

2021

Community Health Needs Assessment



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INTRODUCTION

Ferrell Hospital began in 1925 as a physician's office on the second floor of a downtown office building in Eldorado, Illinois. Three years later, in 1928, a one-story hospital with 12 beds and five staff members was built at the current 1201 Pine Street location. The hospital was named in recognition of its founder, Dr. J.V. Ferrell, and remained a one-physician hospital until 1937 when Dr. Robert V. Ferrell joined his father in practice.

The first addition to the original hospital structure came in 1941 when a second story was added and capacity increased to 23 beds.

Ferrell enjoyed further growth following World War II. In 1948, a north wing was completed, increasing the bed capacity to 40. In 1958, new kitchen and dining facilities were completed as well as a remodeling project that increased the bed count to 49.

In 1967, the physician-owners sold Ferrell Hospital to a group of area businessmen and professionals. Faced with mounting government regulations and the need for a more modern facility, planning began in the late 1960s for construction of a new hospital. Twenty area businessmen and physicians formed a land trust corporation in 1974 to finance construction of a new hospital. Their plan involved building space for 51 hospital beds and a six-suite physician clinic. The new facility opened on February 1, 1976.

Twenty years later, Southern Illinois Healthcare Enterprises, Inc. (SIH) purchased the hospital. SIH upgraded imaging and diagnostic equipment, including MRI, and added an off-site physical therapy facility, Rehab Unlimited, in 2000. Also during this time, the cardiopulmonary rehabilitation department, emergency department, and surgical suite were completely remodeled. Ferrell Hospital received accreditation as a critical access facility in 2003.

Effective March 1, 2004, SIH entered into an agreement with Ferrell Hospital Board of Directors to return the hospital to local ownership and governance. On April 1, 2005, Ferrell Hospital Community Foundation became an independent critical access hospital.

Ferrell Hospital entered into an agreement with Deaconess Illinois in December 2015 to manage and provide additional support to staff and services at Ferrell. Today, that partnership remains strong and each hospital maintains its independence. With the help of Deaconess Illinois, Ferrell Hospital envisioned and completed a major modernization and expansion plan. Ferrell Hospital now offers new patient care areas, private patient rooms, more modern facilities and expanded spaces for new physicians and other providers. Ferrell is a much stronger hospital financially and in the quality of care provided, due to the partnership with Deaconess Illinois.

Ferrell Hospital is a critical access hospital in southern Illinois with four rural health clinics in Eldorado, Carmi, and McLeansboro, and the newest addition of Harrisburg Family Medicine, a primary care clinic. Ferrell Hospital is dedicated to improving the health and quality of life for the people and communities they serve. Saline County is ranked 98th in the 2021 County Health Rankings.

Ferrell Hospital's commitment – and impact – shows in the growth and progress they are experiencing that is very different from national rural health trends.

EXECUTIVE SUMMARY


Provisions in the Affordable Care Act (ACA) require charitable hospitals to conduct a Community Health Needs Assessment (CHNA). The CHNA is a systematic process involving the community to identify and analyze community health needs as well as community assets and resources in order to plan and act upon priority community health needs.

This assessment process results in a CHNA report which assists the hospital in planning, implementing, and evaluating hospital strategies and community benefit activities. This Community Health Needs Assessment was developed and conducted, in partnership with representatives from the community, by a consultant provided through the Illinois Critical Access Hospital Network (ICAHN).

ICAHN is a not-for-profit 501(c)(3) corporation established in 2003 for the purposes of sharing resources, education, promoting operational efficiencies, and improving healthcare services for member critical access and rural hospitals and their communities.

ICAHN, with 57 member hospitals, is an independent network governed by a nine-member board of directors, with standing and project development committees facilitating the overall activities of the network. ICAHN continually strives to strengthen the capacity and viability of its members and rural health providers.

This Community Health Needs Assessment will serve as a guide for planning and implementation of healthcare initiatives that will allow the hospital and its partners to best serve the emerging health needs of Eldorado and the surrounding area. The CHNA process was coordinated by the Chief Compliance Officer and Director of Human Resources.



Three focus groups met to discuss the state of overall health and wellness in the Ferrell Hospital service area and to identify health concerns and needs in the delivery of healthcare and health services in order to improve wellness and reduce chronic illness for all residents. The focus groups included representation of healthcare providers, community leaders, community services providers, schools, a community college, faith-based organizations, local elected officials, public health and others. Several members of these groups provided services to underserved and unserved persons as all or part of their roles.

The findings of the focus groups were presented, along with secondary data analyzed by the consultant, to a third group for identification and prioritization of the significant health needs facing the community. The group consisted of representatives of public health, community leaders, healthcare providers, and community services providers.

IDENTIFICATION AND PRIORITIZATION > ADDRESSING THE NEED

At the conclusion of their review and discussion, the identification and prioritization group advanced the following needs:



Availability of Mental Health and Substance Abuse Services



Reduce COVID Vaccine Hesitancy



Address Issues Related to Public Transportation

- 1. The group first identified and prioritized availability of mental health and substance abuse services, including:**
 - Reducing the stigma toward mental health and substance use disorders issues and treatment
 - Improved access to mental health and substance use care at all levels for youth
 - Improved access to mental health and substance use care at all levels for adults
- 2. The group next prioritized the need to reduce COVID vaccine hesitancy**
- 3. The third prioritized need was to address awareness, stigma, and flexibility issues related to public transportation**

The results of the assessment process were then presented to senior staff at Ferrell Hospital through a facilitated discussion for development of a plan to address the identified and prioritized needs.

ADDRESSING THE NEED > CREATING THE PLAN

The group addressed the needs with the following strategies:

- Ferrell Hospital will develop a commercial media and social media information drive, including using in-house kiosks to create awareness of mental health stigma and its impact
- Ferrell Hospital will develop a youth-targeted campaign to address the stigma that often results in failure to seek help by youth facing substance use disorders personally or at home
- Ferrell Hospital will initiate a pain management program that will include medication assisted treatment to respond to substance use disorders
- Ferrell Hospital will explore partnerships with schools for new and expanded services for youth
- Ferrell Hospital will explore ways to partner or cooperate with the Stress and Trauma Clinic in Eldorado
- Ferrell Hospital will explore developing support groups for persons with mental health and/or substance use issues and those that care about them
- Ferrell Hospital will explore increasing counseling capabilities at all clinics
- Ferrell Hospital will continue to provide counseling to seniors
- Ferrell Hospital will explore developing tele-mental health service for youth and adults
- Ferrell Hospital will continue to collaborate with public health agencies to develop mental health mitigations
- Ferrell Hospital will continue education efforts on vaccinations and COVID prevention in the community and amongst employees and new hires
- Ferrell Hospital will attempt to address portions of these specific issues by continuing to increase the availability of local medical services, thereby reducing the need for transportation out of the area for care
- While widescale general public transportation is beyond the role and expertise of a critical access hospital, Ferrell Hospital stands ready to reasonably assist any agency or organization that determines to attempt to resolve the issues of awareness, stigma, and flexibility related to transportation needs.

- Ferrell Hospital believes that the condition of the local economy is, in part, responsible for the overall picture of public transportation in the area. Economic conditions including decline in employment opportunities and related impacts have reduced stability of circumstances that impact public transportation – from the necessity for many to travel beyond the local area for work and other needs and the population itself. Ferrell Hospital is committed to offer appropriate and reasonable support to efforts of local governments, chambers of commerce, and others to address economic issues and social determinants of health, including broadband.

BACKGROUND

The Community Health Needs process is conducted every three years. In response to issues identified and prioritized and the implementation strategy developed to address them, Ferrell Hospital has taken the following steps since the last CHNA.

Priority #1:

Explore the causes of chronic illness and improving early identification through screenings and other methods, especially cancer and heart disease

- Started clinics for peripheral arterial disease (PAD) and congestive heart failure (CHF) for Ferrell Hospital patients
- Staff received training regarding smoking cessation classes to be offered to the community
- Hired a fulltime dietitian to perform inpatient and outpatient consultations.
- Offered “Lunch and Learns” to address heart disease and other chronic diseases to the community prior to COVID
- Worked with Deaconess on Epic to ensure Ferrell Hospital was receiving accurate data on patients who were in need of screenings – this was put on hold due to COVID
- Started the process of the diabetes self-management program

Priority #2:

Provide education and guidance for seniors on the topics of Medicare, senior wellness, and other health services for older adults

- Continued to work to expand the Senior Transitions Program and hired an additional counselor
- Added rheumatology and urology services

Priority #3:

Mental health

- Two nurse practitioners successfully completed the certification program to implement suboxone services for substance abuse
- Provide mental health education to patients as needed when presenting to Ferrell Hospital

Priority #4:

Address teen birth rate, low birth rate, and infant mortality through education and access to care

- Began offering women's services in Saline and White County through Ferrell Hospital's clinics
- Clinic providers offered educational programs at the middle school

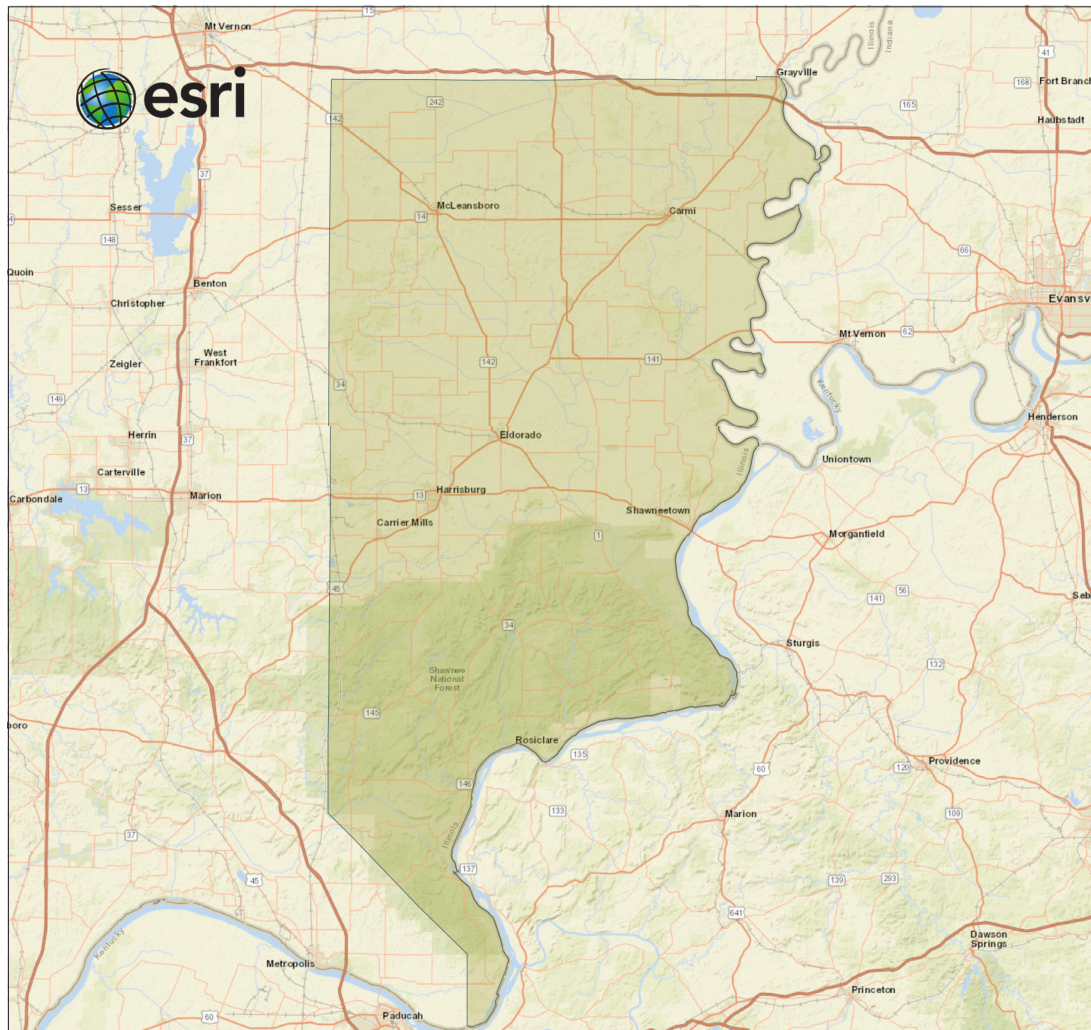
Priority #5:

Local access to dental care, especially for persons on Medicaid

- Explored options of dental services within rural health clinics



AREA SERVED BY FERRELL HOSPITAL



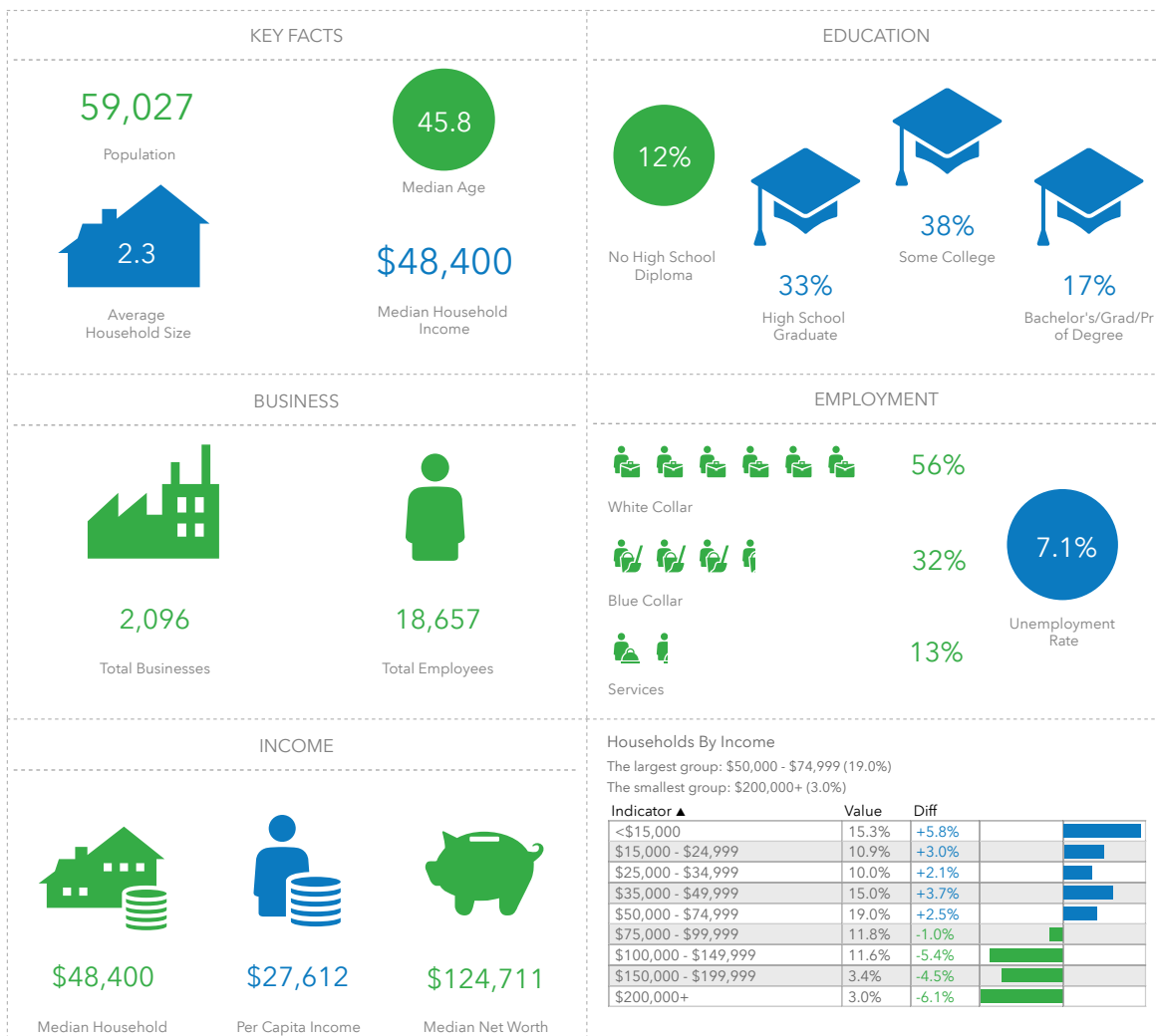
For the purpose of this CHNA, Ferrell Hospital has defined its primary service area and populations as the general population within the geographic area in and surrounding Eldorado, defined in detail below. A total of 59,244 people live in the 2,178.54 square mile service area defined for this assessment according to the U.S. Census Bureau American Community Survey 2016-2020 5-year estimates. The population density for this area, estimated at 27.19 persons per square mile, is less than the national average population density of 91.93 persons per square mile. The service area consists of the following rural counties:

**Saline
Hamilton**

**Gallatin
Hardin**

**Pope
White**

Ferrell Hospital Service Area – Key Facts



The data on the following pages will take a deep dive into the demographics of Ferrell Hospital's service area and will offer insight to both the commonality and complexity of the Ferrell Hospital audience. The infographic above highlights some of the key facts of that data and provides a snapshot of the population served by Ferrell Hospital.

The average household size of the area, at 2.3, is lower than both Illinois (3.00) and the U.S. (2.50). Median age is 45 years, which is higher than Illinois and the U.S. The largest education segment is high school graduate, followed closely by some college.

The unemployment rate of 7.1%% is higher than statewide and the U.S. Also, as is the case in much of rural Illinois, median family household income in the service area is lower than statewide.

LOCAL IMPACT OF COVID as of 2/23/22

COVID-19 Confirmed Cases and Mortalities

The COVID-19 epidemic has overshadowed many local health functions since March 2020. It has dramatically impacted overall health of the communities and the delivery of healthcare and health-related services. The broad impact has been seen throughout the communities, changing the way people work, shop, learn, and communicate. This indicator reports incidence rate of confirmed COVID cases per 100,000 population. Data for this indicator are updated daily and derived from the Johns Hopkins University data feed. In the service area, there have been 17,593 total confirmed cases of COVID. Data are current as of 2/23/2022.

Report Area	Total Population	Total Confirmed Cases
Ferrell Hospital Service Area 2021	58,914	17,593
Gallatin County, IL	5,058	1,381
Hamilton County, IL	8,163	2,153
Hardin County, IL	3,910	1,040
Pope County, IL	4,212	941
Saline County, IL	23,906	7,715
White County, IL	13,665	4,363
Illinois	12,741,080	3,019,822
United States	326,262,499	77,174,210

Confirmed COVID-19 Cases

*Note: This indicator is compared to the state average.
Data Source: Johns Hopkins University. Accessed via ESRI.
Additional data analysis by CARES. 2021. Source geography: County*

In the service area, there have been 204 total deaths among patients with confirmed cases of the coronavirus disease COVID-19. Data are current as of 2/23/2022.

Report Area	Total Population	Total Deaths
Ferrell Hospital Service Area 2021	58,914	204
Gallatin County, IL	5,058	15
Hamilton County, IL	8,163	29
Hardin County, IL	3,910	19
Pope County, IL	4,212	7
Saline County, IL	23,906	89
White County, IL	13,665	45
Illinois	12,741,080	32,431
United States	326,262,499	920,432

COVID-19 Mortalities

*Note: This indicator is compared to the state average.
 Data Source: Johns Hopkins University. Accessed via ESRI.
 Additional data analysis by CARES. 2021. Source geography: County*





ESTABLISHING THE CHNA INFRASTRUCTURE AND PARTNERSHIPS

Data Collection

SECONDARY DATA

Description of Data Sources – Quantitative

Quantitative (secondary) data is collected from many resources including, but not restricted to, the following:

Source	Description
Behavioral Risk Factor Surveillance System	The BRFSS is the largest, continuously conducted telephone health survey in the world. It enables the Center for Disease Control and Prevention (CDC), state health departments, and other health agencies to monitor modifiable risk factors for chronic diseases and other leading causes of death.
SparkMap	SparkMap is an online mapping and reporting platform powered by the Center for Applied Research and Engagement Systems (CARES) at the University of Missouri.
US Census	National census data is collected by the US Census Bureau every 10 years.
Centers for Disease Control	Through the CDC's National Vital Statistics System, states collect and disseminate vital statistics as part of the US's oldest and most successful intergovernmental public health data sharing system.

