



Community Health Needs Assessment

CHI Health Schuyler – Schuyler, NE
2022



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Executive Summary

CHNA Purpose Statement

The purpose of this community health needs assessment (CHNA) is to identify and prioritize significant health needs of the community served by CHI Health Schuyler. The priorities identified in this report help to guide the hospital's community health improvement programs and community benefit activities, as well as its collaborative efforts with other organizations that share a mission to improve health. This CHNA report meets requirements of the Patient Protection and Affordable Care Act that not-for-profit hospitals conduct a community health needs assessment at least once every three years.

CommonSpirit Health Commitment and Mission Statement

The hospital's dedication to engaging with the community, assessing priority needs, and helping to address them with community health program activities is in keeping with its mission. As CommonSpirit Health, we make the healing presence of God known in our world by improving the health of the people we serve, especially those who are vulnerable, while we advance social justice for all.

CHI Health Overview

CHI Health is a regional health network consisting of 28 hospitals and two stand-alone behavioral health facilities in Nebraska, North Dakota, Minnesota, and Western Iowa. Our mission calls us to create healthier communities and we know that the health of a community is impacted beyond the services provided within our walls. This is why we are compelled, beyond providing excellent health care, to work with neighbors, leaders, and partner organizations to improve community health. The following CHNA was completed with our community partners and residents in order to ensure we identify the top health needs impacting our community, leverage resources to improve these health needs, and drive impactful work through evidence-informed strategies.

CHI Health Schuyler Overview

CHI Health Schuyler is a critical access hospital serving the communities of Schuyler, Clarkson, Howells, Leigh, and the residents of rural Colfax County in Nebraska. In addition to its 25 critical access beds, CHI Health Schuyler offers a wide variety of services to the residents of Colfax County. Services include 24 hour emergency services, inpatient medical and surgical care, outpatient observation, outpatient surgical, and skilled services, which are provided locally for patients of all ages.

CHNA Collaborators

- East Central District Health Department (ECDHD)
- Nebraska Association of Local Health Departments
- Columbus Community Hospital
- Boone County Health Center
- Genoa Community Hospital
- Good Neighbor Community Health Center

Community Definition

For the purposes of the CHI Health Schuyler CHNA, the primary service area was defined as Colfax County, Nebraska. As a critical access hospital, the CHNA service area is defined as the county in which the hospital is located. Patients from the zipcodes 68661 and 68601 represent over 75% of the patient population in FY20. The portion of the zipcodes that fall outside Colfax County is largely served by other healthcare organizations.

Assessment Process and Methods

A joint CHNA was conducted by the ECDHD, in partnership with CHI Health for the counties comprising the East Central District (ECD) - Boone, Colfax, Nance, and Platte. Primary and secondary data were collected, analyzed, and interpreted to derive health priorities for CHI Health and community partners to collectively address over the next three years. A number of data sources were used for benchmarking data in order to analyze trends and ECDHD gained community input through surveys, focus groups, and numerous community meetings, which included members of populations disproportionately impacted by the health needs. From this comprehensive assessment, seven top health needs were identified for Colfax County. CHI Health Schuyler will work with internal teams and external partners to further prioritize the community health needs identified in the CHNA, dedicate resources and implement impactful activities with measurable outcomes through the implementation strategy plan (ISP) to be published in July 2021.

Process and Criteria to Identify and Prioritize Significant Health Needs

ECDHD convened individuals from organizations representing healthcare (including CHI Health Schuyler and other health systems), public health, mental health and education; and agencies providing service to the following populations: aging, low- income and individuals with disabilities throughout the CHNA process. A full list of organizations represented can be found in the “Community Health Needs Assessment Process and Methods” section of the report. On November 3, 2021, the ECDHD and NALHD shared primary and secondary data from the CHNA process and Platte and Colfax County representatives voted to prioritize *Improve Community Health* and *Creative Innovative, Affordable Housing* as the ECD’s CHIP priorities. CHI Health Schuyler convened an additional Colfax County community meeting on December 15, 2021 to validate the CHIP priorities and consider community specific health needs. Meeting attendees were asked to consider the following criteria in their review of the data:

- severity of the health issue
- population impacted (making special consideration to disparities and vulnerable populations)
- trends in the data
- existing partnerships
- available resources
- hospital’s level of expertise
- existing initiatives (or lack thereof)
- potential for impact
- community’s interest in the hospital engaging in that health area

Through two Colfax County specific meetings, the following needs were identified as the most significant needs in Colfax County.

Prioritized Significant Health Needs

- **Access to Care:** 17.8% of the total Colfax County population and 10.1% of the under 18 population are uninsured. Nearly 1 in 5 adults in the ECDHD do not have a personal doctor or health care provider and over 1 in 10 adults needed to see a doctor, but could not due to cost.
- **Behavioral Health (includes mental health and substance abuse):** Mental Health was the leading concern across the district shared by survey respondents. According to the 2018 Nebraska Youth Risk Behavior Survey (YRBS), on average, 1 of 3 ECDHD youth reported feeling depressed and over 1 out of every 6 youth considered attempting suicide.
- **Cancer:** Cancer is a leading cause of death in the East Central District and across the state. Four of the most common cancers are breast, colorectal, lung, and prostate.
- **Chronic Disease:** Colfax County was the only county within the ECD that experienced higher death rates from diabetes than the state (23 and 23.7 per 100,000 population, respectively). Across all counties within the ECD, Colfax County suffered higher death rates from chronic diseases than the state.
- **Maternal and Child Health:** The teen birth rate in Colfax County was almost two times the rate of other counties in the ECD and higher than the state rate (an average of 25 and 21, respectively).
- **Social Determinants of Health:** In Colfax County, 58.1% of students are eligible for free and reduced lunch. Non-citizens make up 22% of the population in Colfax County and the population aged 16-19 not in school and not employed in the county is 16.93%.
- **Violence/ Injury:** While all counties within the ECDHD experienced higher death rates from unintentional injuries/accidents, Colfax and Nance counties experienced over two times as many deaths as the state (80, 89.4 and 37.2 per 100,000 population, respectively).

Resources Potentially Available

In addition to the services provided by CHI Health Schuyler, there are a number of assets and resources working to address the identified significant health needs in Colfax County. The health district has a number of community assets and resources that are potentially available to address significant health needs. The district offers a wide range of community organizations and coalitions that support the health and well-being of the community including, but not limited to, Community and Family Partnership, Columbus Area United Way, and East Central District Health Department.

Report Adoption, Availability, and Comments

This CHNA report was adopted by the CHI Health Board of Directors in April 2022. The report is widely available to the public on the hospital's website, and a paper copy is available for inspection upon request at CHI Health Schuyler. Written comments on this report can be submitted via mail to CHI Health, The McAuley Fogelstrom Center (12809 W. Dodge Rd., Omaha, NE 68154 attn. Healthy Communities); electronically at: <https://forms.gle/KGRq62swNdQyAehX8> or by calling Kelly Nielsen, Division Vice President of Strategy and Healthy Communities, at: (402) 343-4548.

Introduction

Hospital Description

CHI Health Schuyler is a critical access hospital serving the communities of Schuyler, Clarkson, Howells, Leigh, and the residents of rural Colfax County in Nebraska. In addition to its 25 critical access beds, CHI Health Schuyler offers a wide variety of services to the residents of Colfax County. Services include 24-hour emergency services, inpatient medical and surgical care, outpatient observation, outpatient surgical and skilled services, which are provided locally for patients of all ages.

A full complement of outpatient diagnostic and therapeutic services are also available, such as laboratory, radiology, physical therapy, occupational therapy, sleep studies and cardiac rehabilitation. Home Care professional services and Durable Medical Equipment are also provided locally by CHI Health. Outpatient specialty physicians supplement the local medical staff by providing specialty clinics such as:

- Cardiology
- Gastrointestinal
- General surgery
- Gynecology
- Podiatry
- Tele-endocrinology
- Tele-psychiatry

Purpose and Goals of CHNA

CHI Health and our local hospitals make significant investments each year in our local communities to ensure we meet our Mission of creating healthier communities. A Community Health Needs Assessment (CHNA) is a critical piece of this work to ensure we are appropriately and effectively working and partnering in our communities. The goals of this CHNA are to:

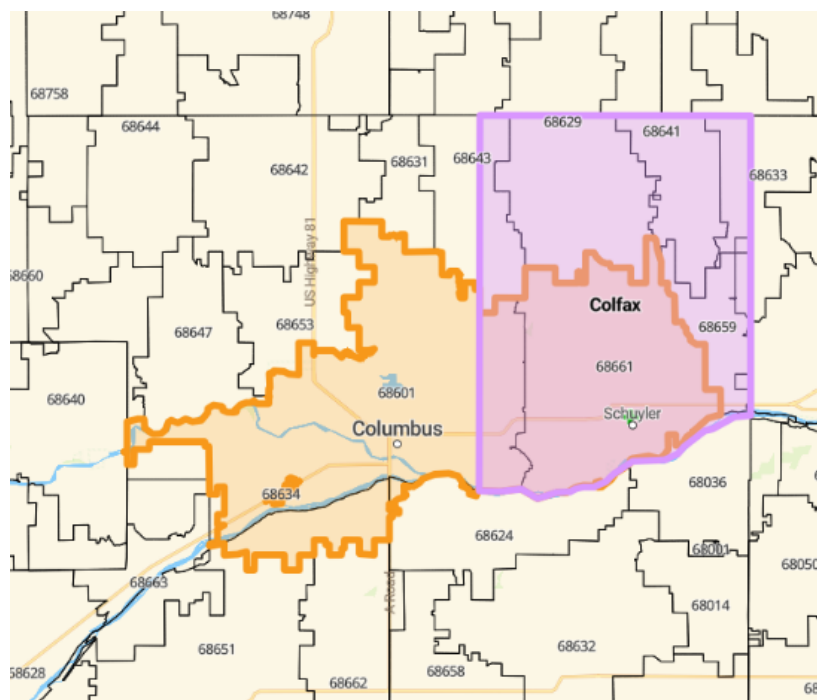
1. Identify areas of high need that impact the health and quality of life of residents in the communities served by CHI Health
2. Ensure that resources are leveraged to improve the health of the most vulnerable members of our community and to reduce existing health disparities
3. Set priorities and goals to improve these high need areas using evidence as a guide for decision-making.
4. Ensure compliance with section 501(r) of the Internal Revenue Code for not-for-profit hospitals under the requirements of the Affordable Care Act.

Community Description

Community Definition

CHI Health Schuyler is located in Schuyler, NE and largely serves the Colfax County area. As a critical access hospital, the CHNA service area for CHI Health Schuyler was determined to be the county in which it resides, Colfax County. Some data charts will show other counties in the East Central District, as data was compiled for all ECDHD, but for this CHNA, Colfax County is the community being served by CHI Health Schuyler. See Figure 1 below for a map of the CHNA service area (purple) and CHI Health Schuyler’s Primary Service Area. There are two zipcodes that are represented by 76.6% of IP/ED discharges in FY20: 68661 and 68601 (orange). The zipcode region that falls outside of Colfax County is largely served by other healthcare organizations.

Figure 1: CHI Health Schuyler CHNA and Primary Service Areas¹



Population

Table 1 below describes population demographics for Schuyler, NE, with relative comparisons for Colfax County, NE, the State of Nebraska, and the United States. Schuyler is the most populated city and the county seat in Colfax County. The data shows a largely diverse population with 74% of Schuyler residents identifying as Hispanic or Latino. Colfax County is similarly diverse, but to a lesser degree with 46% of residents identifying as Hispanic or Latino and 48% identifying as White alone, not Hispanic or Latino compared to 11.4% Hispanic or Latino for the state of Nebraska overall.²

¹ PolicyMap. 2022. Accessed March 2022. PolicyMap Map retrieved from <https://commonspirit.policymap.com/>

² Census Bureau Quick Facts. Accessed April 2020. Retrieved from <https://www.census.gov/quickfacts/fact/table/NE,US/PST045221>

Table 1. Community Demographics³

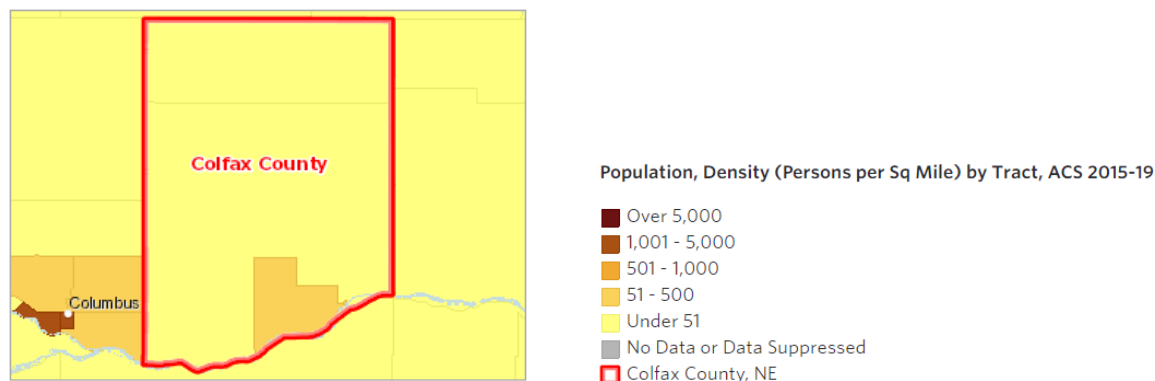
	Schuyler, NE	Colfax County	Nebraska	United States
Total Population (2020)²	6,547	10,582	1,961,504	331,449,281
Population per square mile (density)*	2,405.4	25.5	23.8	87.4
Total Land Area (sq. miles)^{*3}	2.58	411.66	76,824.17	3,531,905.43
Rural vs. Urban (2010)^{*3}	N/A	Rural (40.51% live in rural)	Urban (73.13% live in urban)	Urban (80.89% live in urban)
Age				
% below 18 years of age	35.2%	29.5%	24.6%	22.3%
% 65 and older	8.0%	13.8%	16.2%	16.5%
Gender				
% Female	42.6%	46.5%	50%	50.8%
Race				
% White alone	69%	87.6%	88.1%	76.3%
% Black or African American alone	6.1%	5.8%	5.2%	13.4%
% American Indian and Alaskan Native alone	1.7%	3.5%	1.5%	1.3%
% Asian alone	0%	1.3%	2.7%	5.9%
% Native Hawaiian/Other Pacific Islander alone	0%	0.5%	0.1%	0.2%
% Two or More Races	14.1%	1.2%	2.3%	2.8%
% Hispanic or Latino	74.1%	45.7%	11.4%	18.5%
% White alone, not Hispanic or Latino	19%	47.7%	78.2%	60.1%

*For Schuyler, NE and Colfax County, the population per square mile and the total land area are based on the 2010 Decennial Census data, as is the percentage of the geography that is classified as rural for each locality.

Figure 2 shows the urban population breakdown for Colfax County. Schuyler is the most urban area of the county; between 90.1% and 99.9% of the geography of Schuyler is characterized as urban.³

³ US Census Bureau, *American Community Survey*. 2015-19. Source geography: Tract. Assessed February 2022. Retrieved from https://engagementnetwork.org/assessment/chna_report/

Figure 2: Urban Population for Colfax County



Socioeconomic Factors

Table 2 shows key socioeconomic factors known to influence health including household income, poverty, unemployment rates, and educational attainment for the community served by the hospital. Colfax County has a significantly lower percentage of residents 25+ years with a Bachelor’s Degree or higher, when compared to Nebraska and the United States.⁴ The median household income in Colfax County (\$58,872) is lower than the state of Nebraska (\$61,439).² The rate of poverty in Colfax County (8.2%) is consistent with the state average (9.2%) and lower than Schuyler (13.8%), as is unemployment (Colfax: 1.0%, Nebraska: 1.3%).^{3,5} Colfax County has higher percentages of uninsured individuals and children.³

⁴ US Department of Education, EDFacts. Additional data analysis by CARES. 2018-19. Source geography: School District. Accessed February 2022. Retrieved from https://engagementnetwork.org/assessment/chna_report/

⁵ Bureau of Labor Statistics. 2022. Accessed February 2022. Source geography: County. Retrieved from: CARES Engagement Network. https://engagementnetwork.org/assessment/chna_report/

Table 2. Socioeconomic Factors*

	Colfax County	Nebraska	United States
Income Rates²			
Median Household Income (in 2019 dollars), 2015-2019	\$58,872	\$61,439	\$62,843
Poverty Rates³			
Persons in Poverty (Below 100% FPL)	8.2%	9.2%	11.4%
Employment Rate⁵			
Unemployment Rate (as of December 2021)	1.0%	1.3%	3.7%
Education/Graduation Rates⁴			
High School Graduation Rates**	76.8%	87.6%	87.7%
Population Age 25+ with Bachelor’s Degree or Higher (percentage) ¹	15.4%	31.9%	32.2%
Insurance Coverage³			
% of Persons without Health Insurance (under 65)	17.8%	8.2%	10.2%
% of Uninsured Children (under the age of 18)	10.1%	6.3%	6.1%

*Data only available at the county level, not city level

**The adjusted cohort graduation rate (ACGR) is a graduation metric that follows a “cohort” of first-time 9th graders in a particular school year, and adjust this number by adding any students who transfer into the cohort after 9th grade and subtracting any students who transfer out, emigrate to another country, or pass away. The ACGR is the percentage of the students in this cohort who graduate within four years.

Colfax County is designated a Health Professional Shortage Area in the following areas: Primary Care, Dental Health, and Mental Health with HPSA scores 8, 19, and 19, respectively. The score ranges from 0-26 where the higher the score, the greater the priority.⁶ Colfax County is considered a Medically Underserved Area in Primary Care with an Index of Medical Underserved Score of 60.7 (to qualify for this designation, the score must be below or equal to 62.0 on a scale of 0 -100 with 100 being the lowest need).⁷

Community Needs Index⁸

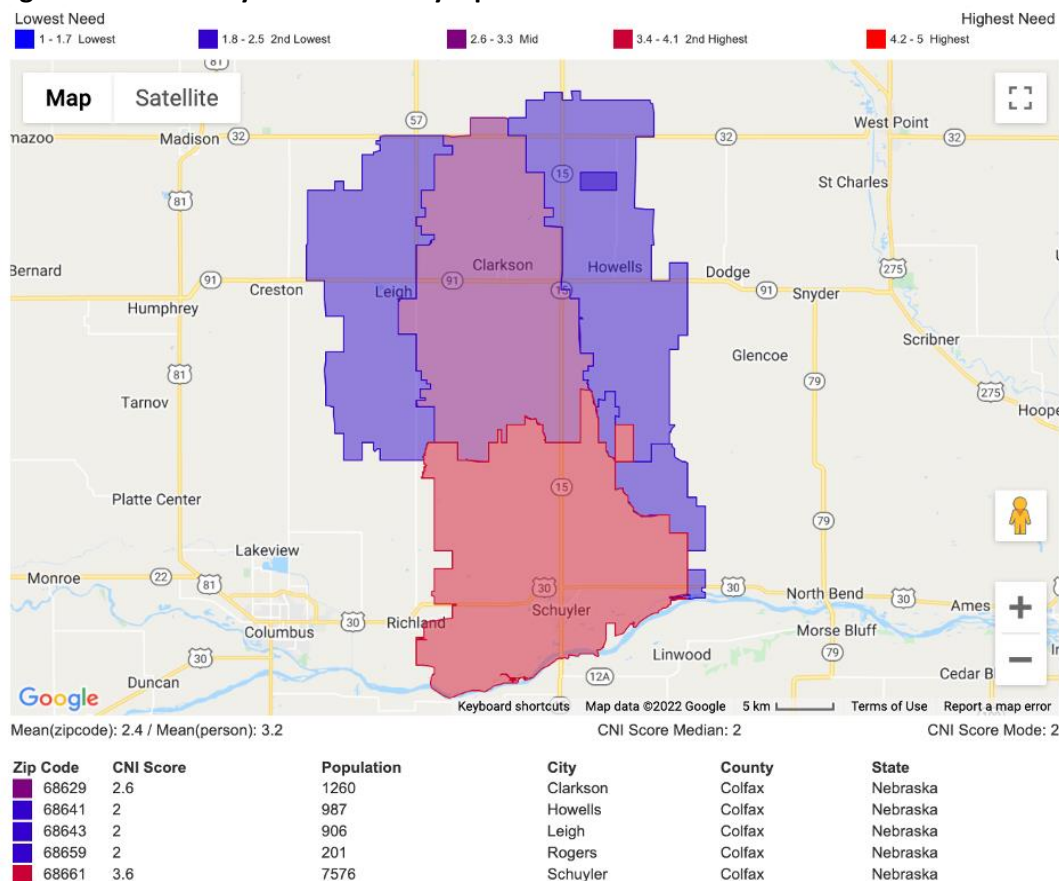
One tool used to assess health needs is the Community Need Index (CNI). The CNI analyzes data at the zipcode level on five factors known to contribute or be barriers to healthcare access: income, culture/language, education, housing status, and insurance coverage. Scores from 1.0 (lowest barriers) to 5.0 (highest barriers) for each factor are averaged to calculate a CNI score for each zipcode in the community. Research has shown that communities with the highest CNI scores experience twice the rate of hospital admissions for ambulatory care sensitive conditions as those with the lowest scores. Colfax County has an overall mean zipcode score of 2.4 on the scale. There is one zipcode (68629) that has a score in the mid-level of need. This mid-level is anywhere between 2.6 and 3.3. Colfax’s County’s overall mean zipcode score is 2.4 with one zipcode in the second highest level of need which is considered anywhere between 3.4 to 4.1 (68661).

⁶ HRSA Bureau of Health Workers, HPSA. 2022. Accessed March 2022. Retrieved from HPSA Find <https://data.hrsa.gov/tools/shortage-area/hpsa-find>.

⁷ HRSA Bureau of Health Workforce, MUA. 2022. Accessed March 2022. Retrieved from MUA Find <https://data.hrsa.gov/tools/shortage-area/mua-find>.

⁸ Truven Health Analytics, 2021; Insurance Coverage Estimates, 2021; The Nielson Company, 2021; and Community Need Index, 2021. Retrieved from <http://cni.dignityhealth.org/>

Figure 3: Community Needs Index by Zipcode



Unique Community Characteristics

Manufacturing is the largest industry in Schuyler, followed by agriculture and retail trade. Schuyler’s single largest employer is Cargill beef-processing plant that employs approximately 2,150 employees and is located on the western edge of the city. 45.5% of Colfax County youth over the age of five speak a language other than English at home.⁹

Other Health Services

CHI Health Schuyler is the primary provider of health services within Colfax County, providing inpatient and outpatient services at CHI Health Schuyler and primary medical clinic services at three locations within Colfax County: CHI Health Schuyler Clinic, CHI Health Clarkson Clinic, and CHI Health Howells Clinic. Marathon Health provides primary care at Cargill’s Schuyler location to employees and their families.

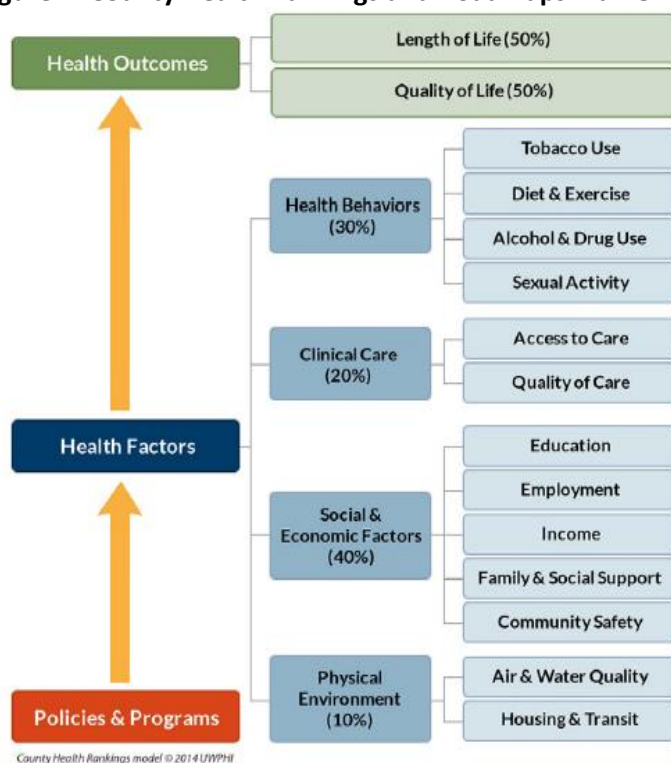
⁹ U.S. Census Bureau. American Community Survey 5- Year Estimates. 2015- 2019. Accessed March 2022. Retrieved from: Data USA. <https://datausa.io/profile/geo/schuyler-ne>

Community Health Needs Assessment (CHNA) Process and Methods

Under the direction of the ECDHD, the *2021 East Central District Comprehensive Community Health Needs Assessment (2021 ECD CHNA)* was completed for the four counties in the East Central District (ECD) (Boone, Colfax, Nance, and Platte Counties in Nebraska). This assessment was conducted in partnership with multiple agencies within the district and is the basis for the Community Health Improvement Plan (CHIP). Five of the main partners who take the lead role in providing healthcare for the communities within ECDHD region and play an important role in the development of this assessment include: Boone County Health Center, CHI Health Schuyler, Columbus Community Hospital, Genoa Medical Facilities, and Good Neighbor Community Health Center. It is the goal of the *2021 ECD CHNA* to describe the health status of the population, identify areas for health improvement, determine factors that contribute to health issues, and identify assets and resources that can be mobilized to address public health improvement.

The *2021 ECD CHNA* report focuses on the Community Health Status Assessment portion of ECDHD's CHA. Data were gathered from secondary sources such as County Health Rankings, a source of secondary data compiled from a variety of national and state data sources, such as Behavioral Risk Factor Surveillance System (BRFSS), Centers for Disease Control and Prevention databases, National Center for Health Statistics, USDA Food Environment Atlas, and US Census. County Health Rankings and Roadmaps (CHRR) is a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin that provides reliable county-level data and evidence to communities to help them identify opportunities to improve their health. The CHRR model (Figure 4) was used as the lens for the community health status assessment. The assessment identifies leading causes and emerging issues that impact community health and quality of life, including the leading causes of mortality and morbidity, the general health status of community members, disparities in health outcomes, the access and availability of behavioral and health care, etc.

Figure 4: County Health Rankings and Roadmaps Framework



The 2021 ECDHD CHNA process and report have a health equity focus. Rurality is associated with a number of negative health outcomes, specifically higher premature mortality rates, infant mortality rates, and age-adjusted death rates. Rurality is also associated with a number of negative health behaviors that contribute to chronic disease and death, such as unhealthy diets and limitations in meeting moderate or vigorous physical activity recommendations. The data in the 2021 ECD CHNA paint a stark picture of health disparities given one factor, geography. Additionally, it is important to understand that there are disparities related to race and ethnicity independent from geography, and there are disparities related to geography independent from race and ethnicity. When disparities from independent factors overlap, such as race/ethnicity overlapping with geography, the result is a dual disparity resulting in some of the poorest health statuses seen in the nation. Literacy and primary language must be considered in all health contexts. It is estimated that only 1 in 10 American adults have the skills needed to use health information that is routinely available in health care facilities, retail outlets, and the media.¹⁰ “Being able to read does not necessarily mean one will be health literate, however, the lack of basic literacy skills does mean that patients almost certainly will have difficulty reading and understanding basic health information.”¹¹ Basic literacy and health literacy levels are also factors associated with health disparities. Language barriers also contribute to health disparities and exacerbate difficulties understanding and acting on health information.¹² The ECDHD district is home to multiple immigrant populations and second-language English speakers with concentrations from Mexico, Central

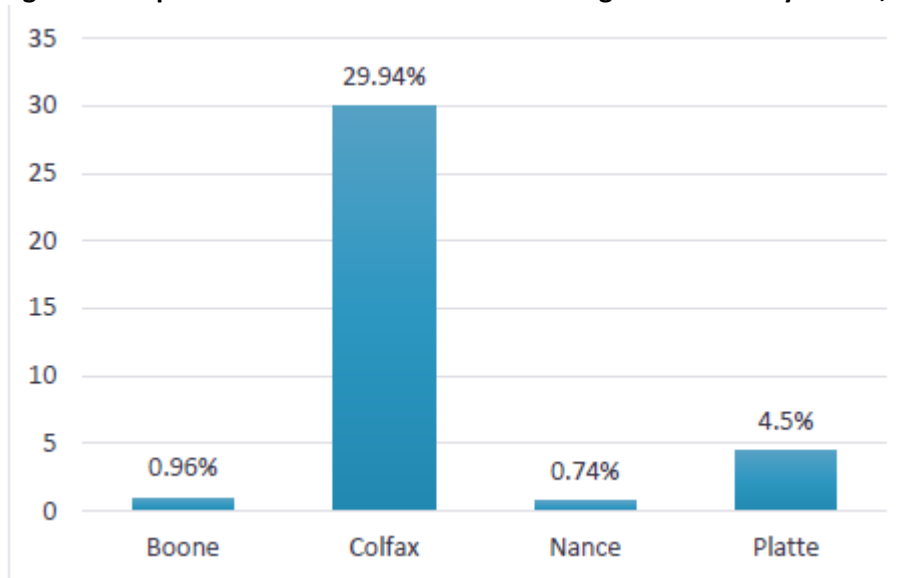
¹⁰ US Dept of Education. National Center for Health Statistics. (2006). The health literacy of America’s adults: Results from the 2003 national assessment of adult literacy.

¹¹ Indian Health Service Health Literacy Workgroup. (2017, July 17). Indian Health Service: White Paper on Health Literacy. Page 2.

¹² USDHHS, Office of Minority Health. 2019. Profile: Hispanic/Latino Americans.

America, Guatemalan, Africa, and Myanmar (Karenni), as well as smaller populations from other areas. Figure 5 summarizes the percent of residents with limited English proficiency in the ECD. Colfax County has significantly more residents with limited English proficiency than the other counties in the district.

Figure 5: Proportion of Residents with Limited English Proficiency in ECD, by County¹³



The assessment gathered data from secondary sources to assess the health status of the ECDHD region to identify emerging issues and trends, when possible, and to gauge big changes from the previous Community Health Improvement Plan priorities. Additionally, this community health status assessment uses the responses to the community health survey, designed by ECDHD and distributed across the ECDHD region, to determine Community Themes and Strengths. The survey assessed community members’ perceptions of important health issues, including wellbeing and quality of life. This survey was available in English and Spanish and was distributed through ECDHD and their partners. To promote access to the survey, ECDHD posted the survey link on the ECDHD website and Facebook pages and made it available in print.

Table 3. Frequently Cited Data Sources in 2021 ECDHD Community Health Needs Assessment

Data Source	Description
Nebraska Behavioral Risk Factor Surveillance System (NBRFSS)	A comprehensive, annual health survey of adults aged 18 and older on risk factors for many areas impacting public health. This survey was most recently conducted in 2020, though some items are not asked every year. Items from previous years are cited with the latest year for which data is available.
ECDHD Community Health Survey	A community survey conducted by the ECDHD in 2021 around issues such as health concerns, health risk factors, perceived quality of life, access to medical care, and community well-being.
Nebraska Crime Commission	Annual counts on arrests (adult and juvenile) by type.

¹³ US Census Bureau, American Community Survey, 2013-2017. Retrieved from https://engagementnetwork.org/assessment/chna_report/

Data Source	Description
Nebraska Department of Education (NDE)	Data contained in Nebraska's annual State of the Schools Report, including graduation and dropout rates, student characteristics, and student achievement scores.
Nebraska Department of Health and Human Services (DHHS)	A wide array of data around births, causes of mortality, causes of hospitalization, access to social programs, child abuse and neglect, health professionals, and cancer, among other areas.
Nebraska Risk and Protective Factor Student Survey (NRPFS)	A survey of Nebraska youth in grades 8, 10, and 12 on risk and protective factors regarding alcohol, tobacco, and drug use, and bullying, most recently published in 2018.
Youth Risk Behavior Survey (YRBS)	A public health survey of youth grades 9 through 12. The ECD conducted oversamples of YRBS in 2001, 2010, and 2016. Data analysis include mental health, obesity, physical activity, and sexual activity.
U.S. Census Bureau - American Community Survey (ACS)	U.S. Census Bureau estimates on demographic elements such as population, age, race/ethnicity, household income, poverty, health insurance, and educational attainment. Annual estimates available through the ACS (2015-2019) were used for this report.

The *2021 ECD CHNA* report contains five primary sections: Population Characteristics, Health Issues Overview, Health Outcomes, Healthcare Access and Utilization, and Community Themes and Strengths. Population Characteristics provides a district overview including population demographics, race and ethnicity, median age, and county quick facts. The Health Issue overview includes details related to socio-economic status. The Health Outcomes section makes up the majority of the report and details a number of health indicators related to general health, substance use disorders and maternal and perinatal outcomes. Healthcare Access and Utilization details insurance coverage, providers throughout the region, health care assets and barriers and preventive screening rates. Community Themes and Strengths provides an overview of the learnings from the district wide Community Survey. The full text of the report can be downloaded at <https://ecdhd.ne.gov/> and found in Appendix A of this report.

