Greeneville Community Hospital: Community Health Needs Assessment

Ballad Health

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1 Introduction

Greeneville Community Hospital, an acute care hospital in Greeneville, TN, is one of the hospitals within the Ballad Health system. Ballad Health is an integrated healthcare system serving 29 counties of Northeast Tennessee, Southwest Virginia, Northwest North Carolina, and Southeast Kentucky. Ballad was created upon the merger of two large regional health systems, Mountain States Health Alliance and Wellmont Health System, on February 1st, 2018. Through rigorous state oversight, these two competitors have been granted the ability to merge into an integrated healthcare delivery system with a simple and concise mission: to improve the health of thepeople we serve.

Ballad Health operates a family of 21 hospitals, including three tertiary care facilities, a dedicated children's hospital, community hospitals, three critical access hospitals, a behavioral health hospital, an addiction treatment facility, long-term care facilities, home care and hospice services, retail pharmacies, outpatient services and a comprehensive medical management corporation.



Ballad's hospitals include:

- Bristol Regional Medical Center
- Dickenson Community Hospital
- Franklin Woods Community Hospital
- Greeneville Community Hospital
- Hancock County Hospital
- Hawkins County Memorial Hospital
- Holston Valley Medical Center
- Indian Path Community Hospital
- Johnson City Medical Center
- Johnson County Community Hospital
- Johnston Memorial Hospital
- Lonesome Pine Hospital
- Mountain View Regional Hospital
- Niswonger Children's Hospital
- Norton Community Hospital
- Russell County Hospital
- Smyth County Community Hospital
- Sycamore Shoals Hospital
- Unicoi County Hospital
- Woodridge Hospital



Ballad Health Mission:

Ballad Health is committed to honoring those we serve by delivering the best possible care.

Ballad Health Vision:

To build a legacy of superior health by listening to and caring for those we serve.

The tagline of Ballad Health - "It's your story. We're listening." - is more than a marketing tool. Through the comprehensive state oversight and merger processes, Ballad Health system was created to meet and address local health needs. Realizing that people want to receive care from someone who really listens to them, the organization's name and tagline speak to the fact that good health is about more than healthcare – it's the story of people's lives. Located in the heart of Appalachia, Ballad Health pays homage to the traditions and stories that have shaped people's lives; yet, the organization also looks for new ways to partner with individuals and communities to make the region a healthier place to live and work.

With hospitals and services strategically placed throughout the region, Ballad Health is positioned to be the region's largest health care provider. The system's primary service area is comprised of 21 counties across Northeast Tennessee and Southwest Virginia, with a secondary service area encompassing an additional six counties in Western North Carolina and two counties in Southeastern Kentucky.



2 Executive Summary

Ballad Health is heavily invested in the health and well-being of its communities. In addition to its enhanced focus on population health management through the merger of the two legacy health systems, Ballad is also the largest employer in the region and the fourth largest employer in the State of Tennessee. Being such a prominent member of the regional economic community, Ballad has a strong desire to improve the health of the region, as well as its employees and their families. Realizing that health is tied to more than just genetics, Ballad is working towards a deeper understanding of the socioeconomic issues that face the population's ability to improve their overall health status. Social determinants of health related to topics such as access to care and the ability to understand complex health conditions often times go hand in hand with people's capacity to make optimal health decisions. Nevertheless, Ballad Health views the current health disparities of the Appalachian region as the opportunity to go beyond the walls of the hospital and work hand-inhand with communities to make sustainable change happens for generations to come.

As part of the state oversight process, Ballad Health and its hospitals and entities have committed to improving the health status of its service area counties by agreeing to focus on an index of access, quality, and population health measures. The population health metrics create a platform for Ballad Health to further engage the efforts of its hospitals in partnership with the surrounding communities in order to drive change in a region that has a number of health disparities and access challenges. Leveraging the community health needs assessment (community health needs assessment) process has helped Ballad to further understand and educate on the health disparities that appear across the individual communities within its service area and has also helped the organization prioritize those issues that are most important in each hospital's community.

In order for Ballad to serve its region most effectively, it is essential to understand each community's individual needs. As such, Ballad Health conducted community health needs assessments guided by frameworks and best practices in order to successfully profile the health of the residents within its service areas. Activities associated with the development of this assessment have taken place from summer of 2020 through the spring of 2021. Primary data was obtained through key stakeholder surveys and focus groups with participants from the local communities, while secondary data was collated from national, state, regional, and county-specific data sources.

Throughout this community health needs assessment process, high priority was given to determining the health disparities and available resources within each community. Key stakeholders from each county participated in focus groups where discussion was centered around the prioritization of current health priorities and identification of potential solutions. The information gathered from a local perspective, paired with county, state, and national data, help to communicate the region's health situation in order to begin formulating solutions for improvement.

According to the 2020 America's Health Rankings, Tennessee ranked 45th and Virginia ranked 19th out of 50 states for overall health outcomes. Both states had high rates of obesity, heart disease, addiction, and mental health concerns. Though Virginia's overall ranking is significantly higher than that of Tennessee's ranking, the health outcomes in Southwest Virginia counties, where Ballad facilities are located, resembles those of Tennessee. After compiling the various sources of information and using population health index as a starting point for discussion, the top health priorities were identified for the communities that each of the hospitals serve. This effort has led to the determination of the top three priority areas for Greene County to include **substance use, mental health, and food insecurity.** There are certainly a number of other health challenges in this community, but these rise to the top based on the assessment.

3 Greeneville Community Hospital

3.1 Facility Description

Greeneville Community Hospital is located in Greeneville, TN. Greeneville Community Hospital is an acute inpatient facility, with a wide variety of additional services including cardiology services, diagnostic imaging, ICU, surgery and women's services, including obstetrics and imaging. This hospital has a rich history of delivering excellent patient care with superior compassion.

Greeneville Community Hospital



3.2 Scope of Services

Greeneville Community Hospital offers the following complement of medical and specialty services:

- 24/7 emergency department
- Acute inpatient
- Cardiology services
- Diagnostic imaging
- ICU
- Obstetrics / women's services and imaging
- Medical / surgical unit
- Outpatient lab
- Progressive care unit
- Radiation oncology
- Surgery and endoscopy
- Wound care

3.3 Primary Service Area

Greeneville Community Hospital's Primary Service Area covers Greene County, Tennessee.



4 Community Assessment Process Summary

4.1 Market Overview

Greeneville Community Hospital, located in Greeneville, TN, primarily serves residents of Greene County in Northeast Tennessee. In 2021, Greene County had a population of 67,039 people. The population projections for Greene County over the next five years show that the county will likely experience little population growth overall. However, the age 65+ population for Greene County is projected to experience the most population change over the next five years, as it moves from 22.9% of the total population in 2021 to 25.3% of the population in 2026. The aging population of the county presents opportunities for earlier identification and better management of health conditions that oftentimes affect elderly populations in rural areas.

Additionally, the median household income for Greene County is \$44,400, which ranks below the Tennessee state average of \$52,400. Notably, 24.3% of children in Greene County live in poverty, compared to the Tennessee average of 19.4%. Other demographic factors influencing health status in the county also includes education levels. A large portion of Greene County residents do not have an education past high school (54.5%). The remaining portion of the population reports having some college/associates degree (29.3%) or a bachelor's degree of greater (16.2%).