Source	Description
County Health Rankings	Each year, the overall health of each county in all 50 states is assessed and ranked using the latest publicly available data through a collaboration of the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute.
American Communities Survey	The American Community Survey (ACS), a product of the U.S. Census Bureau, helps local officials, community leaders, and businesses understand the changes taking place in their communities. It is the premier source for detailed population and housing information about our nation.
Illinois Department of Employment Security	The Illinois Department of Employment Security is the state's employment agency. It collects and analyzes employment information.
National Cancer Institute	The National Cancer Institute coordinates the National Cancer Program, which conducts and supports research, training, health information dissemination, and other programs with respect to the cause, diagnosis, prevention, and treatment of cancer, rehabilitation from cancer, and the continuing care of cancer patients, and the families of cancer patients.
Illinois Department of Public Health	The Illinois Department of Public Health is the state agency responsible for preventing and controlling disease and injury, regulating medical practitioners, and promoting sanitation.
HRSA	The Health Resources and Services Administration of the US Department of Health and Human Services develops health professional shortage criteria for the nation and uses that data to determine the location of Health Professional Shortage Areas and Medically Underserved Areas and Populations.
Local IPLANS	The Illinois Project for Local Assessment of Needs (IPLAN) is a community health assessment and planning process that is conducted every five years by local health jurisdictions in Illinois.
ESRI	ESRI (Environmental Systems Research Institute) is an international supplier of Geographic Information System (GIS) software, web GIS and geodatabase management applications. ESRI allows for specialized inquiries at the zip code, or other defined, level.
Illinois State Board of Education	The Illinois State Board of Education administers public education in the state of Illinois. Each year, it releases school "report cards" which analyze the makeup, needs, and performance of local schools.
USDA	USDA, among its many functions, collects and analyzes information related to nutrition and local production and food availability.

Secondary data is initially collected through the SparkMap and/or ESRI systems and then reviewed. Questions raised by the data reported from those sources are compared with other federal, state and local data sources in order to resolve or reconcile potential issues with reported data.

PRIMARY DATA

Three focus groups were convened at Ferrell Hospital on September 29, 2021. The groups included representation of healthcare providers, community leaders, community services providers, schools, faith-based organizations, local elected officials, public health, and others. Several members of this group provided services to underserved and unserved persons as all or part of their roles.

In response to a request to identify positive developments in health and healthcare in the service area of Ferrell Hospital, the groups put forward the following:

Focus Group One – Community Leaders

- Expansion of services at Ferrell Hospital has resulted in new services and new opportunities for new clinical opportunities for student and new nurses
- There is a new Southeastern Illinois Campus (SIC) in White County
- Ferrell Hospital expansion has improved the neighborhood surrounding the new facility
- Ferrell Hospital expansion has improved the economic and economic development position of the community
- Ferrell Hospital has partnered with Eldorado schools to provide medical services for sports
- The service area of Ferrell Hospital has increased and is providing services in previously underserved small rural communities and areas
- RIDES can accommodate transportation to Deaconess hospital in Evansville
- Temporary day care was developed in partnership among Ferrell Hospital, Eldorado School District, I-DCFS, St. Mary's Church, and interested citizens
- Ferrell Hospital's expansion brought insight from outsiders on the way the community looks and functions
- New oncology center
- "Chemo Buddies" program

Focus Group Two – Hospital Department Managers

- Expansion of Ferrell Hospital
- New oncology department
- Ferrell Hospital's response to COVID and expansion of infusion services
- Fresh produce is available in Gallatin County at a Dollar General
- New orthopedic program at Ferrell Hospital
- Outpatient behavioral health services are available in Saline County
- Expansion of telehealth services
- There is more community involvement in health issues and civic issues in general
- Ferrell Hospital's department leadership is solid
- Expanded access to vaccines for children
- Children's health needs program at Egyptian Health Department
- Ferrell Hospital has benefited from COVID relief funding
- There is strong community support for Ferrell Hospital
- Community enthusiasm to address local circumstances is high
- Increased opioid awareness, including increased Narcan availability, and MAT (medication assisted treatment) availability
- Ferrell Hospital is receiving a great deal of benefit from its relationship with Deaconess, including improved EMS services
- Ferrell Hospital is receiving increased benefit from utilization of ICAHN programs and services, especially the List-servs
- EPIC records system at Ferrell Hospital
- New entrepreneurial small businesses are opening
- New clinic in White County
- New clinic in Harrisburg
- New services at Ferrell Hospital including ENT, audiology, and wound services
- Improved leadership from the medical staff at Ferrell Hospital

Focus Group Three – Medical Providers

- New family medicine clinic in Carmi
- The average age of the medical staff at Ferrell Hospital has dropped from near 60 to near 40
- New specialty service lines at Ferrell Hospital, including the wound clinic, ENT, and orthopedics
- New clinic in Harrisburg
- Women's health
- Weekend hours at clinic
- New facility at Ferrell Hospital
- Communication among hospitals, skilled care facilities, and public health is very good

The groups were next asked to identify needs continuing to face the health of the community, including physical and mental wellness and the delivery of health services and care for all segments and members.

Focus Group One – Community Leaders

- Local access to dialysis
- Manpower for ambulances/EMS needs
- Better ambulance placement
- Resources for training opportunities for potential employees for roles across the communities
- Services for treatment and resources for persons facing substance use disorders, especially youth and youth with co-occurring conditions
- Mobile services to underserved communities
- Home medical services for seniors, especially in outlying communities, rural areas
- Understand potential long-term impact of Covid to specific communities
- Need to continue the momentum for strong community partnerships, planning and action to identify and address emerging issues

Focus Group Two – Hospital Department Managers

- Improved transportation to and from local medical services
- Local access to obstetrics services
- Community education around Medicaid and Medicare
- Local access to neurology services
- Address patient apathy about their own healthcare and needs
- Expand access to professional counseling services for behavioral health and substance use issues
- More aggressive local economic development
- Expanded local education opportunities for healthcare employment positions, including technical certificate programs
- Access to day care
- Address dwindling healthcare workforce
- Staff for in-patient transport – ER to ER and ER to inpatient
- Emergency dental services, especially for underserved and unserved patients
- Preventative dental care, especially for underserved and unserved patients
- Local access to inpatient psychiatric and substance rehabilitation/recovery
- Emergent care in White County
- Adequate, reliable broad band to support telehealth services
- Resources for homeless persons to provide for shelter and basic needs
- Access to localized and specialized data.
- Expand access to in-home health care
- Local access to endocrinology
- Family wellness center providing opportunities for recreation, exercise, and wellness education
- Community education on health literacy
- Teen wellness opportunities and programs

Focus Group Three – Medical Providers

- Psychiatric care for youth
- Improve transportation to and from appointments
- Ambulances and staff for transports
- Local obstetric care
- Explore causes for high local cancer rates
- Access to affordable healthy foods
- There is no urgent care or emergency care in in Gallatin, Pope, or White counties
- Explore a wellness/community health center
- Comprehensive services for persons with substance use disorders
- Address lack of healthy food choices for home and at restaurants
- Nutrition education
- Explore impact of local gambling
- Increase access to counselors and social workers
- Increase opportunities for wellness and wellness education for youth
- Opportunities for socialization for seniors
- Explore solutions for local unemployment and poverty
- Continue conversations about community health

In addition, a public survey of the community was conducted through the Ferrell Hospital website. Twenty-four persons responded to the survey addressing health and wellness issues. *The entire survey is attached as Attachment B.*



Age Group



Ethnicity



Race



Disability

DATA ANALYSIS

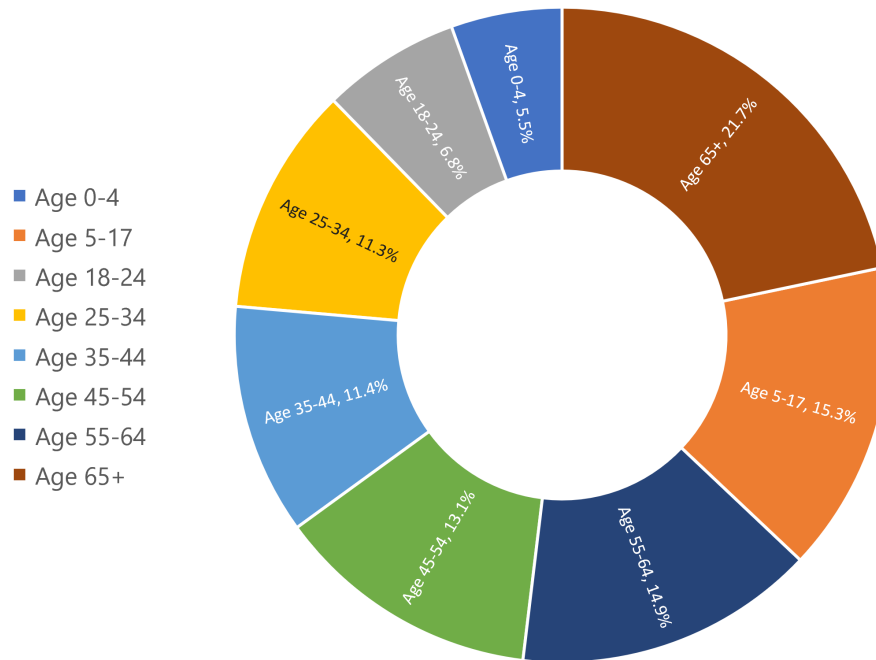
DEMOGRAPHICS

Total Population by Age Group

Report Area	Age 0-4	Age 5-17	Age 18-24	Age 25-34	Age 35-44	Age 45-54	Age 55-64	Age 65+
Ferrell Hospital Service Area 2021	3,249	9,093	4,039	6,695	6,750	7,758	8,806	12,854
Gallatin County, IL	255	783	322	534	617	643	719	1,191
Hamilton County, IL	447	1,365	574	861	947	1,016	1,207	1,759
Hardin County, IL	115	561	272	365	547	563	540	976
Pope County, IL	154	472	245	314	429	598	841	1,150
Saline County, IL	1,498	3,698	1,685	3,028	2,681	3,188	3,431	4,785
White County, IL	780	2,214	941	1,593	1,529	1,750	2,068	2,993

Data Source: US Census Bureau, American Community Survey, 2015-19. Source Geography: Tract

Total Population by Age Groups, Ferrell Hospital Service Area



Total Population by Ethnicity

Report Area	Total Population	Hispanic or Latino Population	Hispanic or Latino Population, Percent	Non-Hispanic Population	Non-Hispanic Population, Percent
Ferrell Hospital Service Area 2021	59,244	910	1.54%	58,334	98.46%
Gallatin County, IL	5,064	66	1.30%	4,998	98.70%
Hamilton County, IL	8,176	61	0.75%	8,115	99.25%
Hardin County, IL	3,939	37	0.94%	3,902	99.06%
Pope County, IL	4,203	116	2.76%	4,087	97.24%
Saline County, IL	23,994	428	1.78%	23,566	98.22%
White County, IL	13,868	202	1.46%	13,666	98.54%
Illinois	12,770,631	2,186,387	17.12%	10,584,244	82.88%
United States	324,697,795	58,479,370	18.01%	266,218,425	81.99%

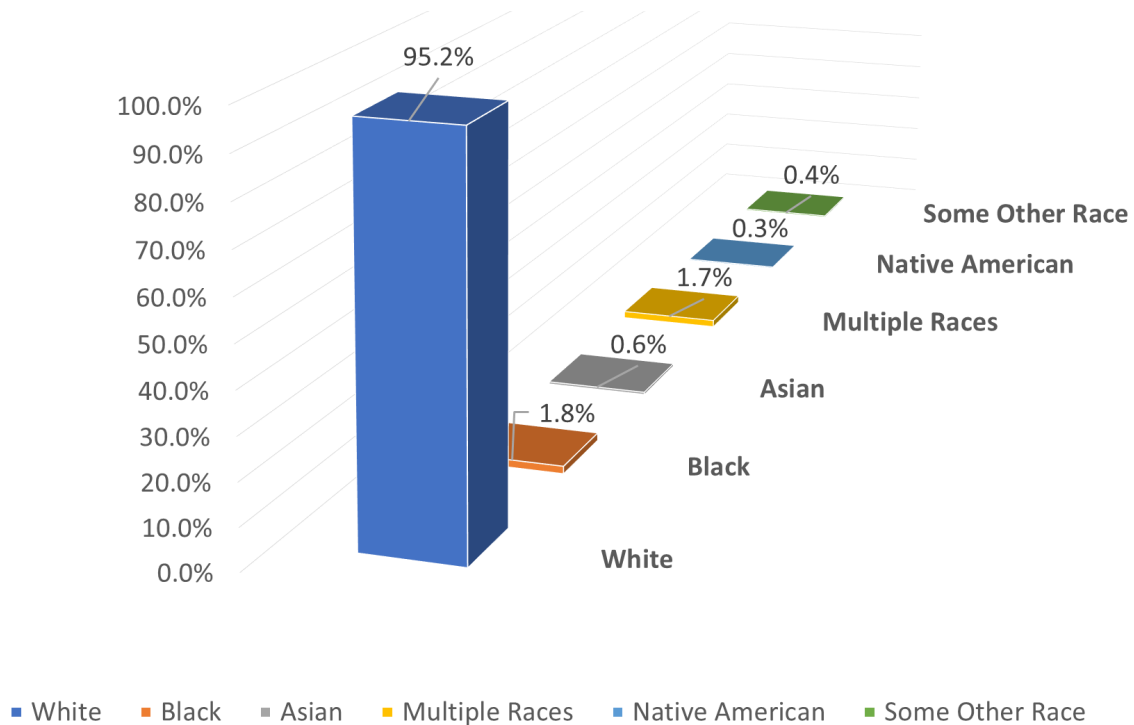
Data Source: US Census Bureau, American Community Survey, 2016-20. Source geography: Tract

Total Population by Race Alone

Report Area	White	Black	Asian	Native American / Alaska Native	Native Hawaiian / Pacific Islander	Some Other Race	Multiple Races
Ferrell Hospital Service Area 2021	56,420	1,072	330	114	65	217	1,026
Gallatin County, IL	4,888	26	6	26	0	14	104
Hamilton County, IL	8,114	33	12	0	0	17	0
Hardin County, IL	3,764	107	4	7	0	0	57
Pope County, IL	3,893	177	24	0	0	46	63
Saline County, IL	22,234	632	178	53	54	122	721
White County, IL	13,527	97	106	28	11	18	81
Illinois	9,134,903	1,813,590	698,524	33,460	4,477	757,231	328,446
United States	235,377,662	41,234,642	17,924,209	2,750,143	599,868	16,047,369	10,763,902

Data Source: US Census Bureau, American Community Survey, 2016-20. Source geography: Tract

Total Population by Race Alone, Ferrell Hospital Service Area



Total Population Change, 2010-2020

According to the United States Census Bureau Decennial Census, between 2010 and 2020, the population in the report area fell by -4,418 persons, a change of -7.08%. A significant positive or negative shift in total population over time impacts healthcare providers and the utilization of community resources.

Report Area	Total Population, 2010 Census	Total Population, 2020 Census	Population Change, 2010-2020	Population Change, 2010-2020, Percent
Ferrell Hospital Service Area 2021	62,414	57,996	-4,418	-7.08%
Gallatin County, IL	5,589	4,946	-643	-11.50%
Hamilton County, IL	8,457	7,993	-464	-5.49%
Hardin County, IL	4,320	3,649	-671	-15.53%
Pope County, IL	4,470	3,763	-707	-15.82%
Saline County, IL	24,913	23,768	-1,145	-4.60%
White County, IL	14,665	13,877	-788	-5.37%
Illinois	12,830,633	12,812,508	-18,125	-0.14%
United States	312,471,161	334,735,155	22,263,994	7.13%

Population with any Disability

This indicator reports the percentage of the total civilian non-institutionalized population with a disability. The report area has a total population of 58,121 for whom disability status has been determined, of which 12,790 or 22.01% have any disability. This indicator is relevant because disabled individuals comprise a vulnerable population that requires targeted services and outreach by providers.

Report Area	Total Population (For Whom Disability Status Is Determined)	Population with a Disability	Population with a Disability, Percent
Ferrell Hospital Service Area 2021	58,121	12,790	22.01%
Gallatin County, IL	5,064	1,164	22.99%
Hamilton County, IL	8,100	1,725	21.30%
Hardin County, IL	3,841	958	24.94%
Pope County, IL	4,049	1,055	26.06%
Saline County, IL	23,540	5,240	22.26%
White County, IL	13,527	2,648	19.58%
Illinois	12,591,483	1,388,097	11.02%
United States	319,706,872	40,335,099	12.62%

SOCIAL DETERMINANTS OF HEALTH

The data and discussion on the following pages will take a look into the social determinants in the Ferrell Hospital service area and will offer insight into the complexity of circumstances that impact physical and mental wellness for the Ferrell Hospital audience. The infographic on Page 33 provides a snapshot of the at-risk population served by Ferrell Hospital.

The CDC describes social determinants of health as conditions in the places where people live, learn, work, and play that affect a wide range of health and quality of life risks and outcomes. Healthy People 2030 uses a place-based framework that outlines five key areas of SDoH:

- Healthcare access and quality, including:
 - Access to healthcare
 - Access to primary care
 - Health insurance coverage
 - Health literacy
- Education access and quality, including:
 - High school graduation
 - Enrollment in higher education
 - Educational attainment in general
 - Language and literacy
 - Early childhood education and development
- Social and community context – within which people live, learn work and play, including:
 - Civic participation
 - Civic cohesiveness
 - Discrimination
 - Conditions within the workplace
- Economic stability, including:
 - Income
 - Cost of living
 - Socioeconomic status
 - Poverty

- Employment
- Food security
- Housing stability
- Neighborhood and built environment, including:
 - Quality of housing
 - Access to transportation
 - Availability of healthy food
 - Air and water quality
 - Crime and violence

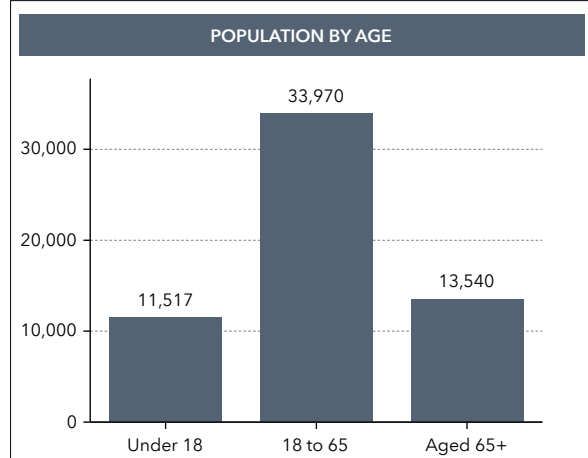
Some of the social determinant indicators reflected in the data include:

- 9,881 households with disability
- 4,038 households below the poverty level (18%)
- Median household income is \$48,400, which is lower than both Illinois and the U.S.

Economic and social insecurity often are associated with poor health. Poverty, unemployment, and lack of educational achievement affect access to care and a community's ability to engage in healthy behaviors. Without a network of support and a safe community, families cannot thrive. Ensuring access to social and economic resources provides a foundation for a healthy community.

Ferrell Hospital Service Area

AT RISK POPULATION PROFILE Geography: County



59,027 Population	25,130 Households	2.28 Avg Size Household	45.8 Median Age	\$48,400 Median Household Income	\$96,258 Median Home Value	65 Wealth Index	250 Housing Affordability	14 Diversity Index
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AT RISK POPULATION				
 9,881 Households With Disability	 14,390 Population 65+	 1,838 Households Without Vehicle		

POVERTY AND LANGUAGE			
 18% Households Below the Poverty Level	 4,383 Households Below the Poverty Level	 20 Pop 65+ Speak Spanish & No English	

POPULATION AND BUSINESSES			
 57,087 Daytime Population	 2,096 Total Businesses	 18,657 Total Employees	

Language Spoken (ACS)	Age 5-17	18-64	Age 65+	Total
English Only	8,849	33,212	12,646	54,707
Spanish	110	355	80	545
Spanish & English Well	93	272	51	416
Spanish & English Not Well	17	47	9	73
Spanish & No English	0	36	20	56
Indo-European	83	336	100	519
Indo-European & English Well	79	250	77	406
Indo-European & English Not Well	0	50	23	73
Indo-European & No English	4	36	0	40
Asian-Pacific Island	51	117	14	182
Asian-Pacific Isl & English Well	51	114	14	179
Asian-Pacific Isl & English Not Well	0	3	0	3
Asian-Pacific Isl & No English	0	0	0	0
Other Language	0	28	14	42
Other Language & English Well	0	28	8	36
Other Language & English Not Well	0	0	6	6
Other Language & No English	0	0	0	0

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Economic Stability – Income and Economics

Economic and social insecurity often are associated with poor health. Poverty, unemployment, and lack of educational achievement affect access to care and a community's ability to engage in healthy behaviors. Without a network of support and a safe community, families cannot thrive. Ensuring access to social and economic resources provides a foundation for a healthy community.

Employment – Unemployment Rate

Total unemployment in the service area for the current month equals 970 or 4.1% of the civilian, non-institutionalized population age 16 and older (non-seasonally adjusted). This indicator is relevant because unemployment creates financial instability and barriers to access including insurance coverage, health services, healthy food, and other necessities that contribute to poor health status.