Community Health Survey 2021

Over 250 individuals (Table 4) throughout the four-county area of the ECD participated in the Community Health Survey in 2021 as part of the Community Themes and Strengths Assessment. The survey was made of Likert-scale, ranking, and open-ended questions. The goal of the survey was to assess the communities' perception regarding issues that are important to their health and wellbeing and the quality of life in their communities. Issues related to mental health were chosen by respondents as the most important health issues in their communities.

Table 4: Community Health Survey Respondent Demographics

		ECDHD Overall Population (US Census, 2019 5-year)	ECDHD Survey Respondents	
Gender	Female	49%	81%	210
	Male	51%	16%	41
	No Response	-	3%	8
Age	Under 19		0.3%	1
	20-29		9%	23
	30-39		27%	71
	40-49		20%	53
	50-64		30%	77
	65-74		10%	26
	75+		1%	3
	No Response		2%	4
Household Income	Less than \$25,000		3%	8
	\$25,000 - \$34,999		4%	11
	\$35,000 - \$49,999		12%	32
	\$50,000 – \$74,999		20%	53
	\$75,000 - \$99,999		20%	52
	\$100,000 +		39%	101
	No Response		0.7%	2
Education Level	Less than a high school diploma		0.3%	1
	High school graduate or GED		6%	15
	Some college, no degree		12%	30
	Trade or technical degree		5%	13
	Associates degree		15%	38
	Bachelor's degree		33%	85
	Graduate or professional degree (example: PhD, MD, JD)		29%	75
No Response	-	0.7%	2	
Hispanic/Latino	Yes	18%	4%	10
	No	82%	96%	249
	No Response	-	0%	0
Race	American Indian or Alaska Native	1%	0.3%	1
	Asian	1%	0%	0
	Black/African American	2%	0%	0
	Two or more races	1%	0%	0
	White	94%	98%	254
	Other	-	2%	4
	No response	-	0%	0

Timeline

The 2021 *ECD CHNA* was facilitated by ECDHD and NALHD, utilizing both primary and secondary data, in partnership with CHI Health Schuyler and other community organizations. The process took approximately twelve months to complete. Primary data included findings from the Community Survey and Focus Groups and secondary data consisted of public health, vital statistics, and other data collection. ECDHD conducted the Community Health Survey in 2021 and the resulting report was released in the same year. A wide variety of community agencies and organizations were represented and participated in the project discussion, planning, and design process.

Public Health, Vital Statistics, & Other Data

A comprehensive examination of existing secondary data was completed during the CHNA process for Colfax County. A list of sources can be found in the 2021 ECDHD CHNA in Appendix A. For benchmarking data in order to analyze trends, the following data sources were used: previous ECDHD Community Health Surveys, Behavioral Risk Factor Data, Nationwide Risk Factor Data, Nebraska Crime Commission, Nebraska Department of Education, Nebraska Department of Health and Human Services, Nebraska Risk and Protective Factors Student Surveys, and U.S. Census/American Community Survey.

Community Focus Groups

As part of the Community Themes and Strengths Assessment, a total of four community focus groups were conducted throughout the East Central District, with three having representation from Colfax County. Focus group participants reviewed data from the community health survey, such as top five concerns in the community and top five behaviors that have a negative impact on community health. The ECDHD shared Platte and Colfax County results together and they are detailed in the Assessment Data and Findings section of this report.

Table 5: Colfax County Focus Group Characteristics

Date	Counties	Number of Participants	Participant's Gender	Time of Day
February 10, 2021	Platte and Colfax	8	2 Men 6 Women	12-1PM CST
February 10, 2021	Platte and Colfax	5	1 Man 4 Women	6-7PM CST
February 19, 2021	Boone and Nance	3	1 Man 2 Women	3-4PM CST
February 19, 2021	Platte and Colfax	3	1 Man 2 Women	4-5PM CST

CHIP sessions were held in October and November 2021 in all four counties in the ECDHD jurisdiction. Through the CHIP sessions, ECDHD was able to connect with community organizations and members in each county to address health issues of interest in their county. During these meetings, local health data and topics were discussed and prioritized. Areas of interest included many topics, from social determinants of health, to chronic diseases, mental health, and environmental health. Discussing these health issues within the community provided an opportunity to share resources and brainstorm what actions could be put in place to help the public live healthier, happier lives. CHIP planning not only helps identify the issues impacting health in ECDHD communities, it helps stakeholders work together to construct a positive framework for addressing the challenges, by sharing ideas and resources within the communities themselves.

CHI Health Schuyler will consider the outcomes of Colfax County Community Health Improvement Plan (CHIP) meetings during implementation strategy planning. The CHIP meetings held to date included brainstorming sessions with community stakeholders to review data, evaluating the impact of current strategies, prioritizing community health needs, and identifying opportunities and partnerships for future efforts. The ECDHD hosted a combined Platte/Colfax County meeting in November 2021 and to further validate the needs of Colfax County specifically, CHI

Health Schuyler hosted an additional meeting on December 15, 2021. Participating stakeholders represented low-income, minority populations, medically underserved populations, violence in the community, and the aging population. See Table 6 for a list of organizations providing input at the CHIP meetings.

Table 6: Organizational Representation at CHNA/CHIP Meetings

CHNA/CHIP Meetings	
November 3, 2021	December 15, 2021
East Central District Health Department	East Central District Health Department
CHI Health	CHI Health
CHI Health Schuyler	CHI Health Schuyler
Columbus Community Hospital	Columbus Area United Way
Columbus Area United Way	Schuyler Community Schools
Sixpence	Pinnacle Bank
Good Life Counseling	City of Schuyler
Center for Survivors	Colfax County Commissioner
Schuyler Community Development	Community and Family Partnership
Platte County Lifestyle Coalition	
Community and Family Partnership	

Written Comments Received

CHI Health Schuyler invited written comments on the most recent CHNA report and Implementation Strategy both in the documents and on the website where they are widely available to the public. No written comments have been received.

Assessment Data & Findings

Community Health Survey Results

Figure 6 shows the top five health concerns for the entire East Central District (ECD). Mental health was the top concern, followed by bullying/cyberbullying, and drug misuse/abuse.

Figure 6. Top Five Health Concerns- ECDHD District

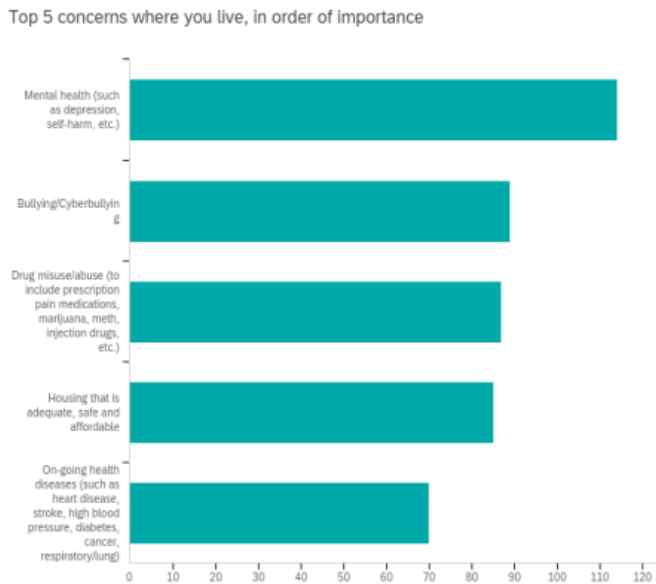
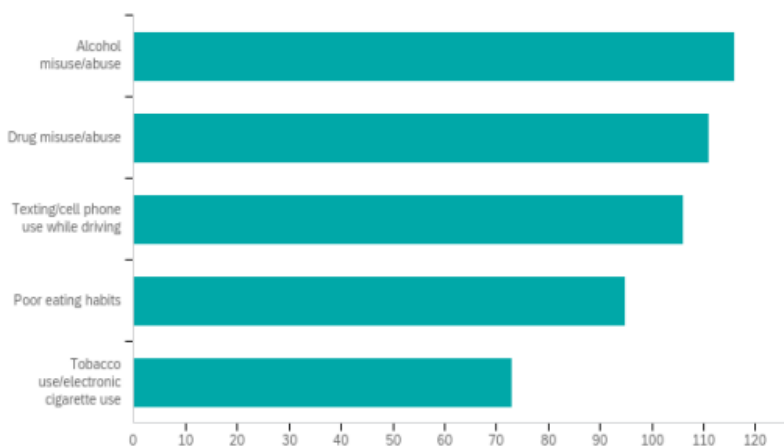


Figure 7 shows survey responses to the top five behaviors that have a negative impact on overall health, as ranked by Community Health Survey respondents in the ECD. Alcohol misuse/abuse was ranked as the top behavior, followed by drug misuse/abuse, and texting/ cell phone use while driving.

Figure 7. Top five behaviors that negatively impact overall health in the community, ECDHD District

Top 5 behaviors that have a negative impact on overall health in our community



Community Focus Group Results

Givens primarily focused on clinical care and social/economic domains. Participants shared rising concern around mental health, especially amid the pandemic, access to affordable and safe housing remains a need as demand exceeds the supply in the community, bullying/cyberbullying was an emerging concern in the data presented and noted the demographics of the survey data highlighting the need to ensure representation throughout the assessment and planning processes.

Unknowns were primarily focused on metrics and measuring the impacts of past and current strategies. There were specific discussions around bullying/cyberbullying and having a better understanding of causes and the issue as a whole, as well as food insecurity given the impact of the pandemic on employment and stability.

Strengths were primarily in the categories of clinical care, economic, and social domains. Participants cited strengths, such as healthcare providers/facilities, good sense of community and pride, local commerce, collaboration, and public/private partnerships.

Opportunities included aligning strategies of community organizations to create community plans with clear metrics, increasing health literacy and cultural competency, enhancing care through emerging technologies to decrease barriers to care, integrating care models, and implementing upstream approaches to respond to emerging needs.

Assessment Data and Findings

For a complete list of community health indicators reviewed in consideration of the Community Health Needs Assessment for CHI Health Schuyler, please refer to the *2021 East Central District Health Comprehensive Community Health Needs Assessment* in Appendix A. Data specific to the greatest identified needs in Colfax County can be found in Table 7 in the next section of this document.

Data provided by ECDHD and NALHD, was presented to CHI Health hospital administration, Community Benefit teams, and community groups for validation of needs. All parties who reviewed the data found the data to accurately represent the needs of the community.

Gaps in Information

Although the CHNA is quite comprehensive, it is not possible to measure all aspects of the community's health, nor can we represent all interests of the population. This assessment was designed to represent a comprehensive and broad look at the health of the overall community. During specific hospital implementation planning, gaps in information will be considered and other data/input brought in as needed.

Prioritization Description of Significant Community Health Needs

Prioritization Process

As described above in the sections titled, *Community Health Needs Assessment Process & Methods* and *Input from Community*, multiple layers of data and community input informed the health priorities identified for Colfax County. Findings from the *2021 East Central District Comprehensive Community Health Needs Assessment* were presented to

the Colfax County community in June 2021. In November 2021, the ECDHD held its first CHIP meeting with Platte and Colfax County representatives. Participants were given three sticky dots to vote on how the remaining four main issues should be prioritized, based upon the following criteria:

- Feasibility = Ease of change
- Values = our community cares about this, stakeholders are bought in
- Resources = Builds on current work
- Importance:
- Size = many people affected
- Seriousness = many deaths, disabilities, hospitalizations
- Trends = getting worse, not better
- Equity = some groups affected more
- Intervention = proven strategies exist

The following needs were prioritized by the group:

- Improve Community Health (21 votes)
- Create innovative, affordable housing (14 votes)
- Support Behavioral Health Outreach and Access (11 votes)
- Develop Cultural Inclusion and Opportunity (8 votes)
- Reduce Barriers to Healthy Living (3 votes)

The group was committed to working on two health areas and determined that *Improve Community Health* and *Creative Innovative, Affordable Housing* would be the top priorities to work on in the next three years. They began to develop Community Health Improvement Plans in the December 2021 meeting and will continue to convene around these issues throughout the CHIP cycle.

CHI Health Schuyler convened a meeting specifically for the Colfax Community (participants found in Table 6) to further validate and prioritize needs and participants agreed that Access to Care, Behavioral Health, and Social Determinants of Health would be the focus of the county specific work. This information was presented to the CHI Schuyler Community Benefit Action Team on January 6, 2022 and the CBAT began to determine strategies for the corresponding Implementation Strategy Plan.

Prioritization Criteria

Community health priorities were selected for Colfax County by stakeholders representing low-income, minority populations, medically underserved populations, and the aging population. Priorities were based on the following criteria:

- severity of the health issue
- population impacted (making special consideration to disparities and vulnerable populations)

- trends in the data
- existing partnerships
- available resources
- hospital’s level of expertise
- existing initiatives (or lack thereof)
- potential for impact
- community’s interest in the hospital engaging in that health area

Based upon data gathered for the Community Health Needs Assessment, the community engagement sessions, and further internal discussion, CHI Health Schuyler identified the following prioritized significant health needs for Colfax County based upon comparison to state and national data. All seven of the health needs are represented in Table 7, along with supporting data.

Table 7: Prioritized Significant Health Needs

Health Needs	Rationale
Access to Care	<ul style="list-style-type: none"> • As of 2019, 17.8% of the Colfax County population and 10.1% of the population under 18 were without health insurance (State comparison: 8.2% and 6.3%, respectively). • Across the state, nearly 1 in 2 Hispanic residents and 65% of Native Americans reported not having a personal doctor or health care provider. • Nearly 1 in 5 adults in the ECD do not have a personal doctor or health care provider and over 1 in 10 adults needed to see a doctor, but could not due to cost.
Behavioral Health (including mental health and substance abuse)	<ul style="list-style-type: none"> • Mental Health was the leading concern across the district shared by survey respondents (followed by bullying and drug misuse/abuse). • According to the County Health Rankings, the smoking rate among adults in the ECDHD region was 15%, similar to the state smoking rate; however, the smoking rate in ECD remains higher than the Healthy People 2020 target (12%). • 1 in 4 ECD adults reported texting while driving a vehicle, 2 of 3 ECD adults did not always wear a seatbelt when driving or riding in a car, and nearly 2 of 3 adults in the ECD talked on a cell phone while driving in the past 30 days. • The death rate caused by alcohol-impaired driving in the ECDHD district (32%) was similar to the state rate (34%). Colfax (45%) counties experienced higher death rates caused by alcohol-impaired driving than the state.

- In Colfax County, the average number of days that poor mental health in the past 30 days was 3.3 (NE 3.5).
- According to the Nebraska Youth Risk Behavior Survey (YRBS) 2018, on average, 1 of 3 ECD youth reported feeling depressed and over 1 of 6 youth considered attempting suicide. Approximately 1 in 4 Nebraska high school youth reported feeling depressed compared to nearly 1 in 3 youth nationwide (24.1% vs 29.9%). Female students in Nebraska had a significantly higher rate of depression (31.4% vs. 17.1%), of considering a suicide attempt (18.0% vs. 11.3%), and of making a suicide plan (17.0% vs. 9.8%) compared to male students.
- In Nebraska, suicide is the second leading cause of death for ages 15-34.
- The 2020 County Health Rankings indicated 1 in 5 adults in the ECD reported binge drinking in the past 30 days and heavy drinking in the past 30 days, which was similar to the state rate (22%).
- 66% of primary care providers report that they are unable to respond to people with behavioral health needs due to a shortage of mental health providers and to insurance barriers.
- In the ECD, there were an average of 2,875 people for every one mental health provider (range: 1310:1 to 5,440:1).
- According to the 2016 Nebraska Behavioral Health Needs Assessment, only 47% of adults in Nebraska with any mental illness received treatment.

Cancer

- Cancer is a leading cause of death in the ECD and across the state. Four of the most common cancers are breast, colorectal, lung, and prostate.
- Over 1 in 4 women ages 50-75 in ECD are not up to date on breast cancer screening.
- 1 in 6 women aged 21-65 in ECD are not up to date on cervical cancer screening.
- 1 in 3 50-75 olds in ECD are not up to date on colon cancer screening.

Chronic Disease

- Colfax County was the only county within the ECD that experienced higher death rates from diabetes than the state (23 and 23.7 per 100,000 population, respectively).
- Across all counties within the ECD, Colfax County suffered higher death rates from chronic diseases than the state, with the exception of cancer (150.3 and 154.8 per 100,000 population, respectively) and chronic lung disease (33.4 and 44.7 per 100,000 population, respectively).
- Rate of Alzheimer's Disease in Colfax County is higher at 37.5 per 100,000 compared to Nebraska (23.7).

- Proportion of people reporting poor or fair health in Colfax County is 19% compared to 14% in Nebraska.
- Obesity rates in Colfax County are the same as the state (32%).
- 29% of Colfax County has no leisure time physical activity in the past 30 days.

Maternal and Child Health

- The infant mortality rate (the number of infant deaths per 1,000 live births in the same year) in the US was 5.9 in 2016. Nebraska fairs a little bit better than the US with an infant mortality rate of 5. Infant mortality in Colfax County 8.9 infant deaths per 1,000 births.
- Births to teens age 15-19 show a stark disparity between Hispanic or Latino residents and non-Hispanic White residents. In Colfax and Platte counties, Hispanic or Latino teenagers give birth at much higher rates than non-Hispanic White teenagers.
- The teen birth rate in Colfax County was almost two times the rate of other counties in the ECD and higher than the state rate (an average of 25 and 21, respectively).

Social Determinants of Health

- The percent of severe housing problems in Colfax County (13%) is the same as the state.
- Colfax County residents have a lower percentage of “some college” (35%) and “Bachelor’s Degree” (15%) compared to the state (71% and 32%, respectively).
- While lower than the state rate, nearly 1 in 10 residents in ECD are food insecure, lacking adequate access to food. Likewise, nearly 1 in 12 low-income residents do not live close to a grocery store in the ECD making access to healthy foods challenging.
- Many residents in ECD live on gravel roads that experience this variability in the maintenance of those roads. Mass transportation is very limited throughout the ECDHD district.
- 49% of the Colfax County population ages 5 and over spoke a language other than English at home (state comparison: 11.8%).
- In Colfax County, 58.05% of students are eligible for free and reduced lunch (state: 49.63%).
- Non-citizens make up 22% of the population in Colfax County (NE: 4.4%).
- Population age 5+ with limited English proficiency in Colfax County is 32.27% (NE 5.1%).
- The social vulnerability index is a measure of the degree of social vulnerability in counties and neighborhoods across the United States,

	<p>where a higher score indicates higher vulnerability. The ECD has a social vulnerability index score of 0.52, which is greater than the state average of 0.34.</p> <ul style="list-style-type: none"> Population aged 16-19 not in school and not employed in Colfax County is 16.93% (NE: 4.52%)
Violence and Injury	<ul style="list-style-type: none"> While all counties within the ECDHD experienced higher death rates from unintentional injuries/accidents, Colfax and Nance counties experienced over two times as many deaths as the state (80, 89.4 and 37.2 per 100,000 population, respectively).

Resource Inventory

Table 8 represents a list of resources in the East Central District for each health need identified above.

Table 8: East Central District Health Asset and Resource Inventory

Significant Health Need	Assets/Resources
Access to Care	Boone County Health Center CHI Health Schuyler Columbus Community Hospital East Central District Health Department Genoa Medical Facility Marathon Clinic
Behavioral Health	Boone County Health Center CHI Health Schuyler Colfax County Behavioral Health Coalition Columbus Area United Way Columbus Community Hospital Communities For Kids Discovery Counseling East Central District Health Department Good Life Counseling Region IV Behavioral Health System Faith Regional Health Services Community and Family Partnership
Cancer	Boone County Health Center CHI Health Schuyler Columbus Community Hospital East Central District Health Department

Chronic Disease	Boone County Health Center CHI Health Schuyler Columbus Community Hospital Columbus Farmer’s Market East Central District Health Department Genoa Medical Facilities
Maternal and Child Health	Boone County Health Center CASA Connection CHI Health Schuyler Columbus Community Hospital East Central District Health Department WIC
Social Determinants of Health	Boone County Health Center Central Nebraska Community Action Partnership CHI Health Schuyler Columbus Area United Way Community and Family Partnership Communities for Kids East Central District Health Department East Central District Health Department WIC Nebraska Extension Platte County Food Pantry Schuyler Community Schools Schuyler Farmer’s Market Unite Us Salvation Army Colfax County Food Pantry - Ministerial Association
Violence and Injury	Center for Survivors CHI Health Schuyler

Evaluation of FY20-FY22 Community Health Needs Implementation Strategy

The previous CHNA for CHI Health Schuyler was conducted in 2019. CHI Health Schuyler completed the Community Benefit activities listed below around the priorities identified in 2019.

The four priority health needs identified in 2019 for inclusion on by CHI Health Schuyler’s Implementation Strategy Plan (ISP) were:

1. Family Health and Wellness
2. Behavioral Health
3. Access to Care
4. Support for Families with Children in Poverty

Table 12. CHI Health Schuyler Implementation Strategy Plan Review

Priority Area # 1: Access to Care	
Goal	Increase in Colfax County residents establishing a Patient Centered Medical Home (PCMH) and receiving annual preventive care
Community Indicators	<p>CHNA 2016</p> <ul style="list-style-type: none"> • 66.8% of East Central adults ages 18 and over were overweight or obese (BMI 25 or higher) in 2013 • 40% or more of East Central 4th through 8th graders were overweight or obese (BMI 25 or higher) in 2013-2014 • 13.5% of East Central adults ages 18 met both aerobic physical activity and muscle strengthening recommendation in 2013 • 31% of adults have a BMI of 30 or more • 27% of adults (aged 20+) report no leisure-time physical activity

	CHNA 2019 <ul style="list-style-type: none"> 69.2% of East Central adults ages 18 and over were overweight or obese (BMI 25 or higher) in 2015 32.5% or more of East Central 4th through 8th graders were overweight or obese (BMI 25 or higher) in 2016-2017 15.9% of East Central adults ages 18 met both aerobic physical activity and muscle strengthening recommendation in 2015 31.8% of East Central adults had a BMI of 30 or more (2015) 30.3% of East Central adults (aged 20+) report no leisure-time physical activity (2015) 	
	CHNA 2022 TBD	
Timeframe	FY20-FY22	
Background	Rationale: Limited access to healthcare and resources inhibits people’s abilities to reach their full potential and can negatively affect their quality of life. CHI Health Schuyler is located in a county that is a state primary care shortage area for family practice, pediatrics, obstetrics/gynecology and psychiatry.	
	Contributing Factors: Health literacy, health insurance, language/ cultural barriers	
	National Alignment: Healthy People 2020 objective: AHS-3: Increase the proportion of persons with a usual primary care provider	
	Additional Information: Access to care is a Community Health Improvement Plan (CHIP) priority for the East Central Health District.	
1.1 Strategy & Scope: Partner with schools, employers and community groups to conduct health screenings and provide education to the public on the importance of regular preventive care		
Anticipated Impact	Hospital Role/ Required Resources	Partners

<ul style="list-style-type: none"> • Increase awareness about the importance of annual wellness exams for early detection and treatment of chronic disease • Increase the rate of Colfax County youth and adults who have had an annual wellness exam 	<p>CHI Health System Role(s):</p> <ul style="list-style-type: none"> • Technical Assistance <p>CHI Health Schuyler's Role(s):</p> <ul style="list-style-type: none"> • Provides funding and staff 	<ul style="list-style-type: none"> • Schuyler Community Schools • CHI Health Clinics • Cargill • Lutheran Family Services • Marathon Health • East Central District Health Department • Colfax County Churches
Key Activities	Measures	Data Sources/Evaluation Plan
<p>In collaboration with community partners, the following represents activities CHI Health will either lead as a system or facility, support through dedicated funding and staff time or a combination thereof, as appropriate.</p> <ul style="list-style-type: none"> • Participate in community events to provide education about wellness exams and primary prevention (NET event and quarterly Cargill safety events) • Conduct no/ low cost health screenings and well child checks (e.g. sports physicals) 	<ul style="list-style-type: none"> • Increase # of individuals educated on wellness exams • Increase # of health screenings • Increase # of community events participated in 	<p>Data will be reviewed and monitored by an internal team using the following data sources:</p> <ul style="list-style-type: none"> • Program records • Hospital data • Community level data
Results		
<p>Fiscal Year 2020 Actions and Impact:</p> <ul style="list-style-type: none"> • Schuyler Health Fair took place in October 2019. CHI Schuyler staff conducted screenings and shared wellness education and primary care information. • Held a Health Event at Cargill in Schuyler for employees and their families. CHI Health Schuyler staff immunized children and shared health information and education. • Schuyler's NET event and Color Run were canceled due to COVID-19; however, CHI Health Schuyler staff continued to distribute information through partners and community stakeholders on the importance of preventative care. • Clinic began participating Vaccines for Children Program in November 2019. 		

- Virtual visits were implemented to provide access to patients from their homes so they could feel safe during the COVID-19 pandemic.

Measures:

- Individuals who had screening labs completed at screening fair: 200
- Individuals who participating at Cargill Health Event: 400
- Number of free vaccines provided: 373

Fiscal Year 2021 Actions and Impact:

- Schuyler Health Fair and Clarkson Health and Wellness Day both took place in October 2020. (Clarkson normally takes place in March, however due to COVID-19, it was pushed back.) CHI Schuyler staff conducted screenings and shared wellness education and primary care information. Because of COVID-19, patients were screened and given slotted appointments, which limited the number of people we were able to see - but allowed for distancing, control of flow, and ensured adequate cleaning between patients.
- Test NE was offered free of charge in the Schuyler Community and supported by CHI Health Schuyler staff.
- CHI Health Clinic in Schuyler offered reduced cost sports physicals.
- Vaccines for Children program continued. Flu shots were provided to patients of all ages (6 months and older) free of charge through this program to uninsured and underinsured patients.

Measures:

- Screening Fair: 134 individuals had their screening labs completed amongst both locations.
- Test NE: 887 COVID-19 Tests were performed free of charge through Test NE.
- Vaccines: 310 patients were provided with vaccines through the Vaccines for Children program in Schuyler. 4,581 doses of COVID-19 vaccine were administered from January - June 2021.

Fiscal Year 2022 Results Pending

Priority Area # 2: Behavioral Health	
Goal	Reduce stigma and ensure access to clinic and community- based behavioral health services in Colfax County
Community Indicators	CHNA 2016 <ul style="list-style-type: none"> • 2.7 (average) days report of mentally unhealthy days reported in the past 30 days • 7.7% of ECDHD residents 18 and older reported mental health was not good on 14 or more of the past 30 days • 13.8% of ECDHD residents 18 and older reported being told they have depression • 7.7% of ECDHD residents 18 and older reported frequent mental distress in past 30 days
	CHNA 2019 <ul style="list-style-type: none"> • 2.8 (average) days report of mentally unhealthy days reported in the past 30 days (County Health Rankings, 2016) • 6.5% of ECDHD residents 18 and older reported mental health was not good on 14 or more of the past 30 days • 17.7% of ECDHD residents 18 and older reported being told they have depression • 2.3% of ECDHD residents 18 and older reported symptoms of serious mental illness in the past 30 days
	CHNA 2022 TBD
Timeframe	FY20-FY22
Background	Rationale: Alcohol and drug abuse were cited as the top health concern in Colfax County according to the 2017 Community Health Survey.
	Contributing Factors: lack of availability of services, high cost, lack of insurance coverage, family and community dynamics, social support and stigma
	National Alignment: Healthy People 2020 objectives: MHMD-11.1: Increase the proportion of primary care physician office visits where adults 19 years and older are

	screened for depression MHMD-2: Reduce suicide attempts by adolescents SA-14: Reduce the proportion of persons engaging in binge drinking of alcoholic beverages (target for % of adults 18 years and older= 24.2%) Additional Information: CHI Health Mission and Ministry Fund provided funding from FY2016- FY2019 to establish a behavioral health coalition and fund behavioral services/ programs in Colfax County	
2.1 Strategy & Scope: Promote mental health services and prevent substance misuse by partnering with community organizations through the Colfax County Behavioral Health Coalition		
Anticipated Impact	Hospital Role/ Required Resources	Partners
<ul style="list-style-type: none"> • Increase awareness of existing and potential resources among community stakeholders • Increase screening and early intervention for behavioral health to avoid the necessity of higher levels of care • Increase capacity of internal staff and external partners to recognize and respond to mental health crises • Reduce percentage of youth reporting feeling ‘worthless’ ‘some’ or ‘most of the time’ in the past 30 days (NE YRBS) 	CHI Health System Role(s): <ul style="list-style-type: none"> • Provides financial support • System-level leadership by Behavioral Health Service Line • Strategic partner CHI Health Schuyler’s Role(s): <ul style="list-style-type: none"> • Fiscal Agent • Sponsor • Community Partner 	<ul style="list-style-type: none"> • Schuyler Community Schools • East Central District Health Department (in-school therapy program) • Good Life Counseling and Support- crisis response hotline • Region 4 Probation • Colfax County District Attorney • Schuyler Ministerial Association • Colfax County • Sheriff Department • Schuyler Police Department
Key Activities	Measures	Data Sources/Evaluation Plan
In collaboration with community partners, the following represents activities CHI Health will either lead as a system or facility, support through dedicated funding and staff time or a combination thereof, as appropriate.	<ul style="list-style-type: none"> • Increased awareness of community resources through increased usage of those resources 	Data will be reviewed and monitored annually as part of the coalition work using the following data sources: <ul style="list-style-type: none"> • Coalition Member feedback

<ul style="list-style-type: none"> • Support and promote school- based programming focused on building protective factors for academic success, prevention of sexual assault, domestic violence, dating violence and stalking, and support for suicide survivors <ul style="list-style-type: none"> o Building Healthy Relationships o Capturing Kids Hearts o LOSS program • Partner with the Region to deliver Mental Health First Aid Training (MHFA) • Screen for depression in CHI Health primary care clinics (Schuyler, Clarkson and Howells) 	<ul style="list-style-type: none"> • Consistent or increased attendance at coalition meetings • Number of patients using tele-psychiatry at hospital • Number of students referred to tele-psychiatry at the hospital 	<ul style="list-style-type: none"> • Hospital Records
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Results

Fiscal Year 2020 Actions and Impact:

- Behavioral Health Coalition continued to support Colfax County, and continued to hold regular meetings (via conference call, due to COVID-19 restrictions).
- Mental Health services and community resource information were shared with stakeholder agencies, trying to provide assistance to most vulnerable community members, amidst the COVID-19 crisis.
- Collaborative efforts between stakeholders for use of free counselling sessions available.
- Building Healthy Relationships class was paused due to school being "virtual".
- Building Healthy Relationships – discussions held to expand to Clarkson and Leigh school districts for 2020-2021 school year.
- Capturing Kids Hearts program messaging continued with teachers and schools sending positive messaging to students virtually and in "at home" packets that were sent to students on a regular basis during time out of school.
- LOSS program information was shared with individuals in our community, and through our ED.
- Continued to provide MHFA and YMHFA during FY20 and began exploring virtual options for training, as well as the ability to provide in Spanish
- Planning and Implementation of Tele-SANE program in Schuyler.
- Set goal of 53% patients screened for Clinical Depression Screening and Follow-up plans.

Measures:

- Created a sustainable Building Healthy Relationships program that will be expanding from one to three school districts

- MHFA: 21 attendees (7 on 11/12/2019 and 14 on 1/24/2020)
- YMHFA: 18 attendees
- Depression screening:
 - Average screened in Schuyler: 35%
 - Average screened in Clarkson: 22%
 - Average screened in Howells: 35%

Fiscal Year 2021 Actions and Impact:

- Behavioral Health Coalition continued to support Colfax County and continued to hold regular meetings (via ZOOM, due to COVID-19 restrictions).
- Mental Health services and community resource information were shared with stakeholder agencies, trying to provide assistance to most vulnerable community members, amidst the COVID-19 crisis.
- There were collaborative efforts between stakeholders to make free counselling sessions available.
- Building Healthy Relationships class was restarted in Schuyler, and concrete plans to start in Clarkson in Fall 2021 (this has begun) and Leigh in January 2022. This had been put on hold due to COVID-19 pandemic, as well as staffing issues at Center for Survivors.
- Capturing Kids Hearts program continues to be implemented and is now being discussed at monthly staff meetings. Champions have been identified, and there is messaging that continues to be shared amongst teachers. Best practices have enhanced the program at the Middle and High Schools.
- Unable to host MHFA hybrid moduled class due to COVID-19 restrictions.
- Implementation of Tele-SANE program in Schuyler.

