



Novant Health Kernersville Medical Center

Community Benefit Implementation Plan

Forsyth County, North Carolina

2013-2015

Approved by the Novant Health Triad Region Board of Directors on October 8, 2013

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Introduction

Novant Health Kernersville Medical Center, in partnership with the Forsyth County Department of Public Health, Forsyth County Healthy Community Coalition, Wake Forest Baptist Health and Forsyth Futures conducted a community health needs assessment in FY2012-2013 to identify the most pressing health needs in our community. From that, Kernersville Medical Center developed its own Community Health Needs Assessment FY 2013-2015. The assessment is designed to identify the health needs of the most vulnerable populations in the community. This Implementation Plan is designed to enhance the health of these populations by offering health and wellness programming, clinical services and financial support Kernersville Medical Center will provide to meet health needs identified.

Organization overview

Novant Health is a not-for-profit integrated health system of 14 medical centers and a medical group consisting of 1,124 physicians in 355 clinic locations, as well as numerous outpatient surgery centers, medical plazas, rehabilitation programs, diagnostic imaging centers and community health outreach programs. Novant Health's nearly 25,000 employees and physician partners care for patients and communities in North Carolina, Virginia, and South Carolina.

Mission

Novant Health exists to improve the health of our communities, one person at a time.

Our employees and physician partners strive every day to bring our mission, vision and values to life. We demonstrate this commitment to our patients in many different ways. Our organization:

- Maintains an active community health outreach program.
- Demonstrates superior outcomes for many health conditions as indicated by our state and national quality scores.
- Creates innovative programs that address important health issues, with many of our programs and services being recognized nationally.
- Believes in its role as a good corporate citizen, working with community agencies and organizations to make our communities better places to live and work.

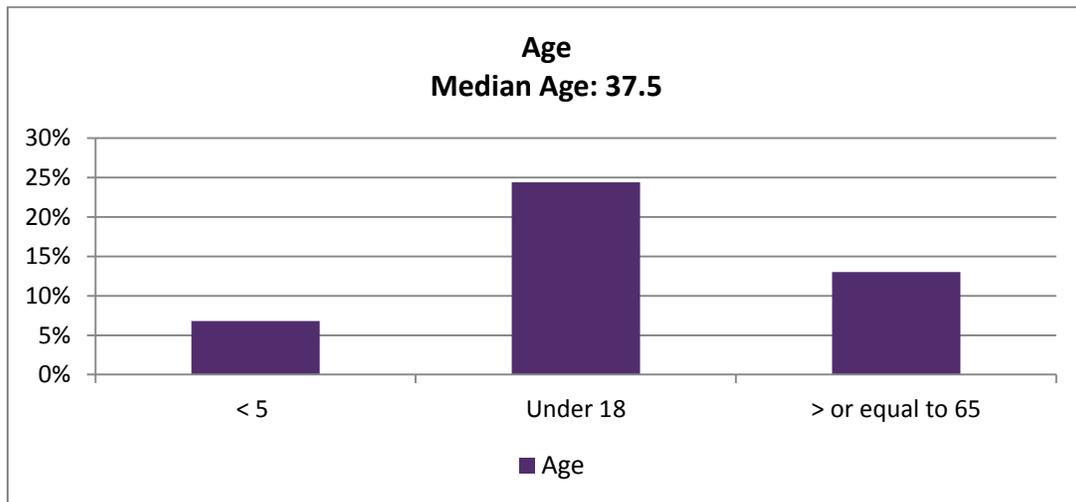
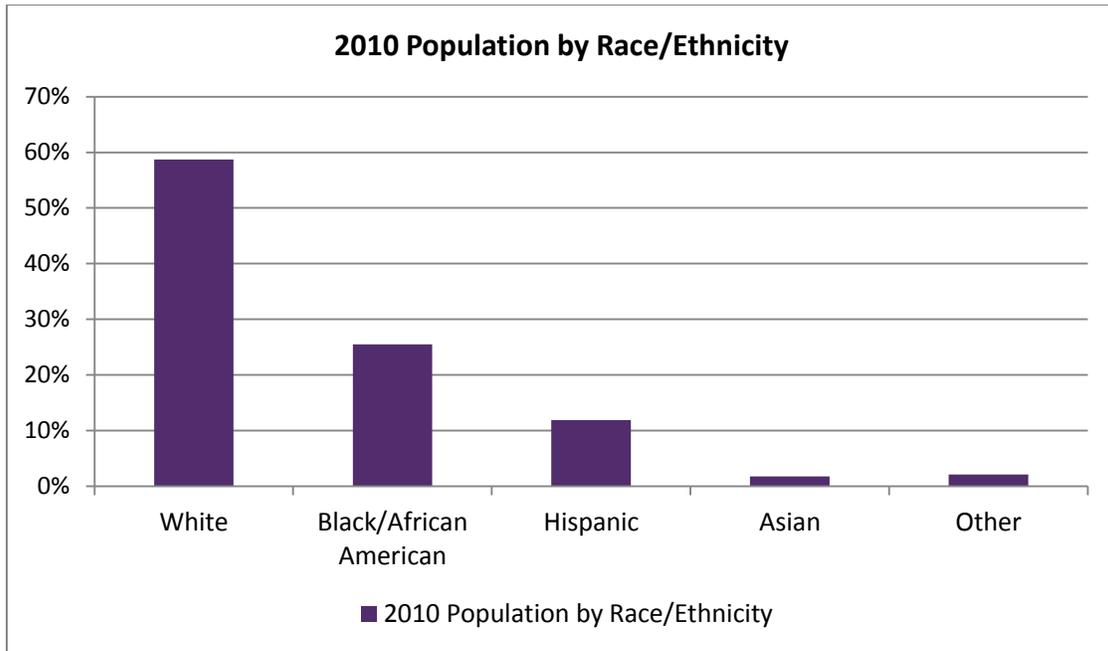
Novant Health Kernersville Medical Center, a department of Novant Health Forsyth Medical Center, is a 50-bed community hospital, providing a wide range of health services including surgery, emergency care, diagnostic testing, inpatient care and other medical services. In 2012, Kernersville Medical Center had approximately 1,967 inpatient discharges and 24,539 outpatient visits, including 24,919 visits to the emergency department.