Report Area	Labor Force	Number Employed	Number Unemployed	Unemployment Rate
Ferrell Hospital Service Area 2021	23,808	22,838	970	4.1%
Gallatin County, IL	1,916	1,832	84	4.4%
Hamilton County, IL	4,187	4,062	125	3.0%
Hardin County, IL	1,350	1,282	68	5.0%
Pope County, IL	1,590	1,530	60	3.8%
Saline County, IL	9,099	8,668	431	4.7%
White County, IL	5,666	5,464	202	3.6%
Illinois	6,320,577	6,046,500	274,077	4.3%
United States	162,825,074	156,786,647	6,038,427	3.7%

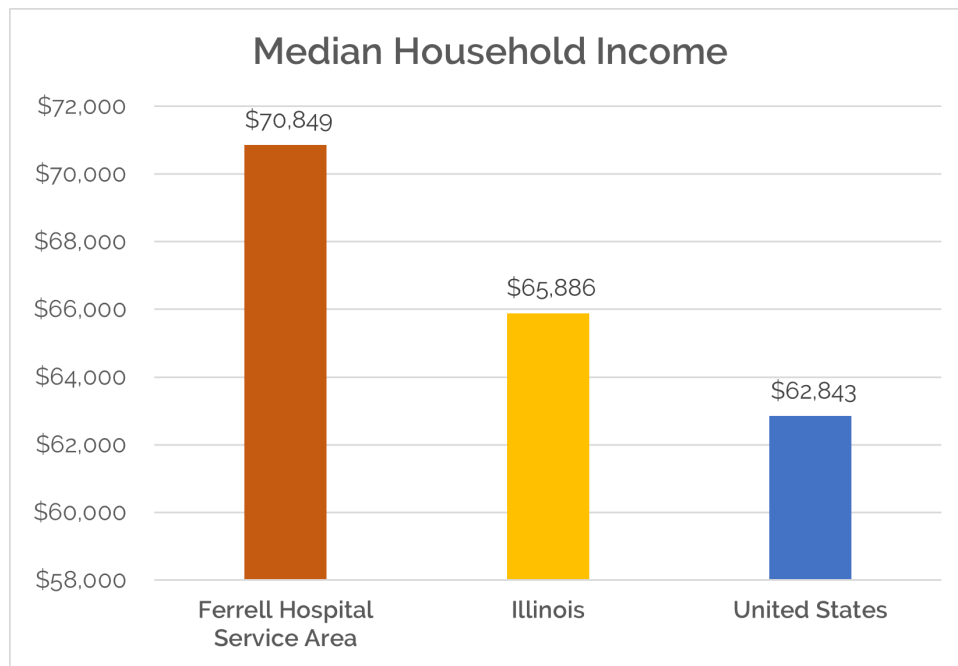
*Note: This indicator is compared to the state average.
Data Source: US Department of Labor, Bureau of Labor Statistics, 2021 - August. Source geography: County*

Income – Median Household Income

This indicator reports median household income based on the latest 5-year American Community Survey estimates. This includes the income of the householder and all other individuals 15 years old and over in the household, whether they are related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income.

Report Area	Total Households	Average Household Income	Median Household Income
Ferrell Hospital Service Area 2021	24,763	\$62,224	No data
Gallatin County, IL	2,293	\$71,467	\$44,076
Hamilton County, IL	3,400	\$65,965	\$54,046
Hardin County, IL	1,363	\$74,749	\$51,250
Pope County, IL	1,694	\$51,067	\$38,056
Saline County, IL	9,972	\$59,748	\$44,090
White County, IL	6,041	\$61,001	\$49,290
Illinois	4,846,134	\$92,395	\$65,886
United States	120,756,048	\$88,607	\$62,843

*Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract*

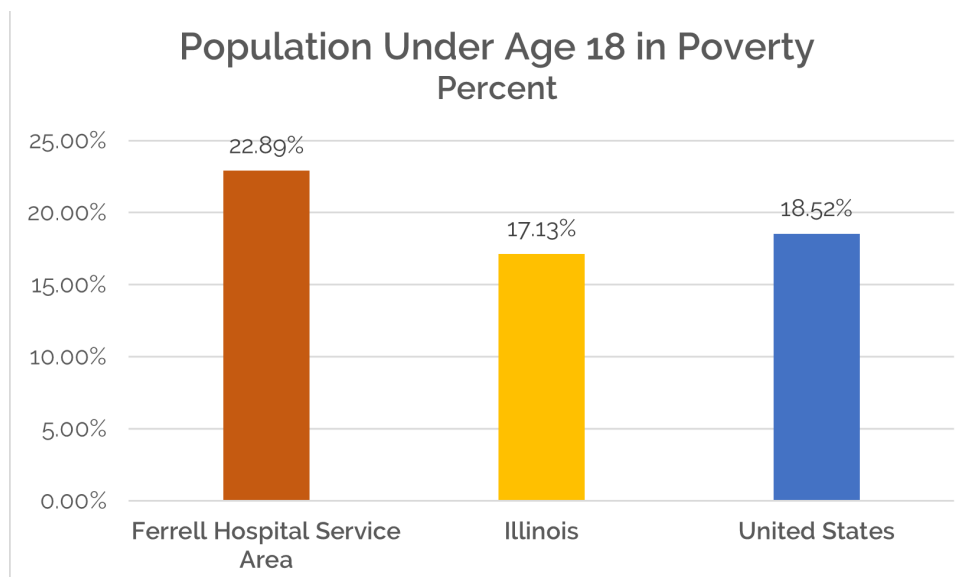


Poverty – Children Below 100% FPL

In the service area, 22.89% or 2,765 children aged 0-17 are living in households with income below the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.

Report Area	Total Population	Population Under Age 18	Population Under Age 18 in Poverty	Percent Population Under Age 18 in Poverty
Ferrell Hospital Service Area 2021	57,916	12,078	2,765	22.89%
Gallatin County, IL	5,036	1,010	320	31.68%
Hamilton County, IL	8,073	1,771	150	8.47%
Hardin County, IL	3,834	666	130	19.52%
Pope County, IL	4,043	620	108	17.42%
Saline County, IL	23,435	5,074	1,483	29.23%
White County, IL	13,495	2,937	574	19.54%
Illinois	12,474,842	2,852,051	488,516	17.13%
United States	316,715,051	72,235,700	13,377,778	18.52%

*Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract*



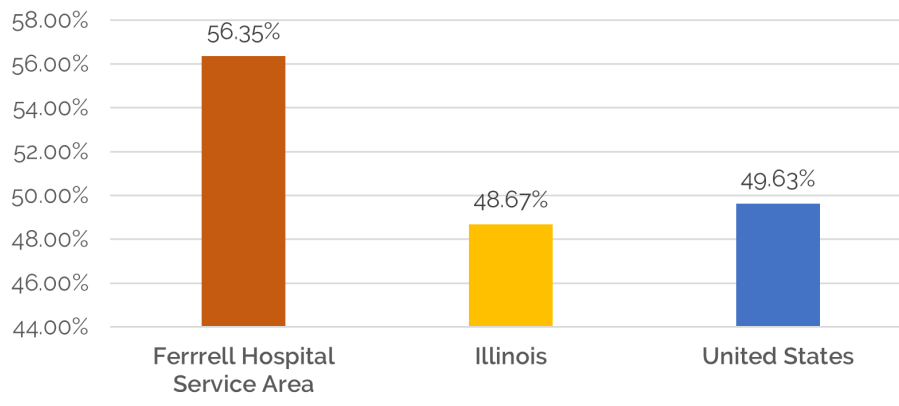
Poverty – Children Eligible for Free/Reduced Price Lunch

Free or reduced price lunches are served to qualifying students in families with income between under 185 percent (reduced price) or under 130% (free lunch) of the U.S. federal poverty threshold as part of the federal National School Lunch Program (NSLP). Out of 9,358 total public school students in the service area, 5,273 were eligible for the free or reduced price lunch program in the latest report year. This represents 56.3% of public school students, which is higher than the state average of 48.7%.

Report Area	Total Students	Students Eligible for Free or Reduced Price Lunch	Students Eligible for Free or Reduced Price Lunch, Percent
Ferrell Hospital Service Area 2021	9,358	5,273	56.35%
Gallatin County, IL	707	398	56.29%
Hamilton County, IL	1,148	573	49.91%
Hardin County, IL	521	316	60.65%
Pope County, IL	502	290	57.77%
Saline County, IL	3,985	2,300	57.72%
White County, IL	2,495	1,396	55.95%
Illinois	1,942,839	945,552	48.67%
United States	50,829,148	25,226,683	49.63%

*Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey. 2015-19. Source geography: County*

Students Eligible for Free or Reduced Price School Lunch Percent



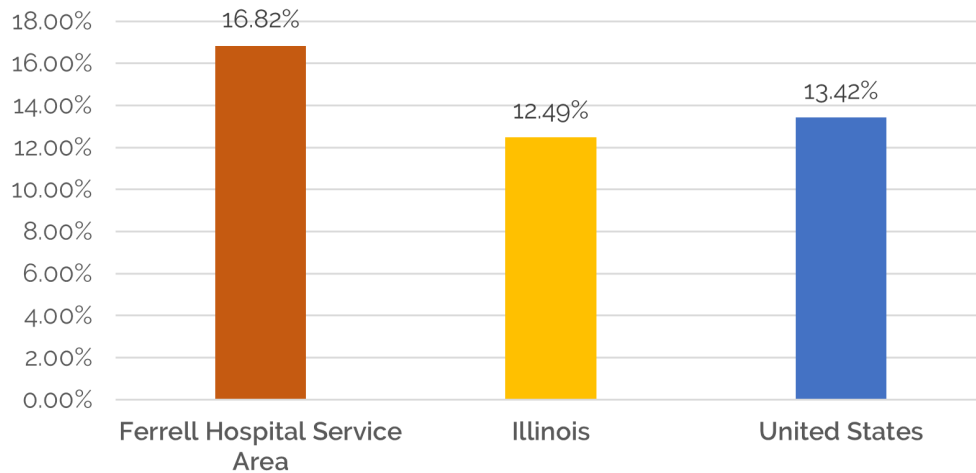
Poverty – Population Below 100% FPL

Poverty is considered a key driver of health status. Within the service area, 16.82% or 9,741 individuals are living in households with income below the Federal Poverty Level (FPL). This indicator is relevant because poverty creates barriers to access including health services, health food, and other necessities that contribute to poor health status.

Report Area	Total Population	Population in Poverty	Population in Poverty, Percent
Ferrell Hospital Service Area 2021	57,916	9,741	16.82%
Gallatin County, IL	5,036	1,050	20.85%
Hamilton County, IL	8,073	747	9.25%
Hardin County, IL	3,834	501	13.07%
Pope County, IL	4,043	620	15.34%
Saline County, IL	23,435	4,936	21.06%
White County, IL	13,495	1,887	13.98%
Illinois	12,474,842	1,557,873	12.49%
United States	316,715,051	42,510,843	13.42%

*Note: This indicator is compared to the state average.
Data Source: US Census Bureau, American Community Survey, 2015-19. Source geography: Tract*

Population in Poverty Below 100% FPL Percent

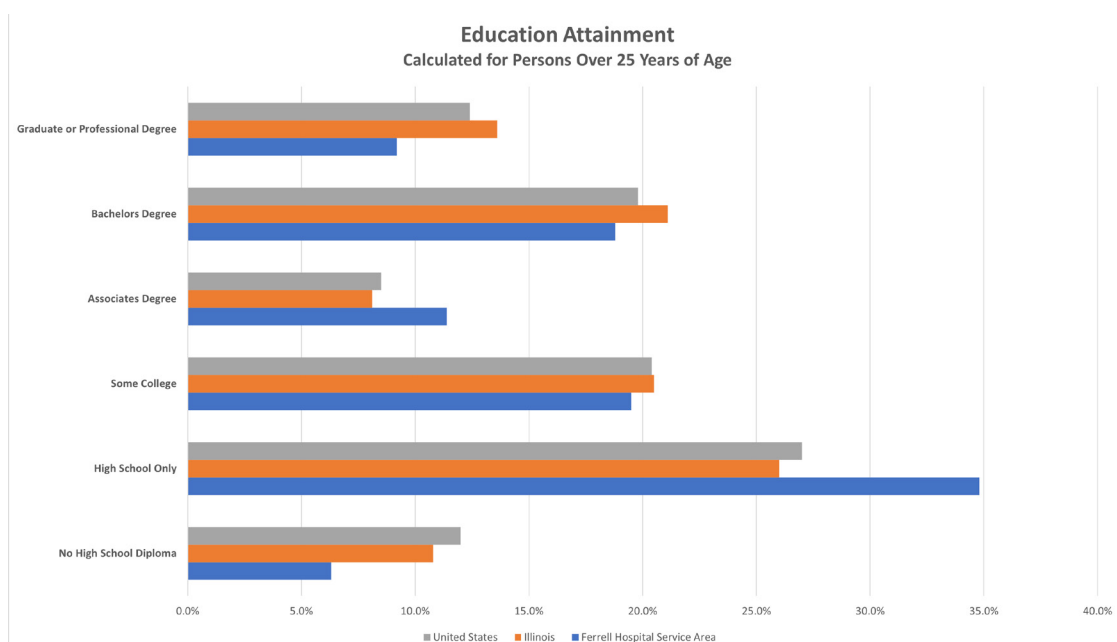


Education Attainment – Associate's Level Degree or Higher

This category contains indicators that describe the education system and the educational outcomes of the service area populations. Education metrics can be used to describe variation in population access, proficiency, and attainment throughout the education system, from access to pre-kindergarten through advanced degree attainment. These indicators are important because education is closely tied to health outcomes and economic opportunity. For the selected area, 28.73% of the population aged 25 and older, or 12,313 have obtained an Associate's level degree or higher. This indicator is relevant because educational attainment has been linked to positive health outcomes.

Report Area	Total Population Age 25+	Population Age 25+ with Associate's Degree or Higher	Percent Population Age 25+ with Associate's Degree or Higher
Ferrell Hospital Service Area 2021	42,863	12,313	28.73%
Gallatin County, IL	3,704	776	20.95%
Hamilton County, IL	5,790	1,593	27.51%
Hardin County, IL	2,991	716	23.94%
Pope County, IL	3,332	753	22.60%
Saline County, IL	17,113	5,614	32.81%
White County, IL	9,933	2,861	28.80%
Illinois	8,686,299	3,710,558	42.72%
United States	220,622,076	89,632,369	40.63%

*Note: This indicator is compared to the state average.
Data Source: U.S. Census Bureau, American Community Survey, 2015-19. Source geography: County*



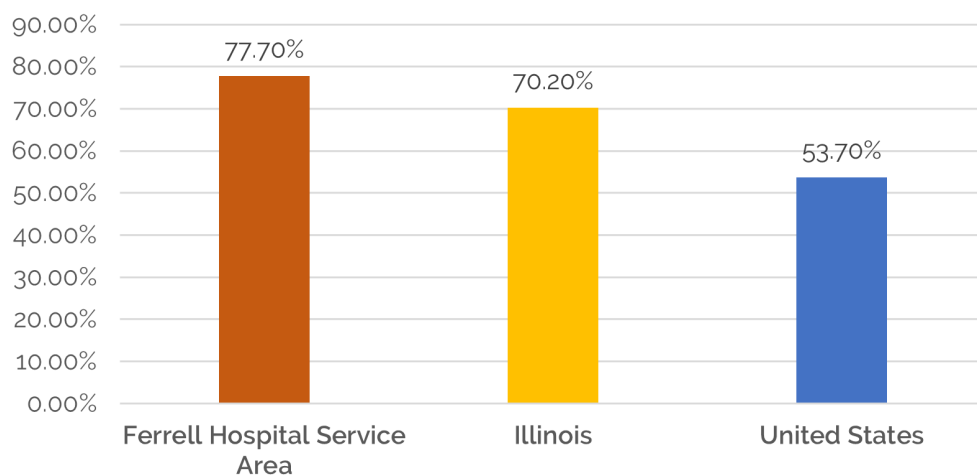
Proficiency – Student Math Proficiency (4th Grade)

Information about student performance in the 4th grade math portion of the state-specific standardized tests are displayed in the table below. Of 2,505 students tested, 22.3% of 4th graders performed at or above the “proficient” level, and 77.7% tested below the “proficient” level, according to the latest data. Students in the report area tested worse than the statewide rate of 29.8%.

Report Area	Students with Valid Test Scores	Students Scoring 'Proficient' or Better, Percent	Students Scoring 'Not Proficient' or Worse, Percent
Ferrell Hospital Service Area 2021	2,505	22.3%	77.7%
Gallatin County, IL	198	21.2%	78.8%
Hamilton County, IL	348	46.0%	54.0%
Hardin County, IL	164	14.0%	86.0%
Pope County, IL	132	26.5%	73.5%
Saline County, IL	1,015	10.8%	89.2%
White County, IL	648	29.2%	70.8%
Illinois	545,489	29.8%	70.2%
United States	13,473,054	46.3%	53.7%

Note: This indicator is compared to the state average. Data Source: U.S. Department of Education, EDFacts. Additional data analysis by CARES, 2018-19. Source geography: School District

Students Scoring 'Not Proficient' or Worse Percent



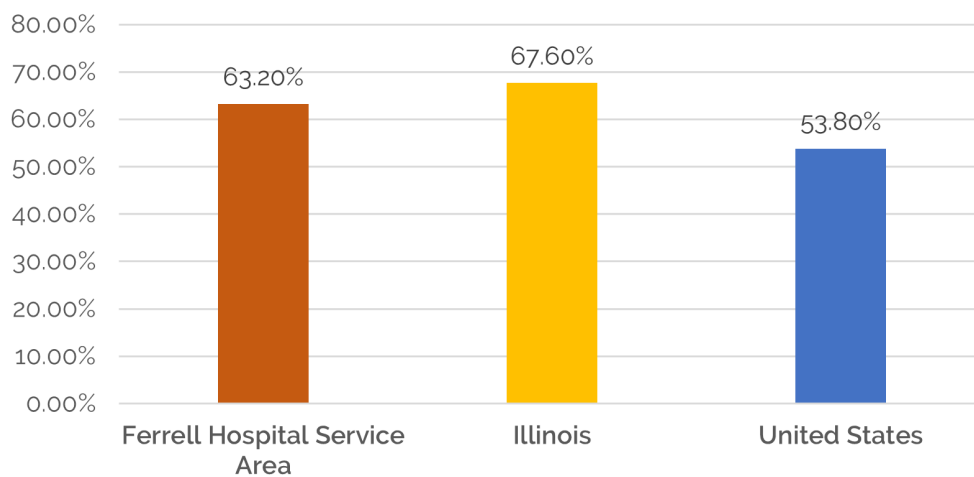
Proficiency – Student Reading Proficiency (4th Grade)

Information about student performance in the 4th grade English language arts portion of the state-specific standardized tests are displayed in the table below. Of 2,505 students tested, 36.8% of 4th graders performed at or above the “proficient” level, and 63.2% tested below the “proficient” level, according to the latest data. Students in the report area tested better than the statewide rate of 32.4%.