Measures:

- Coalition meetings continued every other month: 6 meetings
- Building Healthy Relationships is currently offered in Schuyler and Clarkson. There is still planning and discussion, and hopes to be offered in Leigh in January 2022. Grant funding and change in staff hindered this process a bit.
- Depression screening: Obtained from EPIC dashboard. This metric calculates the percentage of patients aged 12 years and older screened for depression on the date of the encounter using an age appropriate standardized depression screening tool AND if positive, a follow up plan is documented on the date of the positive screen.
 - Schuyler
 - Percentage of patients screened: 49%

<ul style="list-style-type: none"> • Patients screened: 5,030 • Clarkson <ul style="list-style-type: none"> • Percentage of patients screened: 46% • Patients screened: 740 • Howells <ul style="list-style-type: none"> • Percentage of patients screened: 46% • Patients screened: 495

Fiscal Year 2022 Results Pending

Priority Area # 3: Nutrition, Physical Activity, & Weight Status

Goal	Decrease the percentage of Colfax County youth and adults who are overweight or obese
Community Indicators	CHNA 2016 <ul style="list-style-type: none"> • 10% of children under the age of 19 without health insurance • 19.18 primary care physicians per 100,000 population in 2013
	CHNA 2019 <ul style="list-style-type: none"> • 7.7% of Colfax County children under the age of 18 without health insurance (2016) • 9.52 primary care physicians per 100,000 population in 2014 (HRSA, Area Health Resource File)
	CHNA 2022
Timeframe	FY20-FY22

Background	<p>Rationale: Adult obesity levels remain above U.S.; appears to be progress in childhood overweight however disparities exist across income levels and race; need to build on momentum and sustain efforts; Hospital has expertise, resources, and partnerships to leverage this work. Nutrition, physical activity, and obesity was identified as a health priority and CHIP focus by focus groups. Obesity and diabetes (#2 and #3 respectively) were ranked among the top health concerns in Colfax County according to the 2017 Community Health Survey.</p>	
	<p>Contributing Factors: fruit and vegetable consumption, physical activity, access to healthy foods, socioeconomic status, access to culturally relevant foods, knowledge of healthy food preparation</p>	
	<p>National Alignment: National Alignment: Healthy People 2020 objectives: (NSW-14 and NSW-15.1): Increase the total contribution of fruits and vegetables to the diets of the population aged 2 years and older (respectively) (NWS-10): Reduce the proportion of children and adolescents who are considered obese (PA-1): Reduce the proportion of adults who engage in no leisure-time physical activity (PA-3): Increase the proportion of adolescents who meet current Federal physical activity guidelines for aerobic physical activity and for musclestrengthening activity</p>	
	<p>Additional Information: 2018 East Central District Health Department (ECDHD) Community Health Improvement Plan (CHIP) priority</p>	
3.1 Strategy & Scope: Support family health and well-being through community events and programming that focuses on healthy eating and physical activity		
Anticipated Impact	Hospital Role/ Required Resources	Partners
<ul style="list-style-type: none"> Increase in percentage of Colfax County youth reporting they engaged in 60 minutes of physical activity daily for the past week 	<p>CHI Health Schuyler’s Role(s):</p> <ul style="list-style-type: none"> Lead Implementer Community Partner Funder 	<ul style="list-style-type: none"> Schuyler Community Schools ECDHD

<ul style="list-style-type: none"> • Increase in percentage of Colfax County youth reporting consumption of 5 fruits/ vegetables in the past week • Increase in percentage of Colfax County adults engaging in a wellness activity in the past year 		
Key Activities	Measures	Data Sources/Evaluation Plan
<p>In collaboration with community partners, the following represents activities CHI Health will either lead as a system or facility, support through dedicated funding and staff time or a combination thereof, as appropriate.</p> <ul style="list-style-type: none"> • Provide financial assistance and technical support to schools, out of school programs and clinics implementing 5-4-3-2-1 Go!© 	<ul style="list-style-type: none"> • BMI data of patients aged 3-17 years • Increase in youth reporting physical activity • Increase in individuals educated on healthy lifestyles 	<p>Data will be reviewed and monitored annually by an internal team using the following data sources:</p> <ul style="list-style-type: none"> • East Central District Health Department
Results		
<p>Fiscal Year 2020 Actions and Impact:</p> <ul style="list-style-type: none"> • 5-4-3-2-1 Go!© programming information was shared at multiple events in the Fall of 2019 • Program was put on hold in the Spring of 2020 due to COVID-19 and school being held virtually <p>Measures: 5-4-3-2-1 Go!© programming information shared with 750+ families</p>		
<p>Fiscal Year 2021 Actions and Impact:</p> <ul style="list-style-type: none"> • Program was put on hold in the Spring of 2020 due to COVID-19 and school being held virtually. Program has been reintroduced to schools, but limited work has been done due to COVID-19. <p>Measures: No measures to report.</p>		
<p>Fiscal Year 2022 Results Pending</p>		

Priority Area #4: Social Determinants of Health (Families with Children in Poverty)	
Goal	Improve support for families in poverty through increased access to community resources and support
Community Indicators	CHNA 2016 <ul style="list-style-type: none"> 83% high school graduation rate 30% of children living in households headed by single parent 15% of children under the age of 18 live in poverty 60 births per 1,00 female population ages 15-19 5% of live births with low birth weight
	CHNA 2019 <ul style="list-style-type: none"> 90.7% four- year high school graduation rate in Colfax County (2017) 21.7% of Colfax County children living in households headed by single parent (2017) 16% of Colfax County children under the age of 18 live in poverty (2016) 63.2 births per 1,000 female population ages 15-19 (2006-2012) 5.4% of live births in Colfax County with low birth weight (2011-2015)
	CHNA 2022 TBD
Timeframe	FY20-22
Background	<p>Rationale: Improving the conditions in which we live, learn, work, and play will create a healthier population and workforce. As of 2016, 12.0% of the total population in Colfax County was in poverty (state comparison: 12.4%) and 16% of youth under the age of 18 were in poverty, which is the highest county rate in the East Central District. According to the 2018 Kids Count in NE report, Colfax County has between 25-49% of the necessary capacity of licensed child care facilities to provide early childhood education per 100 children under 6 years of age with all available parents working.</p>

	Contributing Factors: Lack of licensed early childhood education providers, socioeconomic status, workforce, immigration policy	
	National Alignment: Healthy People 2020 objectives: SDOH-3.2: proportion of children living in poverty, baseline: 22% of children ages 0 to 17 were living below the poverty threshold in 2010 (US)	
	Additional Information: Schuyler was selected as a priority community for the Nebraska Children and Families Foundation, ‘Communities for Kids Initiative.’ Schuyler has received a \$25,000 grant to implement an early childhood education (ECE) plan with the goal of increasing ECE community capacity. Data analysis conducted by Nebraska Children and Families Foundation demonstrates a significant lack of licensed child care providers available in Schuyler to support the needs of families with children, in which both parents participate in the labor force	
4.1 Strategy & Scope: Economic development: Support efforts to increase access to early childhood education in Colfax County		
Anticipated Impact	Hospital Role/ Required Resources	Partners
<ul style="list-style-type: none"> Expand access to early childhood education in Schuyler 	CHI Health Schuyler’s Role(s): <ul style="list-style-type: none"> Community Partner Funding 	<ul style="list-style-type: none"> Nebraska Children and Families Foundation Schuyler Community Schools United Way Schuyler Economic Development
Key Activities	Measures	Data Sources/Evaluation Plan
In collaboration with community partners, the following represents activities CHI Health will either lead as a system or facility, support through dedicated funding and staff time or a combination thereof, as appropriate.	<ul style="list-style-type: none"> Decrease in childcare gap Increase in family functioning/resiliency Perceived change in social emotional support 	Data will be reviewed and monitored annually by an internal team using the following data sources: <ul style="list-style-type: none"> Nebraska Children and Family Foundation reports Community and Family Partnership reports

<ul style="list-style-type: none"> • Create early childhood plan for Schuyler community • Explore feasibility of early childhood education sites in Schuyler • Seek braided funding to build a new early childhood education center in Schuyler 	<ul style="list-style-type: none"> • Increase in perceived access to concrete support 	
Results		
<p>Fiscal Year 2020 Actions and Impact:</p> <ul style="list-style-type: none"> • CHI Health Schuyler continued to hold Farmers Market in hospital parking lot • Outdoor Yoga session offered during Farmers Market to encourage physical activity and alternate exercise programs. <p>Measures:</p> <ul style="list-style-type: none"> • 1746 vouchers were distributed in Colfax County from July 2019-September 2019 • Of these, 290 Vouchers were redeemed (17%) 		
<p>Fiscal Year 2021 Actions and Impact:</p> <ul style="list-style-type: none"> • CHI Health Schuyler continued to hold the Farmers Market in the hospital parking lot. <p>Measures:</p> <ul style="list-style-type: none"> • 3,456 vouchers were distributed in Colfax County from July 2020 - October 2020 • Of those, 937 were redeemed, which is equivalent to 27.11% 		
Fiscal Year 2022 Results Pending		
4.2 Strategy & Scope: Food Access: Lead efforts to increase access to healthy food for Colfax County residents living in poverty through collaborative programming and education.		
Anticipated Impact	Hospital Role/ Required Resources	Partners

<ul style="list-style-type: none"> • Decrease food insecurity • Increase access to, and consumption of, fresh fruits and vegetables • Increase nutrition knowledge among Farmer’s Market participants 	<p>CHI Health Schuyler’s Role(s):</p> <ul style="list-style-type: none"> • Community Partner • Funding • Program lead 	<ul style="list-style-type: none"> • Nebraska Extension Schuyler Area • Chamber of Commerce WIC • Schuyler Ministerial Food Pantry • Schuyler Community Schools • Salvation Army • Schuyler Senior Center (low income housing)
<p>Key Activities</p>	<p>Measures</p>	<p>Data Sources/Evaluation Plan</p>
<p>In collaboration with community partners, the following represents activities CHI Health will either lead as a system or facility, support through dedicated funding and staff time or a combination thereof, as appropriate.</p> <ul style="list-style-type: none"> • Help coordinate and manage the Schuyler Farmer’s Market and Fresh Fruits and Vegetable Voucher Program • Explore the potential for implementing the Double Up Food Bucks Program in partnership with the Colfax County Chamber of Commerce 	<ul style="list-style-type: none"> • Increase in families reporting access to healthy food • Increased participation in Farmer’s Market • Increased food voucher redemption 	<p>Data will be reviewed and monitored annually by an internal team using the following data sources:</p> <ul style="list-style-type: none"> • Farmer’s Market logs • Food voucher reports • ECDHD
<p>Results</p>		
<p>Fiscal Year 2020 Actions and Impact:</p> <ul style="list-style-type: none"> • CHI Health Schuyler continued to hold Farmers Market in hospital parking lot • CHI Health Schuyler distributed fresh fruit and vegetable vouchers throughout the community to increase access to and consumption of healthy foods • Provided education on COVID-19 safety guidelines to vendors and attendees • Ensured compliance of COVID-19 safety guidelines for Farmers Market • Provided face masks and hand sanitizer at the markets during the COVID-19 pandemic • Continued to explore offering Double Up Food Bucks program in Schuyler and initiated partnership with local UNL Extension office to provide the required educational component at the market 		

Measures:

- 1746 vouchers were distributed in Colfax County from July 2019-September 2019
- Of these, 290 Vouchers were redeemed (17%)

Fiscal Year 2021 Actions and Impact:

- CHI Health Schuyler continued to hold Farmers Market in the hospital parking lot.
- CHI Health Schuyler distributed fresh fruit and vegetable vouchers throughout the community to increase access to and consumption of healthy foods.
- Provided education on COVID-19 safety guidelines to vendors and attendees.
- Ensured compliance of COVID-19 safety guidelines for Farmers Market.
- Provided face masks and hand sanitizer at the markets during the COVID-19 pandemic.
- Continued to explore offering the Double Up Food Bucks program in Schuyler and initiated partnership with local UNL Extension office to provide the required educational component at the market, as well as partnered with Center For Rural Affairs to seek out partnerships for educational opportunities and support for vendors.

Measures:

- Distributed 3,456 farmers market vouchers throughout the community to provide healthy food to families.

Fiscal Year 2022 Results Pending

Appendix

Appendix A: 2021 East Central District Comprehensive Community Health Needs Assessment

Under the direction of the East Central District Health Department, the 2021 ECDHD Comprehensive Community Health Needs Assessment was completed for the four counties in the East Central Health District (Boone, Colfax, Nance, and Platte Counties in Nebraska) by NALHD. This assessment was conducted in partnership with multiple agencies within the district, including CHI Health Schuyler. It is the goal of the Comprehensive Community Health Needs Assessment to describe the health status of the population, identify areas for health improvement, determine factors that contribute to health issues, and identify assets and resources that can be mobilized to address public health improvement.



East Central
District Health Department

**2021 EAST CENTRAL DISTRICT
COMPREHENSIVE COMMUNITY
HEALTH NEEDS ASSESSMENT**

BOONE | COLFAX | NANCE | PLATTE

Report prepared by the Nebraska Association for Local Health Directors in conjunction with East Central District Health Department

Sponsored by: Boone County Health Center, CHI Health Schuyler, Columbus Community Hospital, Genoa Medical Facilities

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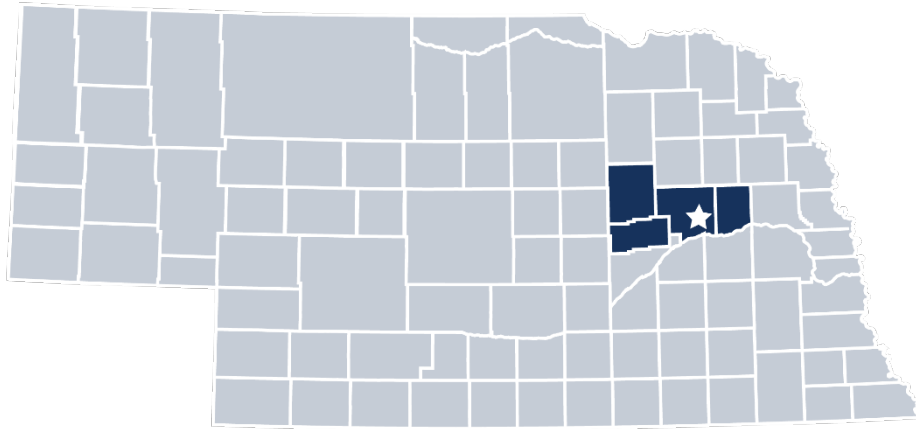
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Introduction

East Central District Health Department (ECDHD) serves 52,890ⁱ people within a four-county district comprised of Boone, Colfax, Nance, and Platte counties in northeastern Nebraska. All of these counties are classified as rural counties by the Federal Office of Rural Health Policyⁱⁱ.



ECDHD was formed in 2002 as a result of State legislation that applied Tobacco Master Settlement funds to organize local health departments statewide. The mission of ECDHD is to complement community health services in order to make a positive difference in the quality of life for all individuals and families.

As Chief Health Strategist—who convenes partners that investigate and take action to make meaningful progress on complex health community issuesⁱⁱⁱ—for this four-county district, ECDHD conducts a community health assessment (CHA) and community health improvement plan (CHIP) every three years. The CHA is a process of gathering and interpreting information from multiple and diverse sources in order to develop a deeper understanding of the health and wellbeing of a community/jurisdiction. The CHA process describes the current health status of the community, identifies, prioritizes health issues, and develops a better understanding of the range of factors that influence and impact health. This report focuses on the **Community Health Status Assessment** portion of ECDHD’s CHA. Data were gathered from secondary sources such as County Health Rankings and Roadmaps (CHRR), Nebraska Department of Health and Human Services Office of Health Disparities and Health Equity Data Dashboards and American Community Survey/US Census Bureau. This assessment identifies leading causes and emerging issues that impact community health and quality of life, including the leading causes of mortality and morbidity, the general health status of community members, disparities in health outcomes, the access and availability of behavioral and health care, etc.

Five of the main partners who take the lead role in providing healthcare for the communities within ECDHD region and play an important role in the development of this assessment include:

Boone County Health Center, located in Albion, Nebraska, is a recognized leader in providing a continuum of healthcare to the 10,000 rural residents in Boone, Antelope, Greeley, western Madison and Platte, Nance, and Wheeler Counties. The Health Center is a county hospital, twenty-five bed, five nursery facility, that sees over 70,000 outpatient visits and over 30,000 clinic visits on an annual basis and is the primary source of healthcare for the rural communities it serves in the towns of Albion, Spalding, Newman Grove, Fullerton, and Elgin. With eight physicians and four physician assistants, a well-rounded medical staff is present to meet the

needs of the patients and their families. In addition, two affiliate physician clinics are in St. Edward and Cedar Rapids. Services provided by the 250 employees at the Health Center include; cardiac rehab, physical therapy, occupational therapy, speech therapy, radiology (ultrasound, digital mammography, nuclear medicine, CT, open MRI, DEXA scanner, fluoroscopy and general x-ray), full laboratory services, oncology, aesthetics care, full OB services, home health and mental health services. In addition to the services provided by our local staff, a full range of seventeen specialty clinics are scheduled throughout the month to allow patients the ability to obtain these services at home.

CHI Health Schuyler, located in Schuyler, Nebraska, is a 25-bed Critical Access Hospital. The physicians, nurses, and other associates at this faith-based community hospital are committed to delivering personalized, compassionate care to approximately 10,441 individuals that reside in Colfax County. Such care takes many forms - technologically advanced medical services, quality health education, health screenings, and more. Beyond the hospital walls, Memorial Hospital works closely with businesses, community groups, churches, schools, social service agencies, and others to build a healthier community. Acute care and outpatient services include general medical-surgical care, skilled nursing care, home health care, outpatient specialty care that includes general surgery, cardiology, urology, gastrointestinal, orthopedic, gynecology, otolaryngology, nephrology, and podiatry services. Restorative services such as physical therapy and cardiac rehabilitation are also available. A full complement of diagnostic services are offered for the laboratory and radiology which include: CT, MRI, mammography, ultrasound, nuclear medicine, echocardiograms, and vascular exams.

Columbus Community Hospital is a community-owned, not-for-profit hospital. The facility opened its doors at its new location in August 2002 and is located on 60 acres in the northwest part of Columbus, NE. The Hospital is a 47-bed acute care facility (certified for swing beds), with 4 skilled nursing beds and 14 ambulatory outpatient beds, all private rooms. Columbus Community Hospital is licensed by the Nebraska State Board of Health and is accredited through The Joint Commission. The Hospital is also a member of the Nebraska Hospital Association (NHA), American Hospital Association (AHA), Voluntary Hospital Association (VHA) and Heartland Health Alliance (HHA). Columbus Community Hospital's success can be measured in the quality of its facilities and the commitment of volunteers, staff, board, and physicians. Leadership consists of an 11-member Board of Directors, President/CEO, 4 Vice-Presidents, 38 members of the Medical Staff, over 550 employees, and 300+ volunteers. In October 2010, the Hospital expanded services in the Emergency Department, increased patient privacy in the registration area and created a women's imaging center.

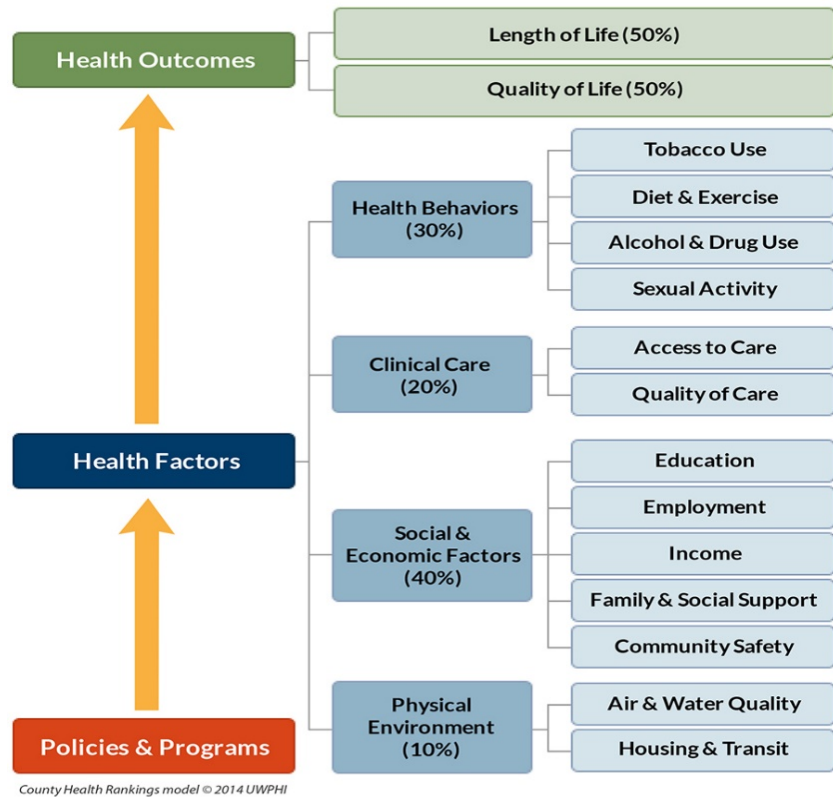
Genoa Medical Facilities (GMF) is the sole health care facility in Nance County, Nebraska, located in the city of Genoa, NE. GMF is comprised of the hospital, long-term care, and assisted living facilities. The hospital is a 19-bed, critical access, city owned, non-profit facility. GMF provides healthcare for a community of almost 5,000 people within a 10-mile radius. The 35-bed long-term care unit and the 20-unit assisted living facility provide a home for those whose needs include additional living care. Most importantly, GMF provides the care for the people of the community. Although the care people receive here pales by comparison to the services available at large facilities, this hospital is critical to the area and plays an important role in

providing access to care in the region. For this reason, the community is uniquely supportive of the hospital's mission, which is to be “Champions for Rural Healthcare.”

Good Neighbor Community Health Center in Columbus is one of seven Federally Qualified Health Centers in Nebraska. Federally Qualified Health Centers are an integral part of the nation's health delivery system, providing cost effective, community oriented, and comprehensive primary health care services. Offering payment options on a sliding scale for patients who would be otherwise unable to afford health care, a Federally Qualified Health Center serves medically underserved areas and/or populations and receives Public Health Service funds.

County Health Rankings and Roadmaps (CHRR), is a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin that provides reliable county-level data and evidence to communities to help them identify opportunities to improve their health. The CHRR model was used as the lens for this community health status assessment (see Figure 1). Most county-level measures used in this assessment came from the County Health Rankings, a source of secondary data compiled from a variety of national and state data sources, such as Behavioral Risk Factor Surveillance System (BRFSS), Centers for Disease Control and Prevention databases, National Center for Health Statistics, USDA Food Environment Atlas, US Census, etc. To find out more, visit [County Health Rankings: Measures and Data Sources](#).

Figure 1. County Health Rankings and Roadmaps Framework



This community health status assessment gathered data from secondary sources to assess the health status of the ECDHD region to identify emerging issues and trends, when possible, and to gauge big changes from the previous Community Health Improvement Plan priorities.

Additionally, this community health status assessment uses the responses to the community health survey, designed by ECDHD and distributed across the ECDHD region, to determine Community Themes and Strengths. The survey assessed community members' perceptions of important health issues, including wellbeing and quality of life. This survey was available in English and Spanish and was distributed through ECDHD and their partners. To promote access to the survey, ECDHD posted the survey link on the ECDHD website and Facebook pages and made it available in print. Results are discussed in this report.

Health Equity-District Overview

Rurality is associated with a number of negative health outcomes, specifically higher premature mortality rates, infant mortality rates, and age-adjusted death rates. Rurality is also associated with a number of negative health behaviors that contribute to chronic disease and death, such as unhealthy diets and limitations in meeting moderate or vigorous physical activity recommendations.^{iv} These data paint a stark picture of health disparities given one factor, geography. Additionally, it is important to understand that there are disparities related to race and ethnicity independent from geography, and there are disparities related to geography independent from race and ethnicity. When disparities from independent factors overlap, such as race/ethnicity overlapping with geography, the result is a dual disparity resulting in some of the poorest health statuses seen in the nation.^v

Literacy and primary language must be considered in all health contexts. It is estimated that only 1 in 10 American adults have the skills needed to use health information that is routinely available in health care facilities, retail outlets, and the media.^{vi} *“Being able to read does not necessarily mean one will be health literate, however, the lack of basic literacy skills does mean that patients almost certainly will have difficulty reading and understanding basic health information”.*^{vii} Basic literacy and health literacy levels are also factors associated with health disparities.

Language barriers also contribute to health disparities and exacerbate difficulties understanding and acting on health information.^{viii} The ECDHD district is home to multiple immigrant populations and second-language English speakers with concentrations from Mexico, Central America, Guatemalan, Africa, Myanmar (Karenni) ^{ix} and as well as smaller populations from other areas.

Figure 2. Proportion of Residents with Limited English Proficiency in East Central District, By County^x

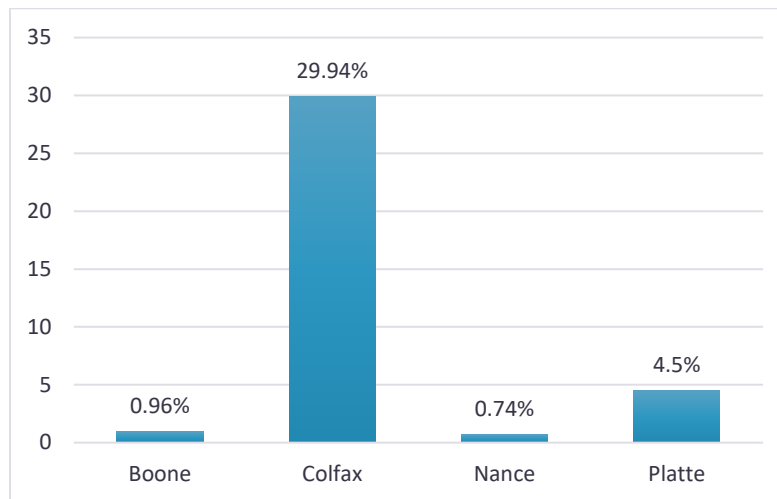


Table 1 summarizes the health literacy indicators within the ECDHD district. Nearly 50% of the adult population in the ECDHD district reported that written health information and verbal health information given by medical professionals is not easy to understand.

Table 1. Health Literacy Indicators, ECDHD District

Health Literacy Indicators ^{xi}	ECDHD Region
Very easy to get needed advice or information about health or medical topics	69%
Written health information very easy to understand	51%
Very easy to understand information that medical professions tell you	52%

Overall, ECDHD district has a higher percentage of residents who were Veterans than compared to the state (see Table 2). Nearly 1 in 7 residents in the ECDHD were Veterans aged 18 and older with over 1 in 3 residents in Platte County as Veterans aged 18 and older. Although the US Department of Veteran Affairs (VA) assists Veterans in accessing health care and other services, eligibility status for these services depends greatly upon the branch of service, time served, and discharge status. Even when Veterans access services, challenges still exist for health care professionals to effectively understand and treat health issues in Veterans due to complex military histories and medical needs. Unlike previous generations, many younger Veterans experienced frequent deployments to multiple conflict areas, exposure to explosions in close proximity and longer tours of duty.^{xii}

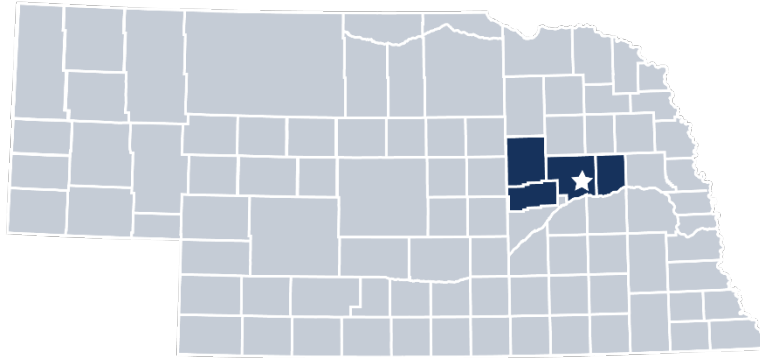
Table 2. Veteran Status, ECDHD District

Veteran Status ^{xiii}	% Veterans (age 18+)
Boone County	7%
Colfax County	6%
Nance County	5%
Platte County	35%
ECDHD District	14%
Nebraska	6%

Population Characteristics

District Overview

East Central District Health Department (ECDHD), headquartered in Colfax County, serves 52,890^{xiv} people within a four-county district comprised of Boone, Colfax, Nance, and Platte counties in the northeastern part of Nebraska.



Since the ECDHD district is rural, agriculture and manufacturing related to agriculture are major economic drivers.

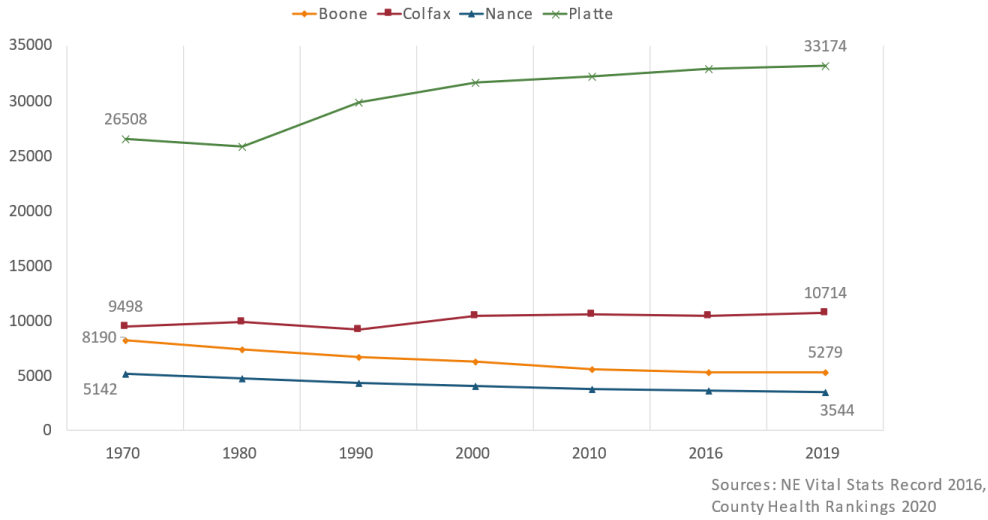
Quick Facts for ECDHD Region:^{xv}

Population (2019): **52,890**
Population Change (2010-2019): **-1.5%**
Unemployment Rate: **2.5%**^{xvi}
Total Land Area: **2,214 square miles**

Population Demographics

Nebraska's rural population is decreasing while the urban population is increasing. Nebraska's population in the 2019 Census was estimated at 1,934,408. This count was up 5.9% from the 2010 Census and consistent with the national increase of 6.3% during the same period. Growth has occurred in all four of the urban counties of Nebraska. Similarly, Colfax and Platte counties saw a growth in population, 1.8% and 3.8% respectively, between 2010 and 2019. Conversely according to the US Census, Boone, and Nance counties within the ECDHD district experienced a decrease in population (nearly a 5.8% decrease) during the same time period.

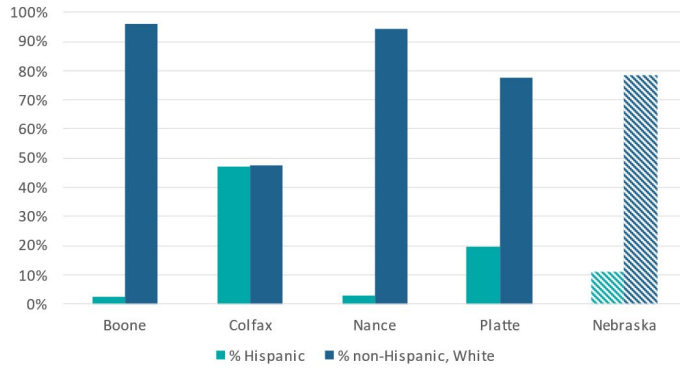
Figure 3. Overall Population Trend, ECDHD (1970-2019)



Race and Ethnicity

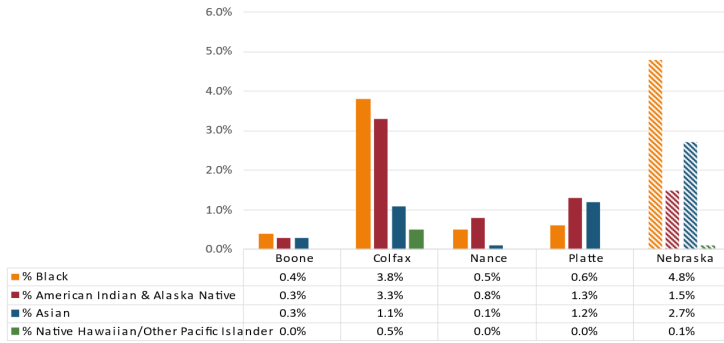
Nebraska has a high Hispanic population growth rate. Between 2005 and 2014, the Hispanic population growth rate was more than five times higher than the overall population growth rate in Nebraska (55% vs. 10%).^{xvii} Hispanics represented 5.6% of the total population in Nebraska in 2000, 9.2% in 2010, and 11.4% in 2019, and it is estimated that by 2025, the Hispanics will make up nearly a quarter of Nebraska’s population (23.4%). Hispanics in Nebraska are from a variety of countries, but Mexico is the primary country of origin (76%). In the ECDHD district, the majority of the Hispanic population resided in Colfax County (47%), over two times the Hispanic population across the ECDHD district (18%) and the state (11%), followed by Platte County (20%)—see Figure 4. Racial diversity is greatest in Colfax County with 3.8% of residents identifying as Black, 3.3% as American Indian/Alaskan Native, 1.1% as Asian, and 0.5% as Native Hawaiian/Other Pacific Islander, which is more than three quarters the state percentage of residents identifying as Black (4.8%). All other counties with ECDHD are predominately White.