Our community

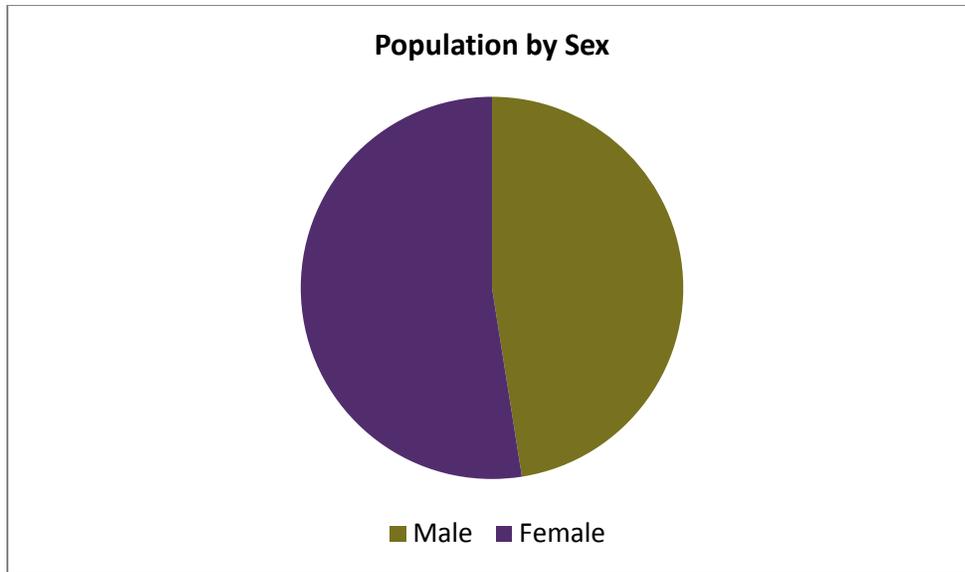
Forsyth County, Kernersville Medical Center's primary service area and defined community, includes the county seat of Winston-Salem. Based on 2011 estimates, Forsyth County remained the fourth largest county in the State of North Carolina with just fewer than 355,000 residents¹. Forsyth County's

¹ U.S. Census Bureau (2013). State & County QuickFacts. <http://quickfacts.census.gov/qfd/states/37/37067.html>

population grew 14.6% since the 2000 U.S. Census when there were 306,067 county residents. By 2010, U.S. Census estimates Forsyth County as the fourth most populous county after Mecklenburg (923,944 residents), Wake (907,314 residents), and Guilford (490,371 residents) counties. The County covers a 408 square mile area, with an average of 859.5 persons per square mile. Demographic data for Forsyth County is outlined below²:



² Forsyth County Department of Public Health (2012). 2011 Forsyth County Community Health Assessment, Community Profile, 14. http://www.co.forsyth.nc.us/PublicHealth/Documents/2011_Forsyth_County_Community_Health_Assessment.pdf