Report Area	Students with Valid Test Scores	Students Scoring 'Proficient' or Better, Percent	Students Scoring 'Not Proficient' or Worse, Percent
Ferrell Hospital Service Area 2021	2,505	36.8%	63.2%
Gallatin County, IL	198	49.0%	51.0%
Hamilton County, IL	348	46.6%	53.4%
Hardin County, IL	164	43.3%	56.7%
Pope County, IL	132	26.5%	73.5%
Saline County, IL	1,015	30.8%	69.2%
White County, IL	648	37.7%	62.3%
Illinois	546,182	32.4%	67.6%
United States	13,445,671	46.2%	53.8%

Note: This indicator is compared to the state average. Data Source: U.S. Department of Education, EDFacts. Additional data analysis by CARES, 2018-19. Source geography: School District

Students Scoring 'Not Proficient' or Worse Percent

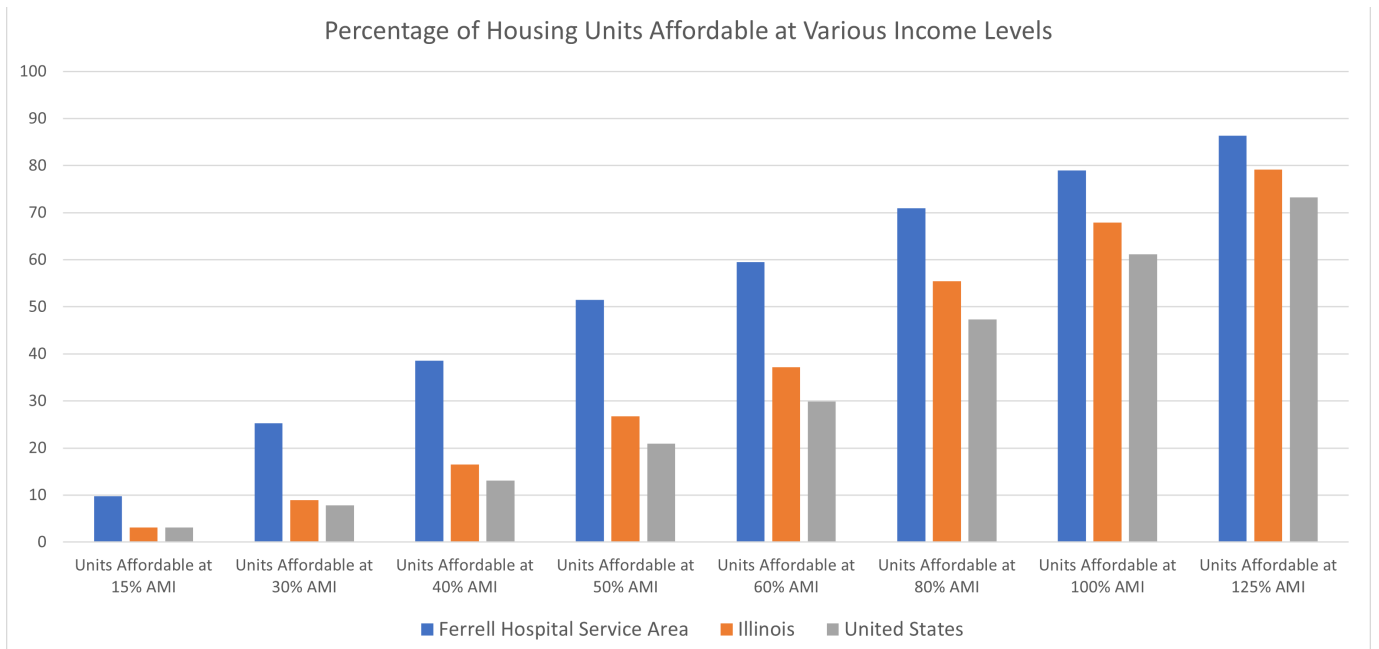


Housing and Families – Affordable Housing

This category contains indicators that describe the structure of housing and families, and the condition and quality of housing units and residential neighborhoods. These indicators are important because housing issues like overcrowding and affordability have been linked to multiple health outcomes, including infectious disease, injuries, and mental disorders. Furthermore, housing metrics like home ownership rates and housing prices are key for economic analysis.

Report Area	Units Affordable at 15% AMI	Units Affordable at 30% AMI	Units Affordable at 40% AMI	Units Affordable at 50% AMI	Units Affordable at 60% AMI	Units Affordable at 80% AMI	Units Affordable at 100% AMI	Units Affordable at 125% AMI
Ferrell Hospital Service Area 2021	9.80%	25.28%	38.56%	51.43%	59.54%	70.94%	78.97%	86.31%
Gallatin County, IL	10.16%	23.64%	40.47%	54.21%	63.58%	72.96%	80.20%	88.49%
Hamilton County, IL	10.35%	26.79%	36.97%	49.71%	57.35%	68.71%	78.85%	83.97%
Hardin County, IL	11.89%	32.43%	43.80%	57.67%	63.10%	71.97%	80.19%	86.13%
Pope County, IL	10.04%	19.66%	28.51%	34.77%	43.74%	56.38%	63.58%	72.67%
Saline County, IL	8.36%	23.71%	35.93%	48.95%	57.17%	70.76%	79.26%	87.73%
White County, IL	11.21%	27.61%	44.69%	58.70%	66.76%	75.60%	82.12%	88.31%
Illinois	3.08%	8.97%	16.50%	26.70%	37.21%	55.40%	67.93%	79.12%
United States	3.13%	7.86%	13.11%	20.91%	29.89%	47.34%	61.12%	73.24%

Note: This indicator is compared to the state average. Data Source: U.S. Census Bureau, American Community Survey, 2015-2019. Source geography: Tract

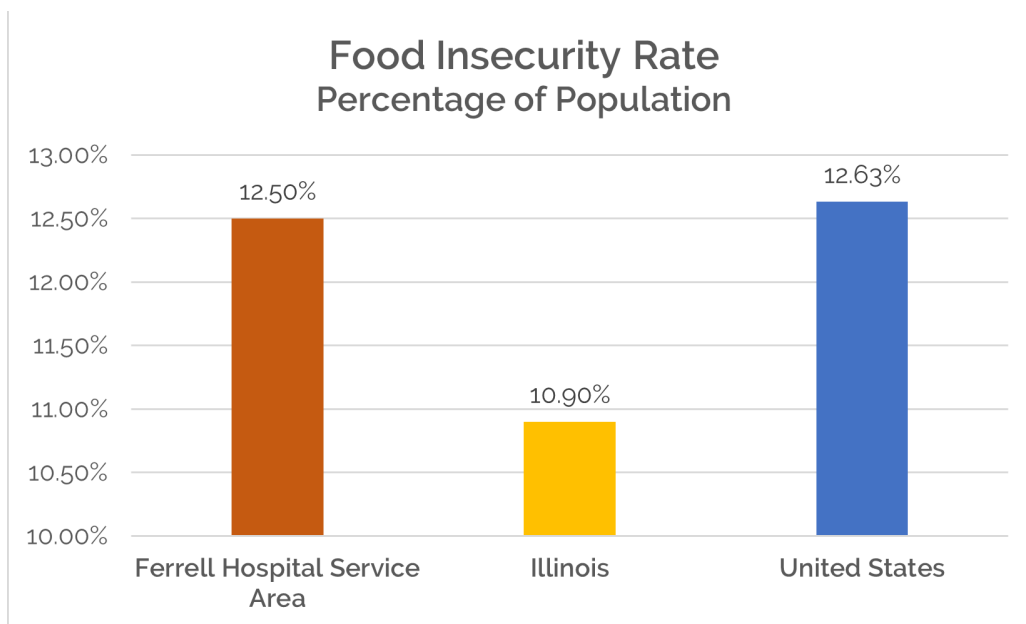


Other Social & Economic Factors – Food Insecurity Rate

Economic and social insecurity often are associated with poor health. Poverty, unemployment, and a lack of educational achievement affect access to care and a community's ability to engage in healthy behaviors. Without a network of support and a safe community, families cannot thrive. Ensuring access to social and economic resources provides a foundation for a healthy community. This indicator reports the estimated percentage of the population that experienced food insecurity at some point during the report year. Food insecurity is the household-level economic and social condition of limited or uncertain access to adequate food.

Report Area	Total Population	Food Insecure Population, Total	Food Insecurity Rate
Ferrell Hospital Service Area 2021	60,499	7,560	12.50%
Gallatin County, IL	5,246	640	12.20%
Hamilton County, IL	8,208	870	10.60%
Hardin County, IL	4,167	550	13.20%
Pope County, IL	4,375	490	11.20%
Saline County, IL	24,336	3,480	14.30%
White County, IL	14,167	1,530	10.80%
Illinois	12,807,064	1,395,970	10.90%
United States	325,717,422	41,133,950	12.63%

*Note: This indicator is compared to the state average.
Data Source: Feeding America, 2017. Source geography: County*



Homeless Children & Youth

This indicator reports the number of homeless children and youth enrolled in the public school system during the school year 2019-2020. According to the data source definitions, homelessness is defined as lacking a fixed, regular, and adequate nighttime residence. Those who are homeless may be sharing the housing of other persons, living in motels, hotels, or camping grounds, in emergency transitional shelters, or may be unsheltered.

Data are aggregated to the report area level based on school district summaries where three or more homeless children are counted. In the service area, of all the 9,041 students enrolled during the school year 2019-2020, there were 683 or 7.6% homeless students, which is higher than the statewide rate of 2.6%. *Note: Data are available for 100.0% of school districts in the service area, representing 100.0% of the public school student population.*

Report Area	Total Students	Districts Reporting	Students in Reported Districts	Homeless Students	Homeless Students, Percent
Ferrell Hospital Service Area 2021	9,041	100.0%	100.0%	683	7.6%
Gallatin County, IL	774	100.0%	100.0%	53	6.8%
Hamilton County, IL	1,212	100.0%	100.0%	82	6.8%
Hardin County, IL	521	100.0%	100.0%	75	14.4%
Pope County, IL	502	100.0%	100.0%	21	4.2%
Saline County, IL	3,854	100.0%	100.0%	258	6.7%
White County, IL	2,178	100.0%	100.0%	194	8.9%
Illinois	1,855,033	88.9%	97.5%	48,332	2.6%
United States	47,386,316	86.9%	97.5%	1,311,089	2.8%

Note: This indicator is compared to the state average. Data Source: U.S. Department of Education, ED Facts. Additional data analysis by CARES, 2019-2020. Source geography: School District

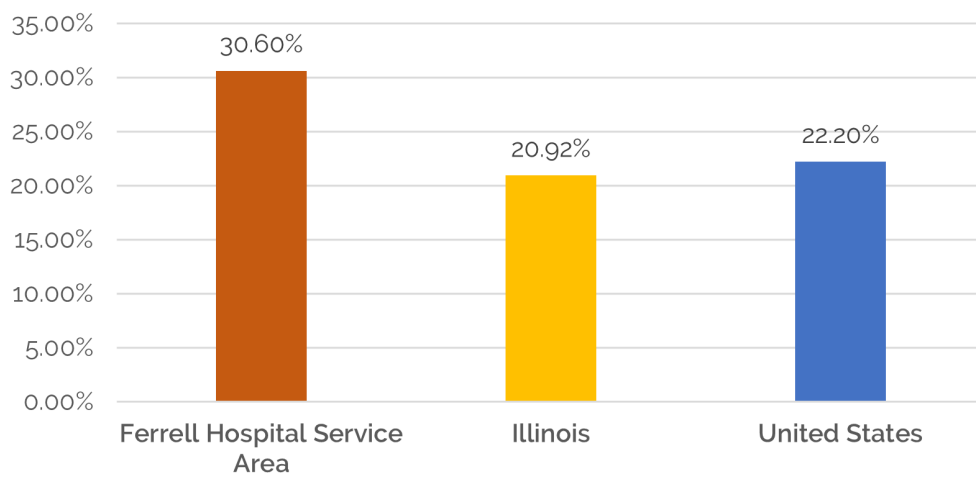
Insurance – Population Receiving Medicaid

This indicator reports the percentage of the population with insurance enrolled in Medicaid (or other means-tested public health insurance). This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs. When combined with poverty data, providers can use this measure to identify gaps in eligibility and enrollment.

Report Area	Total Population (For Whom Insurance Status is Determined)	Population with Any Health Insurance	Population Receiving Medicaid	Percent of Insured Population Receiving Medicaid
Ferrell Hospital Service Area 2021	58,121	55,417	16,955	30.60%
Gallatin County, IL	5,064	4,914	1,686	34.31%
Hamilton County, IL	8,100	7,663	1,646	21.48%
Hardin County, IL	3,841	3,529	959	27.17%
Pope County, IL	4,049	3,889	949	24.40%
Saline County, IL	23,540	22,547	8,217	36.44%
White County, IL	13,527	12,875	3,498	27.17%
Illinois	12,591,483	11,731,871	2,454,732	20.92%
United States	319,706,872	291,458,259	64,716,091	22.20%

Note: This indicator is compared to the state average. Data Source: U.S. Census Bureau, American Community Survey, 2015-2019. Source geography: Tract

Population Receiving Medicaid Insurance Percentage of Population



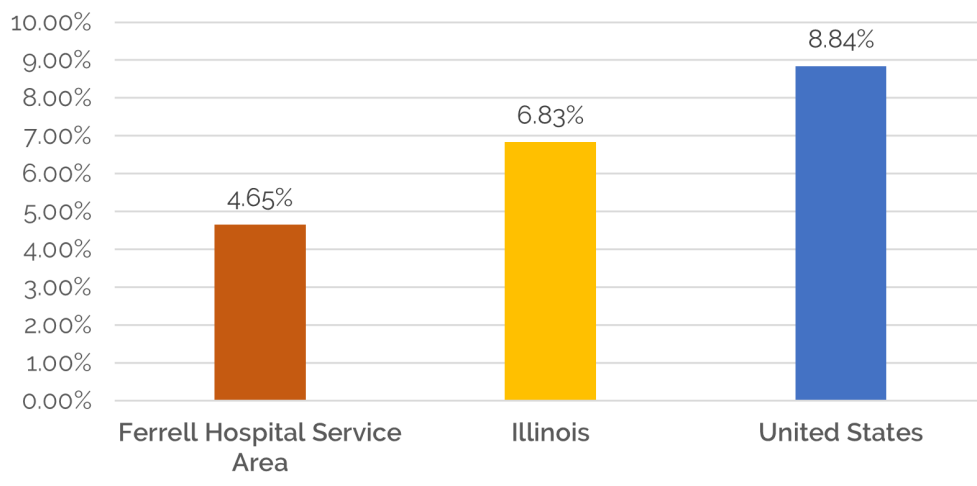
Insurance – Uninsured Population (ACS)

The lack of health insurance is considered a key driver of health status. In the service area, 4.65% of the total civilian, non-institutionalized population are without health insurance coverage. The rate of uninsured persons in the service area is less than the state average of 6.83%. This indicator is relevant because lack of insurance is a primary barrier to healthcare access, including regular primary care, specialty care, and other health services that contributes to poor health status.

Report Area	Total Population (For Whom Insurance Status is Determined)	Uninsured Population	Uninsured Population, Percent
Ferrell Hospital Service Area 2021	58,121	2,704	4.65%
Gallatin County, IL	5,064	150	2.96%
Hamilton County, IL	8,100	437	5.40%
Hardin County, IL	3,841	312	8.12%
Pope County, IL	4,049	160	3.95%
Saline County, IL	23,540	993	4.22%
White County, IL	13,527	652	4.82%
Illinois	12,591,483	859,612	6.83%
United States	319,706,872	28,248,613	8.84%

Note: This indicator is compared to the state average. Data Source: U.S. Census Bureau, American Community Survey, 2015-2019. Source geography: Tract

Uninsured Population Percentage of Population



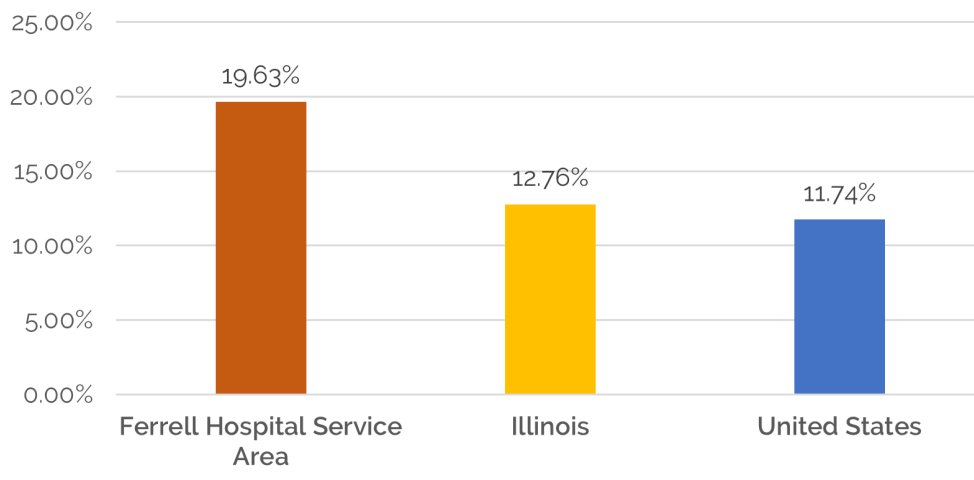
SNAP Benefits – Households Receiving SNAP (ACS)

In the service area, an estimated 4,860 or 19.63% households receive Supplemental Nutrition Assistance Program (SNAP) benefits. The value for the service area is greater than the national average of 11.74%. This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs. When combined with poverty data, providers can use this measure to identify gaps in eligibility and enrollment.

Report Area	Total Households	Households Receiving SNAP Benefits	Percent Households Receiving SNAP Benefits
Ferrell Hospital Service Area 2021	24,763	4,860	19.63%
Gallatin County, IL	2,293	571	24.90%
Hamilton County, IL	3,400	347	10.21%
Hardin County, IL	1,363	197	14.45%
Pope County, IL	1,694	226	13.34%
Saline County, IL	9,972	2,567	25.74%
White County, IL	6,041	952	15.76%
Illinois	4,846,134	618,365	12.76%
United States	120,756,048	14,171,567	11.74%

Note: This indicator is compared to the state average. Data Source: U.S. Census Bureau, American Community Survey, 2015-2019. Source geography: Tract

Percentage of Households Receiving SNAP Benefits



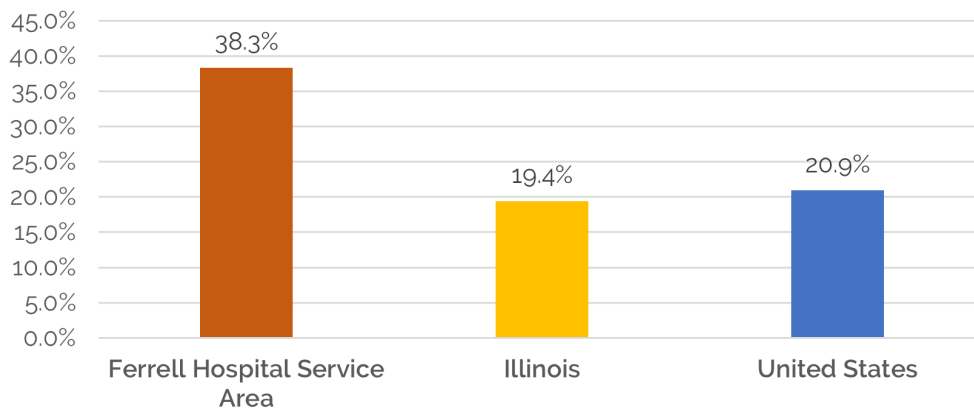
Teen Births

This indicator reports the seven-year average number of births per 1,000 female population age 15-19. Data were from the National Center for Health Statistics - Natality Files (2013-2019) and are used for the 2021 County Health Rankings. In the service area, of the 10,951 total female population age 15-19, the teen birth rate is 38.3 per 1,000, which is greater than the state's teen birth rate of 19.4. *Note: Data are suppressed for counties with fewer than 10 teen births in the timeframe.*

Report Area	Female Population Age 15-19	Teen Births, Rate per 1,000 Female Population Age 15-19
Ferrell Hospital Service Area 2021	10,951	38.3
Gallatin County, IL	949	34.8
Hamilton County, IL	1,618	26.6
Hardin County, IL	777	23.2
Pope County, IL	767	30.0
Saline County, IL	4,312	44.8
White County, IL	2,528	43.1
Illinois	5,783,508	19.4
United States	144,319,360	20.9

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, National Vital Statistics System. Accessed via County Health Rankings, 2013-2019. Source geography: County

Teen Births Rate per 1,000 Female Population Ages 15-19



Physical Environment

A community's health also is affected by the physical environment. A safe, clean environment that provides access to healthy food and recreational opportunities is important to maintaining and improving community health.