Figure 4. Hispanic Origin, ECDHD District



Source: CHRR 2020

Figure 5. Race by county, ECDHD District

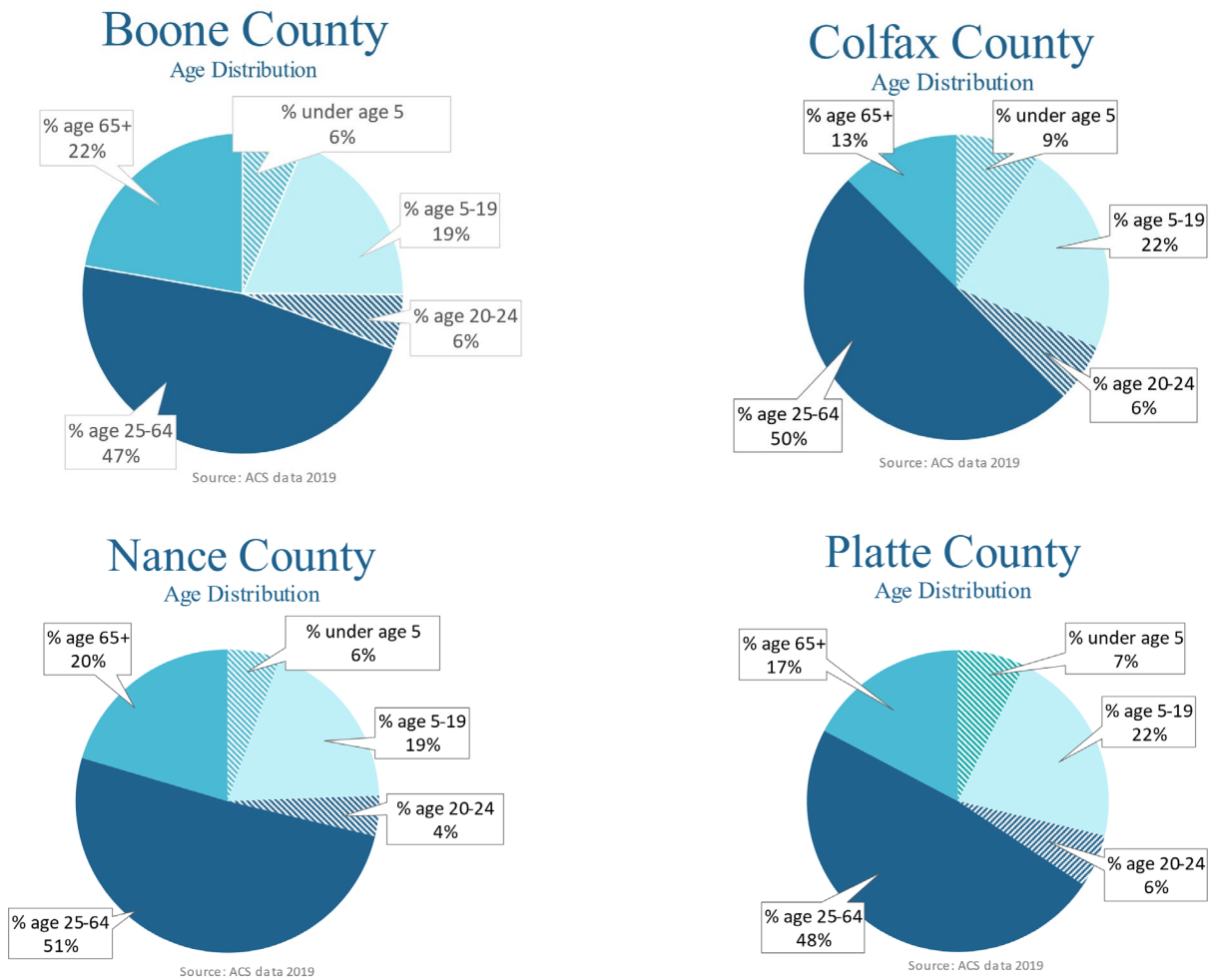


Source: CHRR 2020

Median Age

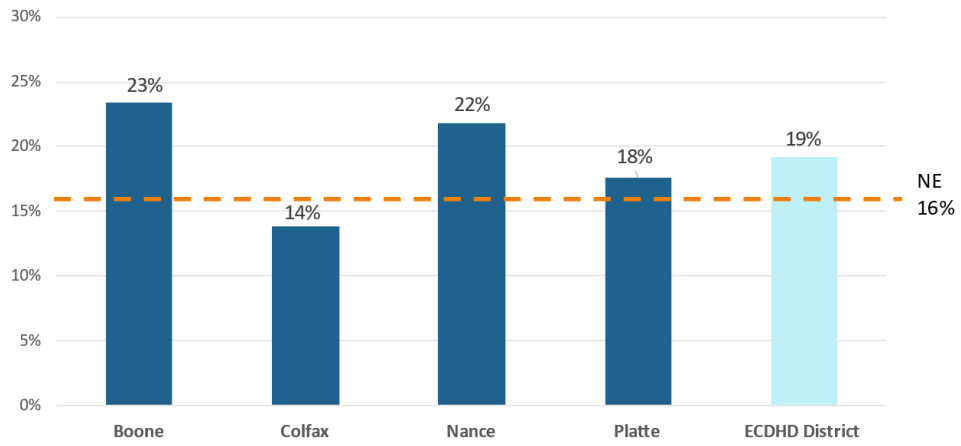
The average median age in the ECDHD district was 40 years in 2018, which was four years older than the average median age in Nebraska.

Figure 6. Age Distribution, ECDHD District by county



Notably, nearly 1 in 4 adults in Boone County were 65 years and older, and about 1 in 5 adults in Nance and Platte counties were 65 years and older (22% and 18%, respectively). Colfax County (14%) was below the percentage of adults aged 65 years and older across the ECDHD district (19%) and state (16%).

Figure 7. Percent Population Aged 65+, ECDHD District



Source: CHRR 2020

County Quick Facts

Quick Facts for Boone County:^{xviii}

Population (2019): **5,192**

Population Change (2010-2019): **-5.7%**

% children under 18: **23%**

Median Household Income: **\$51,900**

% total population in poverty: **10%**

% children living in poverty^{xix}: **13%**

Unemployment Rate: 2.5%^{xx}

Race/Ethnicity^{xxi}--

% Hispanic: 2%

% non-Hispanic, White: **96%**

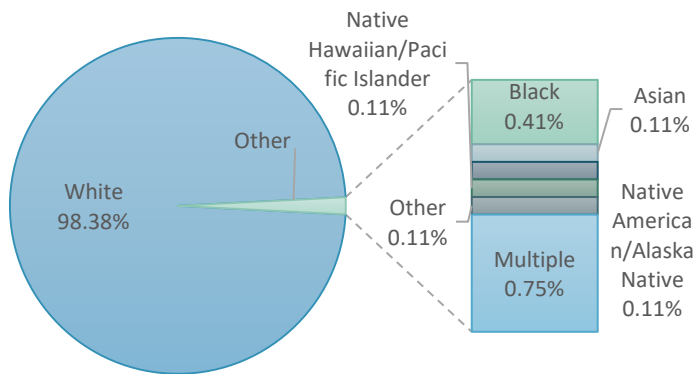
% Black: 0.4%

% American Indian/Alaska Native: 0.3%

% Asian: 0.3%

% Native Hawaiian/Other Pacific Islander: 0.0%

Figure 8. Proportion of Hispanic or Latino Residents of East Central District, Boone County.^{xxii}



Quick Facts for Colfax County:^{xxiii}

Population (2019): **10,709**

Population Change (2010-2019): **1.8%**

% children under 18: **30%**

Median Household Income: **\$55,800**

% total population in poverty: **8%**

% children living in poverty^{xxiv}: **13%**

Unemployment Rate: **2.3%**^{xxv}

Race/Ethnicity^{xxvi}--

% Hispanic: **47%**

% non-Hispanic, White: **48%**

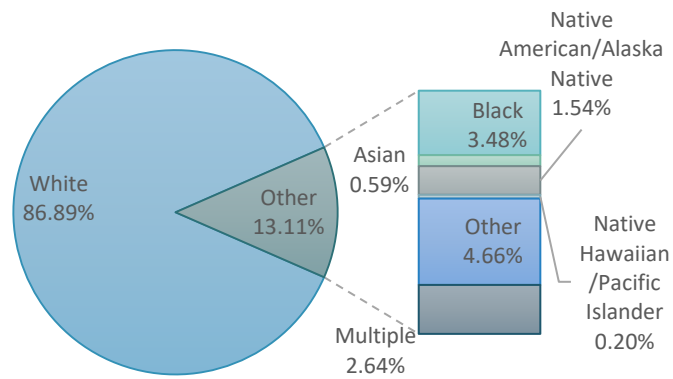
% Black: **3.8%**

% American Indian/Alaska Native: **3.3%**

% Asian: **1.1%**

% Native Hawaiian/Other Pacific Islander: **0.5%**

Figure 9. Proportion of Hispanic or Latino Residents of East Central District, Colfax County.^{xxvii}



Quick Facts for Nance County:^{xxviii}

Population (2019): **3,519**

Population Change (2010-2019): **-5.8%**

% children under 18: **22%**

Median Household Income: **\$47,300**

% total population in poverty: **10%**

% children living in poverty^{xxix}: **14%**

Unemployment Rate: **2.5%**^{xxx}

Race/Ethnicity^{xxxi}--

% Hispanic: 3%

% non-Hispanic, White: **95%**

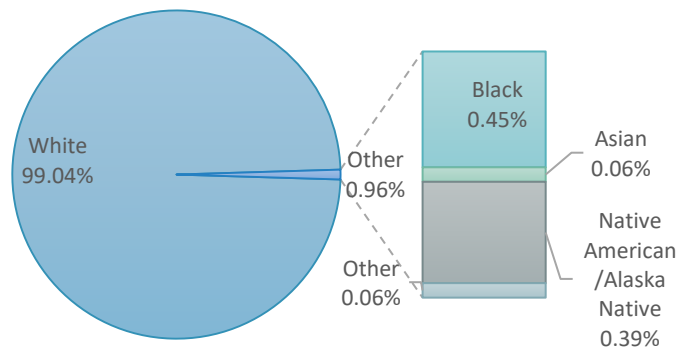
% Black: 0.5%

% American Indian/Alaska Native: 0.8%

% Asian: 0.1%

% Native Hawaiian/Other Pacific Islander: 0.0%

Figure 10. Proportion of Hispanic or Latino Residents of East Central District, Nance County^{xxxii}



Quick Facts for Platte County:^{xxxiii}

Population (2019): **33,470**

Population Change (2010-2019): **3.8%**

% children under 18: **26%**

Median Household Income: **\$63,700**

% total population in poverty: **9%**

% children living in poverty^{xxxiv}: **11%**

Unemployment Rate: **2.6%**^{xxxv}

Race/Ethnicity^{xxxvi}--

% Hispanic: **20%**

% non-Hispanic, White: **77%**

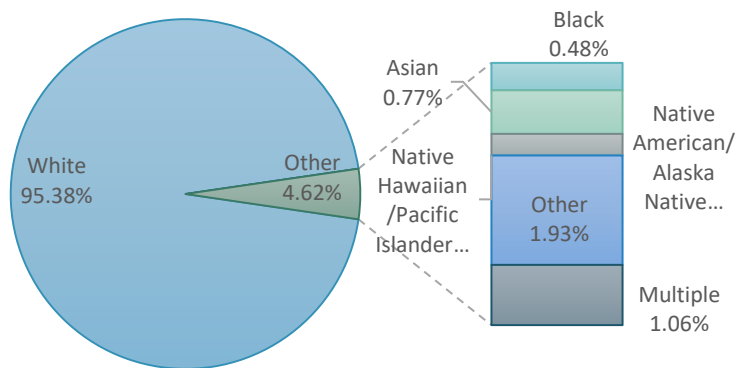
% Black: **0.6%**

% American Indian/Alaska Native: **1.3%**

% Asian: **1.0%**

% Native Hawaiian/Other Pacific Islander: **0.0%**

Figure 11. *Proportion of Hispanic or Latino Residents of East Central District, Platte County.*^{xxxvii}



Health Issue Overview

The subsequent body of the report presents data from 1) secondary sources, including the County Health Roadmaps and Rankings, the Behavioral Risk Factor Surveillance System (BRFSS), and the Census; 2) the 2021 Community Concerns Survey; and 3) focus groups conducted with residents and stakeholders from all four counties within the East Central Health District.

Table 3 displays the change within the primary health indicators measured across these data collection methodologies from the last Community Health Needs Assessment.

Table 3. Health issue status change from 2018 to 2021, ECDHD District

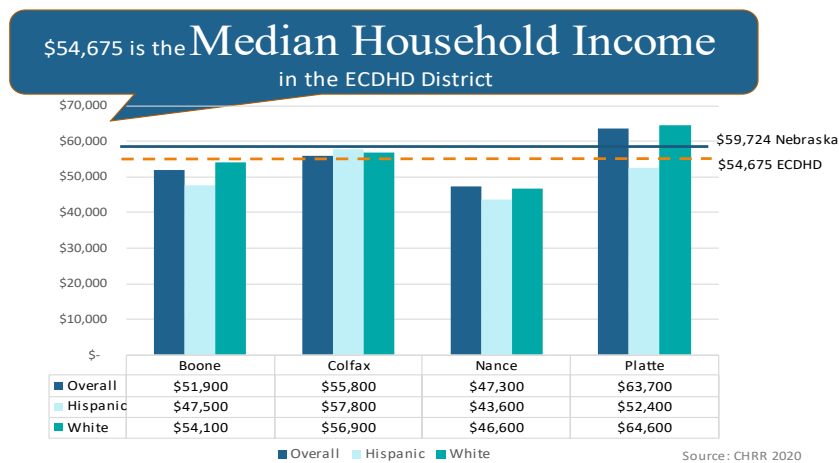
	▲ = Improvement ▼ = Worsened
Median household income	
Boone	▲
Colfax	▲
Nance	▲
Platte	▲
Poverty	
Boone	▼
Colfax	▲
Nance	▲
Platte	▼
Children in poverty	
Boone	▼
Colfax	▲
Nance	▼
Platte	No change
Reported health as fair or poor (ECD)	▼
Overall cancer rates	
Boone	▲
Colfax	▲
Nance	▲
Platte	▲
Ever told they have high cholesterol (ECD)	▼
Ever told they have high blood pressure	No change
Diabetes (ECD)	▼
Injury Deaths	
Boone	▼
Colfax	▲
Nance	▼
Platte	▼
Mental health was not good 14 or more of the past 30 days (ECD)	▼
Ever told they have depression (ECD)	▼
Binge drinking (ECD)	▼
Without health insurance	
Boone	▼
Colfax	▼
Nance	▼
Platte	▼
Up to date on colon cancer screenings (50-75) (ECD)	▲
Infant Mortality	
Boone	▲
Colfax	▼
Nance	▼
Platte	▼
Single parent family household (ECD)	▼
Adult smoking rate (ECD)	▼
Smokeless tobacco use (ECD)	▼
Highschool graduation rate (ECD)	▲
Food insecurity	▲

Socio-Economic Status

Economics

According to the American Community Survey five-year estimate (2015-2019), the median household income for Nebraska was \$59,724, and the median household income for the ECDHD region was \$54,675. Platte County had a median household income slightly higher than other counties in the ECDHD district and the state. There is a disparity in the median household income among Hispanic earners when compared to non-Hispanic, White earners in every county (ranging from \$3,000 to \$12,200) within ECDHD region except in Colfax County where the population ratio of Hispanic to non-Hispanic, White residents is 1:1.

Figure 12. Median Household Income, ECDHD District



Nearly 1 in 4 children were from single family homes across the ECDHD region, which was less than the state average of 29%.^{xxxviii} Thirteen percent (13%) of children were living in poverty across all counties within the ECDHD region, which is the same as the state (13%).^{xxxix} ECDHD regional unemployment rate was 2.5%^{xl}, slightly less than the state (2.8%). Despite the low unemployment rate across the ECDHD region, families still struggled to make ends meet.

Table 4. Economic Indicators, ECDHD District

Economic Indicators	ECDHD region	Nebraska
Median Household Income ^{xli}	\$54,675	\$59,724
Children in Single-parent Households ^{xlii}	23%	29%
Percentage of children under age 18 in poverty ^{xliii}	13%	13%
Unemployment ^{xliv}	2.5%	2.8%

Figure 13. Poverty, ECDHD District

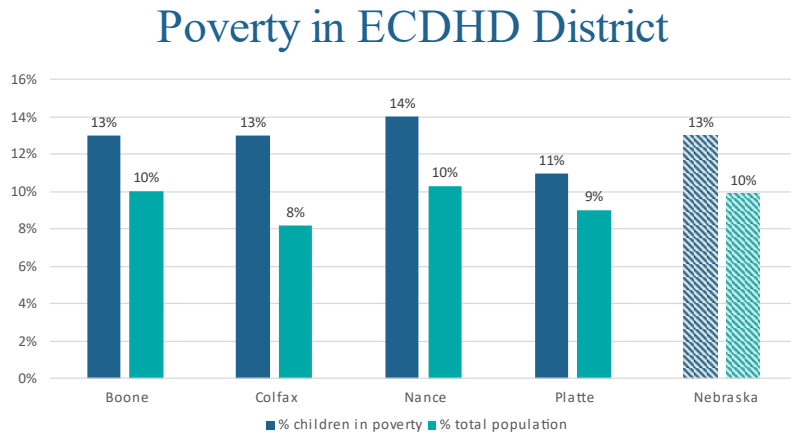


Figure 14. Access to food—% of population who lack adequate access to food, ECDHD District

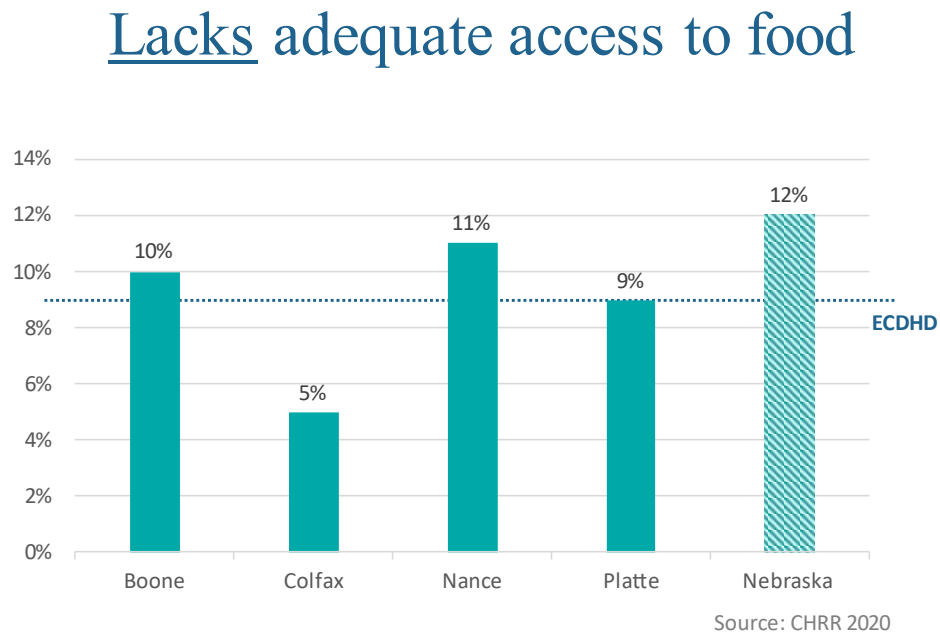
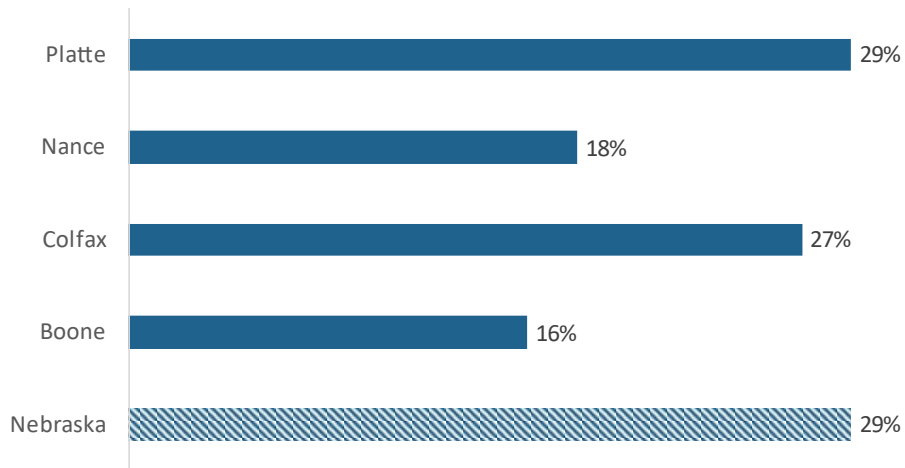


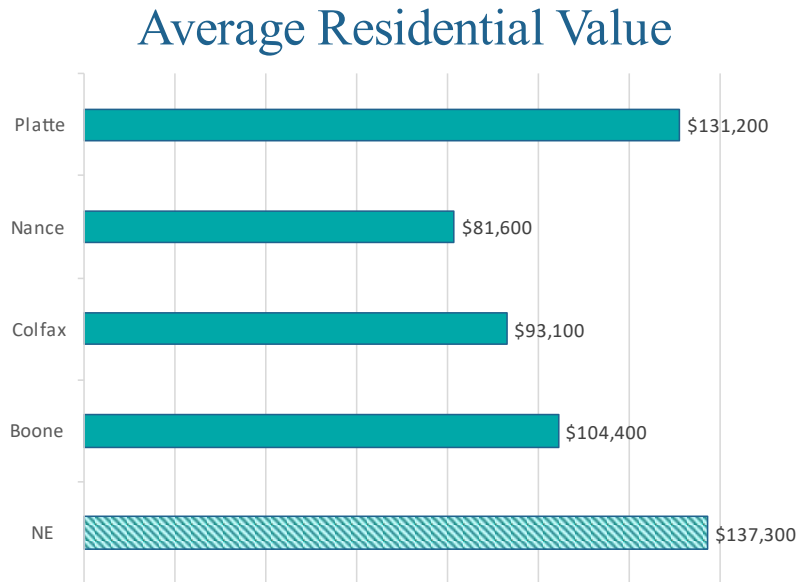
Figure 15. Children in Single-Parent Households, ECDHD District

Children in Single-parent Households



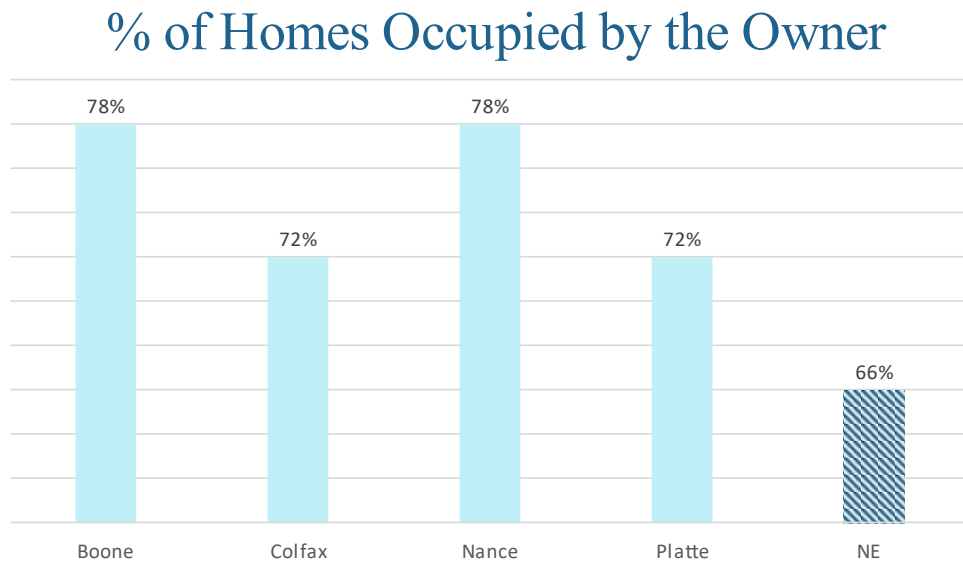
Source: County Health Rankings 2020

Figure 16. Average Residential Value, ECDHD District



Source: NE Dept of Revenue, 2017 Annual Report of the Property Assessment Division

Figure 17. Percentage of Homes Occupied by Owner, ECDHD District

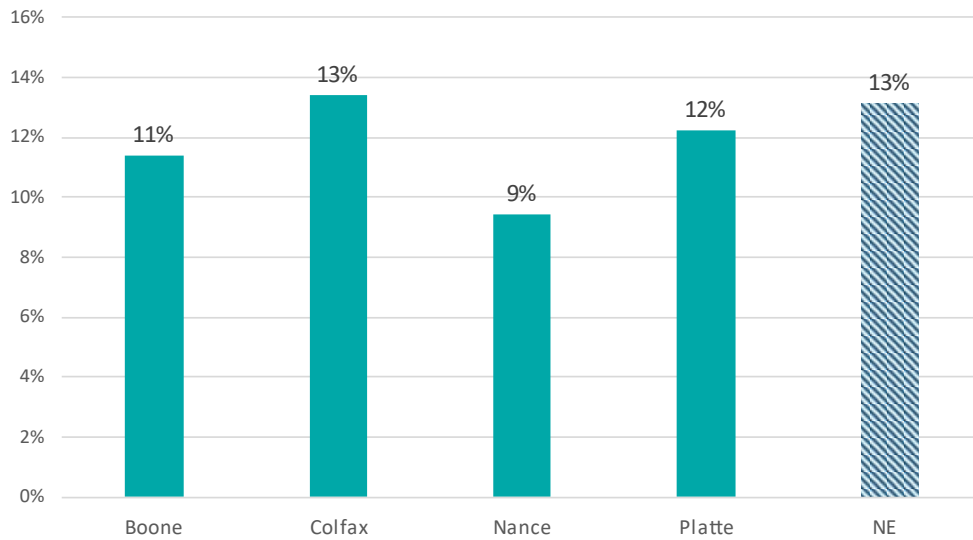


Source: US Census Bureau, 2012 -2016 American Community Survey 5-Year Estimate

Housing problems as an indicator is designed to understand the housing needs of low-income households. Figure 18 above is based on the percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities. While at least 1 in 10 households in each county within the ECDHD region experienced housing problems, all counties fall at or below the state rate (13%).

Figure 18. Percentage of Households with Severe Housing Problems, ECDHD District

% of Households with Severe Housing Problems



Source: US Dept of Housing and Urban Development, Comprehensive Housing Affordability Strategy, 2018

Educational Level

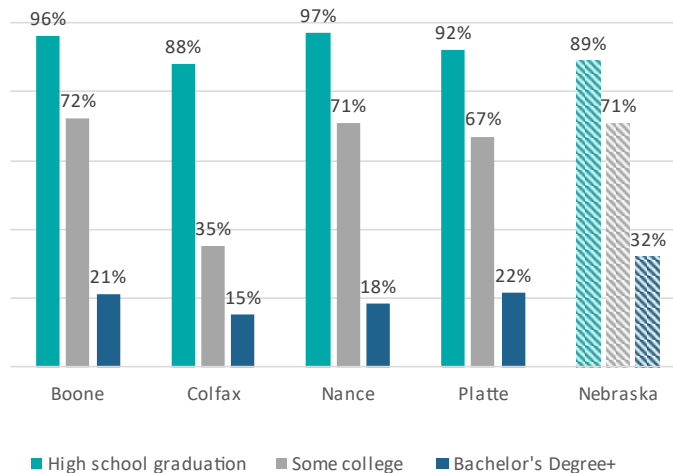
In terms of educational attainment, available data indicate the ECDHD region overall had a higher high school graduation rate (93%) than the state average (89%). ECDHD region had a slightly lower rate (61%) for adults who had some college (counties within the ECDHD district range from 35% to 72%) than the state (71%). Notably, there were stark disparities in educational attainment in Colfax County, the county with the most diverse population in terms of race/ethnicity in the ECDHD region as seen in Figure 19. The state and national averages (32%) for those who had completed a bachelor’s degree was higher than the average for all counties in the ECDHD region (range from 15% to 22%).

Table 5. Education Indicators, ECDHD District

Education Indicators	ECDHD region	Nebraska
High school graduation rate ^{xlv}	93%	89%
Some college ^{xlvi}	61%	71%
Bachelor’s degree or higher, percent of persons age 25+ ^{xlvii}	19%	32%

Figure 19. Education Levels, ECDHD District

Education in ECDHD District



Sources: High school graduation: Nebraska Dept of Education 2017/2018; some college: County Health Rankings 2018; Bachelor’s Degree: ACS2013-2017

Health Outcomes

The aforementioned social and economic factors, along with health behaviors, clinical care, and physical environment—otherwise known as modifiable health factors, directly impact how well and how long an individual lives. Furthermore, health outcomes (quality and length of life) are compounded by the presence *or the absence* of policies and programs that promote health and longevity.

Leading Causes of Death

Across the ECDHD district, cancer and heart disease were the leading causes of death, similar to state and national trends.

Table 6. *Leading Causes of Death, Nebraska & US*

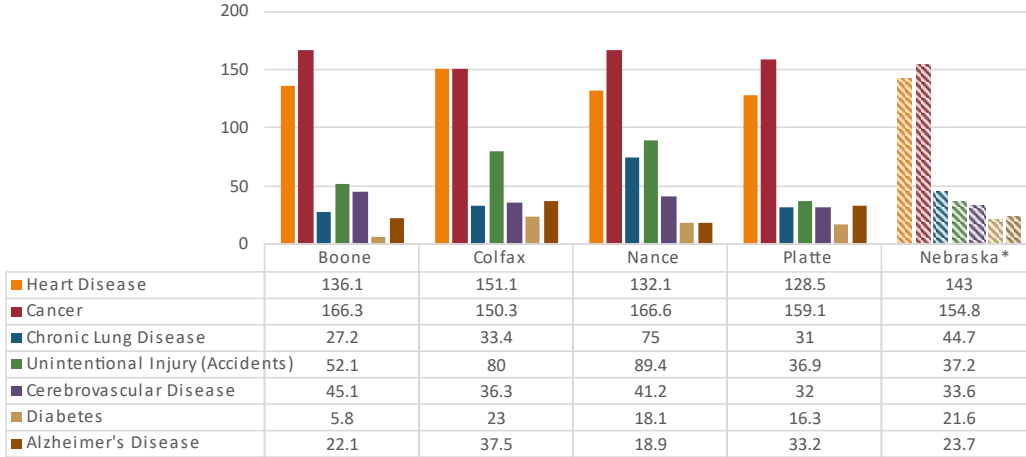
Leading Causes of Death	
Nebraska ^{xlviii}	United States ^{xlix}
1. Cancer	1. Heart disease
2. Heart disease	2. Cancer
3. Chronic lung diseases	3. Accidents (unintentional injuries)
4. Accidents	4. Chronic lower respiratory diseases
5. Cerebrovascular diseases	5. Stroke (cerebrovascular diseases)

Figure 20 illustrates the leading causes of death by county within the ECDHD region.¹ In most cases, counties within the ECDHD region have higher rates of death due to cancer, unintentional injuries/accidents and cerebrovascular diseases than does the state. Across all counties within the ECDHD region, Colfax County suffered higher death rates from all these chronic diseases (see Figure 20) than the state, with the exception of cancer (150.3 and 154.8 per 100,000 population, respectively) and chronic lung disease (33.4 and 44.7 per 100,000 population, respectively). Nance County was the only county within the ECDHD region that suffered higher death rates from chronic lung disease (75 per 100,000 population) than the state (44.7 per 100,000 population), nearly 70% higher than the state. While all counties within the ECDHD experienced higher death rates from unintentional injuries/accidents, Colfax and Nance counties experienced over 2 times as many deaths than the state (80, 89.4 and 37.2 per 100,000 population, respectively). Furthermore, Colfax County was the only county within the ECDHD region that experienced higher death rates from diabetes than the state (23 and 23.7 per 100,000 population, respectively). Most all of these leading causes of death are associated with the conditions in which individuals thrive, i.e. social, economic, and educational factors. These leading causes of death can be influenced by implementing evidence-based public health strategies that include healthy eating and active living, not smoking, wearing a seatbelt, and limiting alcohol consumption, and by removing barriers that prevent individuals and communities from accessing a healthy lifestyle.