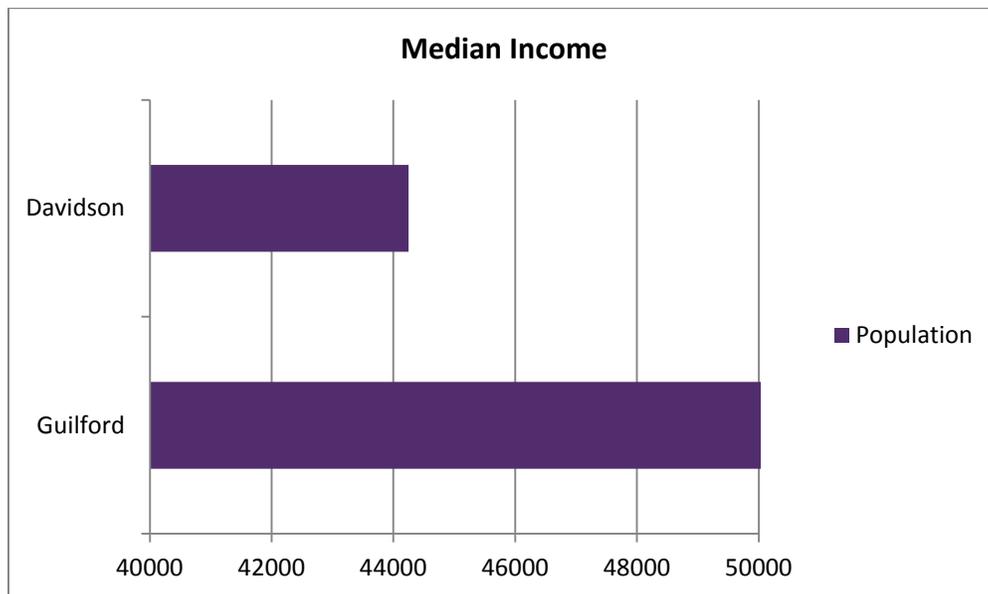
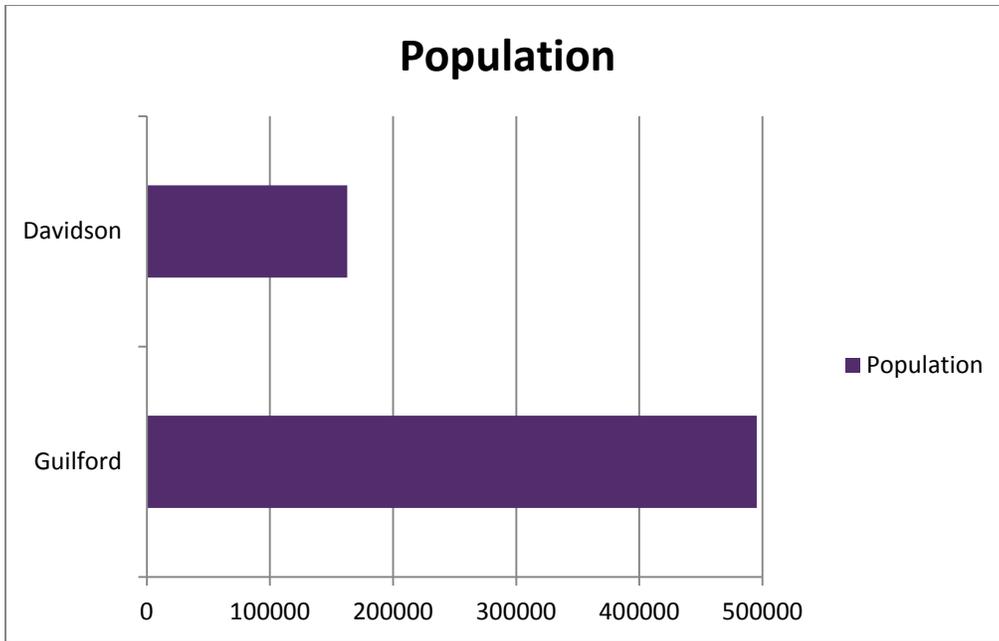
Income		% Population Living Below Poverty Line		Population Educational Attainment (≥ 25 yrs old)	
Median Family Household	\$55,075	Children (0-17)	22.8%	< HS diploma/GED	13.8%
		Adults (18-64)	12.9%	HS diploma/GED	28.2%
Median Non-Family Household	\$28,023	Seniors (65+)	7.1%	Bachelor's degree	20.7%
		All Families	11.0%	≥ Graduate degree	10.0%