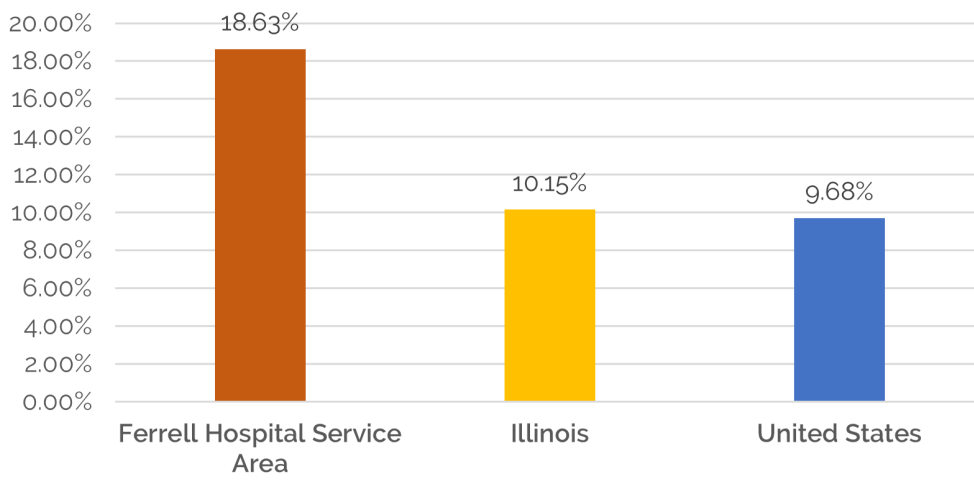
Built Environment – Households With No Computer

This indicator reports the percentage of households who don't own or use any types of computers, including desktop or laptop, smartphone, tablet,

Report Area	Total Households	Households with No Computer	Households with No Computer, Percent
Ferrell Hospital Service Area 2021	24,763	4,614	18.63%
Gallatin County, IL	2,293	506	22.07%
Hamilton County, IL	3,400	606	17.82%
Hardin County, IL	1,363	240	17.61%
Pope County, IL	1,694	527	31.11%
Saline County, IL	9,972	1,756	17.61%
White County, IL	6,041	979	16.21%
Illinois	4,846,134	491,717	10.15%
United States	120,756,048	11,695,058	9.68%

Note: This indicator is compared to the state average. Data Source: U.S. Census Bureau, American Community Survey, 2015-2019. Source geography: Tract

Households With No Computer Percent



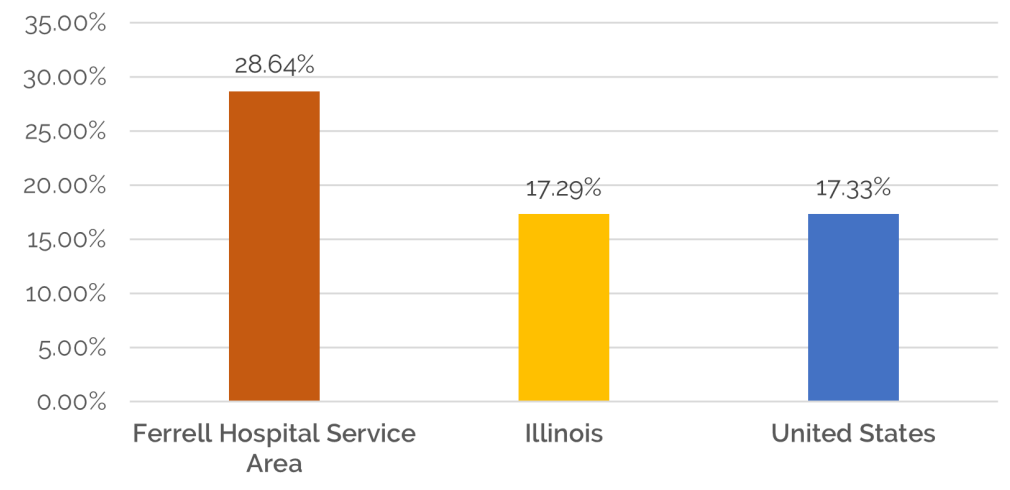
Built Environment – Households with No or Slow Internet

This indicator reports the percentage of households who either use dial-up as their only way of internet connection, or have internet access but do not pay for the service, or have no internet access in their home, based on the 2014-2019 American Community Survey estimates. Of the 24,763 total households in the service area, 7,093 or 28.64% have no or slow internet.

Report Area	Total Households	Households with No or Slow Internet	Households with No or Slow Internet, Percent
Ferrell Hospital Service Area 2021	24,763	7,093	28.64%
Gallatin County, IL	2,293	778	33.93%
Hamilton County, IL	3,400	912	26.82%
Hardin County, IL	1,363	373	27.37%
Pope County, IL	1,694	667	39.37%
Saline County, IL	9,972	2,831	28.39%
White County, IL	6,041	1,532	25.36%
Illinois	4,846,134	837,940	17.29%
United States	120,756,048	20,931,259	17.33%

Note: This indicator is compared to the state average. Data Source: U.S. Census Bureau, American Community Survey, 2015-2019. Source geography: Tract

Households With No or Slow Internet Percent



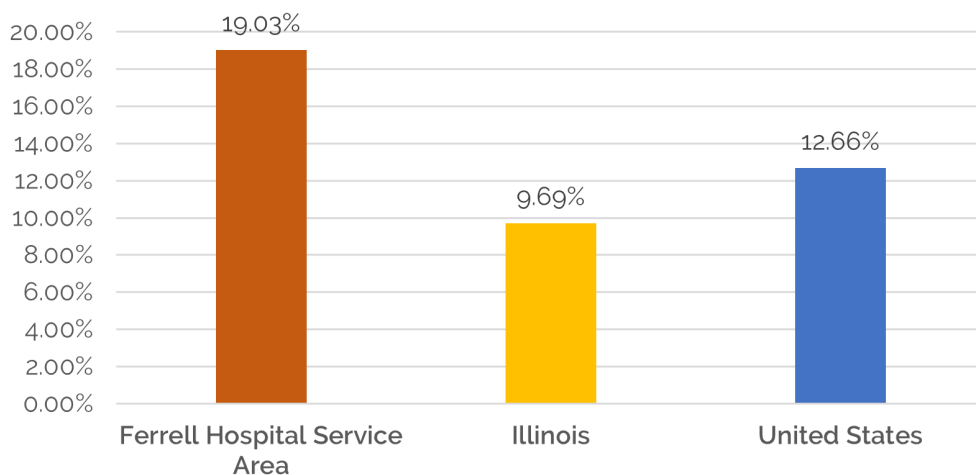
Food Environment – Food Desert Census Tracts

This indicator reports the number of neighborhoods in the service area that are within food deserts. The USDA Food Access Research Atlas defines a food desert as any neighborhood that lacks healthy food sources due to income level, distance to supermarkets, or vehicle access. The service area has a population of 11,879 living in food deserts, and a total of four census tracts classified as food deserts by the USDA.

Report Area	Total Population (2010)	Food Desert Census Tracts	Other Census Tracts	Food Desert Population	Other Population
Ferrell Hospital Service Area 2021	62,414	4	19	11,879	26,772
Gallatin County, IL	5,589	1	1	3,102	1
Hamilton County, IL	8,457	0	3	0	3,210
Hardin County, IL	4,320	0	2	0	2,331
Pope County, IL	4,470	0	2	0	2,046
Saline County, IL	24,913	3	6	8,777	11,037
White County, IL	14,665	0	5	0	8,147
Illinois	12,830,632	319	2,796	1,242,939	3,697,926
United States	308,745,538	9,293	63,238	39,074,974	81,328,997

Data Source: U.S. Department of Agriculture, Economic Research Service, USDA - Food Access Research Atlas, 2019. Source geography: Tract

Food Desert Population as a Percent of Total Population



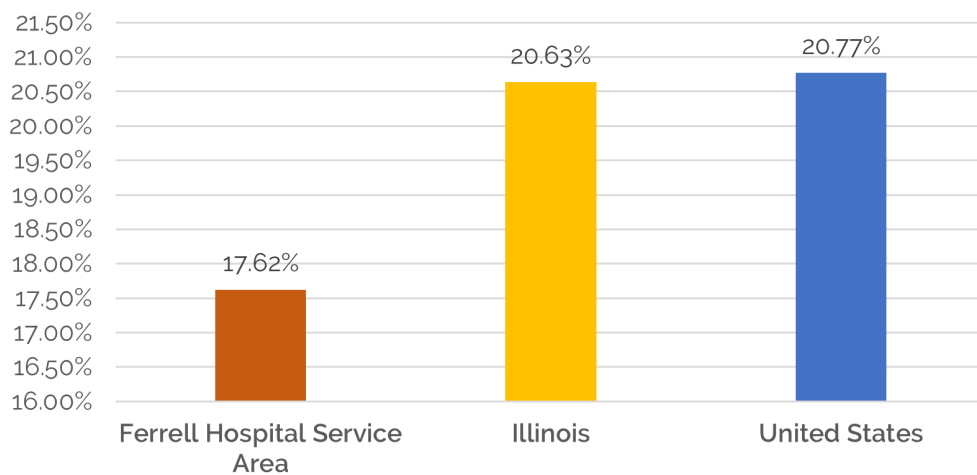
Food Environment – Grocery Stores

Healthy dietary behaviors are supported by access to healthy foods, and grocery stores are a major provider of these foods. Grocery stores are defined as supermarkets and smaller grocery stores primarily engaged in retailing a general line of food, such as canned and frozen foods; fresh fruits and vegetables; and fresh and prepared meats, fish, and poultry. Delicatessen-type establishments are also included. Convenience stores and large general merchandise stores that also retail food, such as supercenters and warehouse club stores, are excluded. This indicator describes the number of grocery stores and the number of grocery stores per 100,000 in the service area.

Report Area	Total Population (2010)	Number of Establishments	Establishments, Rate per 100,000 Population
Ferrell Hospital Service Area 2021	62,414	Suppressed	17.62
Gallatin County, IL	5,589	Suppressed	Suppressed
Hamilton County, IL	8,457	Suppressed	Suppressed
Hardin County, IL	4,320	Suppressed	Suppressed
Pope County, IL	4,470	Suppressed	Suppressed
Saline County, IL	24,913	7	28.10
White County, IL	14,665	4	27.28
Illinois	12,830,632	2,647	20.63
United States	308,745,538	64,132	20.77

Note: This indicator is compared to the state average. Data Source: U.S. Census Bureau, County Business Patterns. Additional data analysis by CARES, 2019. Source geography: County

Grocery Store Establishments Rate per 100,000 Population



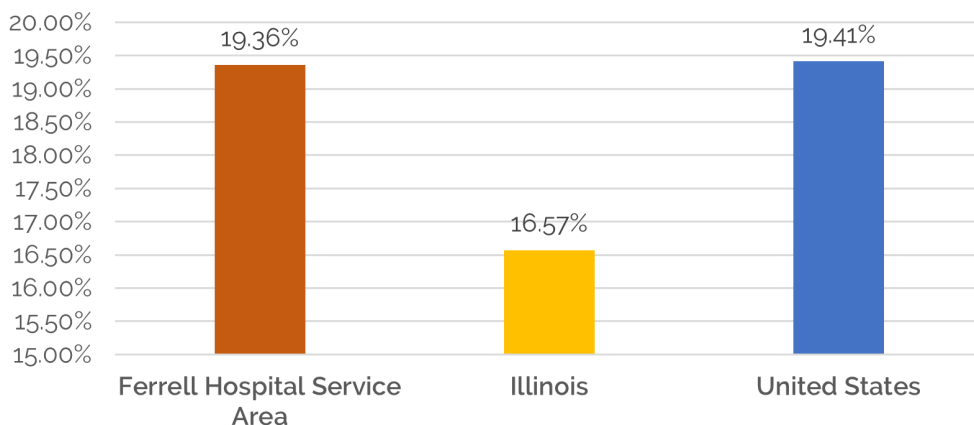
Food Environment – Low Income & Low Food Access

This indicator reports the percentage of the low income population with low food access. Low food access is defined as living more than 1/2 mile from the nearest supermarket, supercenter, or large grocery store. Data are from the April 2021 Food Access Research Atlas dataset. This indicator is relevant because it highlights populations and geographies facing food insecurity. It was reported that 19.36% of the low income population in the service area have low food access. The total low income population in the service area with low food access is 4,652.

Report Area	Total Population	Low Income Population	Low Income Population with Low Food Access	Percent Low Income Population with Low Food Access
Ferrell Hospital Service Area 2021	62,414	24,028	4,652	19.36%
Gallatin County, IL	5,589	2,367	1,670	70.55%
Hamilton County, IL	8,457	2,597	285	10.97%
Hardin County, IL	4,320	1,410	268	19.01%
Pope County, IL	4,470	1,742	479	27.50%
Saline County, IL	24,913	10,617	1,609	15.15%
White County, IL	14,665	5,295	341	6.44%
Illinois	12,830,632	3,740,352	619,810	16.57%
United States	308,745,538	97,055,825	18,834,033	19.41%

Data Source: U.S. Department of Agriculture, Economic Research Service, USDA - Food Access Research Atlas, 2019. Source geography: Tract

Low Income Population with Low Food Access Percent



HEALTH AND WELLNESS INDICATORS

Clinical Care and Prevention – Dental Care Utilization

A lack of access to care presents barriers to good health. Supply of facilities and physicians, the rate of uninsurance, financial hardship, transportation barriers, cultural competency, and coverage limitations affect access. Rates of morbidity, mortality, and emergency hospitalizations can be reduced if community residents access services such as health screenings, routine tests, and vaccinations. Prevention indicators can call attention to a lack of access or knowledge regarding one or more health issues and can inform program interventions.

This indicator reports the percentage of adults age 18 and older who report having been to the dentist or dental clinic in the previous year. Within the service area, there are 61.00% adults who went to the dentist in the past year of the total population.

Report Area	Total Population (2018)	Adults with Recent Dental Visit (Crude)	Adults with Recent Dental Visit (Age-Adjusted)
Ferrell Hospital Service Area 2021	58,914	61.0%	60.4%
Gallatin County, IL	5,058	58.70%	58.00%
Hamilton County, IL	8,163	64.80%	64.20%
Hardin County, IL	3,910	59.40%	58.40%
Pope County, IL	4,212	63.60%	62.20%
Saline County, IL	23,906	59.20%	58.70%
White County, IL	13,665	62.40%	61.80%
Illinois	12,741,080	65.7%	65.5%
United States	163,583,717	66.5%	66.2%

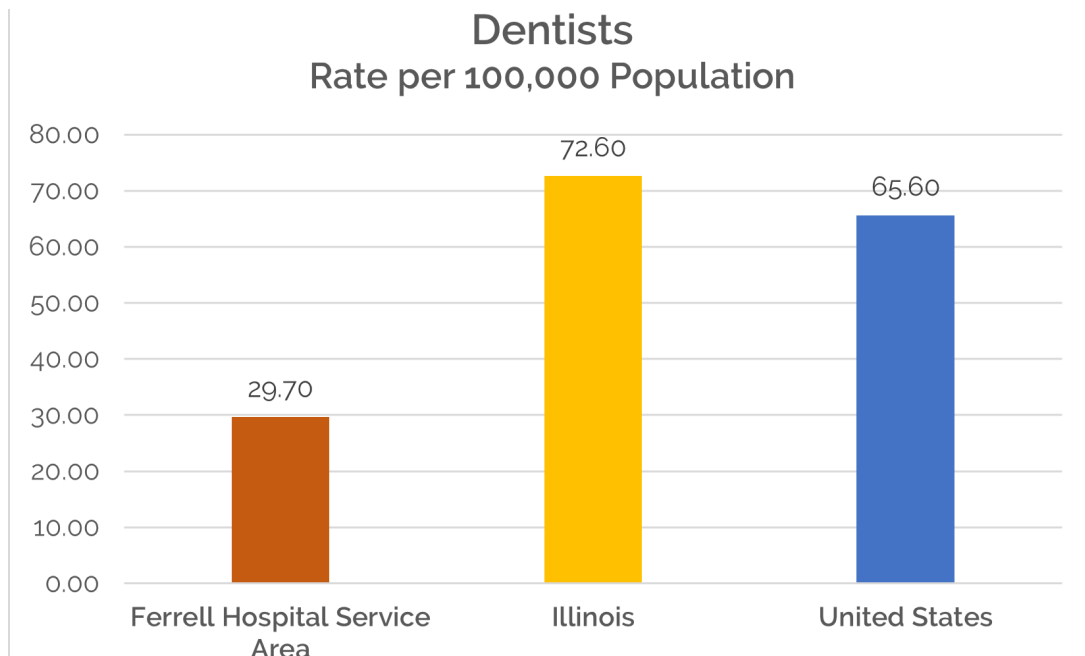
Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2018.

Access to Care – Dental Health

This indicator reports the number of dentists per 100,000 population. This indicator includes all dentists qualified as having a doctorate in dental surgery (D.D.S.) or dental medicine (D.M.D.), who are licensed by the state to practice dentistry and who are practicing within the scope of that license. Within the service area, there are 18.00 dentists. This represents 29.70 dentists per 100,000 total population.

Report Area	Total Population, 2015	Dentists, 2015	Dentists, Rate per 100,000 Population
Ferrell Hospital Service Area 2021	60,701.00	18.00	29.70
Gallatin County, IL	5,265.00	0.00	0.00
Hamilton County, IL	8,200.00	1.00	12.20
Hardin County, IL	4,135.00	1.00	24.18
Pope County, IL	4,226.00	0.00	0.00
Saline County, IL	24,548.00	10.00	40.74
White County, IL	14,327.00	6.00	41.88
Illinois	12,859,995.00	9,336.00	72.60
United States	321,418,820.00	210,832.00	65.60

Note: This indicator is compared to the state average. Data Source: U.S. Department of Health & Human Services, Health Resources and Services Administration, HRSA - Area Health Resource File, 2015. Source geography: County

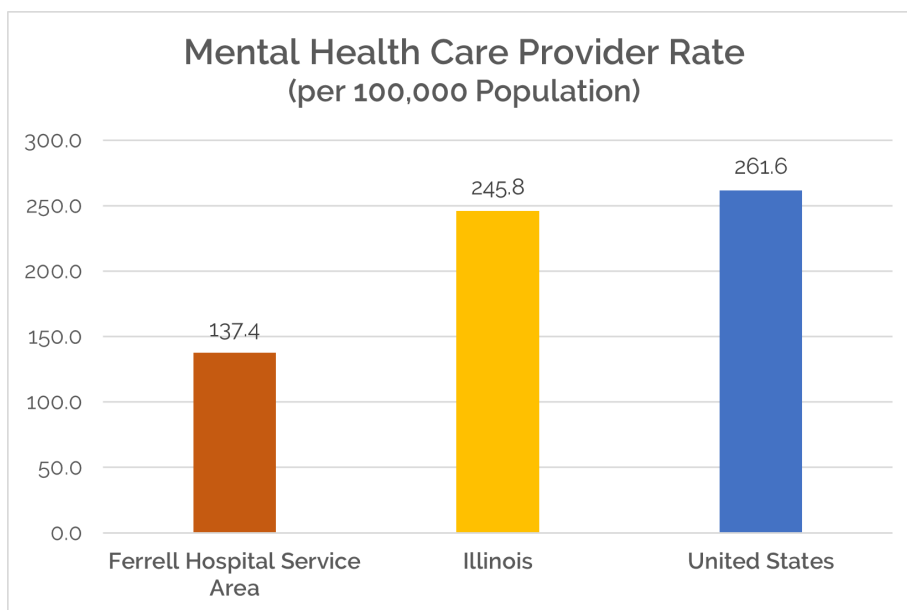


Access to Care – Mental Health

This indicator reports the number of mental health providers in the service area as a rate per 100,000 total area population. Mental health providers include psychiatrists, psychologists, clinical social workers, and counselors that specialize in mental healthcare. Data from the 2020 Centers for Medicare and Medicaid Services (CMS) National Provider Identifier (NPI) downloadable file are used in the 2021 County Health Rankings. Within the report area, there are 73 mental health providers with a CMS National Provider Identifier (NPI). This represents 137.4 providers per 100,000 total population. *Note: Data are suppressed for counties with population greater than 1,000 and 0 mental health providers.*

Report Area	Estimated Population	Number of Mental Health Providers	Ratio of Mental Health Providers to Population (1 Provider per x Persons)	Mental Health Care Provider Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	53,142	73	728	137.4
Gallatin County, IL	0	0	No data	No data
Hamilton County, IL	8,116	2	4,058	24.6
Hardin County, IL	3,821	1	3,821	26.2
Pope County, IL	4,177	2	2,088.5	47.9
Saline County, IL	23,491	52	451.8	221.4
White County, IL	13,537	16	846.1	118.2
Illinois	25,293,636	62,162	406.9	245.8
United States	655,362,202	1,714,472	382.3	261.6

Note: This indicator is compared to the state average. Data Source: Centers for Medicare and Medicaid Services, CMS - National Plan and Provider Enumeration System (NPPES). Accessed via County Health Rankings, 2020. Source geography:

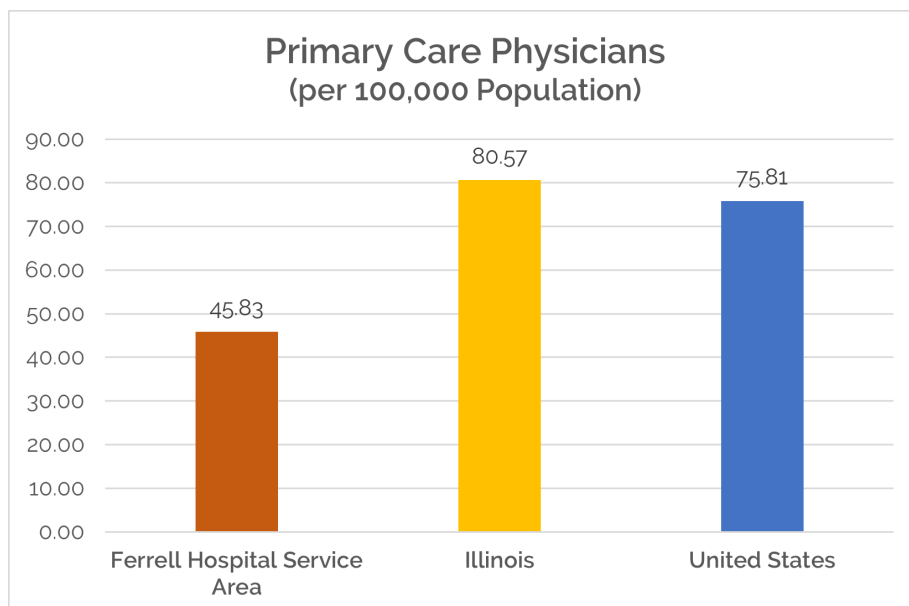


Access to Care – Primary Care

This indicator reports the number of primary care physicians per 100,000 population. Doctors classified as “primary care physicians” by the AMA include: General Family Medicine MDs and Dos, General Practice MDs and DOs, General Internal Medicine MDs and General Pediatrics MDs. Physicians age 75 and over and physicians practicing subspecialties within the listed specialties are excluded. This indicator is relevant because a shortage of health professionals contributes to access and health status issues. Within the service area, there are 27 primary care physicians. This represents 45.83 providers per 100,000 total population.