Figure 20. Leading Causes of Death, ECDHD District

Leading Causes of Death

age-adjusted rate per 100,000 population (2012 -2016)



*Nebraska rates (ageadjusted to 2000 US population)
Source: NEDHHS Vital Statistics Report 2016

An indicator that helps communities focus on prevention is the Years of Potential Life Lost (YPLL), which is a measurement of premature death (mortality). YPLL is an estimate of the average years a person would have lived if he/she had not died prematurely—typically before the age of 75. YPLL emphasizes deaths of younger persons, whereas statistics that include all mortality are dominated by deaths of the elderly.ⁱⁱ From available data, Figure 21ⁱⁱⁱ illustrates the average Years of Potential Life Lost for each county within the ECDHD region compared to the state in 2000.

Colfax County had a higher YPLL than the state and other counties in the ECDHD district, which may be due to having had higher death rates than the state and other counties in the ECDHD district.

Figure 21. Years of Potential Life Lost (YPLL), ECDHD District

Years of Potential Life Lost (YPLL)

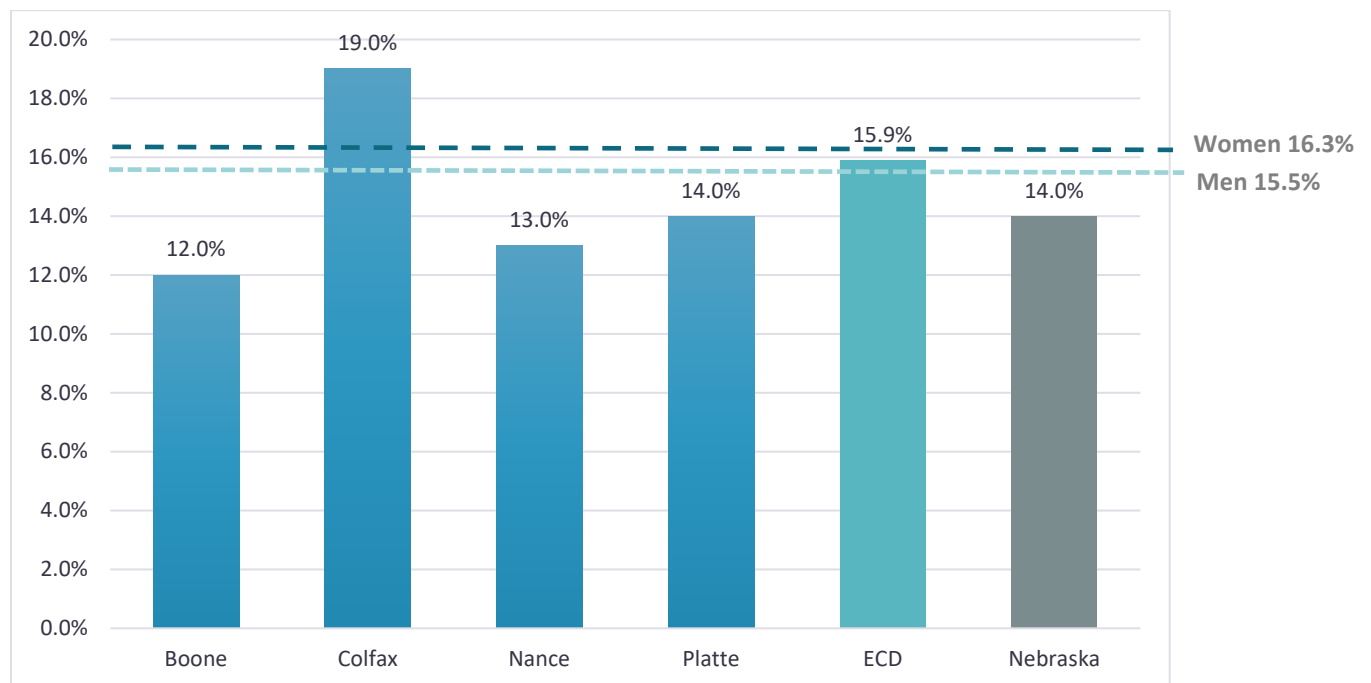


Source: County Health Rankings 2020

General Health

General health in the ECDHD region is slightly worse than Nebraska as a whole, with 15.9% reporting fair or poor health compared with 14% across Nebraska. General health varies slightly by sex, with more women than men reporting fair or poor health. Importantly, general health varies considerably by county with residents of Colfax County reporting the worse health and Boone County reporting the best. While data are not available for general health by race or ethnicity, Colfax County has the lowest proportion of White residents and the highest proportion of Hispanic/Latino residents of the four counties that make up ECDHD region. Alternatively, Boone County has the highest proportion of White residents and the lowest of Hispanic/Latino residents. General health may be impacted by race/ethnicity, but additional information is needed.

Figure 22. Proportion of people reporting poor or fair general health.^{liii}



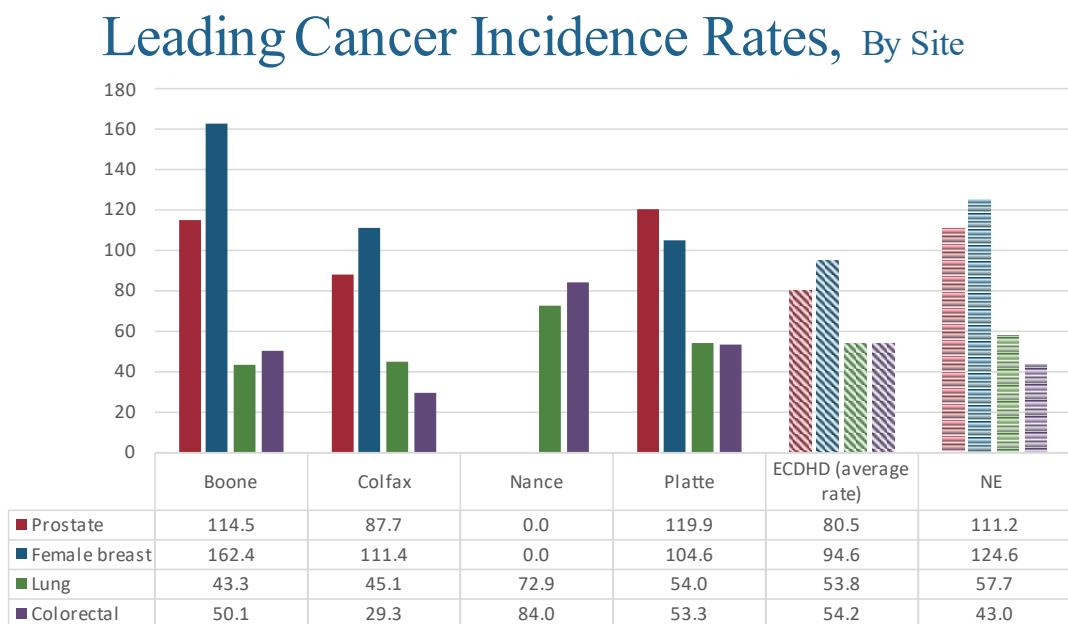
Leading Causes of Chronic Disease

Four out of five of the leading causes of death in Nebraska were chronic diseases, including heart disease, cancer, chronic lung disease and cerebrovascular disease. In addition to diabetes, these chronic diseases were the most common, costly and preventable of all health problems in the U.S.^{liv} Furthermore, deaths by chronic disease comprised nearly 50% of the Years of Potential Life Lost (YPLL) among Nebraskans.^{lv} These leading types of chronic disease are generally preventable, and many of them are caused by barriers set up at all levels of society preventing individuals access to opportunities to live the healthiest life possible, no matter who we are, where we live or how much money we make.

Cancer

Cancer is a leading cause of death in the ECDHD district and across the state. Four of the most common cancers are breast, colorectal, lung, and prostate. In the ECDHD region, female breast cancer was the leading type of cancer diagnosed (94.6/100,000 population), especially in Boone County (162.4/100,000 population) which was a 30% increase over the state rate (124.6/100,000 population). Prostate cancer followed as a close second for ECDHD district (80.5/100,000 population), especially in Platte (119.9/100,000 population) and Boone counties (114.5/100,000 population) which were higher than the state rate (111.2/100,000 population). Colorectal cancer (54.2/100,000 population) in the ECDHD region, specifically in Boone and Nance counties (50.1 and 84.0/100,000 population) was higher than the state rate (43.0/100,000 population). Of note, colorectal cancer in Nance County was nearly double the state rate (84.0/100,000 population).

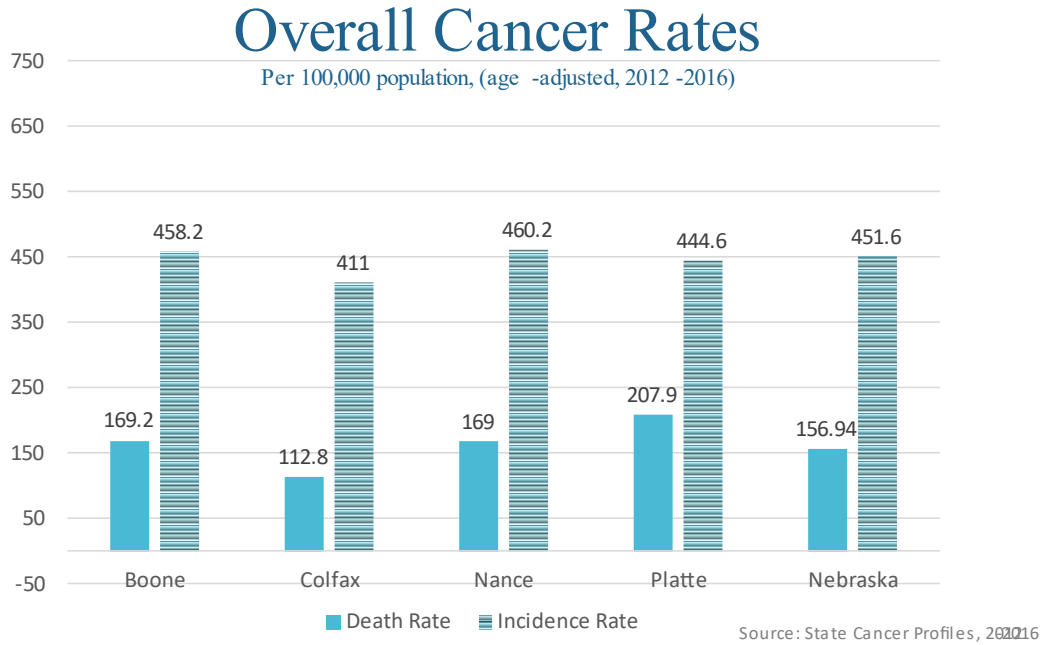
Figure 23. Incidence of Common Cancers per 100,000 people.



Source: State Cancer Profiles, 2016

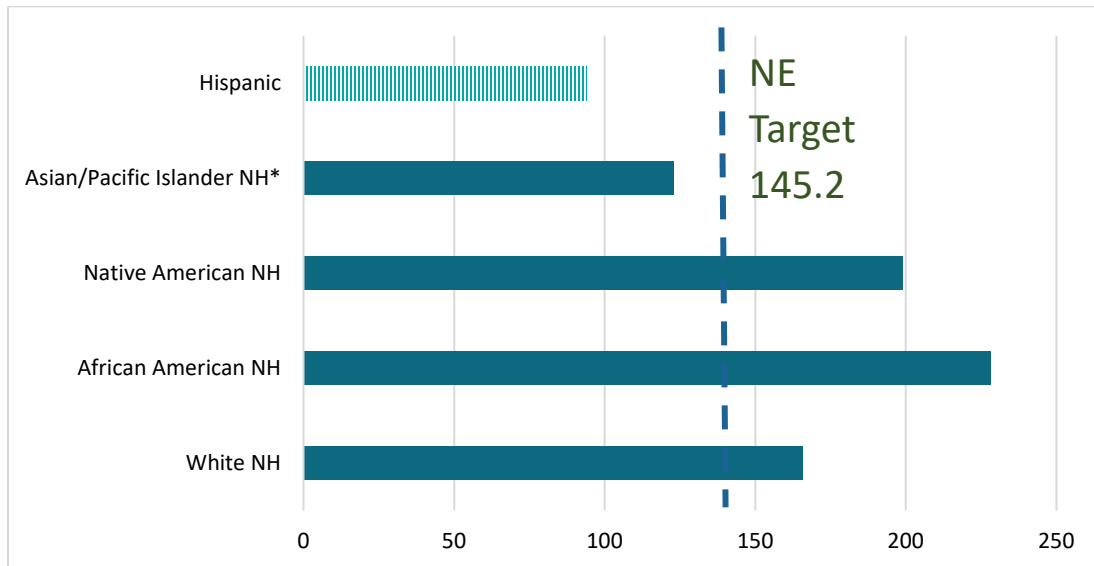
Across the ECDHD, 10% of people have ever been told they have cancer. This rate is slightly higher for women (11%) than for men (9%). The rate of people being diagnosed with cancer each year is slightly lower in Colfax County than the other three counties within the ECDHD region. Additionally, fewer people in Colfax County die of cancer each year.

Figure 24. Overall Cancer Rates—Incidence and Death, ECDHD District.



Cancer mortality data by race and ethnicity was not readily available for the ECDHD district. Native Americans, African Americans and Whites across Nebraska had cancer mortality rates in excess of the state target of 145.2/100,000 population (see Figure 25).

Figure 25. Cancer Mortality Rates--Nebraska Racial/Ethnic Comparison (per 100,000 population), ECDHD District

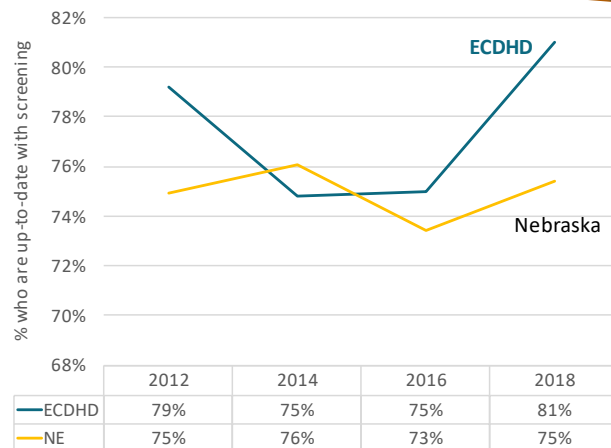


*NH = Non-Hispanic

Female breast cancer was the leading type of cancer diagnosed in the ECDHD district (see Figure 23).^{lv} Monthly breast exams and regular mammograms are key to catching female breast cancer early and preventing death from female breast cancer.

Figure 26. Breast cancer screening rates, ages 50-75-- ECDHD District

1 in 4 women ages 50-75 in ECDHD are **NOT** up-to-date on Breast Cancer Screening



Source: BRFSS 2011 -2019

Figure 27. Breast cancer screening rates, ages 65-74-- ECDHD District

1 in 2 women ages 65-74 in ECDHD are **NOT** up-to-date on Breast Cancer Screening

Source: CHRR 2020

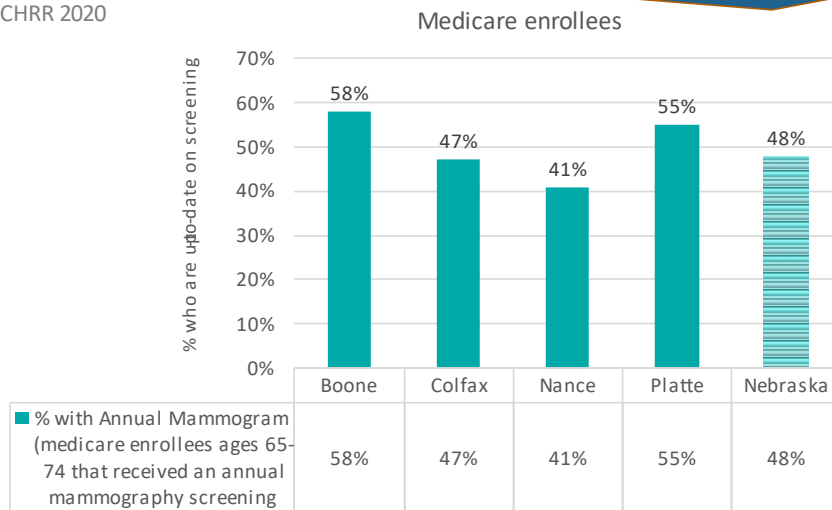
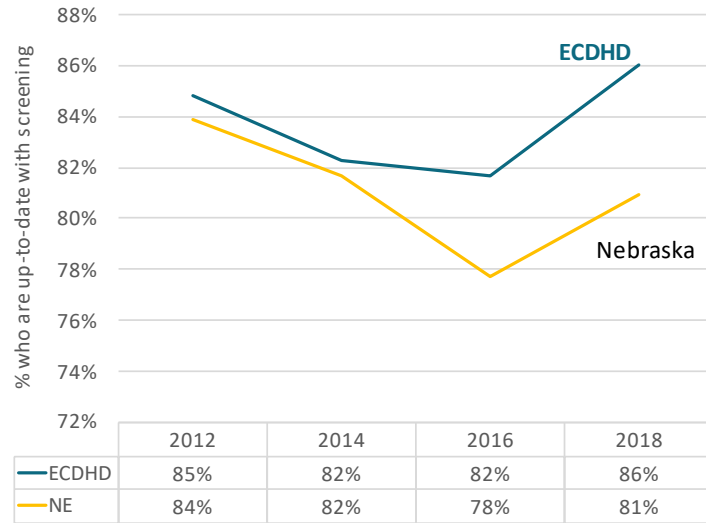


Figure 28. Cervical cancer screening rates, ages 21-65-- ECDHD District

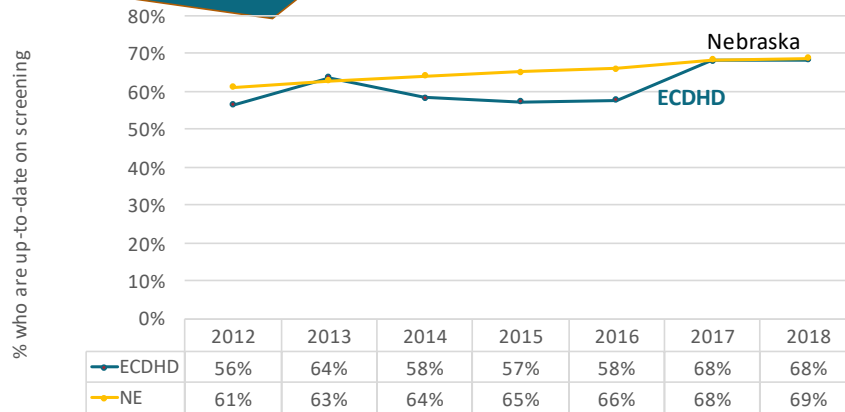
1 in 6 women aged 21-65 in ECDHD are **NOT** up-to-date on Cervical Cancer Screening



Source: BRFSS 2011 -2019

Figure 29. Colon cancer screening rates, ages 50-75-- ECDHD District

1 in 3 50-75 year olds in ECDHD are **NOT** up-to-date on Colon Cancer Screening



Source: BRFSS 2011 -2019

Tobacco and Nicotine Product Usage

Tobacco smoking remains the leading cause of lung cancer, responsible for about 80% of lung cancer deaths. Other causes include exposure to secondhand smoke and radon.^{lvii} Cigarette smoking is the leading cause of preventable disease and death in the US. According to the CDC, the smoking rate among adults in the US has dropped from 20.9% in 2005 to 15.5% in 2016.^{lviii} According to the County Health Rankings, the smoking rate among adults in the ECDHD region was 15%^{lix}, similar to the state smoking rate (see Figure 30); however, the smoking rate in ECDHD region remains higher than the Healthy People 2020 target (12%).

Figure 30. Tobacco Use—Adult Smoking Rates, ECDHD District

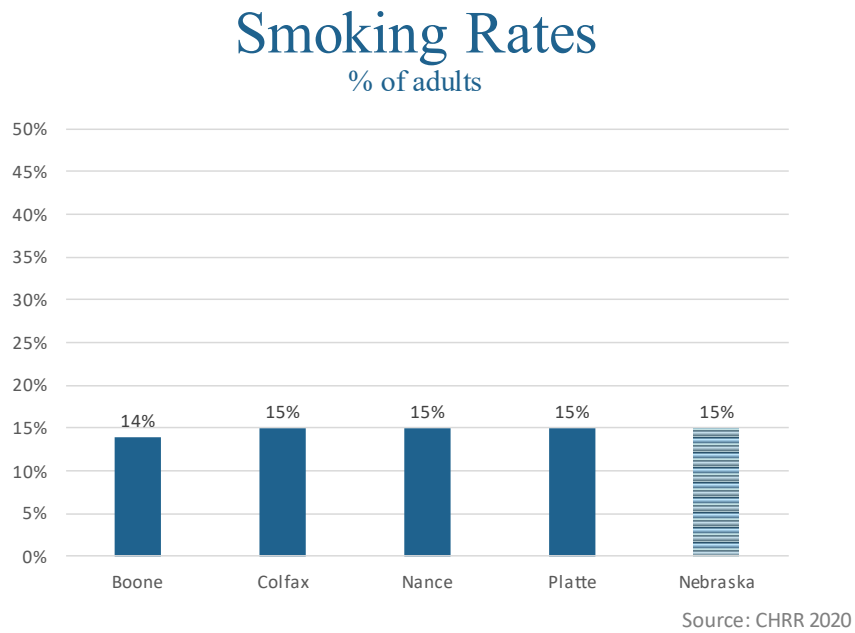
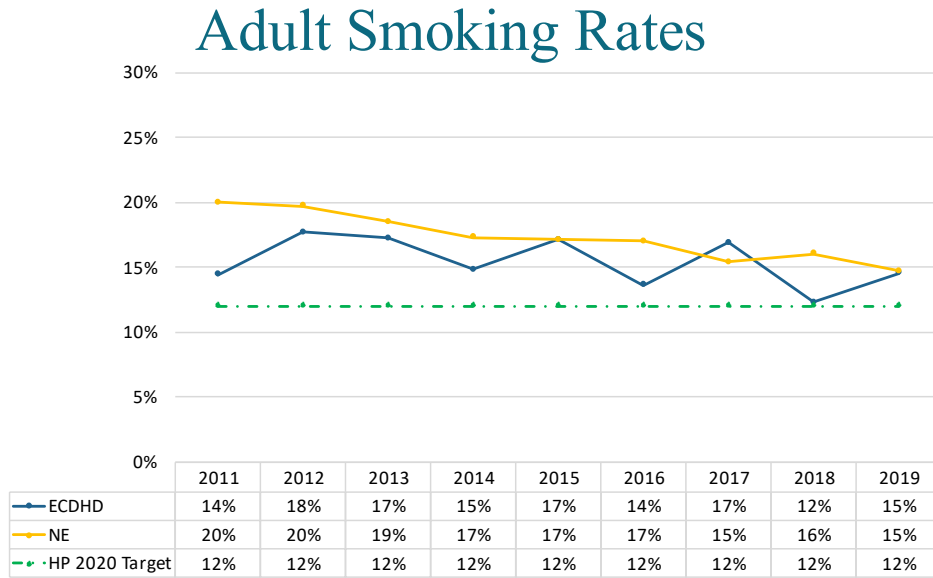
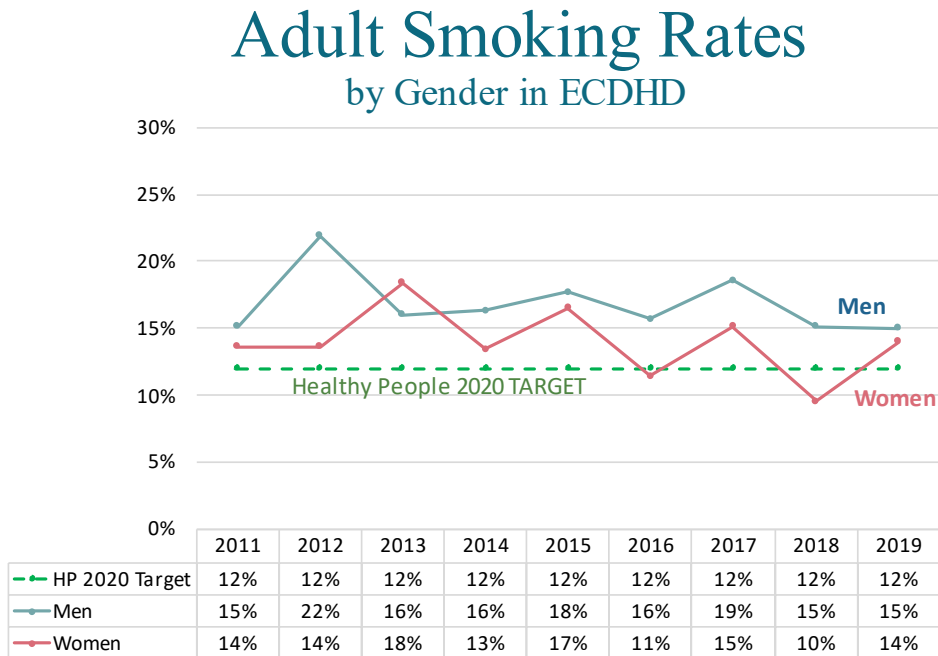


Figure 31. Tobacco Use—Adult Smoking Rates over time, ECDHD District



Source: BRFSS 2011 -2019

Figure 32. Tobacco Use--Smoking Rates by gender, ECDHD District



Source: BRFSS 2011 -2019

While Nebraska has a clean indoor air ordinance prohibiting smoking in all government and private workplaces, schools, childcare facilities, restaurants, bars, casinos/gaming establishments, retail stores and recreational/cultural facilities, tobacco products are relatively easy to access and inexpensive. Nebraska’s tobacco tax is \$0.64 per pack, \$1.09 lower than the national average, ranking Nebraska 42nd in the US for its cigarette tax^{lx}.

The most commonly used tobacco product among youth was e-cigarettes, and e-cigarette usage among youth increased more than any other age group in recent years (see Figures 33, 34, 35, and 36). E-cigarettes are devices that heat liquid solution to produce an aerosol that is inhaled. E-cigarettes contain varying amounts of nicotine depending on the type of e-cigarette; and although considered less harmful to individual health than inhaling smoke from combustible tobacco, still deliver harmful chemicals. E-cigarettes can be addictive due to the nicotine content.^{lxi} E-cigarettes are marketed to youth with strategies that have been heavily regulated to reduce youth consumption of combustible cigarettes, i.e., kid-friendly flavors, scholarship opportunities for school, online/mobile and TV ads.^{lxii} Nebraska has experienced marked increases in e-cigarette use among youth.

Figure 33. Tobacco Use--Youth E-Cigarette Use Rate, Nebraska

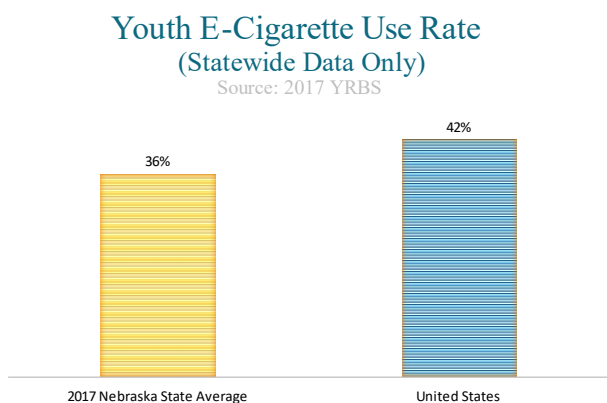


Figure 34. Tobacco Use--Youth E-Cigarette Use Rate, over time, Nebraska

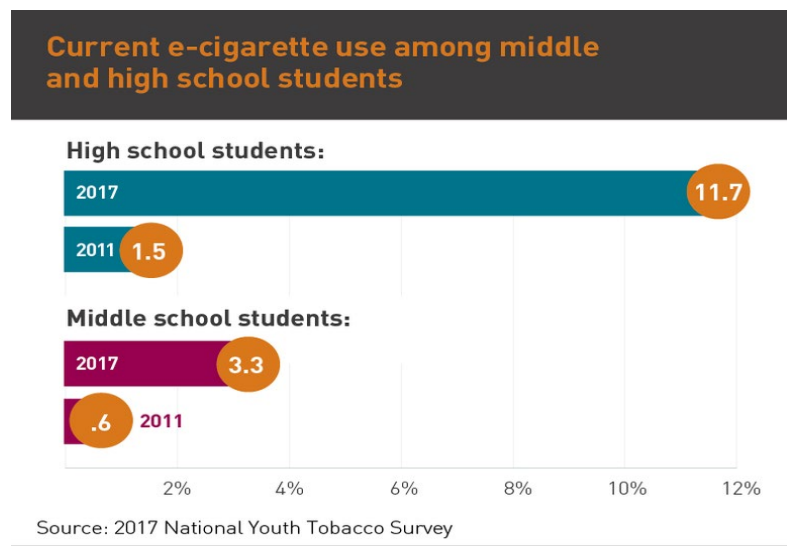


Figure 35. Tobacco Use—Other Tobacco Product Use Rate, Nebraska

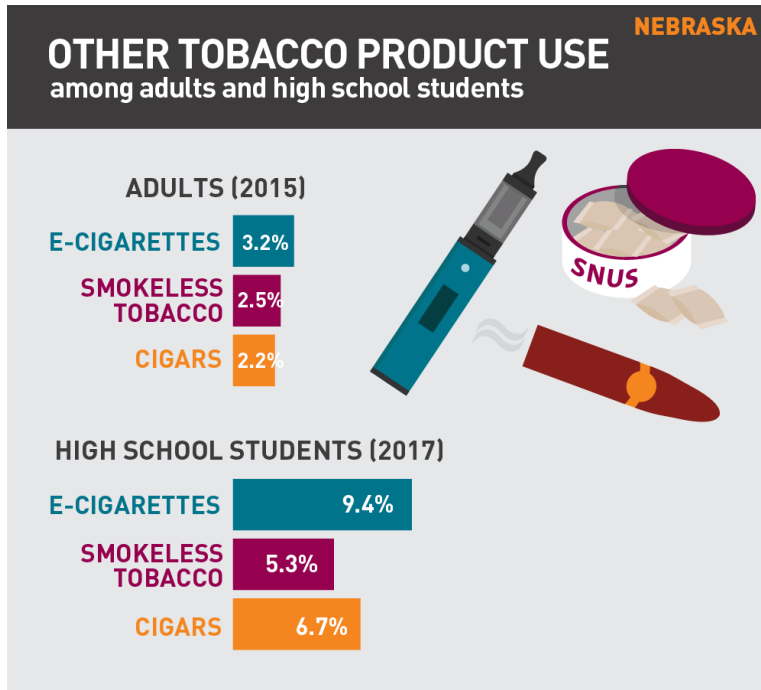
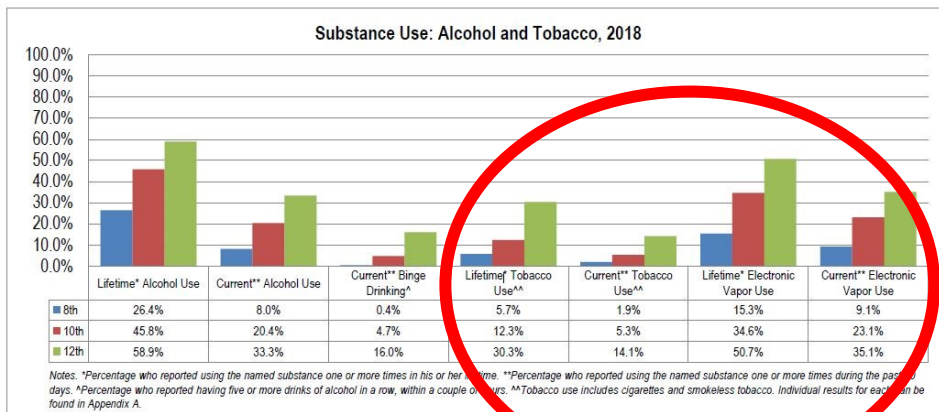


Figure 36. Tobacco and Alcohol Use—Youth Use Rate, ECDHD District^{lxiii}

Alcohol and Tobacco Use of Youth in ECDHD District Grades 8, 10, and 12



Source: 2018 Results from Nebraska Risk & Protective Factors Student Survey

Heart Disease

Heart disease is one of the top two leading causes of death in the ECDHD district and across the state. In addition to environmental changes, leading a healthy lifestyle, including active living, healthy eating, not smoking and limiting alcohol use, and/or managing other medical conditions, high cholesterol, high blood pressure, or diabetes, reduces the risk of heart-related diseases, including heart attack and stroke. In Nebraska, non-Hispanic, White (81.1/100,000), African American (93.9/100,000), and Native American (94.6/100,000) populations have a higher rate of death due to heart disease than the state (77.4/100,000).^{lxiv}

In terms of high blood pressure, an indicator of heart disease, adults living in Nance County experienced a higher rate of high blood pressure than adults living in other counties within the ECDHD region or in Nebraska (25%). Additionally, more females than men living in ECDHD region have been told they have high blood pressure, are taking blood pressure medications and have higher cholesterol levels (see Table 7). According to Good Neighbor Patient Data (2020), non-Hispanic adults experience higher rates than Hispanic adults, similarly, men experience higher rates of high blood pressure than women (see Figure 38).