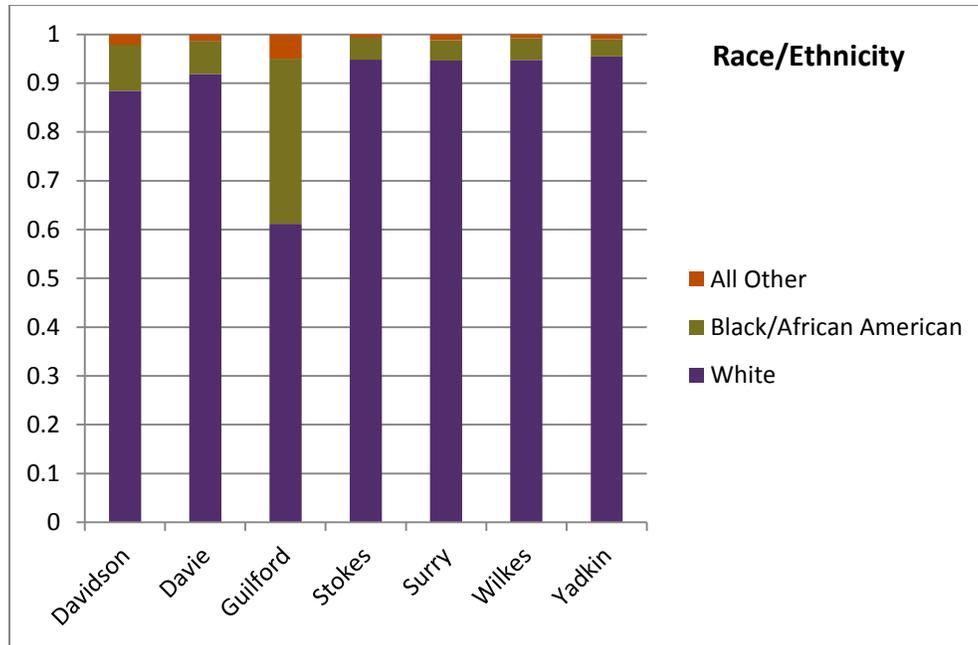
Forsyth County is more urban in nature, with only 9% of the population living in rural areas. Household specifics include over 21,000 households headed by females, 12,400 of those with children. Just fewer than 14,000 households have one resident age 65 or older and more than 50,900 housing units are renter occupied³. The county has an unemployment rate of 9.9% and a median family household income of \$55,075.

Kernersville Medical Center has a secondary service area including Davidson and Guilford counties. According to the 2011 U.S. Census estimates, the aforementioned counties include the following demographic profiles⁴:

³ Log Into North Carolina (2013). NC Census Lookup. http://data.osbm.state.nc.us/pls/linc/dyn_linc_main.show

⁴ U.S. Census Bureau (2013). State & County QuickFacts. <http://quickfacts.census.gov/qfd/states/37/37067.html>





Prioritized health needs

County prioritization

The assessments primary and secondary data identified key issues within the community, including:

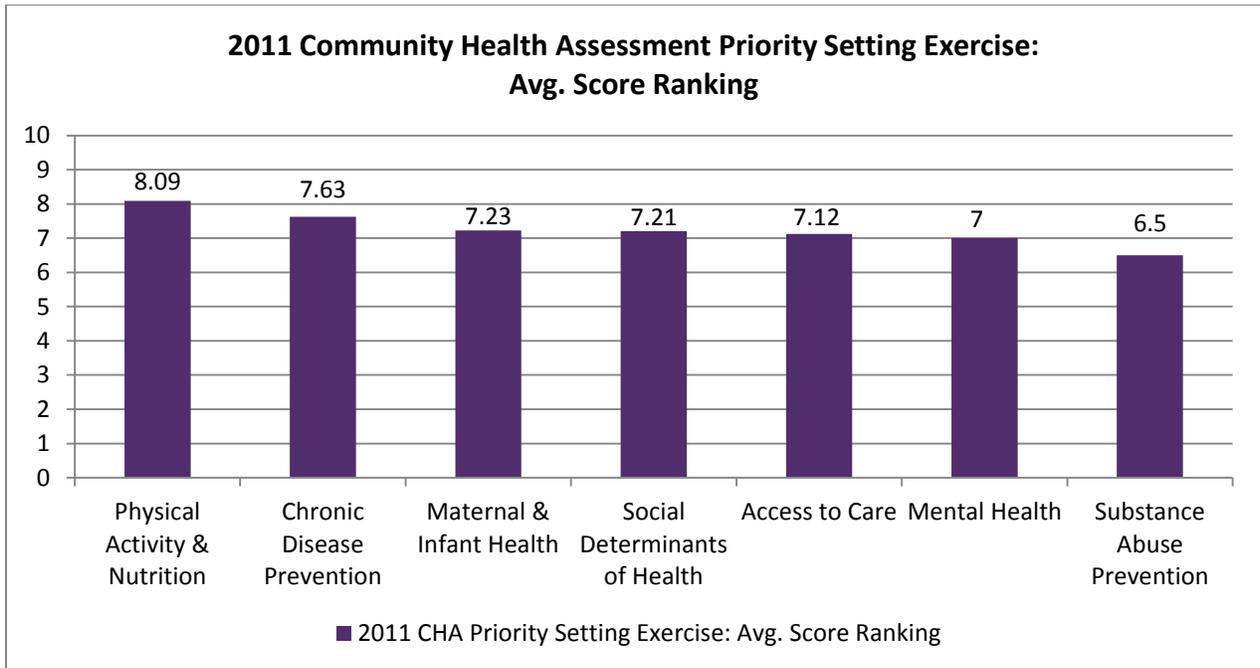
- Leading causes of death;
- Disparities among populations;
- Maternal and infant statistics;
- Growth in unemployment and uninsured populations;
- Dental care needs; and
- Mental health needs.