Report Area	Total Population	Primary Care Physicians	Primary Care Physicians, Rate per 100,000 Population
Ferrell Hospital Service Area 2021	58,914	27	45.83
Gallatin County, IL	5,058	1	19.77
Hamilton County, IL	8,163	3	36.75
Hardin County, IL	3,910	4	102.30
Pope County, IL	4,212	0	0.00
Saline County, IL	23,906	15	62.75
White County, IL	13,665	4	29.27
Illinois	12,741,080	10,265	80.57
United States	327,167,434	248,034	75.81

Note: This indicator is compared to the state average. Data Source: U.S. Department of Health & Human Services, Health Resources and Services Administration, HRSA - Area Health Resource File. Accessed via County Health Rankings, 2017. Source geography: County



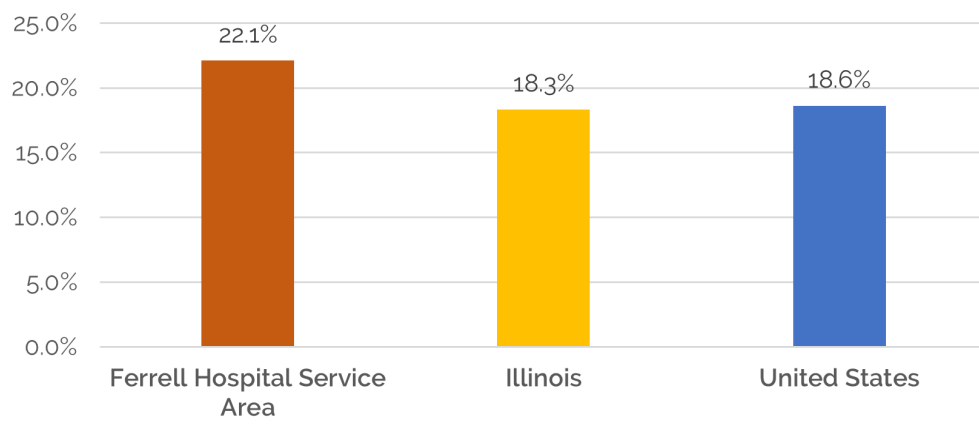
Poor or Fair Health

This indicator reports the percentage of adults age 18 and older who self-report poor or fair health (age-adjusted to the 2000 standard). Data were from the 2018 Behavioral Risk Factor Surveillance System (BRFSS) annual survey and are used for the 2021 County Health Rankings. This indicator is relevant because it is a measure of general poor health status. Within the service area, the estimated prevalence of fair or poor health among adults aged 18 years and older was 22.1%. This value is based on the crude number of adults who self-report their general health status as "fair" or "poor."

Report Area	Total Population (2019)	Adults with Poor or Fair General Health (Crude)	Adults with Poor or Fair General Health (Age-Adjusted)
Ferrell Hospital Service Area 2021	57,970	22.1%	19.9%
Gallatin County, IL	4,828	24.10%	21.50%
Hamilton County, IL	8,116	20.00%	18.00%
Hardin County, IL	3,821	23.60%	20.70%
Pope County, IL	4,177	22.40%	19.60%
Saline County, IL	23,491	22.70%	20.80%
White County, IL	13,537	20.90%	18.80%
Illinois	12,671,821	18.31%	17.80%
United States	328,239,523	18.60%	17.80%

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2019. Source geography: Tract

Adults with Poor or Fair General Health, Age-Adjusted (Percentage of Adults over Age 18)



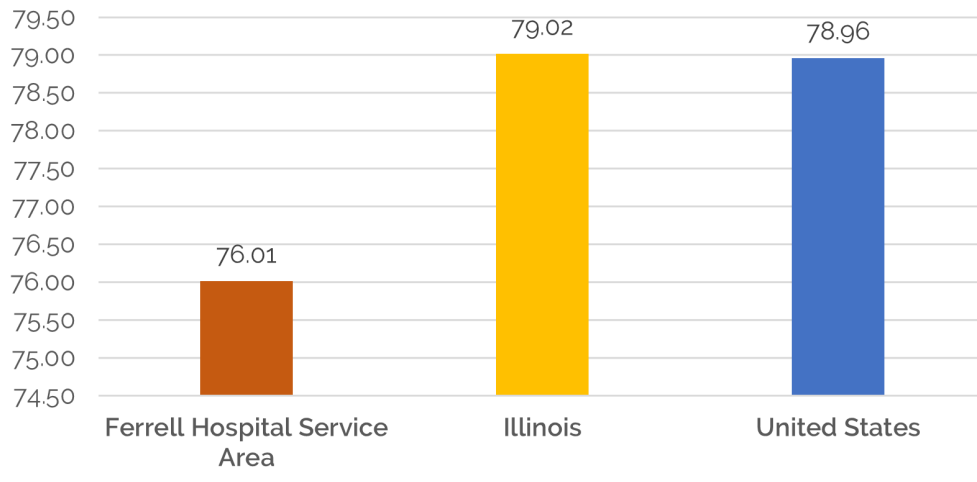
Mortality – Life Expectancy

This indicator reports the average life expectancy at birth. Life expectancy measures the average number of years from birth a person can expect to live, according to the current mortality experience (age-specific death rates) of the population. Life expectancy takes into account the number of deaths in a given time period and the average number of people at risk of dying during that period, allowing us to compare data across countries with different population sizes. Within the service area, the average life expectancy at birth is 76.01 years of the total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population (2014)	Life Expectancy at Birth (2014)
Ferrell Hospital Service Area 2021	60,877	76.01
Gallatin County, IL	5,278	75.16
Hamilton County, IL	8,314	77.70
Hardin County, IL	4,149	75.21
Pope County, IL	4,375	77.98
Saline County, IL	24,496	74.90
White County, IL	14,265	76.88
Illinois	12,884,493	79.02
United States	318,301,008	78.96

Note: This indicator is compared to the state average. Data Source: Institute for Health Metrics and Evaluation, 2017. Source geography: County

Average Life Expectancy at Birth Years of Age



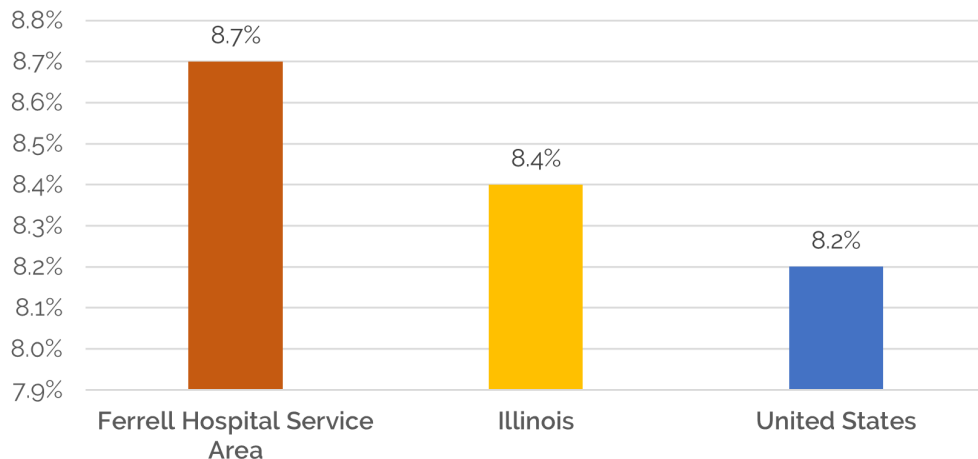
Low Birth Weight (CDC)

This indicator reports the percentage of live births where the infant weighed less than 2,500 grams (approximately 5 lbs., 8 oz). These data are reported for a 7-year aggregated time period. Data were from the National Center for Health Statistics - Natality Files (2013-2019) and are used for the 2021 County Health Rankings. Within the service area, there were 405 infants born with low birth weight. This represents 8.7% of the total live births. *Note: Data are suppressed for counties with fewer than 10 low birthweight births in the reporting period.*

Report Area	Total Live Births	Low Birthweight Births	Low Birthweight Births, Percentage
Ferrell Hospital Service Area 2021	4,642	405	8.7%
Gallatin County, IL	367	27	7.4%
Hamilton County, IL	595	45	7.6%
Hardin County, IL	220	18	8.2%
Pope County, IL	206	21	10.2%
Saline County, IL	2,184	201	9.2%
White County, IL	1,070	93	8.7%
Illinois	2,123,542	177,366	8.4%
United States	54,416,819	4,440,508	8.2%

Note: This indicator is compared to the state average. Data Source: University of Wisconsin Population Health Institute, County Health Rankings, 2013-2019. Source geography: County

Low Birth Weight Births Percentage of Total Births



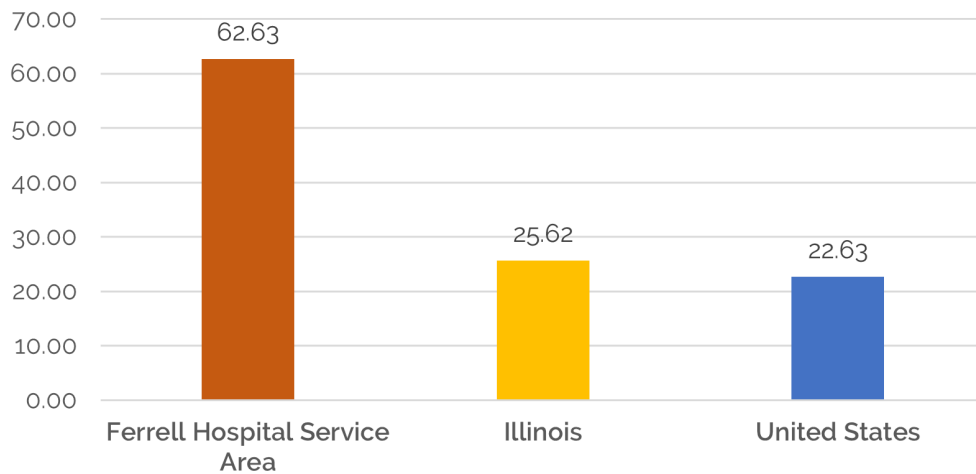
Population Living in a Health Professional Shortage Area

This indicator reports the percentage of the population that is living in a geographic area designated as a “Health Professional Shortage Area” (HPSA), defined as having a shortage of primary medical care, dental or mental health professionals. This indicator is relevant because a shortage of health professionals contributes to access and health status issues. Within the service area, there are 37,103 people living in a Health Professional Shortage Area of primary care, dental or mental health professionals. This represents 62.63% of the total population.

Report Area	Total Population (ACS 2019 5-Year Estimates)	Population Living in an Area Affected by a HPSA	Percentage of Population Living in an Area Affected by a HPSA	Percentage of HPSA Population Underserved
Ferrell Hospital Service Area 2021	59,244	37,103	62.63%	62.74%
Gallatin County, IL	5,064	5,064	100.00%	100.00%
Hamilton County, IL	8,176	8,176	100.00%	15.00%
Hardin County, IL	3,939	3,939	100.00%	15.87%
Pope County, IL	4,203	4,203	100.00%	15.86%
Saline County, IL	23,994	10,640	44.34%	100.00%
White County, IL	13,868	5,081	36.64%	100.00%
Illinois	12,770,631	3,271,660	25.62%	42.49%
United States	324,697,795	73,493,673	22.63%	53.70%

Note: This indicator is compared to the state average. Data Source: U.S. Department of Health & Human Services, Health Resources and Services Administration, HRSA - Health Professional Shortage Areas Database, May 2021. Source geography: HPSA

Percentage of Population Living in an Area Affected by a HPSA

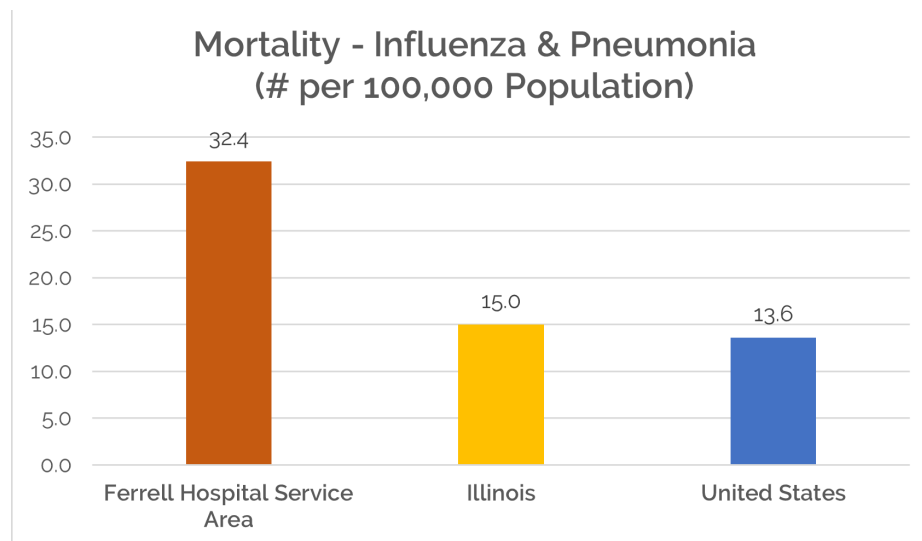


Mortality – Influenza & Pneumonia

This indicator reports the 2016-2020 five-year average rate of death due to influenza and pneumonia (ICD10 Codes J09-J18) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for report areas from county level data, only where data is available. This indicator is relevant because influenza and pneumonia are leading causes of death in the United States. Within the service area, there are a total of 123 deaths due to influenza and pneumonia. This represents an age-adjusted death rate of 32.4 every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the three-year timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	123	48.5	32.4
Gallatin County, IL	4,994	11	No data	No data
Hamilton County, IL	8,124	13	No data	No data
Hardin County, IL	3,922	No data	No data	No data
Pope County, IL	4,203	No data	No data	No data
Saline County, IL	23,798	69	58.0	36.8
White County, IL	13,759	30	43.6	24.8
Illinois	12,720,799	11,680	18.4	15.0
United States	326,747,554	269,656	16.5	13.6

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County



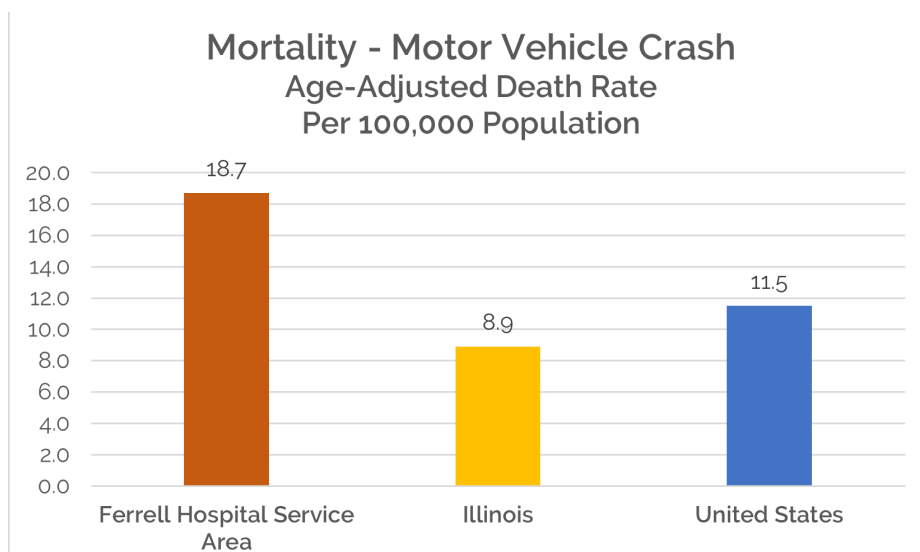
Mortality – Motor Vehicle Crash

This indicator reports the 2016-2020 five-year average rate of death due to motor vehicle crash per 100,000 population, which include collisions with another motor vehicle, a nonmotorist, a fixed object, and a non-fixed object, an overturn, and any other non-collision. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. This indicator is relevant because motor vehicle crash deaths are preventable and they are a cause of premature death. Within the service area, there are a total of 39 deaths due to motor vehicle crash. This represents an age-adjusted death rate of 18.7 per every 100,000 total population.

Note: Fatality counts are based on the location of the crash and not the decedent's residence.

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	39	20.8	18.7
Gallatin County, IL	4,994	No data	No data	No data
Hamilton County, IL	8,124	No data	No data	No data
Hardin County, IL	3,922	No data	No data	No data
Pope County, IL	4,203	No data	No data	No data
Saline County, IL	23,798	21	17.6	18.7
White County, IL	13,759	18	No data	No data
Illinois	12,720,799	5,821	9.2	8.9
United States	326,747,554	193,691	11.9	11.5

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County



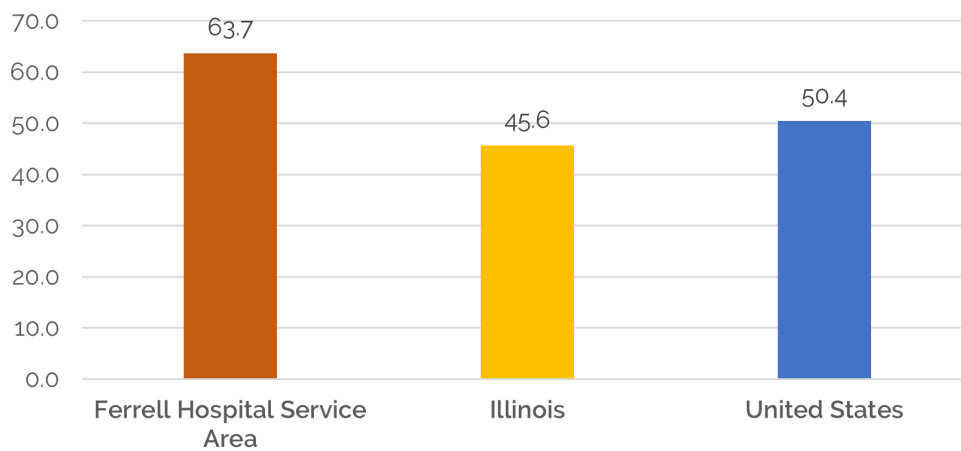
Mortality – Unintentional Injury (Accident)

This indicator reports the 2016-2020 five-year average rate of death due to unintentional injury (accident) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. This indicator is relevant because accidents are a leading cause of death in the United States. Within the service area, there are a total of 200 deaths due to unintentional injury. This represents an age-adjusted death rate of 63.7 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	200	68.0	63.7
Gallatin County, IL	4,994	14	No data	No data
Hamilton County, IL	8,124	20	49.2	43.3
Hardin County, IL	3,922	12	No data	No data
Pope County, IL	4,203	18	No data	No data
Saline County, IL	23,798	87	73.1	69.5
White County, IL	13,759	49	71.2	65.6
Illinois	12,720,799	30,808	48.4	45.6
United States	326,747,554	872,432	53.4	50.4

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County

Mortality - Unintentional Injury (Accident) (# per 100,000 Population)



CHRONIC ILLNESS

Health Outcomes

Measuring morbidity and mortality rates allows assessing linkages between social determinants of health and outcomes. By comparing, for example, the prevalence of certain chronic diseases to indicators in other categories (e.g., poor diet and exercise) with outcomes (e.g., high rates of obesity and diabetes), various causal relationships may emerge, allowing a better understanding of how certain community health needs may be addressed.

Cancer Incidence – All Sites

This indicator reports the age-adjusted incidence rate (cases per 100,000 population per year) of cancer (all sites), adjusted to 2000 U.S. standard population age groups (under age 1, 1-4, 5-9, ..., 80-84, 85 and older). Within the service area, there were 114 new cases of cancer reported. This means there is a rate of 491.1 for every 100,000 total population.