According to the 2021 County Health Rankings, Greene County, where Greeneville Community Hospital is located, is ranked 59th in Tennessee for health outcomes and 49th for health factors out of 95 counties. Greene County also ranked 42th in health behaviors, 26th in clinical care, and 64th in social and economic factors. A graphical representation of the 2021 County Health Rankings for Greene County components can be found in the appendix.

4.2 Methodology for Collecting Community Input

4.2.1 Model/Framework Selection

In the earliest stages of the 2021 community health needs assessment process design for all Ballad Health facilities, numerous guiding frameworks, models, and toolkits were reviewed and analyzed for their potential to serve as the planning model for the assessment. Following in-depth discussions with Ballad Health leadership, it was decided the 2021 community health needs assessment process would be guided by the Mobilizing for Action Through Planning and Partnerships (MAPP) model, with an understanding that aspects of the model may have to be adapted due to the purpose of the assessment for Ballad Health and constraints related to the COVID-19 pandemic. In coordination with the MAPP model, concepts from both Community-Based Participatory Research (CBPR) and the Arkansas Center for Health Improvement (ACHI) Community Health Assessment Toolkit were also utilized for the assessments.

The MAPP model, developed by the National Association of County and City Health Officials (NACCHO) in coordination with the Centers for Disease Control and Prevention (CDC), functions as a six-phase, strategic planning process for communities with the primary aim of improving health. Broadly speaking, the MAPP model allows for the identification of pressing community issues, provides understanding of the current state of resources within a community, and provides the foundational pillars needed to develop action plans for health improvement. The completion of the process outlined in the MAPP model results in two deliverables: (1) Community Health Needs Assessment and (2) Community Health Improvement Plan. As mentioned, components of the MAPP model will be slightly adapted to meet the needs of Ballad Health's community health needs assessments. For a summary of how Ballad Health's 2021 community health needs assessment process will align with the MAPP model phases, please view Table 2 below.

As shown in Table 2, the first step in the planning process was the creation of a Regional Assessment Workgroup between Ballad Health, all local health departments in Ballad Health's geographic service area (GSA), Tennessee Department of Health County Health Councils, and local health coalitions. This regional workgroup was tasked with the creation of core indicators to be included and assessed, shared processes and practices for methodology, and the identification of synergies and paths to collaborate between Ballad Health and all other entities represented in the regional workgroup in terms of community health needs assessment efforts. The goal of this collaborative effort for the community health needs assessment process is to minimize community assessment fatigue and leverage efforts and resources utilized during the assessment process.

Ballad Health utilized a mixed-methods approach for primary and secondary data collection to gather regional information to inform the 2021 community health needs assessments. The secondary data collection entailed the compilation of secondary data pertaining to agreed upon metrics and indicators from an array of verified sources. The primary data collection component involved both a key stakeholder survey and key stakeholder focus groups. Findings from both research methods were used to prioritize the needs of the community served by each Ballad Health facility and determine priority focus areas for future improvement efforts.

| Table 2 | |
|--|--|
| MAPP Model Phase | Ballad Health 2021 Community Health Needs Assessment Process |
| Organize for Success/Partnership Development Stakeholders within the community gather to form partnerships and foster collaboration for assessments guided by the MAPP model. | Development of Regional Assessment Workgroup between Ballad Health, all local health departments in Ballad Health's geographic service area (GSA), Tennessee Department of Health County Health Councils, and local health coalitions. |
| 2. Visioning Individuals from Phase One determine the primary focus and vision for the MAPP process. | Development of core indicators, shared processes, and practices. Identification of synergies and paths to collaborate. Creation of shared vision for the overall health and well-being of Northeast Tennessee and Southwest Virginia Communities. |
| 3. MAPP Assessments Quantitative and qualitative data from both primary and secondary data sources are compiled for the purpose of understanding the current state of the overall health and well-being of the community. | Development of secondary data packages for community data. Distribution of Key Stakeholder Survey. Facilitation of facility-based focus groups. |
| 4. Identify Strategic Issues Data are analyzed to determine issues within the community that serve as impediments to reaching the vision detailed in Phase Two. | Statistical and thematic analysis for survey results and focus group findings performed to identify issues within communities. Further prioritization of community issues with key stakeholders from each community. |
| 5. Formulate Goals and Strategies Goals and strategies are identified by the community to address the strategic issues identified in Phase Five. | Potential goals and strategies are identified by key stakeholders in each focus group. Facilitation of another round of focus groups for each facility to further parse out action plan components. Potential goals and strategies inform the development of Community Health Needs Assessment Implementation Plans to be brought to leadership at each facility. Finalization of Implementation Plans. |
| 6. Action Cycle Based on the goals and strategies from Phase Five, action plans for the achievement of the vision outlined in Phase Two are implemented and evaluated. | Community Health Needs Assessment Implementation Plans are implemented and evaluated for each facility. |

4.2.2 Secondary Data Compilation

In accordance with the MAPP model, once desired metrics were identified and agreed upon by all members of the regional workgroup, comprehensive data packages were created for all counties in Ballad Health's GSA. In knowing that research estimates that at least 80% of a person's health is related to non-medical factors, the data packages were designed to incorporate both medical and non-medical factors with equal importance in terms of their role in the overall health and well-being of the community. The data packages include approximately 60 metrics for each county in Ballad Health's GSA concerning each of the following overarching topics: health outcomes (15 metrics), health behaviors (14 metrics), health determinants (12 metrics), physical environment (3 metrics), clinical care and health resources (11 metrics), maternal and infant health (3 metrics), and adverse childhood experiences (2 metrics).

The data packages were shared with key stakeholders in the community in an excel workbook format. Two separate excel workbooks were created, one for the Northeast Tennessee counties and one for the Southwest Virginia Counties. Within each workbook, an instruction tab detailing how to interpret and utilize the data was included, as well as separate, alphabetized tabs for each county in those associated areas. Within each tab, metrics were organized into tables based on the seven topics listed above. For each metric, the following components were presented in the associated table:

- Metric name
- Metric definition
- Metric value for the associated county
- Metric value for associated state
- Hyperlink to data source where metric was found

4.2.3 Key Stakeholder Survey Design

Following guidance from the MAPP model, the Key Stakeholder Survey was designed with the primary aim of identifying the most-pressing community issues. In aligning with principles of CBPR, the key stakeholder survey was designed to allow key stakeholders to frame community issues in their own words through the use of open-ended questions. In addition to the identification of community issues, the key stakeholder survey was also designed to discern why survey respondents believed the community issues they selected had the greatest effect on the overall health and wellbeing of their community. Questions related to ideas and suggestions for improvement efforts, gauging the success of efforts after the previous community health needs assessments, and community struggles related to the COVID-19 pandemic were also included in the survey.

Data from the key stakeholder survey was coded and analyzed via MAXQDA Analytics Pro 2020. Data was coded and analyzed by primary and secondary coders who are team members of the Division of Population Health within Ballad Health.