To prioritize the needs, a team of 45 community representatives came together on March 26, 2012 at Novant Health Forsyth Medical Center in Winston-Salem, NC. These individuals were representative of healthcare, mental health, public health, education, the faith community, and community members/leaders. Guests were randomly assigned into eight groups to prioritize seven focus areas. They were presented with data specific to each priority area and copies of the 2010 State of the County Health Report, as well as other pertinent materials for each area. They were asked to review and rank each priority area based on the following five criteria:

- 1) **Magnitude:** proportion of the population affected or vulnerable
- 2) **Severity:** impact on mortality, morbidity, disability and quality of life
- 3) **Intervention Effectiveness:** proven interventions exist that are feasible from a practical, economic and political viewpoint
- 4) **Public Concern:** degree of public concern and/or awareness

- 5) **Urgency:** need for action based on degree and rate of growth (decline); potential for affecting and amplifying other health or socioeconomic issues; timing for public awareness, collaboration and funding is present.

The process outlined the following list of new priority focus areas:



Facility prioritization

In addition to the County rankings, Kernersville Medical Center reviewed three supplementary reports with prioritized health concerns - the *Forsyth Futures 2012 Health Making Progress Report*,⁵ The Robert Wood Johnson Foundation and University of Wisconsin Health Rankings⁶ and the Guilford County Health Needs Assessment⁷.

Forsyth Futures “seeks to enhance the ability to expand community knowledge by coordinating and providing a platform for supporting all residents, organizations, and agencies that reside in Forsyth County.”⁸ In their *2012 Making Progress Report: Physical & Mental Health*, Forsyth Futures identified two additional issues that Kernersville Medical Center evaluated as part of their assessment. These issues included:

1. Mental health or more specifically an increasing suicide rate. Between 2001 and 2010, the suicide rate in Forsyth County increased 0.19% to 12 deaths per 100,000 persons.

⁵ Forsyth Futures (2012). Making Progress Report Physical and Mental Health 2012. http://forsythfutures.org/images/PDFs/health2012_final.pdf

⁶ County Health Rankings & Roadmaps (2012). Rankings. <http://www.countyhealthrankings.org/app/#/north-carolina/2013/forsyth/county/outcomes/overall/snapshot/by-rank>

⁷ Guilford County Department of Public Health (2013). Guilford County Health Needs Assessment. Requested.

⁸ Forsyth Futures (2012). <http://www.forsythfutures.org/about-forsyth-futures/about-us.html>

2. Non-elderly uninsured. When compared to the rates during 2006-2007, the non-elderly uninsured rate increased four percent to reach 20% in 2008-2009. Additionally, during this same time, the number of persons referred to Healthcare Access, a non-profit safety net organization, more than doubled to 3,579⁹.

With the support of Forsyth Futures, Kernersville Medical Center also evaluated the County Health Rankings developed by the Robert Wood Johnson Foundation and the University of Wisconsin. During this analysis, two primary areas surfaced.

1. Sexually transmitted infections. Forsyth County has a rate of 884 per 100,000 persons, as compared to the state average of 445/100,000, making it the 3rd highest ranking county in terms of incidence.
2. Premature deaths. Though nationally the trend has shifted downward, Forsyth County experienced an increase between 2003-2007.

