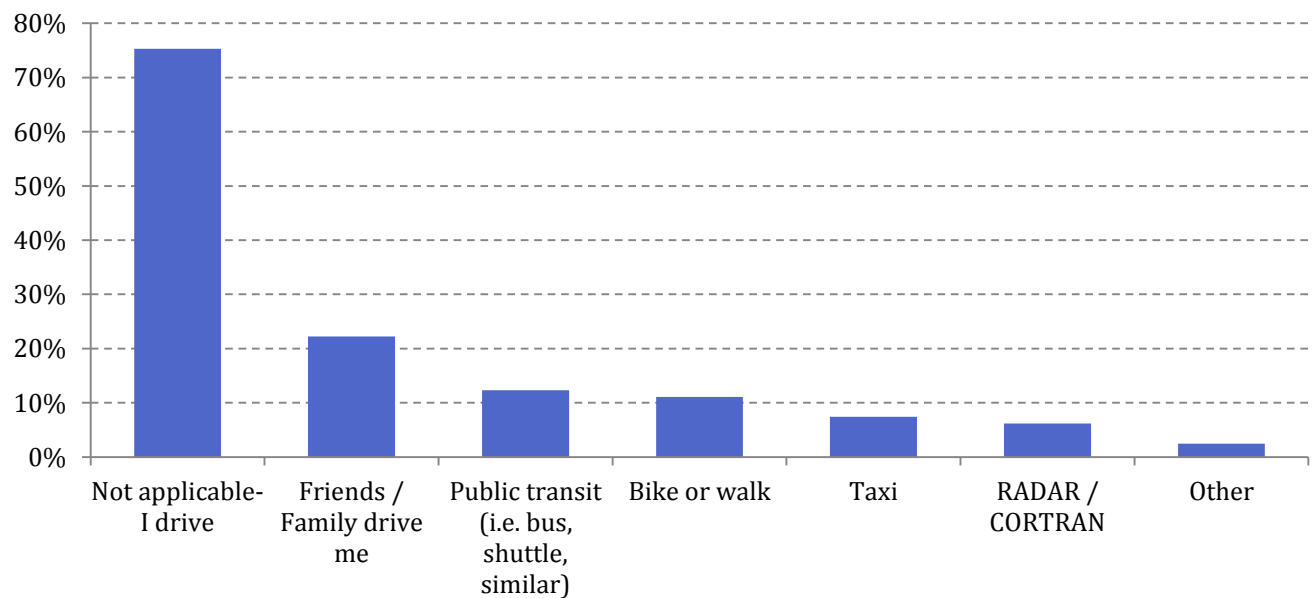
22. How many vehicles are owned, leased, or available for regular use by you and those who currently live in your household? Please be sure to include motorcycles, mopeds and RVs

Average:	1.8
Answered	91
Skipped	13

23. If you do not drive, what mode of transportation do you typically use?

	#	%
Not applicable- I drive	61	75.3%
Friends / Family drive me	18	22.2%
Public transit (i.e. bus, shuttle, similar)	10	12.3%
Bike or walk	9	11.1%
Taxi	6	7.4%
RADAR / CORTAN	5	6.2%
Other	2	2.5%
Answered	81	
Skipped	23	

If you do not drive, what mode of transportation do you typically use?



Appendix 10: Links and References to Other Community Health Assessments and Data

- Council of Community Services, Recent Publications and Reports.
<http://councilofcommunityservices.org/about/community-publications-and-reports/>
- Roanoke Valley-Alleghany Regional Commission, Blue Ridge Interagency Council on Homelessness. <http://rvarc.org/community/homelessness/>
- Roanoke Valley-Alleghany Regional Commission, Documents.
<http://rvarc.org/documents-maps/>
- Roanoke Valley-Alleghany Regional Commission, Livable Roanoke Valley.
<http://rvarc.org/livableroanoke/>
- Star City Smiles – Oral Health Assessments (Community Survey Report & Oral Health Indicator Report). Please contact United Way of Roanoke Valley (540-777-4200) for more information. <https://tinyurl.com/y7lo7mr7>