4.2.3.1 Key Stakeholder Survey Demographics

The survey was comprised of thirteen questions, with those being a combination of both closeended and open-ended questions. Both statistical analysis and thematic analysis were performed on survey results dependent on the question type (statistical analysis for close-ended questions and thematic analysis for open-ended questions) in order to obtain frequencies and percentages. The survey was distributed via Survey Monkey from the Division of Population Health at Ballad Health to key stakeholders in Northeast Tennessee and Southwest Virginia that were identified by leadership at Ballad Health. Stakeholders were selected due to their involvement in the health of the community and their direct relationship to the communities served. The survey was distributed to approximately 350 stakeholders, who each represent unique organizations in Northeast Tennessee and Southwest Virginia.

One hundred and sixty-nine (n=169) organizations completed the survey, for a response rate of 48%. In terms of the geographical breakdown of survey respondents, 36% of survey respondents listed at least one county in Southwest Virginia as part of their service area, and 64% of survey respondents listed at least one county in Northeast Tennessee as part of their service area. There was some overlap in terms of the geographical breakdown of survey respondents for individuals who work in both Northeast Tennessee and Southwest Virginia; those individuals are represented in both categories. Survey respondents represented an array of different sectors in the community, which included the following:

- Law Enforcement
- Religious Communities/Churches
- School Systems
- Governmental Organizations
- Health Departments
- Non-Profit Organizations
- Academic Institutions
- Businesses
- Health Care System.

All key stakeholder survey questions and associated findings are listed in the Appendix. Findings are filtered to reflect the responses of key stakeholders in the state in which the facility is located. Because Greene County is located in Northeast Tennessee, survey findings presented in the report and the Appendix are from the 64% of survey respondents who listed at least one county in Northeast Tennessee as part of their service area.

4.2.4 Key Stakeholder Focus Group Design

Independent focus groups were conducted for each Ballad Health facility in order to provide specific and unique information for each community being served. The MAPP model and questions from the key stakeholder survey were used to guide the development and construction of the focus groups. Because the key stakeholder survey primarily dealt with the identification of community issues, the focus groups were primarily designed to prioritize community issues identified through the key stakeholder survey and discuss actionable items around how to best address these community issues. Questions related to root causes of community issues, the current state of resources to address community issues, needed resources to initiate improvement efforts and be successful, and community struggles related to the COVID-19 pandemic were also included in the focus group facilitation guide.

The focus groups were organized into three main components as outlined below:

- **Data Presentation:** Focus group facilitators led the focus group participants through a thorough review of the secondary data compiled for each service area and the findings from the key stakeholder survey.
- **Prioritization**: Focus group facilitators led focus group participants through the prioritization of the community issues that were identified in the key stakeholder survey for their specific community.
- **Discussion:** Focus group facilitators helped engage focus group participants in rich discussion concerning the priority focus areas identified via a structured facilitation guide.

Multiple team members from the Division of Population Health within Ballad Health attended each focus group and were assigned one of the following roles:

- **Facilitator**: Present secondary data and key stakeholder survey findings, lead focus group through prioritization process, and facilitate discussion surrounding priority focus areas identified by the focus group.
- Notetaker: Take detailed notes on the discussion surrounding the priority areas.
- **Chat Box Moderator:** Monitor the chat box on the WebEx platform to ensure all communications were acknowledged and addressed.

Following the conclusion of the focus group, the facilitator, notetaker, and chat box monitor collectively reviewed the notes to ensure accuracy and address any areas of confusion. Once focus group notes were finalized and approved, focus group data was coded and analyzed by primary and secondary coders who are team members of the Division of Population Health within Ballad Health.

4.2.4.1 Key Stakeholder Focus Group Demographics

The key stakeholder focus groups were conducted virtually via WebEx and were one hour and thirty minutes in length. For Greeneville Community Hospital, there were thirteen (n=13) focus group participants. Similar to the key stakeholder survey representation, focus group participants represented an array of different sectors in Greene County, which included: the school system, businesses, the health care system, and more. For stakeholders who were not able to attend the focus group in real-time, blank facilitation guide templates with questions concerning the three priority areas identified by the focus group participants were sent to them immediately after the conclusion of the focus group. This allowed key stakeholders who were not able to attend the focus group in real-time to still provide input and Ballad Health to ensure the involvement of diverse stakeholders.

5 Identification of Key Priority Areas

Analysis of secondary data for Greene County, findings from the key stakeholder survey, and the perspectives of diverse key stakeholders led to the prioritization of community issues for Greeneville Community Hospital as depicted in the graphic below.



As discussed in the section concerning the design of the key stakeholder survey, three of the thirteen survey questions dealt with the identification of the most pressing community issues. The first of the three questions dealt with asking key stakeholders to frame in their own words what the top three health-related issues their community was facing. The second of the three questions was handled in the same manner as the first, except now the survey question asked key stakeholders to identify the top three social or environmental issues their community was facing. The last of the three questions sought to incorporate the voice of the community to the extent possible through asking stakeholders to identify the issues they believe residents in their community would like to see efforts prioritized around. Results of these three survey questions from respondents who work in Northeast Tennessee are shown in the graphs below. The percentages on the bar graphs represent the percentage of Northeast Tennessee respondents who mentioned a particular community issue or concern.

PLEASE LIST THE THREE MOST IMPORTANT HEALTH-RELATED ISSUES THAT AFFECT THE OVERALL HEALTH OF YOUR COMMUNITY.



*Other health-related issues that were mentioned by respondents were physical inactivity, unintended pregnancy, COVID-19, and dental health.

PLEASE LIST THE THREE MOST IMPORTANT SOCIAL/ENVIRONMENTAL ISSUES THAT AFFECT THE OVERALL HEALTH OF YOUR COMMUNITY.



*Other social/environmental issues that were mentioned by respondents were poverty, discrimination, and safe water sources.

FROM THE PERSPECTIVE OF THOSE WHO LIVE IN YOUR COMMUNITY, WHAT ISSUES DO YOU BELIEVE THE RESIDENTS WOULD LIKE TO SEE EFFORTS PRIORITIZED AROUND?



*Other community that were mentioned by respondents were childcare, ACEs, and COVID-19.

From these three survey questions, the top ten community issues identified for Northeast Tennessee communities were found to be the following:



After being presented with the secondary data specific to Greene County, focus group participants were asked to vote for three of the ten community issues listed above that they felt should be priority focus areas for future improvement efforts in Greene County. The three issues that obtained the majority of the votes were the three priority areas selected and became the focus of the facilitated discussion. For Greeneville Community Hospital, the three priority areas for future improvement efforts that were selected by key stakeholders in Greene County are **substance abuse, mental health, and food insecurity.** Table 3 below highlights some of the secondary data measures used for both gathering baseline data and measuring change for the three priority areas selected for Greeneville Community Hospital.

| Table 3 | | | | | | |
|------------------------|--|--|--|--|--|--|
| Priority Focus Area | Sub-Measure | | | | | |
| Substance Abuse | Drug Overdose Deaths Nonfatal Drug Overdose Children with NAS Alcohol-Impaired Driving Deaths Excessive Drinking | | | | | |
| Mental Health | Frequent Mental DistressSuicide Rate | | | | | |
| Food Insecurity | Food Insecurity | | | | | |

As evidenced by the county-level vs. state-level data represented for each of the priority measures selected by Greene County focus group participants, opportunity for improvement exists across all priority measures within the local community. Although not all metrics compare unfavorably to the overall state data, opportunity still exists, as the Tennessee data is not intended as a benchmark, but merely as a comparison. In addition to state-level comparisons, priority measures for Greene County are also compared to the average of the Northeast Tennessee counties in Ballad Health's GSA.