Finally, Kernersville Medical Center reviewed the prioritized needs for Guilford County. Through their process, utilizing the Hanlon Prioritization methodology and connecting that with prioritized community concerns, the top five needs were identified:

1. Chronic disease
2. Healthy pregnancy
3. Sexually transmitted infections
4. Access to clinical care
5. Poverty & unemployment

After reviewing all data, Kernersville Medical Center determined that the top eight needs within Forsyth County were as follows:

1. Physical activity & nutrition
2. Chronic disease prevention
3. Maternal & infant health
4. Social determinants of health
5. Sexually transmitted infections
6. Premature death
7. Mental health
8. Non-elderly uninsured

These eight priorities were then collectively reviewed by the Novant Health Triad Region Board of Directors. The team was asked to evaluate each documented need and where it intersects with the organization's mission, commitments and key strengths. From here, each team further prioritized the needs, agreeing on our top three health priorities:

1. Diabetes

⁹ Forsyth Futures (2012). Making Progress Report Physical and Mental Health 2012. http://forsythfutures.org/images/PDFs/health2012_final.pdf

2. Obesity
3. Other chronic disease

These significant needs were outlined for Kernersville Medical Center due to the the facility’s scope of service, expertise, and alignment of resources. Additionally, Kernersville Medical Center believes that with targeted focus on the aforementioned priorities, Forsyth County can begin to show improvements in both health status and health outcomes countywide.

Issues for remediation

In the following section Kernersville Medical Center will address each of the top five prioritized needs. Each need includes actions that must be taken to achieve improved community health. Outlined with in each need, Kernersville Medical Center will identify the description of need, programs, resources and intend actions, anticipated impact, priority populations, evaluation plan, intervention strategies, tactics for achievement, growth targets, and community partners.

The following action plans were developed through evaluation of Kernersville Medical Center programs and the U.S. Department of Health and Human Services “Healthy People 2020” topics. To determine anticipated impact, Healthy People 2020 objectives were reviewed and integrated into each priority area. As a leader committed to improving the nation’s health, it is imperative to Kernersville Medical Center that our guiding principles in defining our role in community health outreach and advocacy be well aligned with the Healthy People’s goal of achieving health equity and eliminating disparities. (See Appendix A for Healthy People 2020 objectives that were evaluated.)

Priority 1: Diabetes

From 2005-2009, Diabetes remained a leading cause of death in Forsyth County and disproportionately affected African American with a 3.3 to 1 ratio. Based on the same 2009 statistics, diabetes ranked as the fourth most common cause of death in non-whites, as compared to whites and Hispanics. Additionally, the community perception survey identified diabetes as an emerging issue for both adults and children.

Programs, resources and intended actions to address diabetes need: Kernersville Medical Center offers community based services including education for diabetes prevention and diabetes management, as well as glucose and A1c screenings. Additionally, Kernersville Medical Center provides an inpatient diabetes navigator for all patients and performs an A1c screening on any patient admitted to the facility. All of the these programs are intended to increase awareness of diabetes, promote healthy lifestyles that prevent disease, provide education around management and monitoring techniques and support patients through the initial stages of diagnosis and treatment.

Goal
<ul style="list-style-type: none"> • Increase awareness of diabetes risk factors and provide educational resources and tools to prevent and manage the condition.

Anticipated impact
<ul style="list-style-type: none"> • Increase the number of persons with diabetes whose condition has been diagnosed. • Increase the number of persons with newly diagnosed diabetes who receive formal education.
Priority population
<input checked="" type="checkbox"/> Broader Community <input type="checkbox"/> Vulnerable Population

Specific action	Baseline	% Growth target	Intervention strategies	Tactics	Collaborative partners
Community glucose/A1c screenings	1,592*	10%	1.1 Increase number of participants in screenings	1.1.1 Identify new locations to offer screenings 1.1.2 Targeted outreach to high risk populations	1. Area churches 2. Local senior center 3. Community events
Community diabetes education	233	10%	2.1 Increase number of participants in diabetes education classes	2.1.1 Automatically enroll newly diagnosed diabetes patients into formal education program	1. Area churches 2. Recreation Centers

**Programs included in this baseline calculation are duplicative with the Obesity and Other Chronic Disease programs; these duplications are due to comprehensive biometric assessments.*

Evaluation plan: Kernersville Medical Center will accurately track screening data through Lyon Software (CBISA) and monitor class enrollment and completion rates for programs offered at both Kernersville Medical Center and community partner locations. Impact will be measured based on above growth target, as compared to baseline statistics.

2013-2014 results
Hospital contribution

Priority 2: Obesity

In both the community perception survey and focus groups, obesity was identified as a significant problem for both adults and children. According to The Robert Wood Johnson Foundation and University of Wisconsin Health Rankings, 26% of adults in Forsyth County are overweight or obese and 21% of adults report no leisure or physical activity. The report also cited that 47% of Forsyth County restaurants are classified as fast food.