Figure 37. Blood Pressure Rates by County, ECDHD District^{lxv}

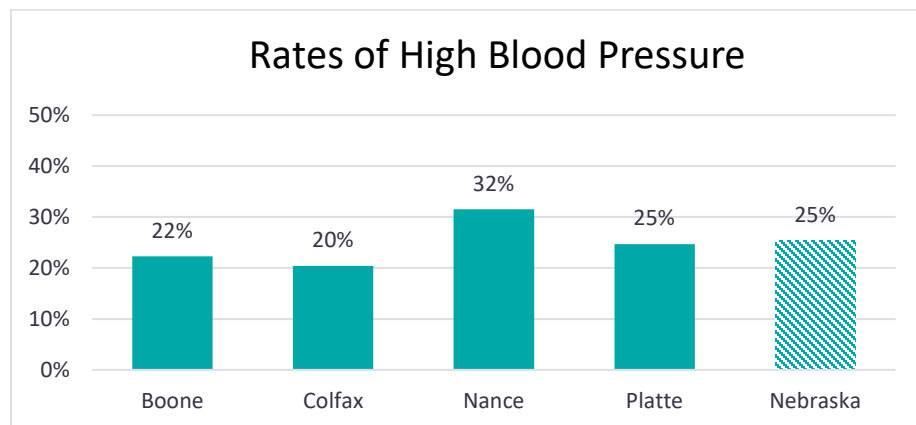


Table 7. Heart Disease Indicators, ECDHD District-BRFSS 2011-2019

Heart Disease Indicators ^{lxvi}	NE	ECDHD Region		
		Overall	Female	Male
Ever told they have high blood pressure (excluding pregnancy)	31%	31%	34%	29%
Currently taking blood pressure medication, among those ever told they have high BP	78%	83%	87%	80%
Ever told they have high cholesterol, among those who have ever had it checked	31%	32%	34%	29%

Figure 38. Blood Pressure Rates by Race/Ethnicity/Gender, ECDHD District, Good Neighbor Clinic data

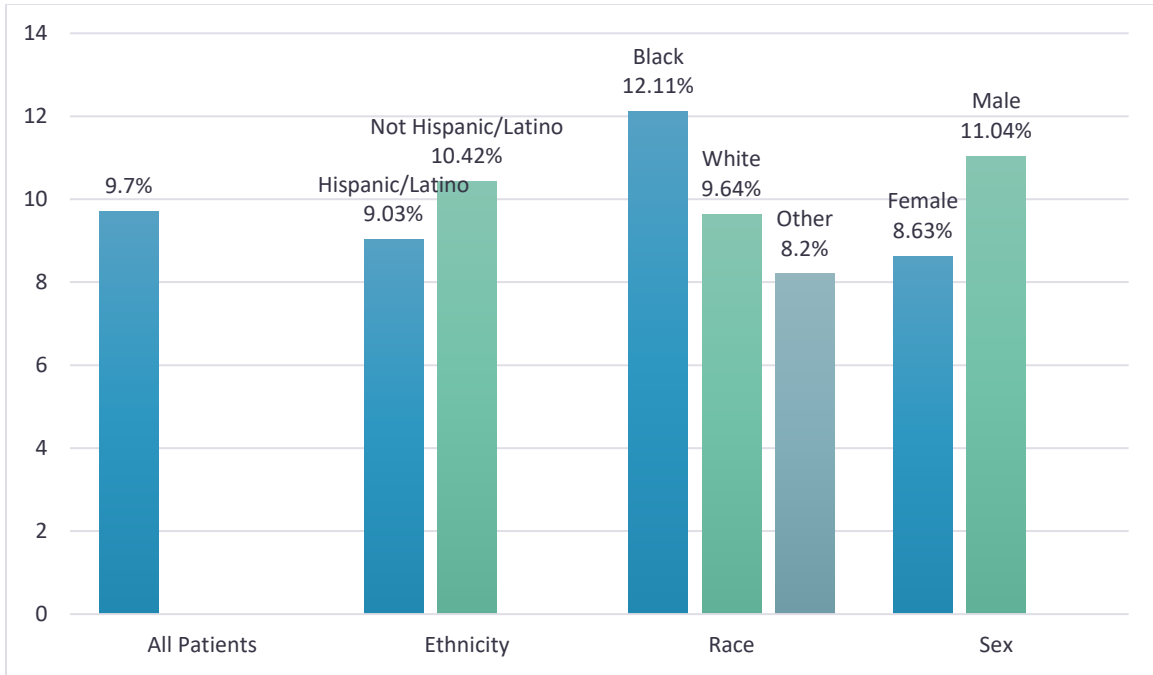
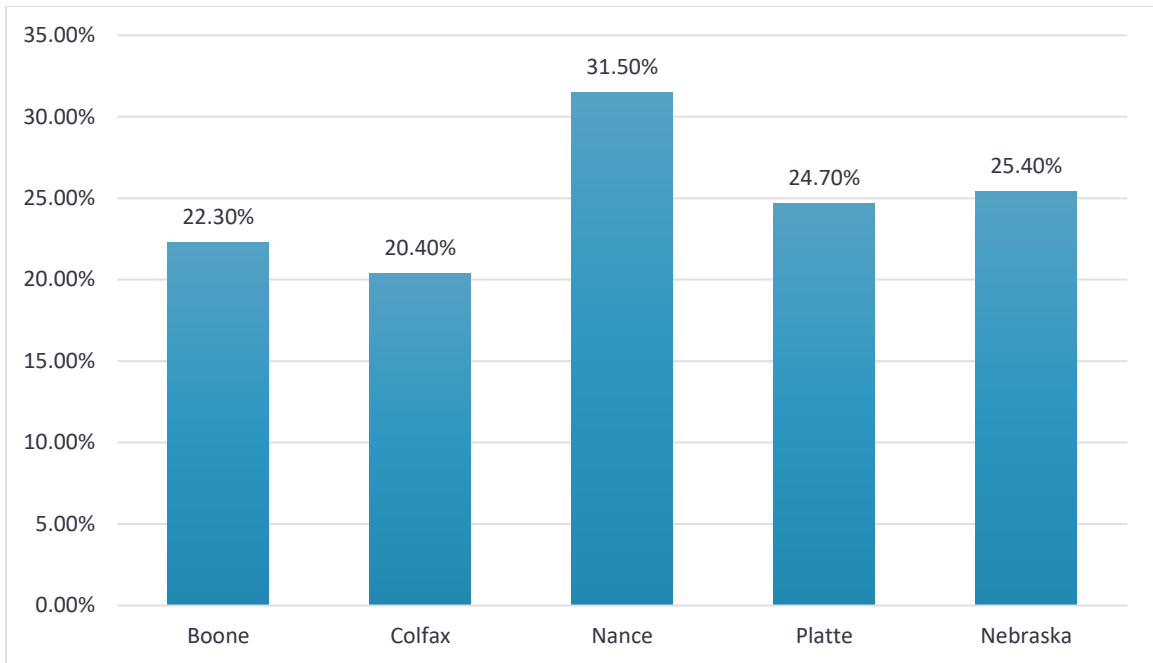


Figure 39. Blood Pressure Rates by County, ECDHD District, Good Neighbor Clinic data



Overweight/Obesity

According to the 2020 County Health Rankings, over 1 in 3 adults in the ECDHD district were considered obese (Body Mass Index [BMI] = 30+), similar to the state (32%). Over 80% of men and nearly 70% of women were obese. According to data from Good Neighbor, a Federally Qualified Health Center located in Platte County, nearly 3 out of 4 adult patients were overweight (BMI = 25+) or obese, higher than the state rate (67%), and over 1 in 3 adult patients were obese (BMI = 30+). More men than women patients and more Hispanic than non-Hispanic patients were obese. Platte County has the highest obesity rate (36%) among all counties within ECDHD region and Nance County has the lowest obesity rate (31%).

Figure 39. Obesity Rates, ECDHD District

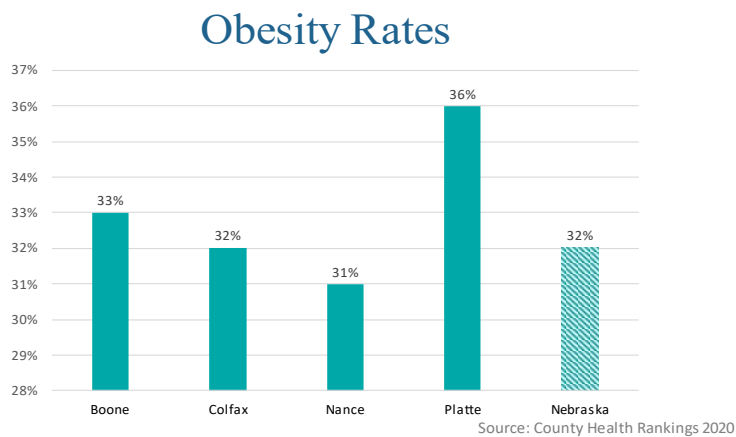


Table 8. Overweight/Obesity Rates, ECDHD

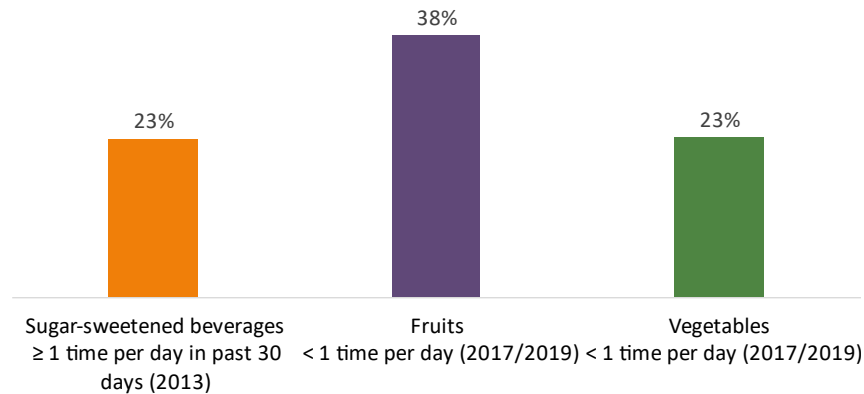
Overweight/Obesity Rates	Good Neighbor Patients ^{lxvii}		BRFSS ^{lxviii}	
	BMI=25-29	BMI=30+	BMI=25-29	BMI=30+
Nebraska (CHRR 2020)			35%	32%
ECDHD District			36%	39%
Men	27%	43%	82%	
Women	39%	33%	67%	
Hispanic	35%	36%		
Non-Hispanic, White	41%	31%		
Black	67%			
White	72%			
Other Race	63%			

Physical Activity and Nutrition

According to the County Health Rankings, nearly 40% of adults in this area reported consuming fruits less than 1 time per day (Healthy People 2020 goal = .93 cup/1,000 calories or 1 whole fruit), and nearly 1 in 4 adults consumed vegetables less than 1 time per day (Healthy People 2020 goal = 1.16 cup/1,000 calories).

Figure 40. Physical Activity—Adequate access to locations for physical activity, ECDHD District

How often adults in ECDHD consume Sugar-sweetened Drinks, Fruits, Vegetables

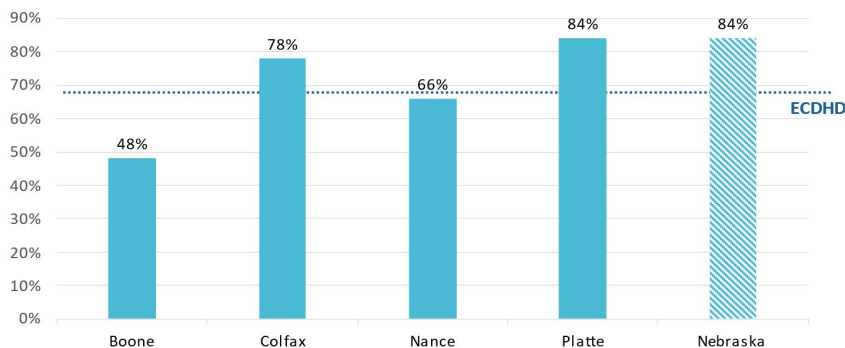


Source: BRFSS 2011-2019

Despite the majority of adults (69%)^{lxix} in the ECDHD region indicating that they had adequate access to locations for physical activity, over 1 in 4 adults reported no leisure-time physical activity in the past 30 days. Among all counties within the ECDHD region, Platte County had the highest number of adults who reported adequate access to locations for physical activity (84%) and the lowest number of adults who reported no leisure-time physical activity in the past 30 days (23%), yet Platte County had the highest obesity rate (36%) across the ECDHD region. More information is needed to understand why.

Figure 41. Physical Activity—Adequate access to locations for physical activity, ECDHD District

Adequate access to locations for physical activity



Source: CHRR 2020

Figure 42. Physical Activity—No Leisure-Time, ECDHD District

“No leisure-time physical activity in past 30 days.”

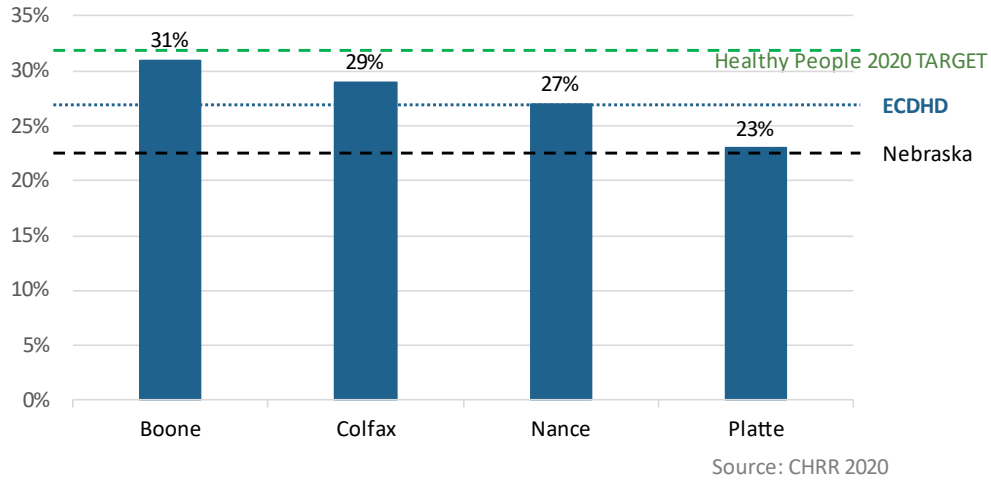
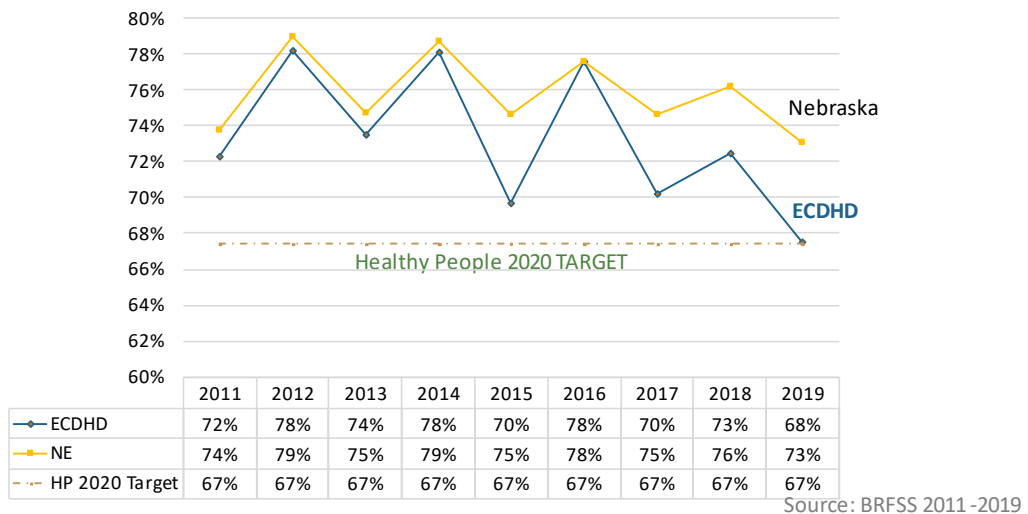


Figure 43. Physical Activity—At Least Some Leisure-Time, ECDHD District

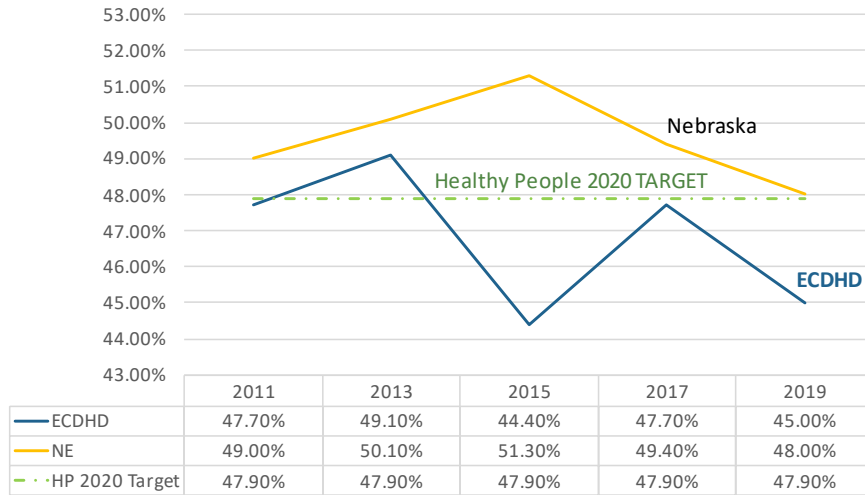
Reported At Least Some Leisure-time Physical Activity in Past 30 Days



Over 50% of people in the ECDHD region did not meet the aerobic physical activity recommendations (at least 150 minutes of moderate-intensity physical activity per week—such as brisk walking or 75 minutes of vigorous physical activity per week). Healthy eating and active living are key to preventing chronic disease.

Figure 44. Physical Activity—Met Recommendations, ECDHD District

Met Aerobic Physical Activity Recommendation



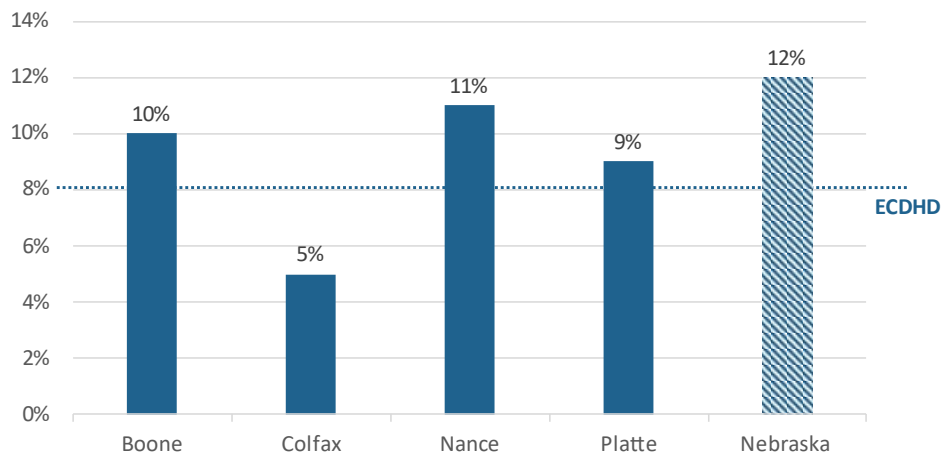
Source: BRFSS 2011-2019

Active living and access to foods, namely healthy foods, are keys to preventing chronic disease. While lower than the state rate, nearly 1 in 10 residents in ECDHD are food insecure, lacking adequate access to food. Likewise, nearly 1 in 12 low-income residents do not live close to a grocery store in the ECDHD region making access to healthy foods challenging.

Figure 45. Access to healthy foods—limited access, ECDHD District

Limited access to healthy foods

% of population who are low-income and do not live close to a grocery store

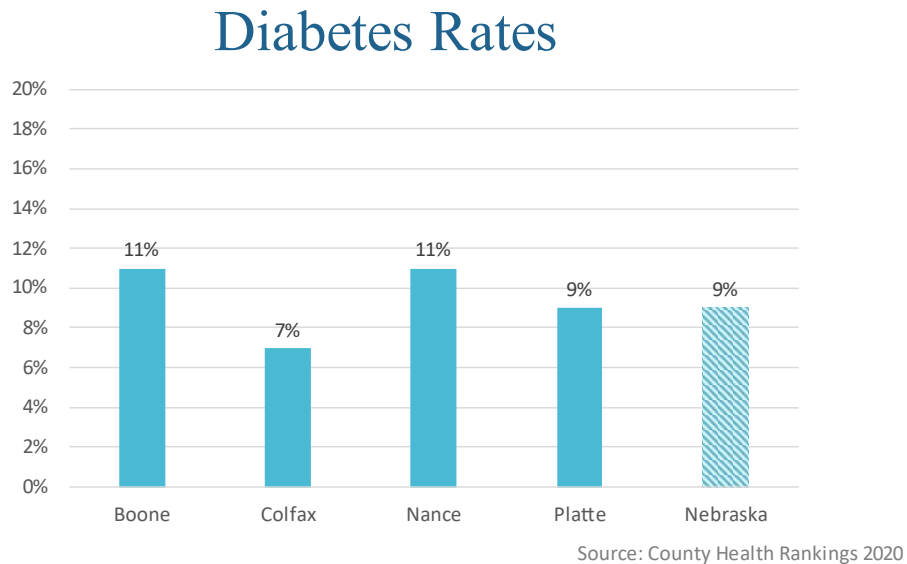


Source: CHRR 2020

Diabetes

Diabetes is a chronic disease that impacts how a body gets energy from food. Diabetes is the 7th leading cause of death in the US with more than 88 million US adults diagnosed with diabetes. Over the past 20 years, the number of adults diagnosed with diabetes has more than doubled. Overweight/obesity and age are factors that impact the risk of diabetes.^{lxx} Often times, diabetes and heart disease are co-occurring. A person with diabetes is 2 times more likely to have heart disease or stroke, the leading causes of death.^{lxxi} Generally, diabetes rates in ECDHD region are similar to the state rate. However, Boone and Nance counties experience a slightly higher diabetes rate than the other counties within ECDHD perhaps due to a higher proportion of an aging population in these two counties.

Figure 46. Diabetes rates—by county, ECDHD District



There are racial/ethnic disparities when looking at the state diabetes rates with African American/Black (15%), American Indian/Alaskan Native (16%) and Hispanic (14%) populations who experience higher rates of diabetes than non-Hispanic, Whites across the state. While we do not have race/ethnicity data for diabetes by county, racial/ethnic groups experience higher rates of diabetes in ECDHD according to Good Neighbor Patient data (a FQHC located in Platte County that serves ECDHD residents), see Figure 47. In ECDHD, men generally have higher diabetes rates than women.

Figure 47. Diabetes rates—by race and ethnicity, NE and ECDHD District

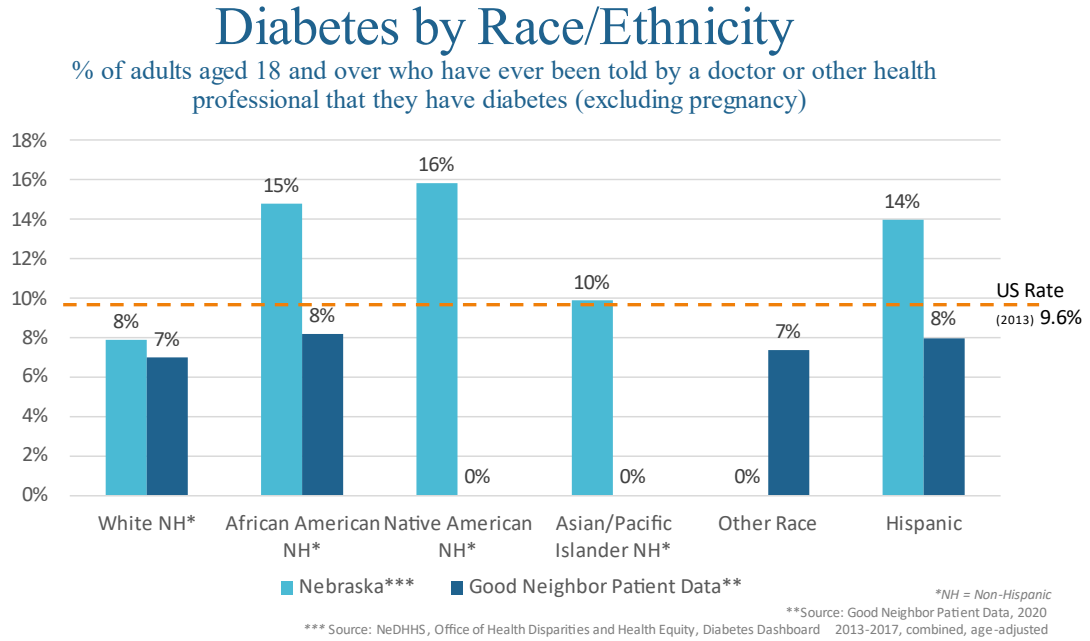


Table 9. Diabetes rates—by gender, ECDHD District

	Diabetes Rates	
	Good Neighbor Patient Data (2020)	BRFSS ^{lxvii}
Nebraska (CHRR 2020)		9%
ECDHD District	7%	9%
Men	8%	12%
Women	7%	8%

Leading Causes of Injury

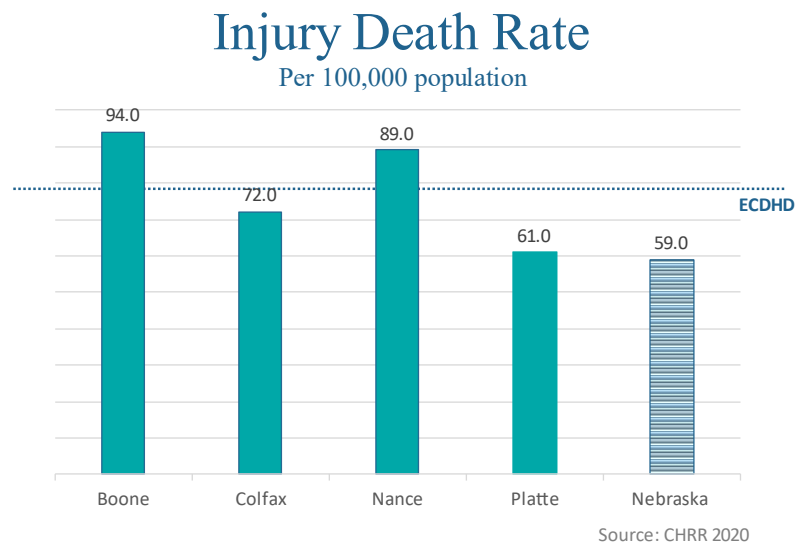
Deaths by injury comprised approximately 20% of the total YPLL among Nebraskans.^{lxxiii}

Table 10. Leading causes of injury, Nebraska

Leading causes of <i>death</i> by injury in Nebraska (2009-2013)	Leading causes of <i>hospitalizations</i> due to injury in Nebraska (2009-2013)
1. Motor vehicle crashes	1. Unintentional falls
2. Suicide	2. Unintentional injuries due to motor vehicle traffic
3. Unintentional falls	3. Self-inflicted injuries
4. Unintentional poisoning	

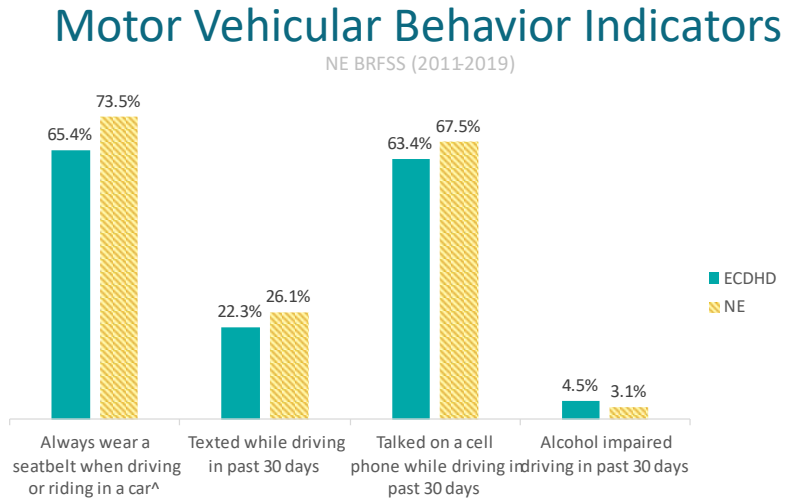
In the ECDHD district, all counties experienced higher rates of death by injury than the state. While specific county-level data is not readily available around the leading causes of death, of particular note, the death by injury rate in Boone County was about 50% higher than the state (see Figure 48^{lxxiv}).

Figure 48. Injury Death Rate (per 100,000), ECDHD District



According to the Behavioral Risk Factor Surveillance System (BRFSS) 2019, over 4% of adults in the ECDHD reported driving under the influence of alcohol in the past 30 days, higher than the state rate (3%). Other risky behaviors while driving a vehicle in the ECDHD district did not surpass the state average; however, 1 in 4 ECDHD adults reported texting while driving a vehicle, 2 of 3 ECDHD adults did not always wear a seatbelt when driving or riding in a car and nearly 2 of 3 adults in the ECDHD district talked on a cell phone while driving in the past 30 days.

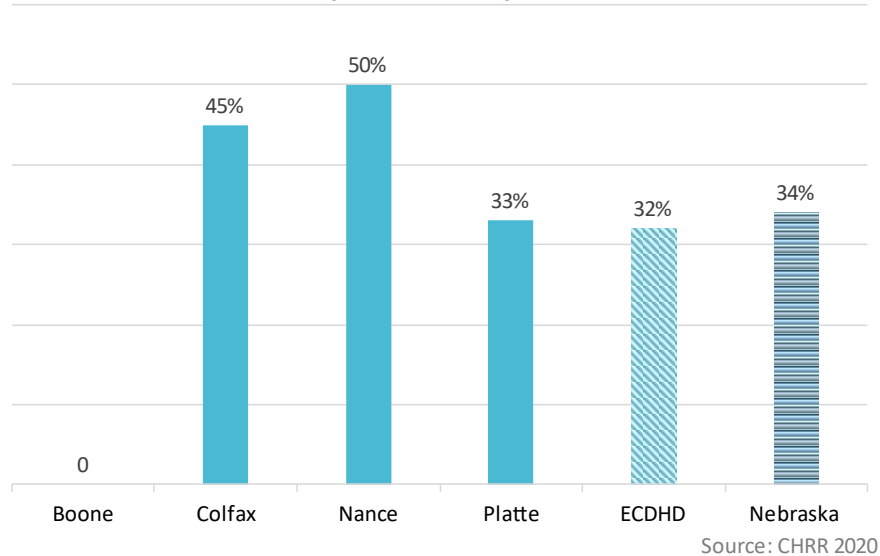
Figure 49. Motor Vehicular Behavior Indicators, ECDHD District



The death rate caused by alcohol-impaired driving in the ECDHD district (32%) was similar to the state rate (34%)^{lxv}. Specifically, Colfax and Nance counties experienced higher death rates caused by alcohol-impaired driving than the state (see Figure 50).

Figure 50. Alcohol-Impaired Driving--Death Rate, ECDHD District

Alcohol-impaired Driving Death Rate by County



Behavioral/Mental Health and Related Risk Factors

Mental health impacts a person’s ability to maintain good physical health and vice versa. Mental health is strongly associated with the risk, prevalence, progression, outcome, treatment and recovery of chronic diseases, including diabetes, heart disease and cancer. Good mental health is essential for a person to live a healthy and productive life.^{lxxvi}

According to the Nebraska Behavioral Health Needs Assessment in 2016, mental health illness was a common health problem in Nebraska. One in five Nebraskans reported any mental illness—defined as any diagnosable mental, behavioral or emotional disorder other than substance use disorder. Nebraska’s rate is similar to the US rate (18.13%). Concerning, although less common, 4%-7% of Nebraskans reported having serious thoughts of suicide, a major depressive episode, or serious mental illness—defined as a mental disorder causing significant interference with one or major life activity.

Table 11 below summarizes key mental health indicators for Nebraska and the ECDHD district from the 2020 County Health Rankings. Compared to the state, as a whole, ECDHD is relatively aligned across all three indicators with the exception of Colfax County, which reported an increased percentage of adults who stated their general health was fair to poor.