By identifying these priority areas, Greeneville Community Hospital, in conjunction with Ballad Health and other local community organizations, can begin to implement targeted programs and efforts to improve the overall health and well-being of citizens of Greene County.

5.1 Priority Area Measures with County vs. Ballad Health GSA Average for NE TN

Counties vs. State Comparisons (when applicable):











5.1.2 Mental Health





5.1.3 Food Insecurity



6 Root Causes of Key Priority Areas

Because health is more than just a result of behaviors or individual pre-disposition to disease, Ballad Health realizes that it must also evaluate social determinants such as the environment and community in which people live, the access to care they have, and the policy issues that exist/are absent in order to be able to make effective strides in improvement. For this reason, **root causes** for each of three priority focus areas were discussed in the focus group to better understand the relationships between various community issues. Utilizing more upstream ways of thinking and better understanding the true root causes of community issues will allow Ballad Health to better understand how to design future efforts and determine which community partners are needed for a collective effort to truly bring about a measurable change.



To help understand the true root causes of three priority focus areas selected for Greeneville Community Hospital, participants in the focus group identified the causes they believe must be addressed and accounted for in future improvement efforts in order to truly make impactful progress and change. The identified root causes for the priority focus areas for Greeneville Community Hospital include:

6.1 Substance Abuse:

- Depression
- Poverty
- Addiction to pain medications
- Selling pain medications for supplemental income
- COVID-19 consequences
- Unemployment/Job loss

- Generational addiction
- Access to substances
- Limited number of spots available for intensive in-patient treatment facilities
- Return to environment where drugs are readily available after treatment

6.2 Mental Health:

- ACEs
- **•** COVID-19
- Isolation
- Substance use
- Lack of access to care
- Loss of hope and purpose
- Cost of mental health treatment/assistance

6.3 Food Insecurity:

- Lack of transportation
- Legacy of racism
- Financial debt due to unexpected emergencies
- Poverty/Low socio-economic levels
- More people using federal programs like SNAP and WIC
- Medical costs and deciding where to spend funds
- Lack of understanding of nutritional food and food prep
- Numerous places for people to get food, but you can't overcome food insecurity by distributing food boxes

7 Community and Hospital Resources: Current and Needed

7.1 Current Resources

To help improve the identified health priorities for Greene County, focus group participants were also asked to help identify **current** programs/organizations/individuals/services from the local community that may be of assistance with the population health efforts in their county. Because multiple resources working together for the same cause can help to drive change faster, having the inventory of local resources with whom Ballad Health can partner with is key. There are many resources currently in existence in Greene County through both the hospital and local organizations. The current and available resources identified for each of the three priority focus areas in the focus groups are as follows:

7.1.1 Substance Abuse:

- Nolichucky Mental Health
- Pain Management Clinics in Region
- PCP assistance for referrals
- Nurse Line for guidance

7.1.2 Mental Health:

- Frontier Health
- GCS (Greeneville County Schools) mental health counselor
- GCS has EAP (Employee Assistance Program) and online EAP for staff
- Ballad Health has behavioral health services in Greeneville
- Extension has mental health programs for youth and adults Matching Mind and Body and Anger Management

7.1.3 Food Insecurity:

- Food pantries/banks
- Second Harvest
- Community Food Bank
- Save the Children Food distribution of Greene County
- GCS Family Resource Center
- Extension office has classes for food preservation to extend food supply
- GC Ministries
- Rural Resources Farm & Food Education Center; container gardens

7.2 Needed Resources

In addition to identifying current resources, focus group participants were also asked to identify **needed** resources that **do not** currently exist in their local community that could be of assistance with the population health efforts in their county. The identification of needed resources will help to bridge gaps and overcome barriers to care when addressing these priority focus areas. The needed

resources identified for each of the three priority focus areas in the focus groups are as follows:

7.2.1 Substance Abuse:

- Treatment Centers
- In-house mental health facility

7.2.2 Mental Health:

- More mental health providers
- Repurpose Greene Valley for treatment and recovery facility
- More mental health services offered
- Determine number of programs in Greene County with colleges for therapists and psychologists
- Mental health specialists and social workers in schools to implement ACEs techniques and screeners and prescreening process

7.2.3 Food Insecurity

- A system of transportation
- Work training, programs, and strategies to assist families who have multiple issues.
- Space to grow food
- Easier access to healthy foods
- Too much access to processed foods
- Work with Tusculum to have a "grow your own" program
- Community gardens
- Gardening classes
- Healthy eating classes for kids
- Nutrition classes
- Access to resources to teach healthy eating

8 Ideas and Suggestions for Future Improvement Efforts to Address Key Priority Areas

8.1 Multi-Sector Ideas and Suggestions for Improvement Efforts

Foundational to any population health improvement effort is the identification of actionable priorities. Now that this has been accomplished, the hospital can begin to formulate targeted implementation plans to help address the disparities plaguing parts of its population. By identifying these priority areas, Greeneville Community Hospital in conjunction with Ballad Health and other local community organizations can begin to implement targeted programs and efforts to improve the overall health and well-being of citizens of Greene County. To best plan for and design improvement efforts that address the three priority focus areas, focus group participants offered ideas and suggestions for potential improvement efforts and solutions that can be incorporated into the Community Health Needs Assessment Implementation Plan for Greeneville Community Hospital. Focus group participants were not asked to formulate entire initiatives or improvement efforts, but were instead asked to offer ideas and suggestions for potential improvement effort. The ideas and suggestions for potential improvement efforts. The ideas and suggestions for potential improvement efforts for each of the three priority areas are as follows:

8.1.1 Substance Abuse:

- Pain Management Clinic in Greeneville
- Increase access to Mental Health Specialists

8.1.2 Mental Health:

- More professional care and mental health providers
- Integrate mental health professionals into to the clinics and hospitals
- Increased beds in the East TN area
- Scholarships for licensed therapists and psychologists
- Partner with schools to address ACEs
- Change the language to change the stigma with "mental" health
- More treatment facilities
- Repurpose Greene Valley as treatment facility
- More counselors in the schools

8.1.3 Food Insecurity:

- More training and engagement opportunities for folks to grow and process their own food
- Food Bus that takes food to people
- National programs about growing food
- Teach people how to grow food
- Educational and employment assistance services
- How to buy in stores, store tours, and education about pricing
- Family resource directors to help with job search
- Address addiction, which will help with appropriate allocation of family resources.