Programs, resources and intended actions to address obesity need: Kernersville Medical Center offers programs to address obesity, including body mass index screenings, nutrition education, nutrition

counseling and The Weigh for You weight loss program. Additionally, Kernersville Medical Center collaborates with various community partners to support other nutrition and fitness programs throughout Forsyth County. These programs include 1) Transformation Nation Triad, a 16 week weight loss program at area YMCAs, and 2) Girls on the Run, a program designed to increase physical activity in young girls. All programs and partnerships are intended to increase exposure and access to healthy foods, decrease weight and lower overall health risk factors.

Goal
<ul style="list-style-type: none"> • Heighten awareness to the effects of obesity on overall wellness.
Anticipated impact
<ul style="list-style-type: none"> • Increase the number of families that understand body mass index and weight guidelines. • Increase the number of families who have access to weight management resources in the community.
Priority population
<input checked="" type="checkbox"/> Broader Community <input type="checkbox"/> Vulnerable Population

Specific action	Baseline	% Growth target	Intervention strategies	Tactics	Collaborative partners
Body mass index (BMI) screenings	1,592*	15%	1.1 Increase number of participants in BMI screenings	1.1.1 Identify new locations to offer BMI screenings	1. Public schools 2. Area churches 3. Community events
Community nutrition education	2,756	20%	2.1 Increase number of participants in nutrition education classes	2.1.1 Identify new locations to offer nutrition education	1. Recreation centers 2. YMCAs
				2.1.2 Identify new community partnerships	
The Weigh for You	0	Enroll 200 Individuals	3.1 Increase number of individual enrolling in the program	3.1.1 Identify new community locations to offer program	1. Area churches 2. Recreation centers
				3.1.2 Targeted outreach to high risk populations	

**Programs included in this baseline calculation are duplicative with the Diabetes and Other Chronic Disease programs; these duplications are due to comprehensive biometric assessments.*

Evaluation plan: Kernersville Medical Center will accurately track screening data through Lyon Software (CBISA) and monitor class enrollment and completion rates for programs offered at both the hospital and community partner locations. New partnerships will be monitored through the Community Relations department. Impact will be measured based on above growth target, as compared to baseline statistics.

2013-2014 results
Hospital contribution

Priority 3: Other chronic diseases

Heart disease and cancer are some of the leading causes of disease related death in Forsyth County. Between 2005 and 2009, Forsyth County had 163.3 heart disease related deaths and 198.1 cancer related deaths per 100,000 residents. Heart disease was the leading cause of death for residents between the ages of 25-44 and it disproportionately affected the African-American population. Similarly, cancer was the leading cause of death for persons in all other age brackets (1-14, 45-64 and 65+) and also disproportionately impacted African-American males. According to the community perception survey, heart disease and cancer are two of the emerging community health issues.

Programs, resources and intended actions to address other chronic diseases need: Kernersville Medical Center currently offers heart risk assessments, vascular screenings, PAD screenings and cardiac education that are designed to increase the community’s awareness of risk factors, prevent unnecessary cardiac related problems, and connect individuals to prevention and management services. Additionally, Kernersville Medical Center provides mobile mammography services to uninsured/underinsured women, as well as prostate screenings and skin cancer screenings. All of these screenings are designed to increase early detection of cancer.

Goal
<ul style="list-style-type: none"> • Increase the awareness of heart disease and cancer risk factors and provide subsequent education for prevention.
Anticipated impact
<ul style="list-style-type: none"> • Increase the number of adults who have had a comprehensive cardiac risk assessment within the preceding 5 years. • Increase the number of adults with abnormal biometric screening values who have been advised by a healthcare provider regarding a healthy diet, physical activity, and weight control. • Increase the number of uninsured/underinsured women who receive a breast cancer screening based on the most recent guidelines.
Priority population
<input type="checkbox"/> Broader Community <input checked="" type="checkbox"/> Vulnerable Population

Specific action	Baseline	% Growth target	Intervention strategies	Tactics	Collaborative partners
Cardiac risk assessment	1,886*	15%	1.1 Increase number of participants in cardiac risk assessments	1.1.1 Targeted outreach to high risk populations	1. Area churches
Cardiac clinics	2,705	15%	2.1 Increase number of participants in cardiac clinics	2.1.1. Targeted outreach to high risk populations	
Community education	2,035	15%	3.1 Increase awareness of cardiac risk factors	3.1.1. Identify new locations to offer cardiac and cancer education	1. Area churches
				3.2.1 Targeted outreach to high risk populations	
Cancer screenings	662	5%	4.1 Increase number of high risk participants	4.1.1 Targeted outreach to high risk populations	1. Area churches 2. Recreation centers 3. Senior centers

**Programs included in this baseline calculation are duplicative with the Diabetes and Obesity programs; these duplications are due to comprehensive biometric assessments.*

Evaluation plan: Kernersville Medical Center will accurately track screening data through Lyon Software (CBISA) and monitor class enrollment and completion rates for programs offered at Kernersville Medical Center and community partner locations. Impact will be measured based on above growth target, as compared to baseline statistics.