Table 11. Mental Health indicators in ECDHD District (CHRR 2020)

	General health fair or poor	Average days mental health was not good in past 30 days	Mental health was not good on 14 or more of the past 30 days (i.e., frequent mental distress)
Nebraska	14%	3.5	10%
ECDHD District	15%	3.3	10%
Boone	12%	3.3	9%
Colfax	19%	3.3	10%
Nance	13%	3.4	10%
Platte	14%	3.3	9%

Table 12 below summarizes additional mental health indicators for Nebraska and the ECDHD district from BRFSS by gender. Compared to the state, as a whole, adults in ECDHD experience slightly lower rates of depression and average days with limited activities due to poor mental/physical health. When looking at these three indicators by gender in ECDHD, twice as many females experience depression than males.

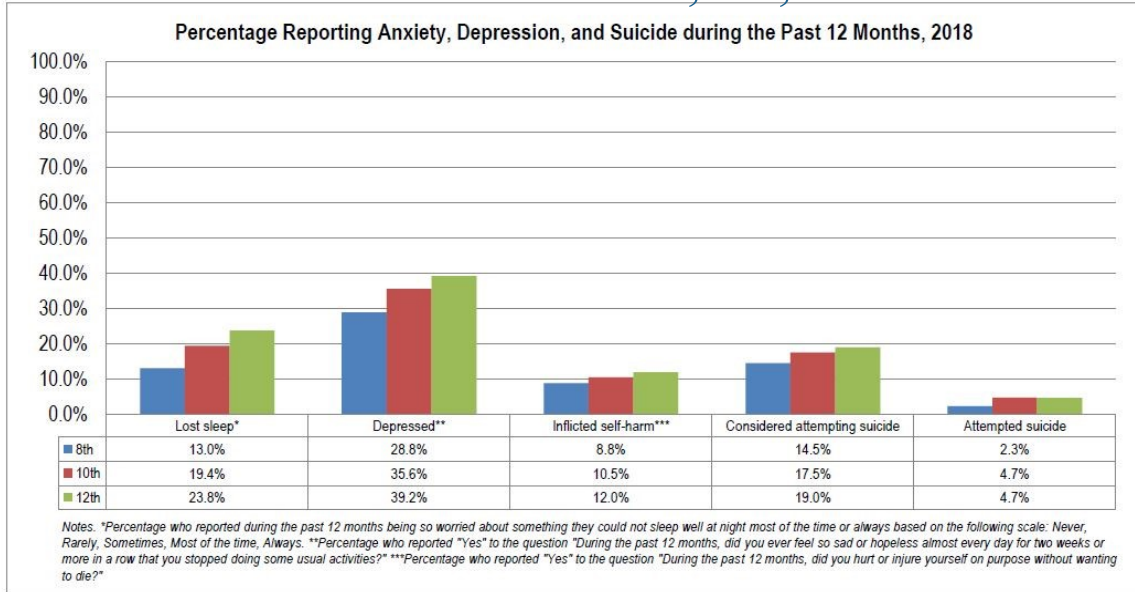
Table 12. Mental Health (additional) indicators in ECDHD District by Gender: Based on 2011-2019 Behavioral Health Risk Factor Surveillance System Data

	Ever told they have depression (%)	Average days poor physical or mental health limited usual activities in past 30 days	Poor physical or mental health limited usual activities on 14 or more of the past 30 days
Nebraska	18%	2.0	6%
ECDHD District	14%	1.7	5%
Male	9%	1.6	5%
Female	18%	1.8	5%

According to the Nebraska Youth Risk Behavior Survey (YRBS) 2018, on average 1 of 3 ECDHD youth self-reported feeling depressed and over 1 of 6 youth considered attempting suicide (see Figure 51).^{lxxvii} Approximately 1 in 4 Nebraska high school youth reported feeling depressed compared to nearly 1 in 3 youth nationwide (24.1% vs 29.9%). Female students in Nebraska had a significantly higher rate of depression (31.4% vs. 17.1%), of considering a suicide attempt (18.0% vs. 11.3%) and of making a suicide plan (17.0% vs. 9.8%) compared to male students.^{lxxviii}

Figure 51. Mental Health among youth—NRPFS, ECDHD District

Mental Health Among Youth in ECDHD District Grades 8, 10, and 12

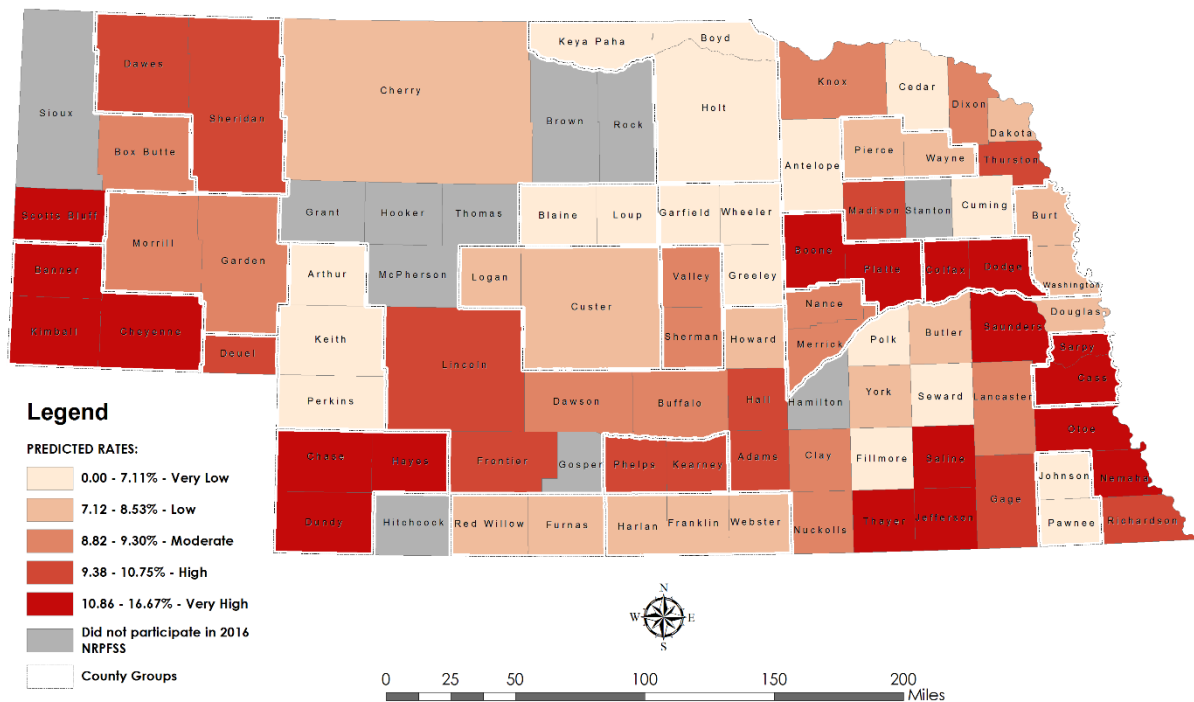


Source: 2018 Results from Nebraska Risk & Protective Factor Student Survey

Suicide Risk

In Nebraska, the rate of suicide across all ages was similar to the rate of suicide for the US (13.05 vs. 13.42—per 100,000 population). Suicide is the 10th leading cause of death in Nebraska, and the second leading cause of death for ages 15-34.^{lxxix} All counties within the ECDHD region were at higher risk for youth suicide ideation and attempts. Of particular note, youth in Boone, Platte, and Colfax counties were at very high risk of suicide ideation and attempts. Figure 52 shows this risk for each county across the state based on the average responses to two questions on the Nebraska Risk and Protective Factors Surveillance System in 2016: 1) “During the past 12 months did you ever seriously consider attempting suicide?” and 2) “During the past 12 months, did you actually attempt suicide?”

Figure 52. Risk level for youth suicide ideation and attempts by county based on the 2016 results from the Nebraska Risk and Protective Factors Surveillance System



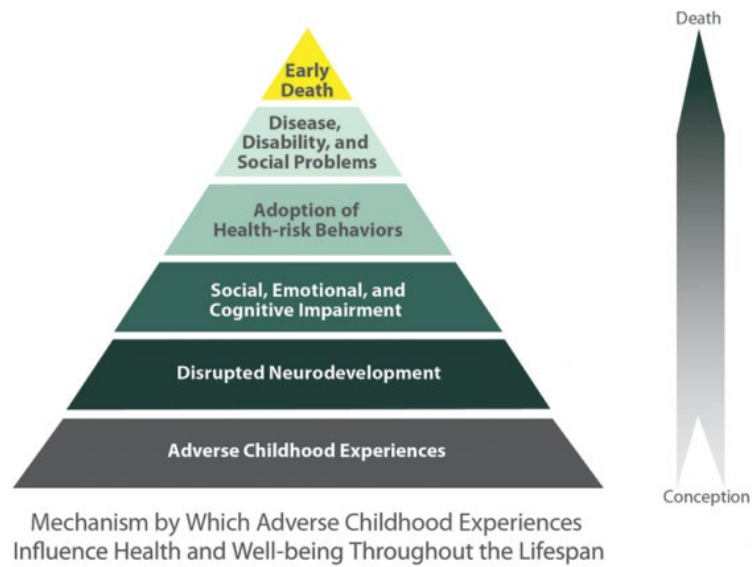
Veterans are at **higher risk for several negative behavioral health outcomes – most alarmingly, suicide**. Data from the 2016 Behavioral Risk Factor Surveillance System (BRFSS) show that veteran families are also impacted. Statewide, when compared to other demographic groups, Nebraska's Veteran **spouses and partners report having more poor mental health days and are more likely to have been told that they have depression**.^{lxxx}

Adverse Childhood Experiences

Adverse childhood experiences (ACEs) are one of the most accurate predictors of lifelong health and well-being.^{lxxxi} ACEs are stressful or traumatic events that occur before age 18^{lxxxii} and can include things such as a child experiencing abuse and neglect; family effects of struggling to get by financially;

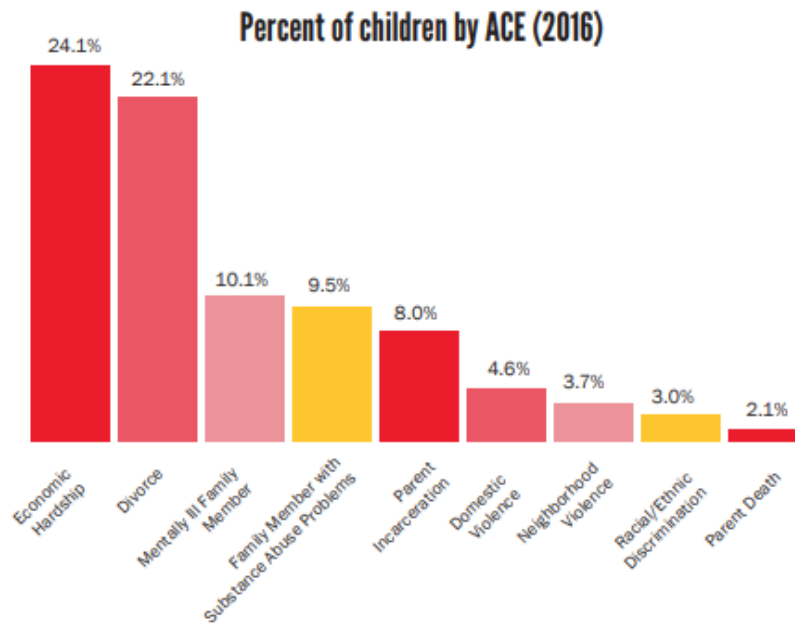
seeing/hearing violence in the home; witnessing and/or being the target of neighborhood violence; living with anyone mentally ill, suicidal, or depressed; living with anyone with alcohol or drug problems; experiencing parents who are divorced/separated or serving jail time.^{lxxxiii} The landmark Kaiser ACE study showed dramatic links between ACEs and the leading causes of death, risky behaviors, mental health and serious illness.^{lxxxiv} Figure 53 demonstrates the ACE Pyramid, used as the conceptual framework for the Kaiser Study.^{lxxxv}

Figure 53. ACE Pyramid



In 2016 across the state, 42% of children experienced one (1) or more ACEs. Of those, 22% of children experienced 1-2 ACEs and 20% experienced 3+ ACEs^{lxxxvi}, which was similar to the US rate of 21.7%^{lxxxvii}. Figure 54 illustrates the percent of children by ACE category in Nebraska.^{lxxxviii}

Figure 54. Percent of children by ACE category in Nebraska



Resilience is the ability to adapt to stressful or traumatic events, such as ACEs. Resilience is not a genetic factor but more of a learned behavior. Resilience can be cultivated in anyone.^{lxxxix} Children who experience protective family routines and habits, such as limited screen time, no TV/screen time in bedrooms, parents who have met all or most of the child’s friends, and parents who participate in a child’s extracurricular activities^{xc}, are less likely to experience ACEs.^{xcj} Community-based strategies to provide safe, stable, nurturing relationships and environments to increase resilience and to reduce ACEs can include:

Program based^{xcii}:

- Home visiting programs for pregnant women and families with newborns
- Parenting training programs
- Intimate partner violence prevention programs
- Social support for parents
- Teen pregnancy prevention and parent support programs for teens
- Treatment for mental illness and substance abuse
- High quality, affordable childcare
- Sufficient income support for low-income families

System/Policy based^{xciii}:

- Increase awareness of ACEs and their impact on health within both the professional and public spaces
- Increase capacity of health care providers to assess for the presence of ACEs and appropriate response

- Enhance the capacity of communities to prevent and respond to ACEs through investment in evidence-based prevention programming, trauma interventions and increased access to needed mental health and substance abuse services
- Increased funding for ACE-specific surveys in order to increase their utility and scope

Substance Use Disorders

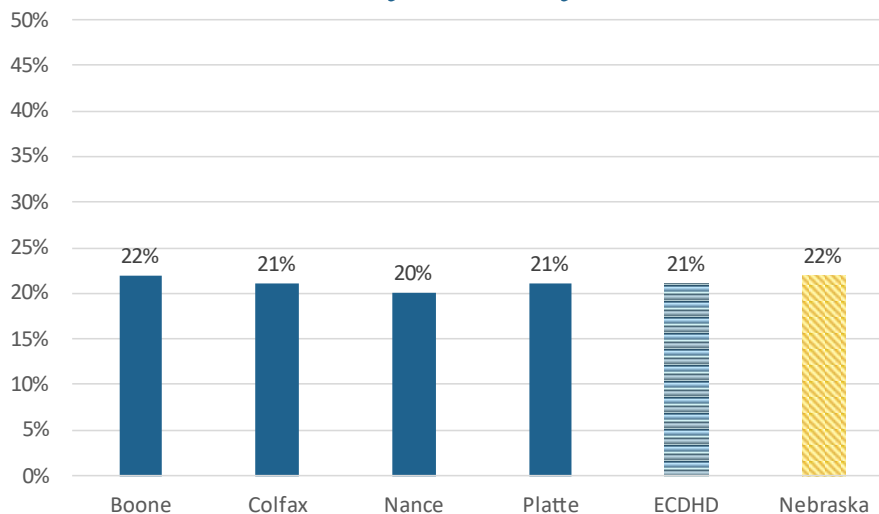
Like mental health, substance use disorders are among the top causes of disability in the US and can make daily activities hard to accomplish.^{xciiv} Furthermore, substance use and addiction can advance the development of mental illness due to the effects of substances in changing the brain in ways that make a person more likely to develop a mental illness. Likewise, mental illness can lead to drug use and substance use disorders.^{xciv}

Alcohol Use

In 2015, Nebraska ranked 47th in the nation for the prevalence of binge drinking (20.3%), a stark difference when compared to West Virginia (ranked 1st, less than 10%).^{xciiv} Excessive alcohol consumption, in either the form of binge drinking (more than 4 drinks on one occasion for men or more than 3 drinks on one occasion for women) or heavy drinking (drinking more than 14 drinks per week for men or more than 7 drinks per week for women), is associated with an increased risk of many health problems.^{xciiv} The 2020 County Health Rankings indicated 1 in 5 adults in the ECDHD region reported binge drinking in the past 30 days and heavy drinking in the past 30 days, which was similar to the state rate (22%).

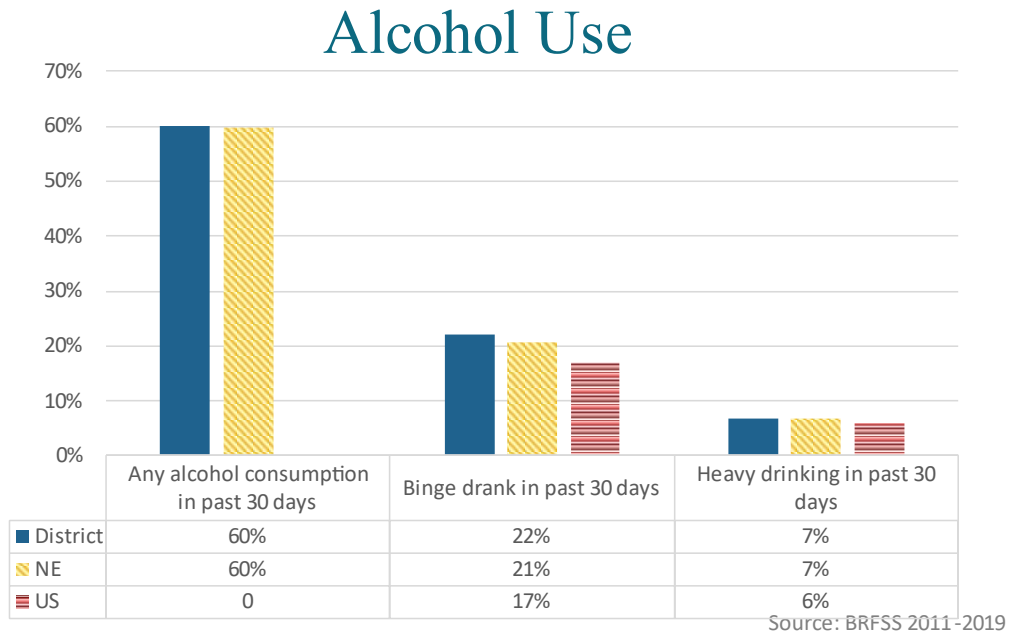
Figure 55. Alcohol Use, ECDHD District

Binge Drinking and Heavy Drinking by County



Source: CHRR 2020

Figure 56. Alcohol Use, ECDHD District

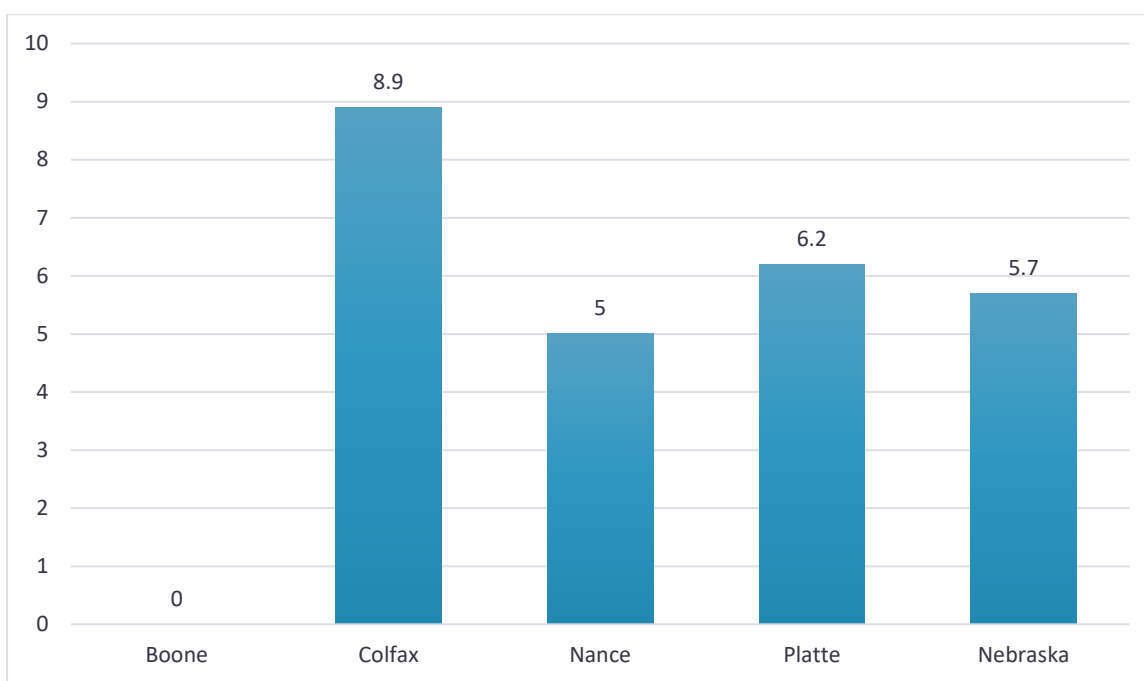


Maternal and Perinatal Outcomes

Health outcomes around pregnancy and birth are important as they can be an indicator of access to and use of prenatal care. Infant mortality (death of an infant before his/her first birthday) is an indicator of maternal and child health within a community. More importantly, this indicator is a marker of overall health of a community due to the associations between the causes of infant death and other factors that are likely to influence health—such as social and economic factors, general living conditions and other quality of life factors.^{xcviii}

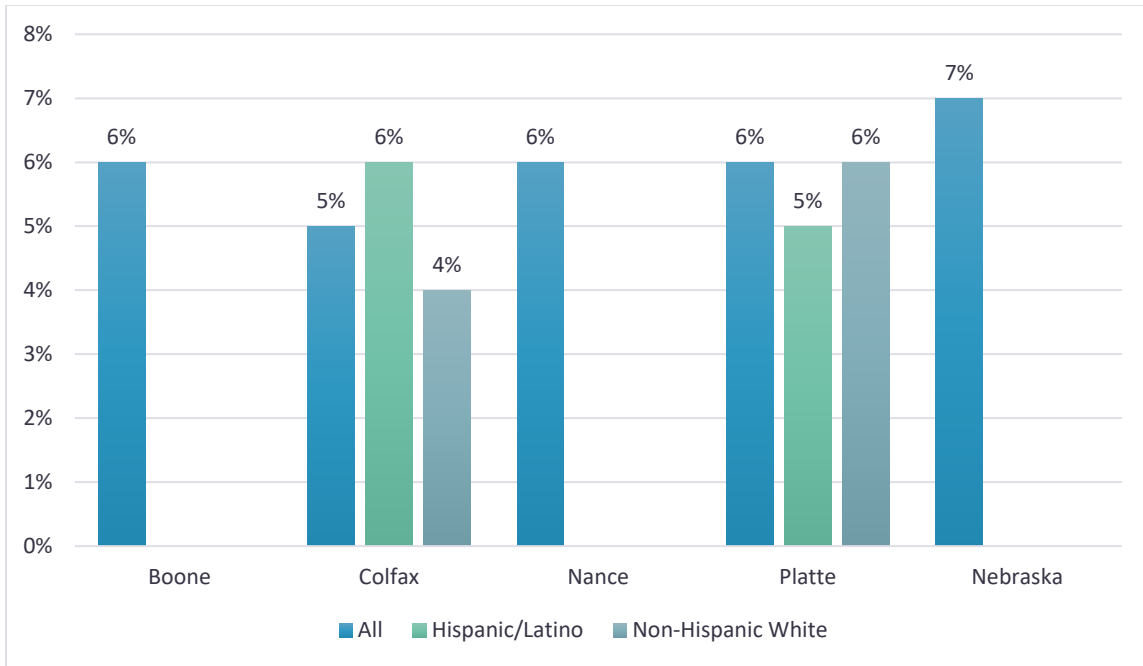
The infant mortality rate (the number of infant deaths per 1,000 live births in the same year) in the US was 5.9 in 2016.^{xcix} Nebraska fairs a little bit better than the US with an infant mortality rate of 5.^c Infant mortality ranges from 0 infant deaths per 1,000 births in Boone County to 8.9 infant deaths per 1,000 births in Colfax County.

Figure 57. Infant Mortality per 1,000 Births.^{ci}



The rate of low-birthweight infants is similar across counties, with Boone, Nance, and Platte Counties reporting 6% of births as low-weight and Colfax County reporting 5%. When births in Colfax and Platte counties are looked at by ethnicity, slight differences are seen between Hispanic or Latino residents and non-Hispanic White residents. However, the differences are not consistent with Hispanic or Latino residents having a higher rate of low-weight births in Colfax County and a lower rate in Platte County.

Figure 58. Rate of Low-Birthweight Infants^{cii}



Births to teens age 15-19 show a stark disparity between Hispanic or Latino residents and non-Hispanic White residents. In Colfax and Platte counties, Hispanic or Latino teenagers give birth at much higher rates than non-Hispanic White teenagers.

Figure 59. Births per 1,000 female population ages 15-19.^{ciii}

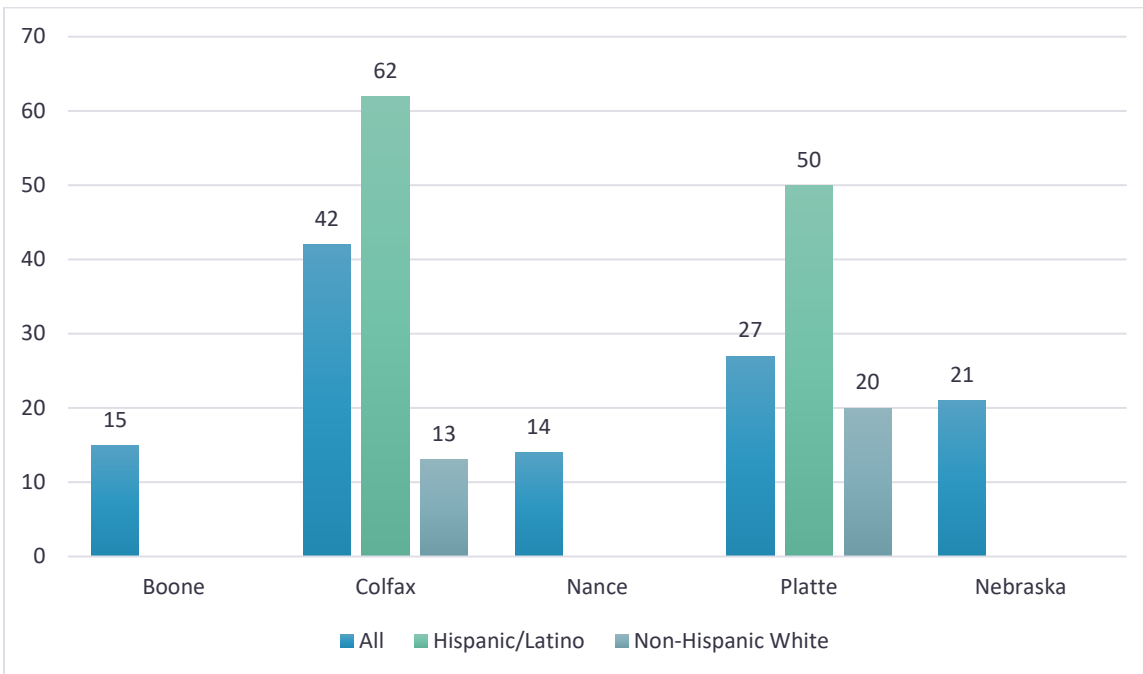


Table 13 provides an overview of the birth statistics, maternal and child health indicators. Notably, the teen birth rate in Colfax County was almost two times the rate of other counties in the ECDHD district and higher than the state rate (an average of 25 and 21, respectively).

Table 13. Maternal and Child Health Indicators, ECDHD District

Maternal and Child Health Indicators	Boone	Colfax	Nance	Platte	ECDHD District	NE
Birth rate ^{civ}	10.5	11.2	13.5	13.3	12.1	13.9
Teen birth rate ^{cv}	15	42	14	27	25	21
Low birthweight ^{cvi}	6%	5%	7%	6%	0	7%

Healthcare Access and Utilization

Healthcare Insurance Coverage

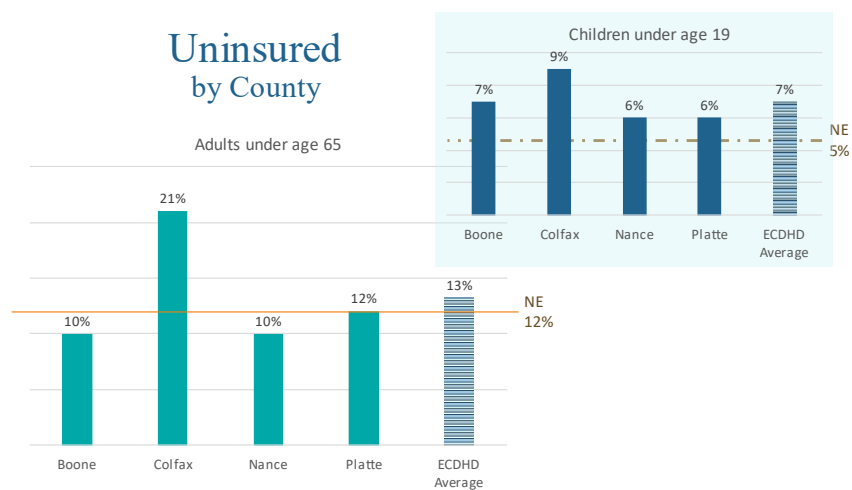
According to the Nebraska BRFSS (7-year average; see Table 14), nearly one in five adults aged 18-64 in the ECDHD district did not have health care coverage.

Table 14. No health care coverage, 18–64-year-olds, ECDHD District

Health Care Access Indicators ^{cvii} (BRFSS, 2011-2019)	NE	ECDHD Region		
		Overall	Male	Female
No health care coverage, 18-64-year olds	16%	18%	18%	17%

To provide a county snapshot for uninsured among the population under age 65, the latest County Health Rankings (using 2017 data; see Figure 58) reported that adults under age 65 in the ECDHD district were insured more than the state average (12%), with the exception of Colfax County where uninsured adults were almost 2 times the state rate. The rate of uninsured children in ECDHD district (7%) was higher than the state rate (5%), noting that Colfax County had the highest rate (9%) of uninsured children of all counties within the ECDHD district.

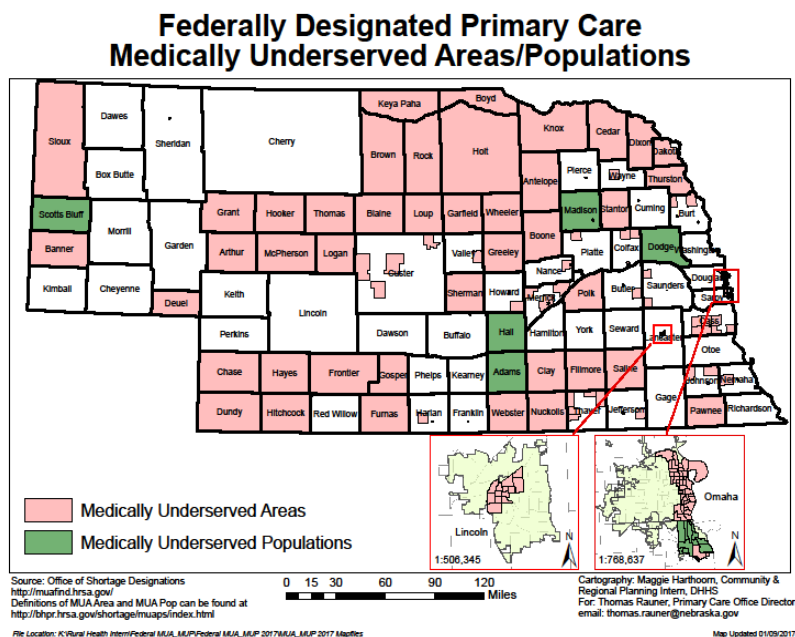
Figure 60. Uninsured Rates—ECDHD District



Healthcare Providers

While lack of health insurance, cost of health care services and age of clientele may be contributing factors for not accessing health care, health professional shortages can compound the issue. According to the Health Resources and Services Administration (HRSA), some counties and areas within counties that comprise the ECDHD district were designated as Medically Underserved Areas (MUA). MUAs are “counties, a group of counties or civil divisions, or a group of urban census tracts in which residents have a shortage of personal health services.” The following map (Figure 61) illustrates the federal health professional shortage area for primary care across the state in 2018. Notably, all of Boone County and parts of Colfax, Nance, and Platte Counties were designated as MUA/MUPs for primary care.