• Work with Tusculum to have a "grow your own" program

8.2 Ideas and Suggestions for Improvement Efforts Specific to Ballad Health and Greeneville Community Hospital

In addition to discussing ideas and suggestions for protentional improvement efforts, the focus group participants also discussed possibilities for how Greeneville Community Hospital and Ballad Health can continue or enhance programs/services to provide local resources to support the identified priorities and best be a community partner in future improvement efforts. Several of the ideas and suggestions for potential improvement efforts for each of the priority areas were repeated by focus group participants again here, signifying that the participants believe Ballad Health and Greeneville Community Hospital should either lead or be largely involved in the improvement effort. Suggestions as to how Ballad Health and Greeneville Community Hospital can improve the previously identified priority focus areas are listed below:

8.2.1 Substance Abuse:

- Support Groups
- Educate community/public through media and Ballad Health
- Seek grants to increase in-patient treatment facilities

8.2.2 Mental Health:

- Bring in more mental health providers
- Integrate mental health into how we do business
- As part of the COPA, Ballad Health could provide a behavioral health specialist for each school system
- Metal health specialist located in primary care offices

8.2.3 Food Insecurity:

- Offer lots of social work and payment plans for folks who have medical emergencies and have difficulty paying
- Support relational programming (such as hands-on gardening and cooking opportunities for young people)
- Provide training to medical staff- possibly a poverty simulation- so they have greater understanding and patience with folks who are experiencing poverty
- Partner with local community food banks
- Knowledge about grants and financial opportunities that can support these programs
- Help with grant writing
- Community gardens on hospital campus
- Provide nutritional classes by hospital dieticians
- Increase health system staff participation in community groups
- Provide classes away from the hospital setting
- More communication and cooperation among all the food resources in the community to provide healthy food options

• Gentle pressure to create an environment among the food providers for us all to move forward collectively.

9 COVID-19 Pandemic

Ballad Health fully understands the toll the COVID-19 Pandemic had on our communities and health care system. In both the key stakeholder survey and key stakeholder focus groups, Ballad Health wanted to reflect and better understand how communities have struggled in light of the pandemic through understanding what types of services and assistance were needed most by communities. This information obtained by the communities are still allow Ballad Health to best plan for barriers to future improvement efforts, as communities are still suffering from the effects of the pandemic. From the key stakeholder survey, the types of assistance needed most by communities due to COVID-19 are shown below. The percentages on the bar graphs represent the percentage of Northeast Tennessee respondents who selected that particular type of assistance.

AS A RESULT OF COVID-19, WHICH OF THE FOLLOWING SERVICES OR TYPES OF ASSISTANCE HAVE BEEN NEEDED MOST BY THE THOSE WITHIN YOUR COMMUNITY? (PLEASE SELECT YOUR TOP 3)



In the key stakeholder focus groups, participants were asked to detail how they felt the COVID-19 pandemic would affect the community's ability to address any of the three priority areas. Focus group participants mentioned the following negative consequences that arose from the pandemic:

- Substance abuse is likely increased as a result of COVID
- Mental health concerns, especially among the youth and young people

10 Conclusion

As hospitals and health systems continue to work to make the communities they serve healthier, the identification of prioritized population health issues has become an area of strategic importance. Because Greeneville Community Hospital is located in a region with many health and social challenges, that prioritization becomes even more important so that focused actions can be developed and implemented with strategic purpose. The allocation of hospital resources to the prioritized issues, coupled with partnerships with other community organizations, will continue to build momentum toward the building of a healthier Greene County.

11 Appendix

11.1 Sg2 2021 Population Profile

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| | Sg2 MA | RKET SN | APSHOT | • • | 1992 | |
|---------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------------|----------------------------|
| Market Snapshot | | | | | _ | |
| Greene County, TN | | | | | | |
| | Market 2021 | Market 2021 | Market 2026 | Market 2026 | Market Population % | National 202 |
| Population and Gender | Population | % of Total | Population | % of Total | Change | % of Total |
| emale Population | 34,050 | 50.79% | 34,583 | 50.74% | 1.57% | 50.75% |
| Iale Population | 32,989 67,039 | 49.21% 100.00 % | 33,578 68,161 | 49.26% 100.00 % | 1.79% | 49.25% 100.00 % |
| otai | 67,039 | 100.00 % | 00,101 | 100.00 % | 1.07 70 | 100.00 % |
| | Market 2021 | Market 2021 | Market 2026 | Market 2026 | Market Population % | National 202 |
| Age Groups | Population | % of Total | Population | % of Total | Change | % of Total |
| 0-17 | 12,588 | 18.78% | 12,219 | 17.93% | (2.93 %) | 22.17% |
| 8-44 | 20,349 | 30.35% | 20,640 | 30.28% | 1.43% | 35.64% |
| 5-64 | 18,731 | 27.94% | 18,022 | 26.44% | (3.79 %) | 25.13% |
| 5-UP | 15,371 | 22.93% | 17,280 | 25.35% | 12.42% | 17.06% |
| otal | 67,039 | 100.00 % | 68,161 | 100.00 % | 1.67 % | 100.00 % |
| thnicity/Race | Market 2021 Population | Market 2021 % of Total | Market 2026 Population | Market 2026 % of Total | Market Population % Change | National 202 % of Total |
| sian & Pacific Is. Non-Hispanic | 378 | 0.56% | 439 | 0.64% | 16.14% | 6.05% |
| Black Non-Hispanic | 1,446 | 2.16% | 1,523 | 2.23% | 5.33% | 12.40% |
| lispanic | 2,219 | 3.31% | 2,526 | 3.71% | 13.84% | 19.24% |
| Vhite Non-Hispanic | 61,851 | 92.26% | 62,387 | 91.53% | 0.87% | 58.97% |
| II Others | 1,145 | 1.71% | 1,286 | 1.89% | 12.31% | 3.34% |
| fotal | 67,039 | 100.00 % | 68,161 | 100.00 % | 1.67 % | 100.00 % |
| .anguage* | Market 2021 Population | Market 2021 % of Total | Market 2026 Population | Market 2026 % of Total | Market Population % Change | National 202 % of Total |
| Sermanic Lang at Home | 589 | 0.92% | 596 | 0.92% | 1.19% | 0.74% |
| Only English at Home | 58,925 | 92.34% | 59,962 | 92.33% | 1.76% | 76.50% |
| ther Asian-Pacific Lang at Home | 324 | 0.51% | 333 | 0.51% | 2.78% | 0.54% |
| panish at Home | 2,977 | 4.67% | 3,045 | 4.69% | 2.28% | 14.95% |
| agalog at Home | 524 | 0.82% | 536 | 0.83% | 2.29% | 0.80% |
| II Others | 471 | 0.74% | 474 | 0.73% | 0.64% | 6.46% |
| otal | 63,810 | 100.00 % | 64,946 | 100.00 % | 1.78 % | 100.00 % |
| Leven hald become | Market 2021 | Market 2021 | Market 2026 | Market 2026 | Market Households % | National 202 |
| Household Income | Households | % of Total | Households | % of Total | Change (44.50 %) | % of Total |
| <\$15K | 3,477 | 12.77% | 3,075 | 11.12% | (11.56 %) | 9.67% |
| 515-25K | 3,540 | 13.00% | 3,014 | 10.90% | (14.86 %) | 8.29% |
| TOF FOR | 6 961 | 25 10% | 6 767 | 24 460/ | (1 27 0/) | 20.2 |