Report Area	Estimated Total Population	New Cases (Annual Average)	Cancer Incidence Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	88,576	435	491.1
Gallatin County, IL	7,653	35	457.3
Hamilton County, IL	12,335	58	470.2
Hardin County, IL	6,878	31	450.7
Pope County, IL	6,964	34	488.2
Saline County, IL	34,039	172	505.3
White County, IL	20,705	105	507.1
Illinois	14,903,598	69,570	466.8
United States	379,681,007	1,703,249	448.6

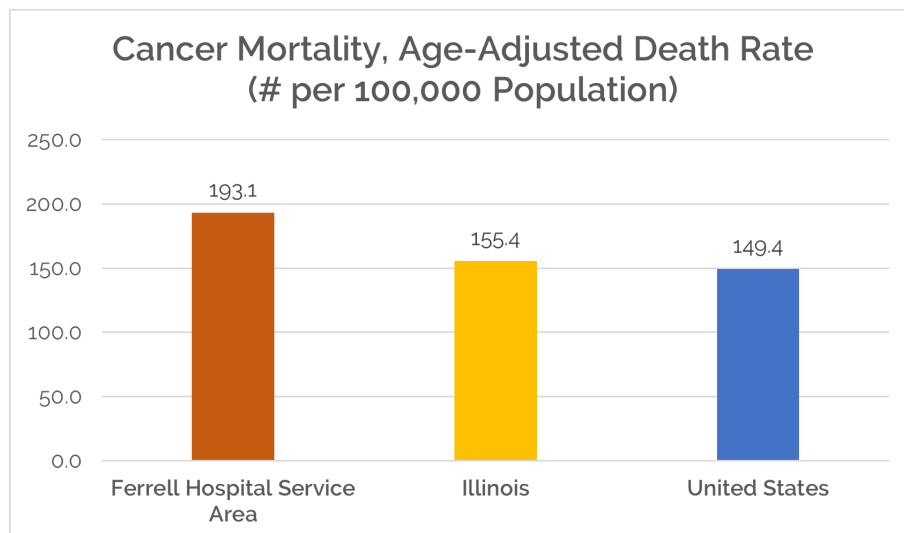
*Note: This indicator is compared to the state average.
Data Source: State Cancer Profiles. 2014-18. Source geography: County*

Mortality – Cancer

This indicator reports the 2016-2020 five-year average rate of death due to malignant neoplasm (cancer) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because cancer is a leading cause of death in the United States. Within the service area, there are a total of 901 deaths due to cancer. This represents an age-adjusted death rate of 193.1 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	901	306.5	193.1
Gallatin County, IL	4,994	84	336.4	217.6
Hamilton County, IL	8,124	117	288.1	178.9
Hardin County, IL	3,922	75	382.5	213.6
Pope County, IL	4,203	62	295.1	156.2
Saline County, IL	23,798	360	302.6	204.4
White County, IL	13,759	203	295.1	178.3
Illinois	12,720,799	120,341	189.2	155.4
United States	326,747,554	2,998,371	183.5	149.4

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, National Vital Statistics System, Accessed via CDC WONDER, 2016-2020. Source geography: County



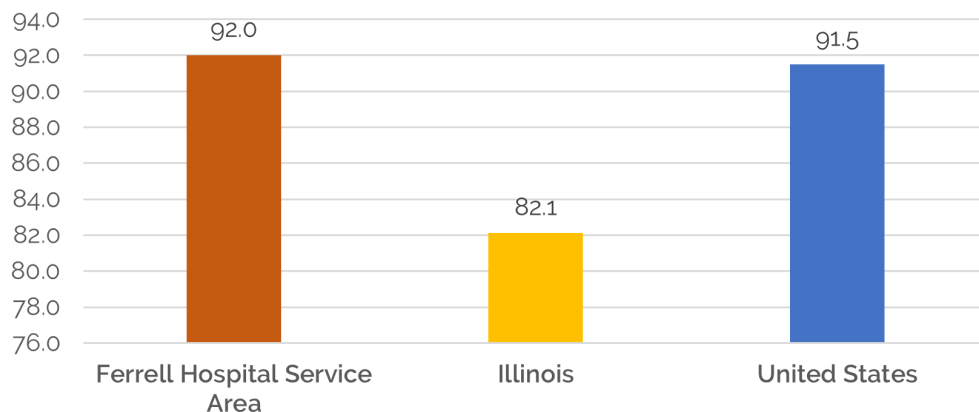
Mortality – Coronary Heart Disease

This indicator reports the 2016-2020 five-year average rate of death due to coronary heart disease (ICD10 Codes I20-I25) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because coronary heart disease is a leading cause of death in the United States. Within the report area, there are a total of 434 deaths due to coronary heart disease. This represents an age-adjusted death rate of 92.0 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	434	147.6	92.0
Gallatin County, IL	4,994	58	232.3	143.5
Hamilton County, IL	8,124	41	100.9	59.1
Hardin County, IL	3,922	57	290.7	178.5
Pope County, IL	4,203	36	171.3	83.2
Saline County, IL	23,798	156	131.1	88.0
White County, IL	13,759	86	125.0	78.0
Illinois	12,720,799	64,237	101.0	82.1
United States	326,747,554	1,838,830	112.5	91.5

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County

Coronary Heart Disease Mortality, Age-Adjusted Death Rate (# per 100,000 Population)



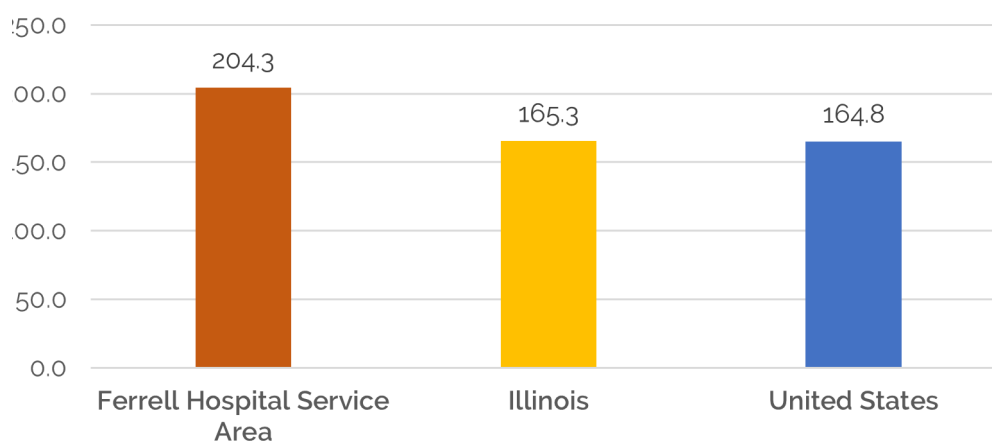
Mortality – Heart Disease

This indicator reports the 2016-2020 five-year average rate of death due to heart disease (ICD10 Codes I00-109, I11, I13, I20-151) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because heart disease is a leading cause of death in the United States. Within the report area, there are a total of 975 deaths due to heart disease. This represents an age-adjusted death rate of 204.3 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	975	331.6	204.3
Gallatin County, IL	4,994	98	392.5	253.2
Hamilton County, IL	8,124	121	297.9	176.7
Hardin County, IL	3,922	80	408.0	242.4
Pope County, IL	4,203	69	328.4	165.7
Saline County, IL	23,798	368	309.3	204.6
White County, IL	13,759	239	347.4	203.3
Illinois	12,720,799	129,312	203.3	165.3
United States	326,747,554	3,294,101	201.6	164.8

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County

Heart Disease Mortality Age-Adjusted Death Rate (# per 100,000 Population)



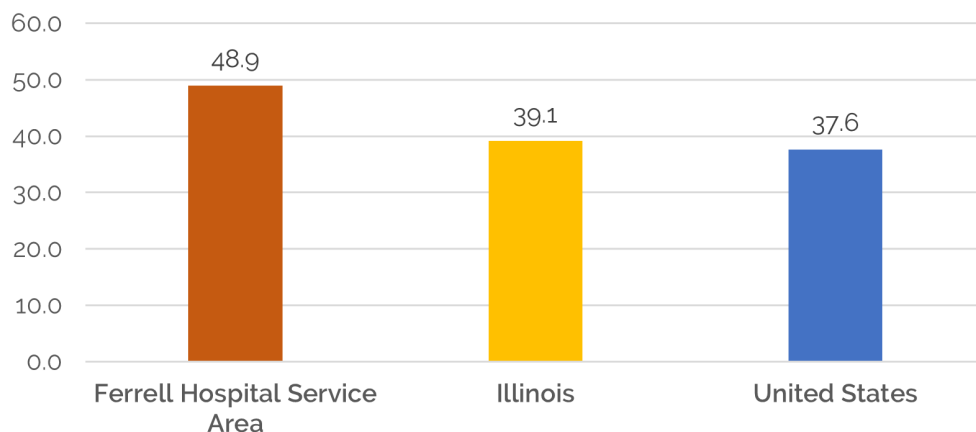
Mortality – Stroke

This indicator reports the 2016-2020 five-year average rate of death due to cerebrovascular disease (stroke) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. This indicator is relevant because stroke is a leading cause of death in the United States. Within the service area, there are a total of 224 deaths due to stroke. This represents an age-adjusted death rate of 48.9 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	224	76.2	48.9
Gallatin County, IL	4,994	20	80.1	56.2
Hamilton County, IL	8,124	36	88.6	48.7
Hardin County, IL	3,922	13	No data	No data
Pope County, IL	4,203	10	No data	No data
Saline County, IL	23,798	97	81.5	53.1
White County, IL	13,759	48	69.8	39.0
Illinois	12,720,799	30,448	47.9	39.1
United States	326,747,554	746,604	45.7	37.6

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County

Mortality - Stroke Age-Adjusted Death Rate (per 100,000 Population)



Chronic Conditions – Adult

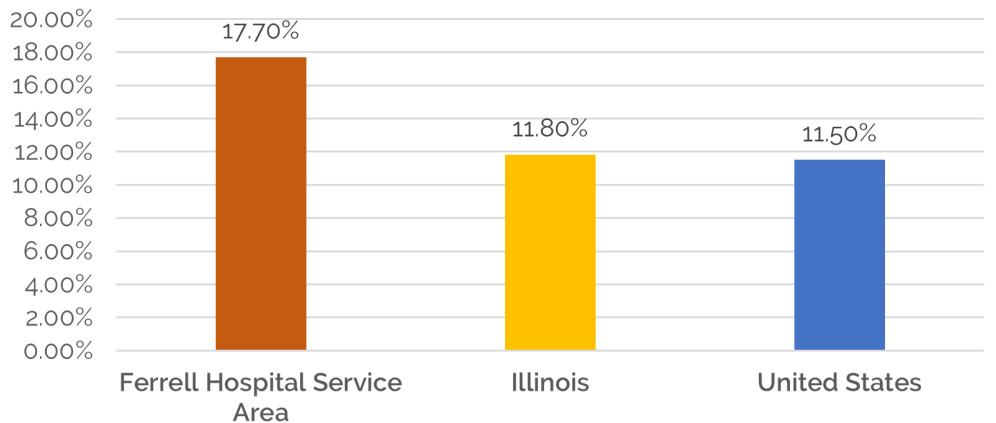
Chronic Obstructive Pulmonary Disease

This indicator reports the percentage of adults age 18 and older who report ever having been told by a doctor, nurse, or other health professional that they had chronic obstructive pulmonary disease (COPD), emphysema, or chronic bronchitis. Within the service area, there were 10.0% of adults 18 and older who reported having chronic obstructive pulmonary disease of the total population.

Report Area	Total Population (2019)	Percentage of Adults Ever Diagnosed with Chronic Lower Respiratory Disease
Ferrell Hospital Service Area 2021	57,970	10.0%
Gallatin County, IL	4,828	11.30%
Hamilton County, IL	8,116	9.00%
Hardin County, IL	3,821	10.80%
Pope County, IL	4,177	10.40%
Saline County, IL	23,491	10.20%
White County, IL	13,537	9.60%
Illinois	12,671,821	6.08%
United States	328,239,523	6.60%

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2018.

Medicare Fee-for-Service Beneficiaries with COPD Percent



High Cholesterol (Adult)

This table presents the percentage of adults ever diagnosed with high cholesterol. Within the service area, there were 36.8% of adults 18 and older who reported having high cholesterol of the total population.

Report Area	Total Population (2019)	Percentage of Adults with High Cholesterol
Ferrell Hospital Service Area 2021	57,970	36.8%
Gallatin County, IL	4,828	38.00%
Hamilton County, IL	8,116	36.60%
Hardin County, IL	3,821	38.50%
Pope County, IL	4,177	38.60%
Saline County, IL	23,491	36.40%
White County, IL	13,537	36.10%
Illinois	12,671,821	31.3%
United States	328,239,523	33.6%

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2018.

High Blood Pressure (Adult)

This table presents the percentage of adults ever diagnosed with high blood pressure. Within the service area, there were 38.8% of adults 18 and older who reported having high blood pressure of the total population.

Report Area	Total Population (2019)	Percentage of Adults with High Blood Pressure
Ferrell Hospital Service Area 2021	57,970	38.8%
Gallatin County, IL	4,828	40.90%
Hamilton County, IL	8,116	37.60%
Hardin County, IL	3,821	40.80%
Pope County, IL	4,177	40.80%
Saline County, IL	23,491	38.80%
White County, IL	13,537	37.40%
Illinois	12,671,821	31.2%
United States	328,239,523	32.6%

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2018.

MENTAL HEALTH

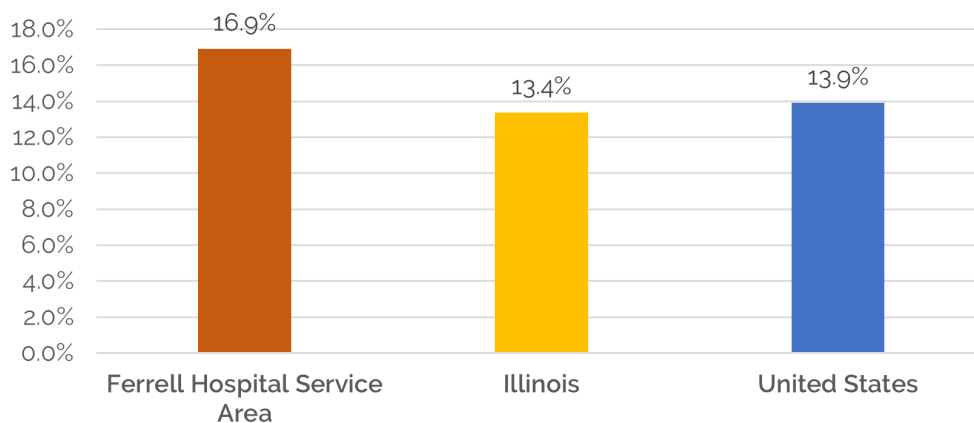
Poor Mental Health

This indicator reports the percentage of adults age 18 and older who report 14 or more days during the past 30 days during which their mental health was not good. Data were from the 2019 Behavioral Risk Factor Surveillance System (BRFSS) annual survey. Within the service area, there 15.4% of adults 18 and older who reported poor mental health in the past month of the total population.

Report Area	Total Population (2019)	Adults with Poor Mental Health (Crude)	Adults with Poor Mental Health (Age-Adjusted)
Ferrell Hospital Service Area 2021	57,970	15.4%	16.9%
Gallatin County, IL	4,828	16.10%	17.90%
Hamilton County, IL	8,116	14.40%	15.90%
Hardin County, IL	3,821	15.10%	17.10%
Pope County, IL	4,177	14.50%	16.40%
Saline County, IL	23,491	16.10%	17.30%
White County, IL	13,537	15.10%	16.50%
Illinois	12,671,821	13.13%	13.37%
United States	328,239,523	13.60%	13.90%

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2019. Source geography: Tract

Adults with Poor Mental Health, Age-Adjusted (Percentage of Adults over Age 18)

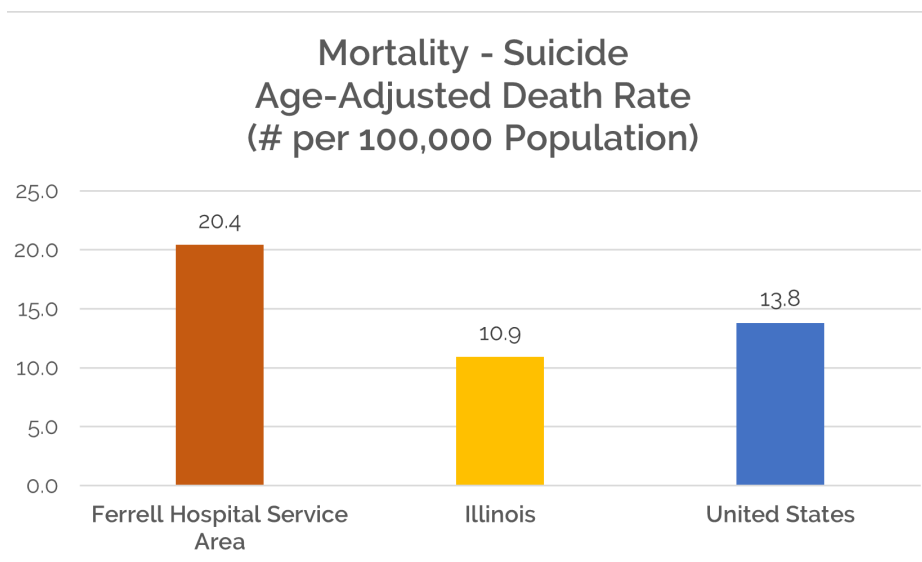


Mortality – Suicide

This indicator reports the 2016-2020 five-year average rate of death due to intentional self-harm (suicide) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because suicide is an indicator of poor mental health. Within the service area, there are a total of 44 deaths due to suicide. This represents an age-adjusted death rate of 20.4 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	44	23.4	20.4
Gallatin County, IL	4,994	No data	No data	No data
Hamilton County, IL	8,124	No data	No data	No data
Hardin County, IL	3,922	No data	No data	No data
Pope County, IL	4,203	No data	No data	No data
Saline County, IL	23,798	25	21.0	20.4
White County, IL	13,759	19	No data	No data
Illinois	12,720,799	7,178	11.3	10.9
United States	326,747,554	233,972	14.3	13.8

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County



BEHAVIORAL HEALTH

Deaths of Despair – Suicide + Drug/Alcohol Poisoning

This indicator reports average rate of death due to intentional self-harm (suicide), alcohol-related disease, and drug overdose, also known as “deaths of despair,” per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because death of despair is an indicator of poor mental health. Within the service area, there were 124 deaths of despair. This represents an age-adjusted death rate of 58.2 per every 100,000 total population.

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	124	54.3	58.2
Gallatin County, IL	4,994	No data	No data	No data
Hamilton County, IL	8,124	11	No data	No data
Hardin County, IL	3,922	No data	No data	No data
Pope County, IL	4,203	No data	No data	No data
Saline County, IL	23,798	74	62.2	60.3
White County, IL	13,759	39	56.7	54.6
Illinois	12,720,799	28,231	44.4	42.3
United States	326,747,554	806,246	49.4	47.0

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, National Vital Statistics System. Accessed via CDC WONDER, 2015-2019. Source geography: County

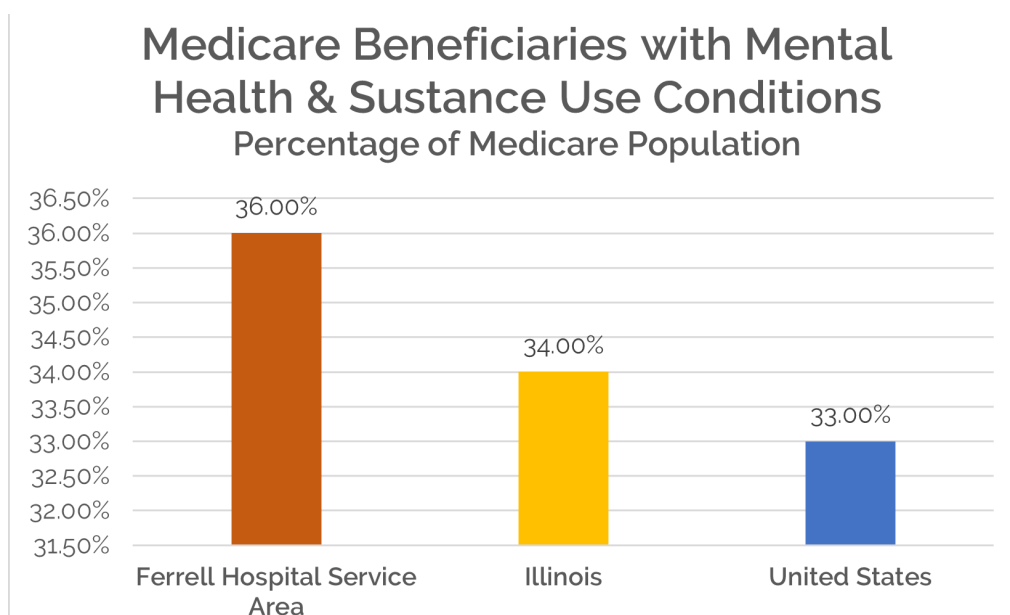
SUBSTANCE USE

Poor Mental Health – Mental Health & Substance Use

This indicator reports the rate of diagnoses for mental health and substance use conditions among the Medicare population. Figures are reported as crude rates, and as age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because mental health and substance use are an indicator of poor health.