Figure 61. Primary Care, Federally Designated Medically Underserved Areas/Populations

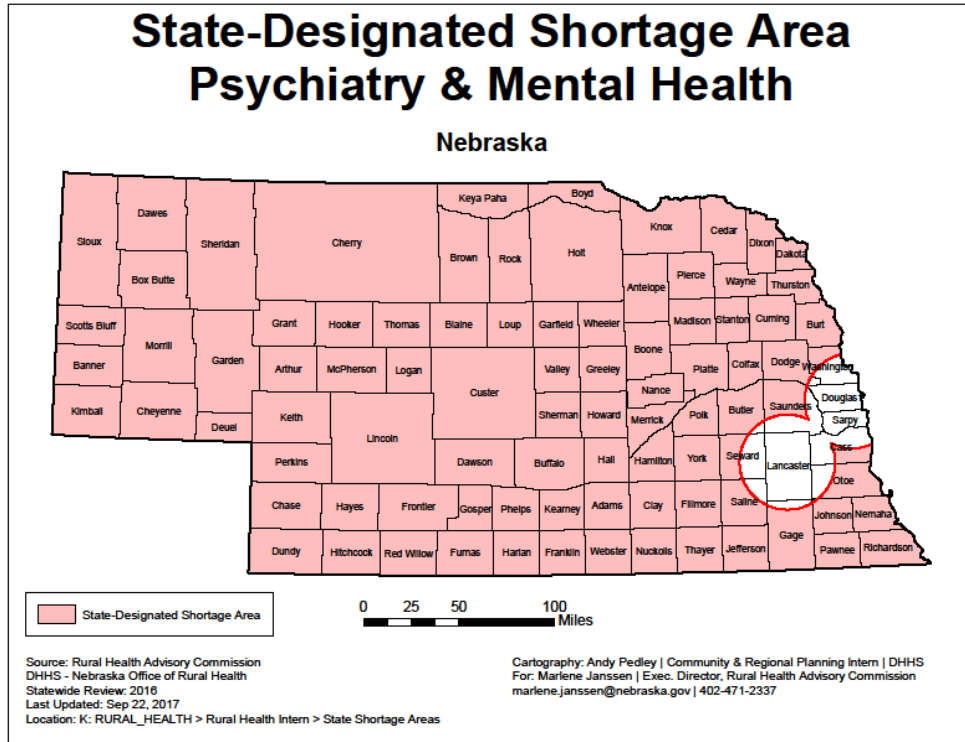


Generally, emergency rooms and primary care offices are the most common place where people with behavioral health needs seek care. Often clinicians in these settings do not have the resources and/or training to appropriately respond to behavioral health needs. Overall, 66% of primary care providers report that they are unable to respond to people with behavioral health needs due to a shortage of mental health providers and to insurance barriers.^{cviii}

Most all counties in the state are designated as mental health professional shortage areas (see Figure 62). In the ECDHD district, there were an average of 2,875 people for every one mental health provider (range: 1310:1 to 5,440:1), and nearly 7 times as many people to mental health provider as the state and US averages (420:1, 470:1 respectively).^{cix} According to the 2016 Nebraska Behavioral Health Needs Assessment, only 47% of adults in Nebraska with any mental illness received treatment. Additionally, only 43% of youth in Nebraska with depression received treatment. Furthermore, only 11% of persons aged 12 or older in Nebraska with illicit drug dependence or abuse received treatment. Even with ECDHD’s known mental health professional shortage area designation, access to behavioral health care

may be further complicated by other barriers, including lack of insurance coverage and stigma often associated with mental illness.^{CX}

Figure 62. Mental Health Care, State-Designated Shortage Areas



In other health professional care, including dentistry and pharmacy, counties within ECDHD were designated as shortage areas. Figures 63, 64, and Table 15 illustrate these shortages.

Figure 63. Dentistry, State-Designated Shortage Areas

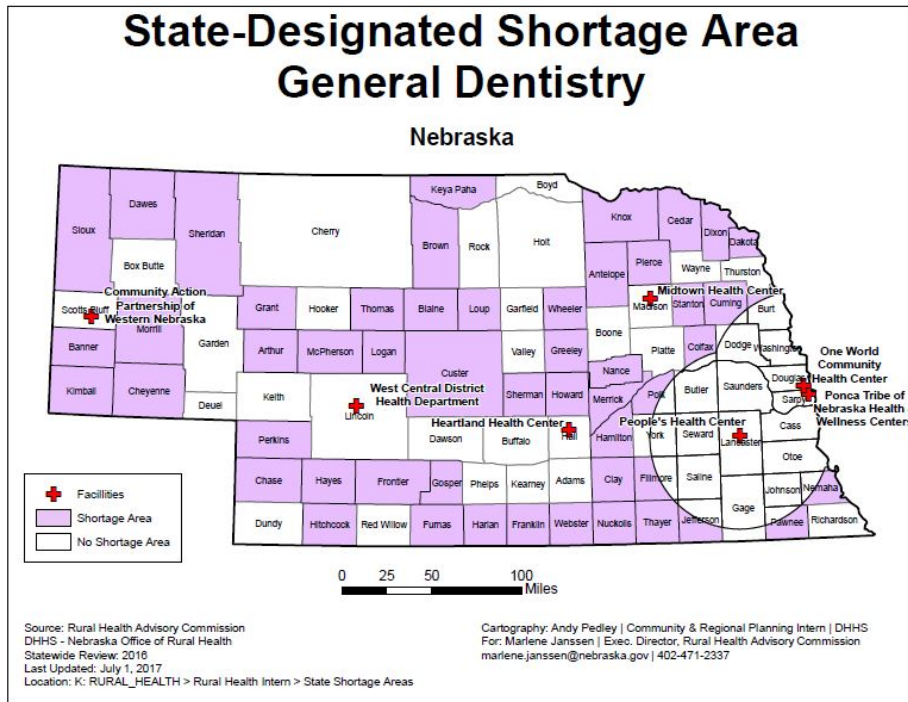


Figure 64. Pharmacist, State-Designated Shortage Areas

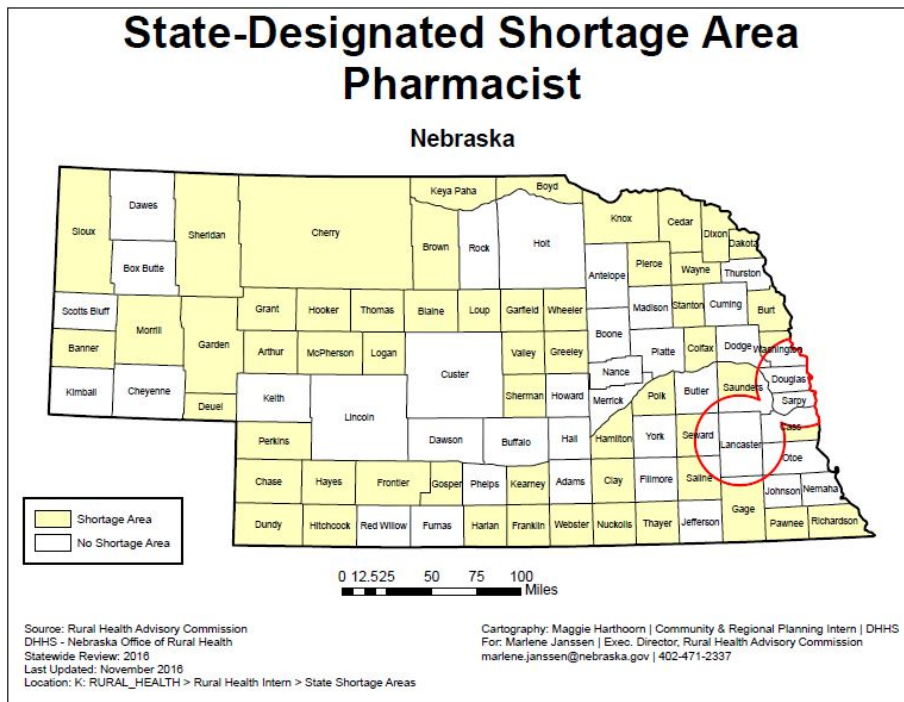


Table 15. Ratio of Population per Type of Provider, ECDHD District

Ratio of **Population : Type of Provider** (2020)

	NE	Boone	Colfax	Nance	Platte
Primary care physicians	1330:1	670:1	No Data	No Data	1380:1
Dentists	1300:1	1310:1	5440:1	1770:1	2220:1
Mental health providers	380:1	5240:1	No Data	No Data	510:1

Source: CHRR 2020

Health Care and Prevention Assets

In the ECDHD district, health care providers and services include 4 area hospitals/health systems—Boone County Health Center located in Albion (Boone County), CHI Health Schuyler located in Schuyler (Colfax County), Genoa Community Hospital located in Genoa (Nance County) and Columbus Community Hospital (Platte County). The area also has one Federally Qualified Health Center (FQHC; Good Neighbor in Columbus, Platte County) and several other medical clinics all of which provide primary care, dental, health prevention and promotion and emergency care services. Many medical clinics in the ECDHD district are open during traditional business hours (from 8:00am to 5:00pm, Monday through Friday). Additionally, ECDHD district has dental clinics, located in Boone, Colfax, Nance, and Platte Counties, and EMS service providers, urgent care (Platte County). Providers offering specialty services travel to these medical clinics from outside of the ECDHD district and hold office hours from weekly to once monthly at select medical clinics/hospitals. Air Methods, stationed at Columbus Community Hospital, offers air ambulance services to the surrounding communities of Columbus, Fremont, Albion, Central City, Schuyler, David City and Aurora.

Boone County Health Center, located in Albion, Nebraska, is a recognized leader in providing a continuum of healthcare to the 10,000 rural residents in Boone, Antelope, Greeley, western Madison and Platte, Nance, and Wheeler Counties. The Health Center is a county hospital, twenty-five bed, five nursery facility, that sees over 70,000 outpatient visits and over 30,000 clinic visits on an annual basis and is the primary source of healthcare for the rural communities it serves in the towns of Albion, Spalding, Newman Grove, Fullerton, and Elgin. With eight physicians and four physician assistants, a well-rounded medical staff is present to meet the needs of the patients and their families. In addition, two affiliate physician clinics are in St. Edward and Cedar Rapids. Services provided by the 250 employees at the Health Center include; cardiac rehab, physical therapy, occupational therapy, speech therapy, radiology (ultrasound, digital mammography, nuclear medicine, CT, open MRI, DEXA scanner, fluoroscopy and general x-ray), full laboratory services, oncology, aesthetics care, full OB services, home health and mental health services. In addition to the services provided by our local staff, a full range of seventeen specialty clinics are scheduled throughout the month to allow patients the ability to obtain these services at home.

CHI Health Schuyler, located in Schuyler, Nebraska, is a 25-bed Critical Access Hospital. The physicians, nurses, and other associates at this faith-based community hospital are committed to delivering personalized, compassionate care to approximately 10,441 individuals that reside in Colfax County. Such care takes many forms - technologically advanced medical services, quality health education, health screenings, and more. Beyond the hospital walls, Memorial Hospital works closely with businesses, community groups, churches, schools, social service agencies, and others to build a healthier community. Acute care and outpatient services include general medical-surgical care, skilled nursing care, home health care, outpatient specialty care that includes general surgery, cardiology, urology, gastrointestinal, orthopedic, gynecology, otolaryngology, nephrology, and podiatry services. Restorative services such as physical therapy and cardiac rehabilitation are also available. A full complement of diagnostic services are offered for the laboratory and radiology which include: CT, MRI, mammography, ultrasound, nuclear medicine, echocardiograms, and vascular exams.

Columbus Community Hospital is a community-owned, not-for-profit hospital. The facility opened its doors at its new location in August 2002 and is located on 60 acres in the northwest part of Columbus, NE. The Hospital is a 47-bed acute care facility (certified for swing beds), with 4 skilled nursing beds and 14 ambulatory outpatient beds, all private rooms. Columbus Community Hospital is licensed by the

Nebraska State Board of Health and is accredited through The Joint Commission. The Hospital is also a member of the Nebraska Hospital Association (NHA), American Hospital Association (AHA), Voluntary Hospital Association (VHA) and Heartland Health Alliance (HHA). Columbus Community Hospital's success can be measured in the quality of its facilities and the commitment of volunteers, staff, board, and physicians. Leadership consists of an 11-member Board of Directors, President/CEO, 4 Vice-Presidents, 38 members of the Medical Staff, over 550 employees, and 300+ volunteers. In October 2010, the Hospital expanded services in the Emergency Department, increase patient privacy in the registration area and create a women's imaging center.

Genoa Medical Facilities (GMF) is the sole health care facility in Nance County, Nebraska, located in the city of Genoa, NE. GMF is comprised of the hospital, long-term care, and assisted living facilities. The hospital is a 19-bed, critical access, city-owned, non-profit facility. GMF provides healthcare for a community of almost 5,000 people within a 10-mile radius. The 35-bed long-term care unit and the 20-unit assisted living facility provide a home for those whose needs include additional living care. Most importantly, GMF provides care for the people of the community. Although the care people receive here pales by comparison to the services available at large facilities, this hospital is critical to the area and plays an important role in providing access to care in the region. For this reason, the community is uniquely supportive of the hospital's mission, which is to be "Champions for Rural Healthcare."

Good Neighbor Community Health Center in Columbus is one of seven Federally Qualified Health Centers in Nebraska. Federally Qualified Health Centers are an integral part of the nation's health delivery system, providing cost effective, community oriented, and comprehensive primary health care services. Offering payment options on a sliding scale for patients who would be otherwise unable to afford health care, a Federally Qualified Health Center serves medically underserved areas and/or populations and receives Public Health Service funds.

[Access for Aging Populations](#)

Multiple nursing homes are available in the ECDHD district offering assisted living and around the clock nursing care for residents. Home-health professionals and agencies are present in the ECDHD district. Additionally, senior centers and the Area Agency on Aging offer older adult prevention programming, such as activities, assistance and referrals to resources.

[Access for Veteran Populations](#)

Multiple agencies in the ECDHD district offer services for Veterans and their families. Support services for Veterans and their families are offered by agencies such as local churches, local Veterans of Foreign Wars (VFW) posts, American Legions, County Veteran Service Officers and the Department of Labor.

In addition to these services, ECDHD spearheads the VetSET program in the district. The VetSET program focuses on building systems of whole community support by connecting cross-sector partners for Veterans and their families. ECDHD staff and partners have been trained in the No Wrong Door training, a day-long deep dive into military culture and life where participants learn about military experiences and how they influence emotions and behaviors by hearing from Veterans, their families and experts in the field.

Preventative Screenings

Nearly 40% of adults in the ECDHD district did not receive a routine checkup in the past year. While the majority of the adult population in the recommended age groups across the ECDHD district received appropriate preventative screenings such as breast, cervical and colon cancer screenings, the trend over a seven-year period showed an upward swing in 2018 rebounding from a downward trend since 2012.

Female breast cancer was the leading type of cancer diagnosed in the ECDHD region, especially in Boone County which has the highest proportion of adults who fall within the 65-74 age range of all counties in the ECDHD region, yet only half of women who were Medicare enrollees and aged 65-74 in the ECDHD district received breast cancer screening, especially in Boone County (58%).

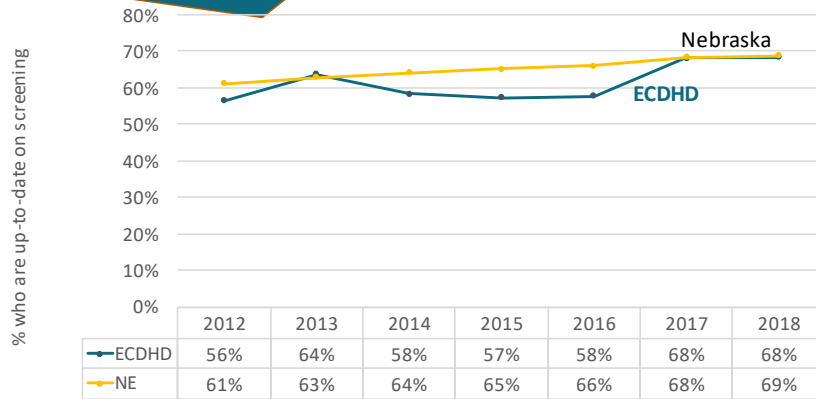
Table 16. Preventative Health Screening Indicators, ECDHD District

Preventative Health Screening Indicators ^{cx} (BRFSS, 2011-2019)	NE	ECDHD Region		
		Overall	Male	Female
Preventative Screenings				
Heart Disease				
Had cholesterol checked in past 5 years	84%	85%	81%	88%
Cancer				
Up to date on colon cancer screening, ages 50-75	65%	62%	60%	62%
Up to date on breast cancer screening, female ages 50-74	75%	78%		78%
Up to date on breast cancer screening, female ages 65-74 (CHRR 2020)	48%	50%		50%
Up to date on cervical cancer screening, female ages 21-65	81%	84%		84%
Routine Checkups				
Had a routine checkup in past year	63%	62%	56%	68%

According to the BRFSS (2011-2019), an average of 78% of women ages 50-75 across the ECDHD district received breast cancer screening. The colorectal cancer incident rate in the ECDHD district is higher than across the state (54.2 and 43/100,000, respectively), with the highest incident rate in Nance County (84/100,000). A third of ECDHD residents were not up-to-date on colon cancer screenings.

Figure 65. Colon Cancer Screening Rates, ECDHD District

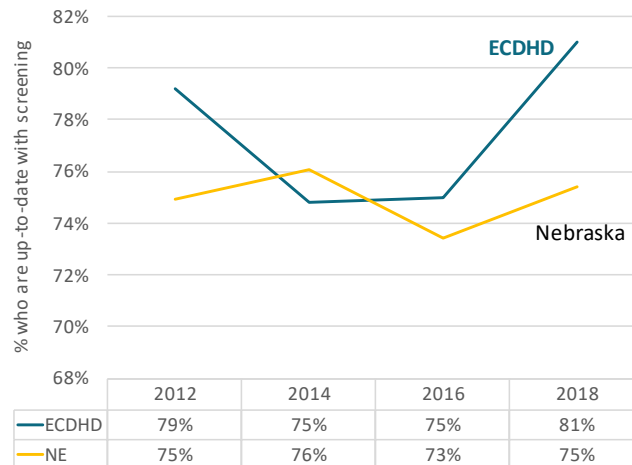
1 in 3 50-75 year olds in ECDHD are **NOT** up-to-date on Colon Cancer Screening



Source: BRFSS 2011 -2019

Figure 66. Breast Cancer Screening Rates, ECDHD District

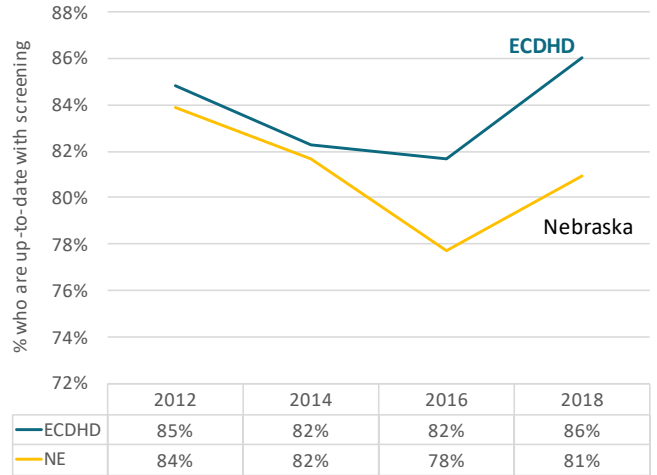
1 in 4 women ages 50-75 in ECDHD are **NOT** up-to-date on Breast Cancer Screening



Source: BRFSS 2011 -2019

Figure 67. Cervical Cancer Screening Rates, ECDHD District

1 in 6 women aged 21-65 in ECDHD are **NOT** up-to-date on Cervical Cancer Screening



Source: BRFSS 2011-2019

Barriers to Accessing Health Care

Accessing health care is complicated by multiple factors, such as the ability to travel to care locations, location and number of healthcare providers, types and costs of services offered, insurance coverage, etc. The area hospitals are located in different parts of the district and have multiple clinic locations, keeping driving distance fairly low. However, inclement weather, especially snow, can impact accessibility to healthcare services. There is also some variability in the maintenance of roads with main highways receiving the most attention and gravel roads receiving less attention after a significant snowfall which can delay travel to any service. Many residents in ECDHD district live on gravel roads that experience this variability in the maintenance of those roads. Mass transportation is very limited throughout the ECDHD district.

The cost of healthcare services can be another barrier to care for ECDHD residents. In the ECDHD region, over 1 in 10 adults aged 18-64 had no health care coverage, and Colfax County had 2 times the rate of uninsured adults than ECDHD as a whole.^{cxii} Though data are not available for ECDHD by race/ethnicity, Hispanics had the highest uninsured rates of any racial or ethnic group across the state (57.7%)^{cxiii} and nation.^{cxiv} In the US, Medicare provides universal health coverage to adults 65 and older; however, cost-sharing and premium contributions continue to be a serious burden for many.^{cxv}

Healthcare professional shortages are still other barriers to care for ECDHD residents. Furthermore, across the state, nearly 1 in 2 Hispanic residents and 65% of Native American's reported not having a personal doctor or health care provider.^{cxvi} Nearly 1 in 5 adults in the ECDHD do not have a personal doctor or health care provider and over 1 in 10 adults needed to see a doctor but could not due to cost.

Table 17. Other health care access indicators, ECDHD District

Health Care Access Indicators^{cxvii} (BRFSS, 2011-2019)	NE	ECDHD Region
		Overall
No personal doctor or health care provider	20%	19%
Needed to see a doctor but could not due to cost in past year	12%	11%

Community Themes and Strengths

ECDHD developed a Community Survey and worked with partners to deliver the survey to residents through the district. The survey was made up of a Likert-scale, ranking and open-ended questions. The goal of the survey was to assess the communities' perception regarding the issues that are important to their health and wellbeing and the quality of life in their respective communities. This survey was available in English and Spanish, in print and online.

There were 259 complete responses (see Appendix C for full details on the demographics of survey respondents), of which the majority of survey respondents self-identified as female, white, middle to upper-middle class, college-educated and had health insurance. The survey revealed the following:

Figure 68. Top 5 Concerns, ECDHD District

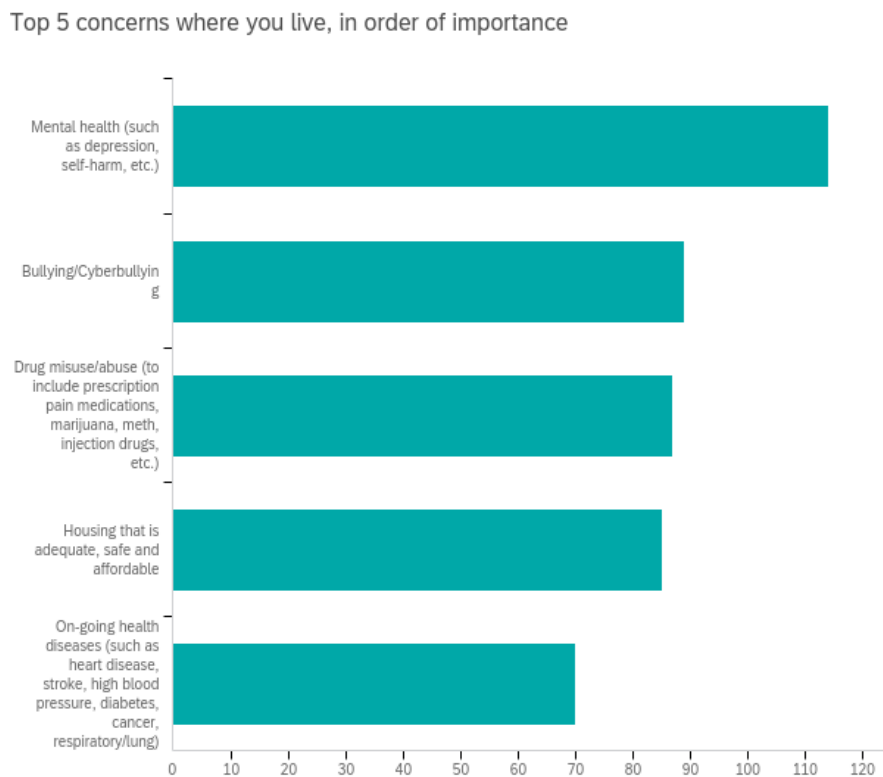
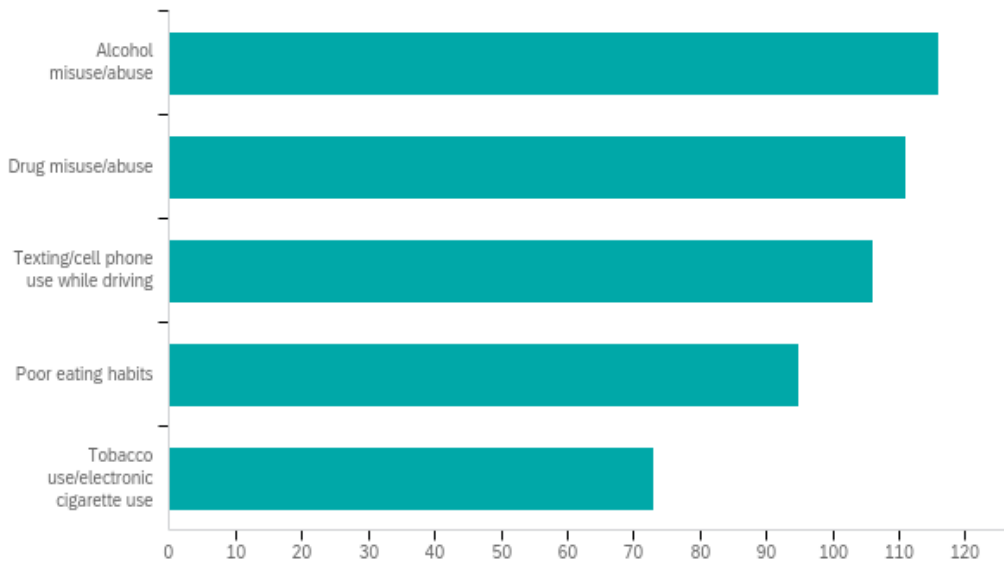


Figure 69. Top 5 Behaviors that negatively impact overall health in the community, ECDHD District

Top 5 behaviors that have a negative impact on overall health in our community



While not representative of the population of the region as a whole, many of the survey responses are supportive of the other data collected as part of this Health Status Assessment and with anecdotal input from key stakeholder (from the focus groups) who are connected to many of the diverse community groups not directly represented in survey responses.

Four virtual focus groups were held in Boone, Colfax, Nance, and Platte counties to gather input from key stakeholders from various sectors of the counties, including but not limited to local hospitals, early childhood organizations, non-profit organizations, and local government. Given the stark differences between the demographics and population sizes of the four counties, the focus groups were set up so that community members of Platte and Colfax counties were together and Boone and Nance counties were together. Given the pandemic, the focus groups were offered a few times for each target community.

Table 18. Focus group characteristics

Date	Counties	Number of Participants	Participant's Gender	Time of Day
February 10, 2021	Platte and Colfax	8	2 Men 6 Women	12-1PM CST
February 10, 2021	Platte and Colfax	5	1 Man 4 Women	6-7PM CST
February 19, 2021	Boone and Nance	3	1 Man 2 Women	3-4PM CST
February 19, 2021	Platte and Colfax	3	1 Man 2 Women	4-5PM CST

Focus groups lasted for one hour. In each of the focus groups, focus group participants reviewed preliminary survey response data from the community health survey (administered by ECDHD and their partners in the four-county area). Specifically, the group considered survey respondents' 1) top 5 concerns in the community and 2) top 5 behaviors that have a negative impact on community health (see Appendix A for the survey results reviewed).

The emerging themes from the focus groups included:

Platte and Colfax counties highlights:

- **Givens** clustered mainly within the clinical care and social/economic domains. Mental health, mainly as a source of other top health behaviors and concerns (i.e. alcohol and drug-misuse/abuse), access to affordable and safe housing, and lack of wellness checks/preventative health maintenance were noted by participants. Participants thought that mental health as a top health behavior/concern could be high given the pandemic. Despite having a number of low-income slots available for housing from on-going, continuous efforts, the demand still exceeds the supply. Participants noted that bullying and cyberbullying were new as a concern from previous CHAs. Participants also noted the demographics of who completed the survey highlights the need to make sure the community is accurately represented in the CHIP overall.
- **Unknowns** were in learning more about metrics—specifically in relation to how to measure improvement given previous CHIPs have included work around these top concerns/health behavior, cyberbullying/bullying—specifically what has changed to elevate this issue and if this adult or youth, and where food insecurity falls in this prioritization given the impact of the pandemic on employment and stability.
- **Strengths** lie within the clinical care, economic and social domains—specifically a good number of healthcare providers (such as physicians, pharmacists, dentists, optometrists, emergency medical services) and well-appointed local healthcare facilities; a good sense of community and community pride among residents; local commerce for everyday needs (such as grocery stores, hardware stores, etc.); collaboration among public-private partnerships with community referrals and programming to assist with mental health, housing and food accessibility/insecurity; partners leverage existing relationships to create funding sustainability for programming.

Emerging themes for **opportunities** across these focus groups included:

- Aligning strategic missions of diverse community organizations into an overarching community plan with clear and measurable metrics.
- Increasing the accessibility to bilingual providers and interpreters for medical and other services.
- Enhancing care through technologies that remove barriers to accessing care, i.e. virtual/telehealth visits.
- Streamlining work processes to plan and respond to emerging issues by implementing new ways of working created by the pandemic.
- Integration of care model (mental, medical, social, and emotional) to understand what is driving behaviors.
- Implementing an upstream approach to problems and issues.

- Addressing systems/infrastructure to address public health issues in a culturally competent, inclusive, and equitable way.

Boone and Nance counties highlights:

- **Givens** focused mainly on how mental health was on each county list as a top concern and that it is a root issue of many of the other issues, the need for a spectrum of partners to play a public health role in building a healthy community; to revitalize the 2 counties in order to retain and recruit younger professionals; to address transportation needs, specifically one that the community relies on the hospital to fill; health issues in these counties are perceived from partners as the responsibility of the hospitals and local health department.
- **Unknowns** included the need for childcare, specifically quality and affordable childcare, and transportation needs, which partners think is the hospital's responsibility to assist yet is a community responsibility impacting health.
- **Strengths** lie within having a hospital with local healthcare facilities; working in new/different ways given the pandemic.

Emerging themes for **opportunities** across this focus group included:

- Maintaining and enhancing the momentum and collaboration of different partners working together to maximize efforts for public health issues. Examples included:
 - Forming additional CHIP working groups to focus on community public health needs, i.e. transportation, which is a huge need that is often left to the hospital to deal with.
 - Collaborating with schools, law enforcement and EMS groups, etc. to increase public health impact. For example, utilizing newly-hired substance use/abuse expertise at the hospital for school programming/presentations around substance use prevention.

Health Summary: ECDHD District

The majority of the adult population within the ECDHD district reported their general health was good or better. However, nearly 1 in 12 people within the ECDHD district indicated they experienced frequent mental distress. Table 19 summarizes the general health of the adult population within the ECDHD district.

Table 19. General Health Indicators, ECDHD District

General Health Indicators ^{cxviii}	ECDHD District	NE
General health fair or poor	16%	14%
Average number of days physical health was not good in past 30 days	3.0	3.2
Physical health was not good on 14 or more of the past 30 days	9%	10%
Average number of days mental health was not good in past 30 days	2.7	3.2
Mental health was not good on 14 or more of the past 30 days (i.e., frequent mental distress)	8%	10%
Average days poor physical or mental health limited usual activities in past 30 days	1.7	2.0
Poor physical or mental health limited usual activities on 14 or more of the past 30 days	5%	6%

Not unlike the state, the ECDHD district experienced primary care and mental health professional shortages, reducing access to needed health services. The Years of Potential Life Lost (YPLL), a measurement of preventable deaths, in the ECDHD district Colfax County's YPLL rate was higher than the state rate. Multiple factors impact how well and how long we live. Things like education, availability of jobs, access to healthy foods, social connectedness, and housing conditions all impact our health outcomes. Conditions in which we live, work and play have an enormous impact on our health, long before we ever see a doctor. It is imperative to build a culture of health where getting healthy, staying healthy and making sure our kids grow up healthy are top priorities.

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Appendix C: Community Health Survey Demographics

		ECDHD Overall Population (US Census, 2019 5-year)	ECDHD Survey Respondents	
Gender	Female	49%	81%	210
	Male	51%	16%	41
	No Response	-	3%	8
Age	Under 19		0.3%	1
	20-29		9%	23
	30-39		27%	71
	40-49		20%	53
	50-64		30%	77
	65-74		10%	26
	75+		1%	3
	No Response		2%	4
Household Income	Less than \$25,000		3%	8
	\$25,000 - \$34,999		4%	11
	\$35,000 - \$49,999		12%	32
	\$50,000 – \$74,999		20%	53
	\$75,000 - \$99,999		20%	52
	\$100,000 +		39%	101
	No Response		0.7%	2
Education Level	Less than a high school diploma		0.3%	1
	High school graduate or GED		6%	15
	Some college, no degree		12%	30
	Trade or technical degree		5%	13
	Associates degree		15%	38
	Bachelor's degree		33%	85
	Graduate or professional degree (example: PhD, MD, JD)		29%	75
	No Response	-	0.7%	2
Hispanic/Latino	Yes	18%	4%	10
	No	82%	96%	249
	No Response	-	0%	0
Race	American Indian or Alaska Native	1%	0.3%	1
	Asian	1%	0%	0
	Black/African American	2%	0%	0
	Two or more races	1%	0%	0
	White	94%	98%	254
	Other	-	2%	4
	No response	-	0%	0

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