| | -1 | | -1 | | (| |
|-------------|--------|----------|--------|----------|----------|----------|
| \$25-50K | 6,861 | 25.19% | 6,767 | 24.46% | (1.37 %) | 20.27% |
| \$50-75K | 4,891 | 17.96% | 4,518 | 16.33% | (7.63 %) | 16.57% |
| \$75-100K | 3,473 | 12.75% | 3,698 | 13.37% | 6.48% | 12.46% |
| \$100K-200K | 4,119 | 15.13% | 5,281 | 19.09% | 28.21% | 23.23% |
| >\$200K | 871 | 3.20% | 1,310 | 4.74% | 50.40% | 9.51% |
| Total | 27,232 | 100.00 % | 27,663 | 100.00 % | 1.58 % | 100.00 % |
| | | | | | | |

| | Market 2021 | Market 2021 | Market 2026 | Market 2026 | Market Population % | National 2021 |
|------------------------------|-------------|-------------|-------------|-------------|---------------------|---------------|
| Education Level** | Population | % of Total | Population | % of Total | Change | % of Total |
| Less than High School | 2,553 | 5.23% | 2,647 | 5.28% | 3.68% | 5.05% |
| Some High School | 4,605 | 9.43% | 4,741 | 9.47% | 2.95% | 6.83% |
| High School Degree | 19,440 | 39.81% | 19,987 | 39.90% | 2.81% | 26.95% |
| Some College/Assoc. Degree | 14,322 | 29.33% | 14,656 | 29.26% | 2.33% | 31.05% |
| Bachelor's Degree or Greater | 7,912 | 16.20% | 8,057 | 16.09% | 1.83% | 30.12% |
| Total | 48,832 | 100.00 % | 50,088 | 100.00 % | 2.57 % | 100.00 % |
| | | | | | | |

*Excludes population age<5, **Excludes population age<25

11.2 America's Health Rankings Graphic

The infographic below summarizes strength and challenges for the state of Tennessee in 2020:

| High-speed Internet - Ages 65+ | Poverty Racial Disparity - Ages 65+ | | | | |
|--|--|--|--|--|--|
| 73.7% SINCE 2020, HIGH-SPEED INTERNET - AGES 65+ * INCREASED 3% FROM 71.6% TO 73.7% | 2.2 RATIO OF THE RACIAL OR ETHNIC GROUP WITH THE HIGHEST POVERTY RATE TO THE NON-HISPANIC WHITE RATE AMONG ADULTS AGES 65 AND OLDER | | | | |
| Geriatric Providers | Preventable Hospitalizations - Ages 65-74 | | | | |
| 222.9 NUMBER OF FAMILY MEDICINE AND INTERNAL MEDICINE GERIATRICIANS AND NURSE PRACTITIONERS PER 100,000 ADULTS AGES 65 AND OLDER | SINCE 2020, PREVENTABLE HOSPITALIZATIONS - AGES 65-74* DECREASED 8% FROM 3,020 TO 2,770 * Discharges per 100,000 Medicare beneficiaries ages 65-74 | | | | |
| Severe Housing Problems - Ages 62+ | Early Death - Ages 65-74 | | | | |
| 26.0% PERCENTAGE OF ONE- TO TWO-PERSON HOUSEHOLDS WITH AN ADULT AGES 62 AND OLDER WITH AT LEAST ONE OF THE FOLLOWING PROBLEMS: LACK OF COMPLETE KITCHEN FACILITIES, LACK OF PLUMBING FACILITIES, OVERCROWDING OR COST-BURDENED OCCUPANTS (5- YEAR ESTIMATE) | 2,241 SINCE 2020, EARLY DEATH - AGES 65-74* DECREASED FROM 2,251 TO 2,241 * Deaths per 100,000 adults ages 65-74 | | | | |

11.3 County Health Rankings Graphic

The infographic below shows the 2021 rankings for Greene County for each of the County Health Ranking model components out of the 95 Tennessee counties.



County Health Rankings model © 2014 UWPHI

11.4 Secondary Data Tables

The seven data tables below showcase the secondary data metrics compiled for Greene County, TN. Metric definitions, the associated metric value for Tennessee, and data source reference are also included in the tables.

| Health Outcomes | | | | | | | | |
|--------------------------------|--|------------------------------------|---------------------------------------|-----------|----------------|---|--|--|
| Metric | Greene County | Ballad Health GSA Average | Ballad Health TN GSA Average | Tennessee | Reference | | | |
| Infant Mortality | Number of infant deaths (under one year of age) per 1,000 live births | 7.2 | 6.9 | 7.2 | 6.9 | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> | | |
| Low Birthweight | Percentage of live born infants with birth weight less than 5 pounds, 8 ounces | 8.0% | 9.3% | 8.3% | 9.3% | <u>Kids Count</u> | | |
| Children with NAS | Rate of NAS cases per 1,000 live births | 14.3 | 64.4 | 43.8 | 11.5 | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> | | |
| Poor or Fair Health | Percentage of adults reporting fair or poor health (age-adjusted) | 22.0% | 1 8.7 % | 22.4% | 20.0% | <u>County Health</u> <u>Rankings</u> | | |
| Cardiovascular Deaths | Rate of deaths from diseases of the heart per 100,000 population | 327.1 | 527.8 | 347.7 | 242.5 | <u>Tennessee</u> <u>Department of</u> <u>Health</u> | | |
| Cancer Deaths | Number of cancer deaths (all sites) per 100,000 population | 182.5 | 192.7 | 189.6 | 177.4 | <u>CDC</u> | | |
| Diabetes Mellitus Deaths | Rate of deaths from diabetes per 100,000 population | 31.8 | 32.4 | 33.6 | 29.9 | <u>Tennessee</u> <u>Department of</u> <u>Health</u> | | |
| Cerebrovascular Deaths | Rate of deaths from cerebrovascular disease per 100,000 population | 75.3 | 73.2 | 55.5 | 51.7 | <u>Tennessee</u> <u>Department of</u> <u>Health</u> | | |
| Suicide Rate | Rate of deaths from suicides per 100,000 population | 28.9 | 22.5 | 18.0 | 17.1 | <u>Tennessee</u> <u>Department of</u> <u>Health</u> | | |
| Lung Cancer Deaths | Number of lung and bronchus cancer deaths per 100,000 population | 61.3 | 57.8 | 58.7 | 51.3 | <u>CDC</u> | | |
| Female Breast Cancer Deaths | Number of female breast cancer deaths per 100,000 women | 17.1 | 21.7 | 20.7 | 22.0 | <u>CDC</u> | | |
| Prevalence of Diabetes | Percentage of adults aged 20 and above with diagnosed diabetes | 1 9.0 % | 15.2% | 17.1% | 1 3.0 % | <u>County Health</u> <u>Rankings</u> | | |
| Mammography Screening | Percentage of female Medicare enrollees ages 65-74 that received an annual mammography screening | 47.0% | 40 .1% | 41.5% | 41.0% | <u>County Health</u> <u>Rankings</u> | | |
| Frequent Mental Distress | Percentage of adults reporting 14 or more days of poor mental health per month | 15.0% | 13.8% | 15.3% | 14.0% | <u>County Health</u> <u>Rankings</u> | | |
| Premature Deaths | Number of deaths among residents under age 75 per 100,000 population (age-adjusted) | 530.0 | 526.4 | 535.0 | 450.0 | <u>County Health</u> <u>Rankings</u> | | |
| Health Behaviors | | | | | | |
|--|---|------------------|------------------------------------|---------------------------------------|-----------|---|
| Metric | Metric Definition | Greene County | Ballad Health GSA Average | Ballad Health TN GSA Average | Tennessee | Reference |
| Alcohol-Impaired Driving Deaths | Percentage of driving deaths with alcohol involvement | 20.0% | 22.0% | 37.0% | 25.0% | <u>County Health</u> <u>Rankings</u> |
| Excessive Drinking | Percentage of adults reporting binge or heavy drinking | 13.0% | 16.4% | 13.2% | 14.0% | <u>County Health</u> <u>Rankings</u> |
| Adult Smoking | Percentage of adults who are current smokers | 22.0% | 19.0% | 22.8% | 23.0% | <u>County Health</u> <u>Rankings</u> |
| Adult Obesity | Percentage of the adult population (age 20 and older) that reports a body mass index (BMI) greater than or equal to 30 kg/m2 | 38.0% | 33.6% | 33.8% | 33.0% | <u>County Health</u> <u>Rankings</u> |
| TN Public School Students Measured as Overweight or Obese | Percentage of public school students who were measured as overweight or obese | 43.8% | | 45.3% | 39.3% | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Physical Inactivity | Percentage of adults age 20 and over reporting no leisure-time physical activity | 35.0% | 60.3% | 30 .1% | 27.0% | <u>County Health</u> <u>Rankings</u> |
| Access to Exercise Opportunities | Percentage of population with adequate access to locations for physical activity | 45.0% | 33.3% | 63.8% | 70.0% | <u>County Health</u> <u>Rankings</u> |
| Teen Births | Number of live births per 1,000 females aged 15-17 years old | 12.5 | 8.9 | 11.2 | 9.6 | <u>Kids Count</u> |
| Drug Overdose Deaths | Rate of drug overdose deaths per 100,000 Tennesseans | 35.0 | 14.9 | | 27.0 | <u>Tennessee</u> <u>Department of</u> <u>Health</u> |
| Nonfatal Drug Overdose | Rate of inpatient stays involving non- fatal drug overdose per 100,000 Tennesseans | 140.0 | 162.9 | 133.3 | 102.0 | <u>Tennessee</u> <u>Department of</u> <u>Health</u> |
| Opioid Prescription | Rate of opioid prescriptions per 1,000 Tennesseans (at least one opioid for pain prescription) | 1092.0 | 17.6 | 1091.8 | 793.0 | <u>Tennessee</u> <u>Department of</u> <u>Health</u> |
| Violent Crime | Number of reported violent crime offenses per 100,000 population | 317.0 | 14.5 | 376.3 | 621.0 | <u>County Health</u> <u>Rankings</u> |
| Firearm Fatalities | Number of deaths due to firearms per 100,000 population | 15.0 | | 15.8 | 17.0 | <u>County Health</u> <u>Rankings</u> |
| Motor Vehicle Crash Deaths | Number of motor vehicle crash deaths per 100,000 population | 20.0 | | 18.2 | 15.0 | <u>County Health</u> <u>Rankings</u> |