2013-2014 results
Hospital contribution

Unaddressed health needs

Although Kernersville Medical Center is working to address several significant needs in the community, we are unable to impact all identified county priorities, but will support community partners as appropriate, with the following known issues:

Need	Explanation	Existing community assets fulfilling need
Physical activity & nutrition	Other agencies addressing need	YMCA; Novant Health Forsyth Medical Center
Maternal & infant health	Other agencies addressing need	Novant Health Forsyth Medical Center; Forsyth County Department of Public Health; Infant Mortality Coalition
Social determinants of health	Outside of Kernersville Medical Center's scope of services	Education: Winston-Salem Forsyth County Schools, Wake Forest University, Winston-Salem State University, Salem College, Forsyth Technical Community College, Summit School, Forsyth Country Day School; Housing: AIDS Care Service, Community Action Agency, Transitional Services, Bethesda Center for Homeless, Samaritan Inn, Winston-Salem Rescue Mission, Habitat for Humanity, Forsyth County Department of Housing, Housing Authority of Winston-Salem, Family Services, Financial Pathways of the Piedmont; Environmental: Forsyth County Environmental Affairs Department, Parks and Recreation, Cooperative Extension Services; Forsyth County Office of Environmental Assistance and Protection; Forsyth County Department of Public Health Environmental Health Division, County Utility Commission; Transportation: Federal Transit Administration, Winston-Salem Transit Authority, Transportation Advisory Committee; Parks and Recreation; Food Access: Food Bank of Northwest North Carolina, Department of Social Services, Crisis Control Ministry, Samaritan Inn, Local Foods Consortium
Sexually transmitted infections	Other agencies addressing need	AIDS Care Service; Back to Basics; Forsyth County Department of Public Health (STI

		clinic and Family Planning Clinic); POSSE; Northwest Care Consortium; Planned Parenthood
Mental health	Other agencies addressing need	Novant Health Forsyth Medical Center
Premature death	Other agencies addressing need	Forsyth County Department of Public Health
Non-elderly uninsured	Other agencies addressing need	Bethany Baptist Clinic (now Health and Wellness Clinic of the Triad); Community Care Center; Community Mosque Clinic; Downtown Health Plaza; Green Street United Methodist Church; Healthcare Access; Northwest Community Care Network; Southside United Health and Wellness Clinic; Sunnyside Clinic; Winston-Salem Rescue Mission

Role of the board and administration

The Novant Health Triad Region Board of Directors and Kernersville Medical Center administration are active participants in the community benefit process. Through strategic planning initiatives focused on chronic disease, community health outreach, and access to care, leadership provides direction on actions and intended impact, and serves as the approving body for the community health needs assessment and community benefit implementation plan. Administrative leaders serve on the County assessment process teams, priority setting committee and action planning team and hospital board members participate and provide influence to the community benefit plans. All members are actively involved in the priority setting discussion and outreach planning process. Additionally, community benefit reports are provided to the board and facility leadership teams throughout the calendar year for ongoing education.

Appendix A

Healthy People 2020 indicators

Diabetes:

- Increase the proportion of persons with diabetes whose condition has been diagnosed (Healthy People 2020; D-15).
- Increase the proportion of persons with diagnosed diabetes who receive formal education (Healthy People 2020; D-14).

Obesity:

- Increase the proportion of adults who are at a healthy weight (Healthy People 2020; NWS-8).
- Increase the proportion of worksites that offer nutrition or weight management classes (Healthy People 2020; NWS-7).
- Reduce the number of children and adolescents who are considered obese (Healthy People 2020; NWS-10).

Heart disease:

- Increase the proportion of adults who are at a healthy weight (Healthy People 2020; NWS-8).
- Increase the proportion of worksites that offer nutrition or weight management classes (Healthy People 2020; NWS-7).
- Reduce the number of children and adolescents who are considered obese (Healthy People 2020; NWS-10).

Cancer:

- Increase the proportion of women who receive a breast cancer screening based on the most recent guidelines (Healthy People 2020; C-17).