Report Area	Medicare Beneficiaries	Beneficiaries with Mental Health and Substance Use Conditions, Percent
Ferrell Hospital Service Area 2021	14,987	36%
Gallatin County, IL	1,369	35%
Hamilton County, IL	1,903	33%
Hardin County, IL	1,063	38%
Pope County, IL	1,089	33%
Saline County, IL	5,927	37%
White County, IL	3,636	35%
Illinois	2,078,514	34%
United States	57,235,207	33%

Note: This indicator is compared to the state average. Data Source: Centers for Medicare and Medicaid Services, Mapping Disparities Tool, 2019. Source geography: County



Mortality – Poisoning

This indicator reports the 2016-2020 five-year average rate of death due to poisoning (including drug overdose) per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because poisoning deaths, especially from drug overdose, are a national public health emergency. Within the service area, there are a total of 45 deaths due to poisoning. This represents an age-adjusted death rate of 28.7 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	58,799	45	24.0	28.7
Gallatin County, IL	4,994	No data	No data	No data
Hamilton County, IL	8,124	No data	No data	No data
Hardin County, IL	3,922	No data	No data	No data
Pope County, IL	4,203	No data	No data	No data
Saline County, IL	23,798	31	26.1	28.7
White County, IL	13,759	14	No data	No data
Illinois	12,720,799	15,152	23.8	23.7
United States	326,747,554	389,651	23.9	24.0

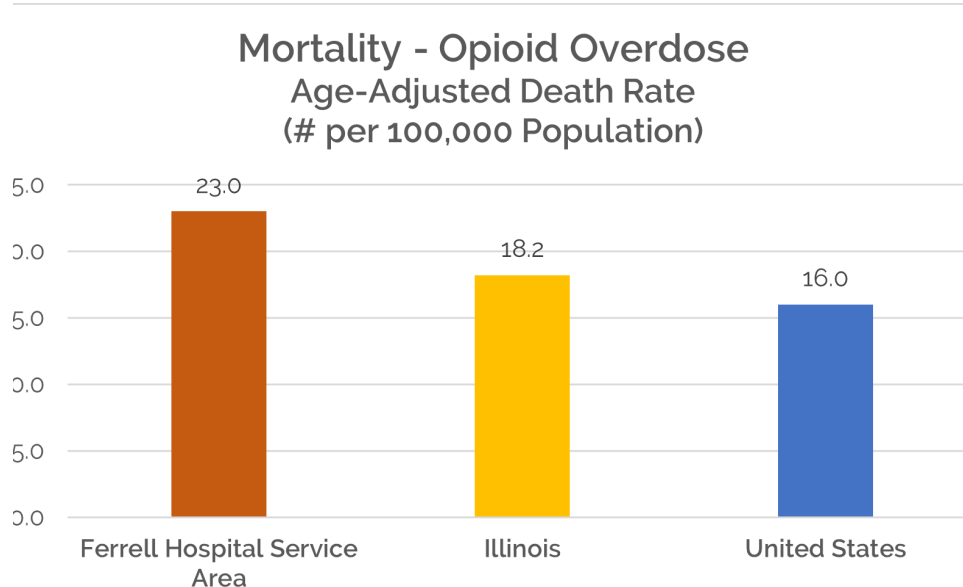
Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, National Vital Statistics System, Accessed via CDC WONDER, 2016-2020. Source geography: County

Mortality – Opioid Overdose

This indicator reports the 2016-2020 five-year average rate of death due to opioid drug overdose per 100,000 population. Figures are reported as crude rates, and as rates age-adjusted to year 2000 standard. Rates are resummarized for service areas from county level data, only where data is available. This indicator is relevant because opioid drug overdose is the leading cause of injury deaths in the United States, and they have increased dramatically in recent years. Within the service area, there are a total of 25 deaths due to opioid overdose. This represents an age-adjusted death rate of 23.0 per every 100,000 total population. *Note: Data are suppressed for counties with fewer than 20 deaths in the timeframe.*

Report Area	Total Population, 2016-2020 Average	Five Year Total Deaths, 2016-2020 Total	Crude Death Rate (Per 100,000 Population)	Age-Adjusted Death Rate (Per 100,000 Population)
Ferrell Hospital Service Area 2021	48,676	25	21.0	23.0
Gallatin County, IL	4,994	No data	No data	No data
Hamilton County, IL	-2,000	No data	No data	No data
Hardin County, IL	3,922	No data	No data	No data
Pope County, IL	4,203	No data	No data	No data
Saline County, IL	23,798	25	21.0	23.0
White County, IL	13,759	No data	No data	No data
Illinois	12,720,799	11,559	18.2	18.2
United States	326,747,554	256,428	15.7	16.0

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention: National Vital Statistics System. Accessed via CDC WONDER: 2016-2020. Source geography: County



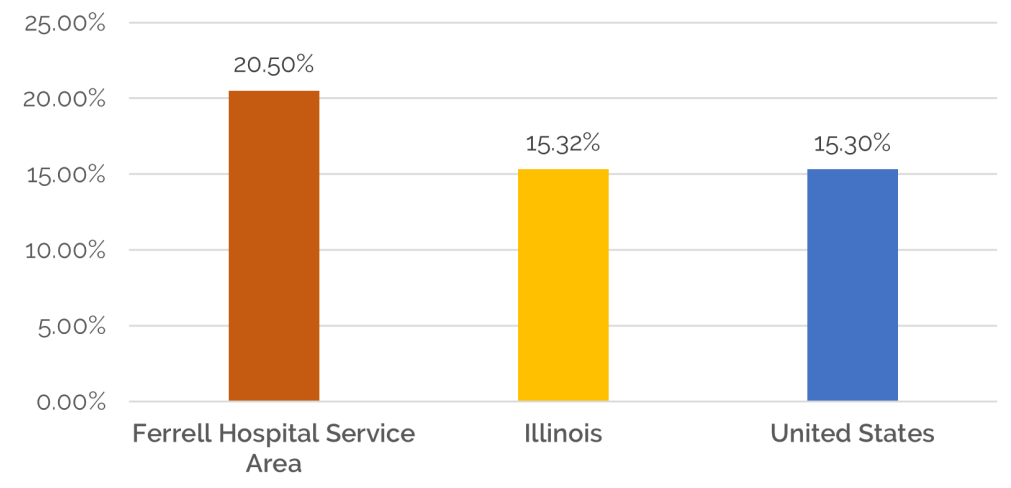
Tobacco – Current Smokers

This indicator reports the percentage of adults age 18 and older who report having smoked at least 100 cigarettes in their lifetime and currently smoke every day or some days. Within the service area, there are 20.5% adults who have smoked or currently smoke of the total population.

Report Area	Total Population (2019)	Adult Current Smokers (Crude)	Adult Current Smokers (Age-Adjusted)
Ferrell Hospital Service Area 2021	57,970	20.5%	22.0%
Gallatin County, IL	4,828	22.00%	23.70%
Hamilton County, IL	8,116	18.80%	20.30%
Hardin County, IL	3,821	20.90%	22.90%
Pope County, IL	4,177	19.40%	21.80%
Saline County, IL	23,491	21.20%	22.40%
White County, IL	13,537	20.10%	21.50%
Illinois	12,671,821	15.32%	15.66%
United States	328,239,523	15.30%	15.70%

Note: This indicator is compared to the state average. Data Source: Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System. Accessed via the 500 Cities Data Portal, 2018.

Adult Current Smokers Percent, Aged 18 or Older

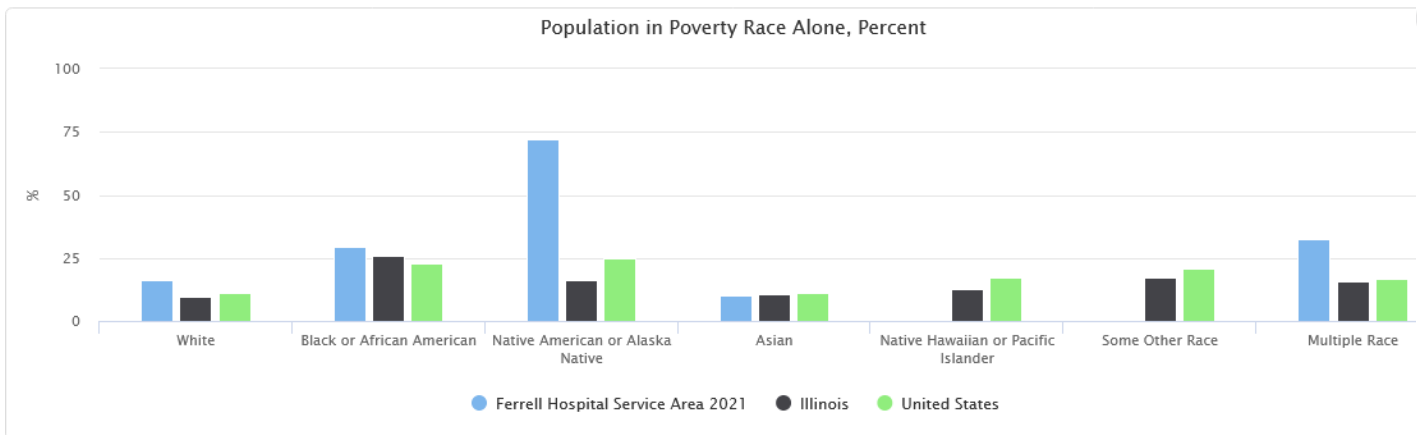


DIVERSITY AND MINORITY HEALTH STATUS

Population in Poverty Race Alone, Percent

This indicator reports the average (population weighted) Area Deprivation Index (ADI) for the selected area. The ADI ranks neighborhoods and communities relative to all neighborhoods across the nation (National Percentile) or relative to other neighborhoods within just one state (state percentile). The ADI is calculated based on 17 measures related to four primary domains (education; income and employment; housing; and household characteristics). The overall scores are measured on a scale of 1 to 100 where 1 indicates the lowest level of deprivation (least disadvantaged) and 100 is the highest level of deprivation (most disadvantaged).

Report Area	White	Black or African American	Native American or Alaska Native	Asian	Native Hawaiian or Pacific Islander	Some Other Race	Multiple Race
Ferrell Hospital Service Area 2021	16.38%	29.66%	72.22%	10.30%	0.00%	0.00%	32.24%
Gallatin County, IL	19.79%	69.23%	100.00%	0.00%	No data	0.00%	42.31%
Hamilton County, IL	9.20%	61.54%	No data	0.00%	No data	0.00%	No data
Hardin County, IL	13.13%	0.00%	100.00%	0.00%	No data	No data	7.27%
Pope County, IL	15.90%	14.29%	No data	0.00%	No data	0.00%	0.00%
Saline County, IL	20.51%	30.43%	79.25%	2.81%	0.00%	0.00%	35.94%
White County, IL	13.73%	69.57%	13.64%	27.36%	0.00%	0.00%	28.17%
Illinois	9.41%	26.10%	16.40%	10.85%	12.62%	17.46%	15.95%
United States	11.15%	23.04%	24.86%	10.94%	17.51%	21.04%	16.66%



EMERGENCY PREPAREDNESS

Ferrell Hospital works with the US-HHS ASPR, the Illinois Department of Public Health, county health departments, the Illinois Emergency Management Agency, and other state, regional, and local partners to plan, exercise, and equip for emergency preparedness and to ensure the ability to address a wide range of potential emergencies, ranging from disasters of all causes to pandemics and terrorism.







Availability of Mental Health and Substance Abuse Services



Reduce COVID Vaccine Hesitancy



Address Issues Related to Public Transportation

IDENTIFICATION AND PRIORITIZATION OF NEEDS

PROCESS

The steering group, comprised of representatives from both focus groups – including a local public health department and schools – and including members serving persons likely to be unserved, underserved, or otherwise experiencing unmet needs, met on December 6, 2021, to identify and prioritize significant health needs.

The group reviewed notes from the focus groups and summaries of data reviewed by the consultant which included SparkMaps, ESRI, Illinois Department of Public Health, CDC, USDA, Illinois Department of Labor, HRSA, County Health Rankings and Roadmaps, National Cancer Institute and other resources. Following the review, the group identified and then prioritized the following as being the significant health needs facing the Ferrell Hospital service area.

DESCRIPTION OF THE COMMUNITY HEALTH NEEDS IDENTIFIED

Following the review, the group identified and then prioritized the following as being the significant health needs facing the Ferrell Hospital service area.

1. The group first identified and prioritized availability of mental health and substance abuse services, including:
 - Reducing the stigma toward mental health and substance use disorders issues and treatment
 - Improved access to mental health and substance use care at all levels for youth
 - Improved access to mental health and substance use care at all levels for adults
2. The group next prioritized the need to reduce COVID vaccine hesitancy
3. The third prioritized need was to address awareness, stigma, and flexibility issues related to public transportation







Resources



Partners



Volunteers



Government

RESOURCES AVAILABLE TO MEET PRIORITY HEALTH NEEDS

HOSPITAL RESOURCES

Services at Ferrell Hospital

- Administration
- Marketing
- Medical staff
- Practice managers
- Clinics
- Infection Control

HEALTHCARE PARTNERS OR OTHER RESOURCES, INCLUDING TELEMEDICINE

- Public Health
- Deaconess Health System
- Independent providers

COMMUNITY RESOURCES

- Schools
- Community leaders
- Local government leaders
- Chambers of Commerce







Documentation



Online Presence



Comments



Implementation

DOCUMENTING AND COMMUNICATING RESULTS

This CHNA Report will be available to the community on the hospital's public website, www.ferrellhospital.org. A hard copy may be reviewed at the hospital by inquiring at the information desk at the main entrance.

No written comments were received concerning the hospital facility's most recently conducted CHNA nor on the most recently adopted Implementation Strategy. A method for retaining written public comments and responses exists, but none were received.



Availability of Mental Health and Substance Abuse Services



Reduce COVID Vaccine Hesitancy



Address Issues Related to Public Transportation

IMPLEMENTATION STRATEGY

PLANNING PROCESS

The Implementation Strategy was developed through a facilitated meeting involving key administrative staff at Ferrell Hospital on December 14, 2021. The group reviewed the needs assessment process completed to that point and considered the prioritized significant needs and supporting documents. They discussed steps taken to address the previous Community Health Needs Assessment. They also considered internal and external resources potentially available to address the current prioritized needs.

The group then considered each of the prioritized needs. For each of the three categories, actions the hospital intends to take were identified, along with the anticipated impact of the actions, the resources the hospital intends to commit to the actions, and the external collaborators the hospital plans to cooperate with to address the need. The plan will be evaluated by periodic review of measurable outcome indicators in conjunction with annual review and reporting.

IMPLEMENTATION STRATEGY

The group addressed the needs with the following strategies:

- 1. The group first identified and prioritized availability of mental health and substance abuse services, including:**
 - Reducing the stigma toward mental health and substance use disorders issues and treatment**
 - Improved access to mental health and substance use care at all levels for youth**
 - Improved access to mental health and substance use care at all levels for adults**

Actions the hospital intends to take to address the health need:

- Ferrell Hospital will develop a commercial media and social media information drive, including using in-house kiosks to create awareness of stigma and its impact
- Ferrell Hospital will develop a youth-targeted campaign to address the stigma that often results in failure to seek help by youth facing substance use disorders personally or at home
- Ferrell Hospital will initiate a pain management program that will include medication assisted treatment to respond to substance use disorders
- Ferrell Hospital will explore partnerships with schools for new and expanded services for youth
- Ferrell Hospital will explore ways to partner or cooperate with the Stress and Trauma Clinic in Eldorado
- Ferrell Hospital will explore developing support groups for persons with mental health and/or substance use issues and those that care about them
- Ferrell Hospital will explore increasing counseling capabilities at all clinics
- Ferrell Hospital will expand counseling to seniors

- Ferrell Hospital will explore developing tele-mental health services for youth and adults
- Ferrell Hospital will continue to collaborate with public health agencies to develop mental health mitigations

Anticipated impacts of these actions:

The mental health and substance use issues facing the Ferrell Hospital service area are complex and many, as in much of rural Illinois. Ferrell Hospital believes that the steps chosen for the current strategy will reduce those issues through a multi-pronged approach on many fronts.

Programs and resources the hospital plans to commit to address health need:

- Administration
- Marketing
- Medical staff
- Practice managers
- Clinics

Planned collaboration between the hospital and other facilities:

- Public health
- Schools
- Independent providers
- Deaconess Health System

2. The group next prioritized the need to reduce COVID vaccine hesitancy

Actions the hospital intends to take to address the health need:

- Ferrell Hospital will continue education efforts on vaccinations and COVID prevention in general

Anticipated impacts of these actions:

Ferrell Hospital has been working with public health, schools, and community leaders since COVID began to encourage the public to follow all recommendations from the CDC and IDPH and will continue those campaigns with the expectation that compliance will continue to grow.

Programs and resources the hospital plans to commit to address health need:

- Marketing
- Practice managers
- Infection control

Planned collaboration between the hospital and other facilities:

- Public health
- Schools
- Community leaders

3. The third prioritized need was to address awareness, stigma, and flexibility issues related to public transportation

Actions the hospital intends to take to address the health need:

- Ferrell Hospital will attempt to address portions of this issue by continuing to increase the availability of local medical services, thereby reducing the need for transportation out-of-the-area for care
- While widescale general public transportation is beyond the role and expertise of a critical access hospital, Ferrell Hospital stands ready to reasonably assist any agency or organization that determines to attempt to resolve the issues of awareness, stigma, and flexibility related to transportation needs
- Ferrell Hospital believes that the condition of the local economy is, in part, responsible for the overall picture of public transportation in the area. Economic conditions, including decline in employment opportunities and related impacts have reduced stability of circumstances that impact public transportation – from the necessity for many to travel beyond the local area for work and other needs – and the population itself. Ferrell Hospital is committed to offering appropriate and reasonable support to efforts of local governments, chambers of commerce, and others to address economic issues and social determinants of health, including broadband.

Anticipated impacts of these actions:

Ferrell Hospital anticipates that addressing economic development concerns will help to resolve the issues underlying the needs related to public transportation and thereby, reduce the needs.

Programs and resources the hospital plans to commit to address health need:

- Administration
- Marketing

Planned collaboration between the hospital and other facilities:

- Local government leaders
- Chambers of commerce



Focus Groups



Administration



Organizations



Business

REFERENCES AND APPENDIX

Community Members – Focus Group One

Ryan Hobbs, Eldorado Unit 4 Superintendent

Dr. Jonah Rice, Southeastern Illinois College President

Gene Morris, First Southern Bank and Ferrell Hospital Board Member

Jeffery Drake, RIDES Mass Transit

Hospital Department Managers – Focus Group Two

Jodie Smith, PFS Director

Vickie Lindstrom, McLeansboro Family Medicine Clinic Practice Manager

Ellen Culp, Ferrell Hospital Specialty Clinic Practice Manager

Kristin Parks, Ferrell Hospital Family Practice Clinic, Practice Manager

Dirk Morgan, CFO, Ferrell Hospital

Jennifer Brinkley, Infection Control

Barbie Moore, Quality/Risk Management Director

Jessica Carter, Director of Nursing Services

Matt Militoni, Carmi Family Medicine Clinic Practice Manager

Kendra McHugh, Eldorado Family Medicine Clinic Practice Manager

Medical Providers and Professionals – Focus Group Three

Dr. Nate Oldham

Dr. Joey Jackson

Dr. Caleb Mitchell

Dr. Janna Pathi

Wes Henson, NP

Katie Jackson, PA

Debbie Davis, NP

Susan Sigler, NP

Alisa Coleman, CEO, Ferrell Hospital

Caleigh Bruce, CCO and Director of Human Resources, Ferrell Hospital

Lacey Harms, Senior Business Development Coordinator, Ferrell Hospital

Identification and Prioritization Group

Ryan Hobbs, Eldorado Unit 4 Superintendent

Holly Frymire, Egyptian Health Department

Leslie Ferrell, NP, Harrisburg Family Medicine

Mike Davenport, NP, McLeansboro Family Medicine

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