| Health Determinants | | | | | | |
|--|--|------------------|------------------------------------|---------------------------------------|---------------|---|
| Metric | Metric Definition | Greene County | Ballad Health GSA Average | Ballad Health TN GSA Average | Tennessee | Reference |
| Uninsured Adults | Percentage of adults under age 65 without health insurance | 14.0% | 13.6% | 14.6% | 14.0% | <u>County Health</u> <u>Rankings</u> |
| Uninsured Children | Percent of uninsured children under the age of 19 | 5.0% | 5.3% | 4.7% | 5.1% | <u>Kids Count</u> |
| Median Household Income | The income where half of households in a county earn more and half of households earn less | \$44,400 | \$40,863 | \$41,140 | \$52,400 | <u>County Health</u> <u>Rankings</u> |
| Children Eligible for Free or Reduced Lunch | Percentage of students who are eligible for the free or reduced-price meals program during a school year | 62.2% | 56.8% | 71.6% | 62 .1% | <u>Kids Count</u> |
| Children in Single- Parent Household | Percentage of children that live in a household headed by single parent | 36.0% | 34.8% | 34.5% | 35.0% | <u>County Health</u> <u>Rankings</u> |
| Children In Poverty | Percent of children under age 18 living with an income below the official poverty threshold | 24.3% | 25.3% | 28.0% | 19.4% | <u>Kids Count</u> |
| High School Graduation | Percentage of students graduating within four years of entering high school, and graduation in more than four years for students with an Individual Education Plan | 95.4% | 55.1% | 89.7% | 89.6% | <u>Kids Count</u> |
| College Going Rate | Percentage of high school students who were part of the high school freshman cohort and graduated during the winter, spring, or summer preceding the summer or fall they enrolled in higher education | 62.3% | 94.4% | 59.4% | 61.8% | <u>Kids Count</u> |
| College Enrollment/Compl etion | Exact data definition not provided by source | 57.5% | 4.0% | 64.0% | 62.5% | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Unemployment | Percentage of population ages 16 and older unemployed but seeking work | 4.6% | 11.9% | 4.2% | 3.5% | <u>County Health</u> <u>Rankings</u> |
| Food Insecurity | Percentage of population who lack adequate access to food | 13.0% | 80.4% | 13.9% | 14.0% | <u>County Health</u> <u>Rankings</u> |
| TNReady English Language Arts for 3rd to 8th graders | Percentage of students from 3rd to 8th grade who achieved on-track or mastered score in English Language Arts (ELA) during a school year | 31.8% | 5.0% | 31.9% | 33.7% | <u>Kids Count</u> |

| Physical Environment | | | | | | |
|---------------------------------------|--|------------------|------------------------------------|---------------------------------------|-----------|---|
| Metric | Metric Definition | Greene County | Ballad Health GSA Average | Ballad Health TN GSA Average | Tennessee | Reference |
| Severe Housing Problems | Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, lack of kitchen facilities, or lack of plumbing facilities | 12.0% | 11.6% | 1 3 .1% | 15.0% | <u>County Health</u> <u>Rankings</u> |
| Median Home Sale Price | The home sale price where half of homes in a county sell for more and half of homes sell for less | \$130,0 00 | \$132,548 | \$128,50 1 | \$146,000 | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Air Pollution - particulate matter | Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5) | 10.0 | 9.4 | 9.7 | 10.0 | <u>County Health</u> <u>Rankings</u> |

| | Clinical Care and | Health | Resourc | es | | |
|--|---|------------------|------------------------------------|---------------------------------------|-----------|---|
| Metric | Metric Definition | Greene County | Ballad Health GSA Average | Ballad Health TN GSA Average | Tennessee | Reference |
| Hospital Staffed Beds | Total number of hospital staffed beds available (in the Ballad Health system for county data) | 62 | | | 19,756 | Tennessee Department of Health |
| Licensed Beds | Total number of licensed beds available (in the Ballad Health system for county data) | 140 | | | 24,649 | Tennessee Department of Health |
| Medical Doctors | Rate of medical doctors per 100,000 residents | 99.9 | | 103 | 229.1 | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> Youth |
| Mental Health Providers | Ratio of population to mental health providers | 1,081:1 | | | 660:1 | <u>County Health</u> <u>Rankings</u> |
| Dentists | Rate of dentists per 100,000 residents | 28.9 | | 26 | 50.1 | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Preventable Hospital Stays | Rate of hospital stays for ambulatory- care sensitive conditions per 100,000 Medicare enrollees | 5,375 | 5,829 | 5,064 | 5,320 | <u>County Health</u> <u>Rankings</u> |
| Flu Vaccinations | Percentage of fee-for-service (FFS) Medicare enrollees that had an annual flu vaccination | 48.0% | 43.8% | 41% | 49.0% | <u>County Health</u> <u>Rankings</u> |
| Medicaid Enrollees | Percent of population enrolled in TennCare | 22.6% | 34.8% | 24% | 20.7% | <u>Kids Count</u> |
| Food Stamp Eligible Participants | Percent of population who receive food stamps under SNAP | 12.7% | | 18% | 13.4% | <u>Kids Count</u> |
| Children on SNAP | Percent of children on SNAP out of total child population | 26.1% | | 35% | 28.2% | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Infants and Children on WIC | Percent of infants on WIC out of total infant population | 48.6% | | 48% | 30.6% | Tennessee Commission on Children & Youth |

| Maternal Infant Health | | | | | | |
|--|--|------------------|------------------------------------|---------------------------------------|-----------|---|
| Metric | Metric Definition | Greene County | Ballad Health GSA Average | Ballad Health TN GSA Average | Tennessee | Reference |
| Birth Rate | Number of births per 1,000 women ages 15-44 | 10.1 | 58.8 | 10.2 | 11.9 | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Adequate Prenatal Care | Percent of live births in a given calendar year where mother received adequate prenatal care | 66.2% | 41.0% | 56.1% | 58.8% | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Mothers Who Smoke During Pregnancy | Percent of total births for which the mother indicated she smoked while pregnant | 22.9% | | 25.2% | 12.1% | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |

| Adverse Childhood Experiences | | | | | | |
|--------------------------------|---|------------------|------------------------------------|---------------------------------------|-----------|---|
| Metric | Metric Definition | Greene County | Ballad Health GSA Average | Ballad Health TN GSA Average | Tennessee | Reference |
| Reported Child Abuse Cases | Percentage of reported child abuses cases out of total child population | 6.4% | | 6.7% | 4.7% | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |
| Commitment to State Custody | Rate of commitment to state custody per 1,000 children | 6.9 | 4.4 | 6.0 | 4.1 | <u>Tennessee</u> <u>Commission on</u> <u>Children &</u> <u>Youth</u> |

11.5 Survey Question Data

The first two questions (Q1 and Q2) on the key stakeholder survey were used to identify the service area of the respondent and determine what organization they were representing. Findings from Northeast Tennessee respondents for questions three through thirteen (Q1 – Q13) are given below:

Q3) WHEN THINKING OF THE HEALTH OF YOUR COMMUNITY, WHAT VULNERABLE POPULATIONS DO YOU THINK DESERVE OUR PARTICULAR ATTENTION?



*Other vulnerable populations that were mentioned by respondents were homeless individuals, veterans, maternal women, and marginalized populations.

Below are some of the specifics given by survey respondents for each of the vulnerable populations listed above:



Q4) PLEASE LIST THE THREE MOST IMPORTANT HEALTH-RELATED ISSUES THAT AFFECT THE OVERALL HEALTH OF YOUR COMMUNITY.



*Other health-related issues that were mentioned by respondents were physical inactivity, unintended pregnancy, COVID-19, and dental health.

Q6) PLEASE LIST THE THREE MOST IMPORTANT SOCIAL/ENVIRONMENTAL ISSUES THAT AFFECT THE OVERALL HEALTH OF YOUR COMMUNITY.



*Other social/environmental issues that were mentioned by respondents were poverty, discrimination, and safe water sources.

Q5 and Q7) PLEASE ELABORATE ON WHY YOU SELECTED THOSE THREE HEALTH-RELATED AND SOCIAL/ENVIRONMENTAL ISSUES TO BE THE MOST IMPORTANT.

Three overarching themes were identified:



Q8) BASED ON YOUR ANSWERS TO BOTH QUESTION 4 AND QUESTION 6, WHICH DO YOU FEEL HAS A GREATER EFFECT ON THE OVERALL HEALTH OF YOUR COMMUNITY?



Q9) FROM THE PERSPECTIVE OF THOSE WHO LIVE IN YOUR COMMUNITY, WHAT ISSUES DO YOU BELIEVE THE RESIDENTS WOULD LIKE TO SEE EFFORTS PRIORITIZED AROUND?



food insecurity.

Q10) WHAT IDEAS OR SUGGESTIONS DO YOU HAVE TO IMPROVE THE OVERALL HEALTH OF YOUR COMMUNITY?

Four overarching themes were identified:



Q11) BASED ON THE PRIORITIES IDENTIFIED IN PREVIOUS COMMUNITY ASSESSMENTS, DO YOU FEEL AS THOUGH THINGS HAVE IMPROVED, STAYED THE SAME, OR WORSENED?



Q12) BASED ON YOUR ANSWER TO THE PREVIOUS QUESTION, PLEASE ELABORATE ON WHY YOU SELECTED THE ANSWER YOU CHOSE.



Q13) AS A RESULT OF COVID-19, WHICH OF THE FOLLOWING SERVICES OR TYPES OF ASSISTANCE HAVE BEEN NEEDED MOST BY THE THOSE WITHIN YOUR COMMUNITY? (PLEASE SELECT YOUR TOP 3)



11.6 Focus Group Facilitation Guide

<u>Top 10 Community Issues Identified via Community Stakeholder Survey (in no</u> particular order):

*Both health-related and social/environmental issues are listed.

Transportation Adverse Childhood Experiences (ACEs) Food Insecurity/Lack of Proper Nutrition Housing Education Discrimination Access to Care Substance Abuse Mental Health Chronic Disease

Prioritization of Community Issues:

*Attendees will be asked to vote on which 3 community issues they believe should have priority. Selection of the top 3 community issues will be based on majority of votes.

Question: Out of 10 community issues listed above, which 3 do you believe should be priority focus areas for improvement efforts moving forward?

Focus Group Discussion Questions:

*These discussions will be tailored to the 3 focus areas selected by the group.

Questions for Focus Area #1, #2, and #3:

*Each of the 7 questions below will be asked independently for each of the 3 focus areas identified. One focus area will be discussed at a time, meaning Questions 1-7 will be asked for Focus Area #1 before moving on to Focus Area #2, and so on.

1) What do you believe the potential root causes are for this focus area?

2) What resources currently exist in your community to address this focus area? (programs, services, etc.)

3) What are some possible solutions to address this focus area?

4) What resources are needed that don't currently exist in your community to address this focus area?

5) Who should lead the effort to address this focus area?

6) Who else should be involved in the effort to address this focus area? If not already mentioned,

7) What ideas do you have for the health system to address this focus area?

Question for ALL 3 Focus Areas:

*Question is for any or all of the 3 focus areas identified.

8) How will COVID-19 affect the community's ability to address any of the focus areas identified?

11.7 Data Sources and References

- Centers for Disease Control and Prevention
- America's Health Rankings
- County Health Rankings
- Sg2 Analytics
- Kids Count
- Tennessee Department of Health
- Tennessee Commission on Children & Youth
- National Association of County and City Health Officials