

# Looking at SDOH through a Rural Lens

### **NDDoH**

May 24, 2022

**Health Equity** 

Presented by Brad Gibbens, Acting Director and Assistant Professor



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# Center for Rural Health

- Established in 1980, at The University of North Dakota (UND) School of Medicine and Health Sciences in Grand Forks, ND
- One of the country's most experienced state rural health offices
- UND Center of Excellence in Research, Scholarship, and Creative Activity
- Home to seven national programs
- Recipient of the UND Award for Departmental Excellence in Research

### Focus on

- Educating and Informing
- Policy
- Research and Evaluation
- Working with Communities
- American Indians
- Health Workforce
- Hospitals, Public Health, EMS, Primary Care, and other systems.

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# Three learning objectives of the presentation:

- 1. Understand how Social Determinants of Health impact rural areas.
- 2. Awareness of the primary community health needs in rural ND as measured by Community Health Needs Assessments (CHNA).
- 3. Identify how rural ND communities are responding.

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## The Importance of Values

Ultimately our values guide our perceptions toward health, health care, our view of the importance of "community", and the development of public health policy

"It is not what we have that will make us a great nation, it is how we decide to use it"

Theodore Roosevelt

"Vision is the art of seeing things invisible"

Jonathan Swift

"Americans can always be relied upon to do the right thing...after they have exhausted all the other possibilities"

Sir Winston Churchill

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# Why is Community Important in Rural Health?

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### What Is Rural Health?

- Rural health focuses on population health ("community") and improving overall health status for rural community members (service and system development)
- Rural health relies on infrastructure the organizations, resources, providers, health professionals, staff, and other elements of a health delivery system working to improve population health (the rural health delivery system)
- · Rural health is not urban health in a rural or frontier area
- · Rural health focuses on heath equity and fairness
- Rural health is very community focused and driven interdependent and collaborative
- Rural health is inclusive of Community Sectors 1) health and human services, 2) business and economics, 3) education, 4) faith based, and 5) local government

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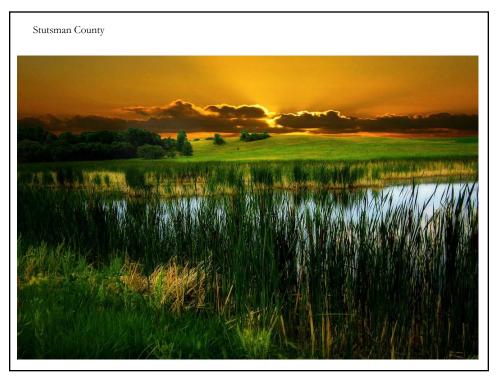
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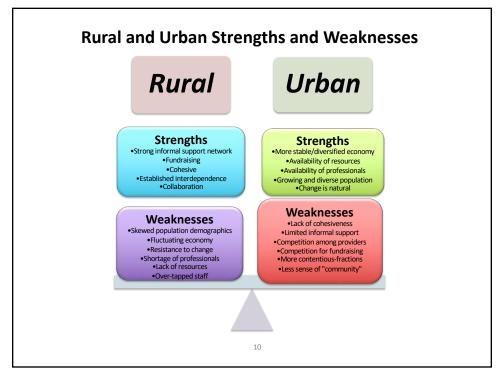
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# **Rural Community and Rural Health**

- Communities are comprised of key sectors that have economic, social, and cultural components – together they comprise the town
  - Health (with human services, more integration of functions)
  - Business (can have one or two dominant business types ag, oil economic impact of health and health care- CAH \$230 million)
  - Education (an active partner in improved community health)
  - Government city, county, special districts role of park board with health care)
  - Faith (social and cultural connections access to health)
- Viable health systems need viable communities strong education, business, faith, government and business, AND those sectors need a strong health system (e.g. health access for employees, general health improvement, health care is a significant employer adding to business and schools)





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# It is always about the community

This is what shapes rural health – viable health systems, access to quality health care, improving population health contributes to community health – strong and independent communities

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# Why is Community Engagement Important to Rural Health for Population Health Improvement

- · Health care providers and organizations cannot operate in isolation from their communities.
- Even more important as we continue to implement health reform new payment models –
  movement from volume payments to value based payments as more and more providers are
  assessed and reimbursed on outcomes and patient satisfaction. Connect with community.
- Community members input on needs, issues, and solutions more critical than ever –
  community involvement in finding solutions (CHNA) that reflect their needs community
  ownership not just the health providers/systems ownership.
- Building local leadership and local capacity think of the next generation of community health leadership.
- Communication listening to the community educating the community –meeting community needs –listening to the community. ESSENTIAL





What is population health and how does this relate do social determinants of health?

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# **Population Health**

"Health outcomes of a group of individuals, including the distribution of such outcomes within the group." (Kindig, What is Population Health?)

- Groups can be based on geography, race, ethnicity, age, language, or other arrangements of people
- Focus Health Outcomes (what is changed, what are the impacts, why?)
- What determines the outcomes (determinants of health)?
- What are the public policies and the interventions that can improve the outcomes?

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# **Health Equity**

- "Attainment of the highest level of health for all people. Achieving health
  equity requires valuing everyone equally with focused and ongoing societal
  efforts to address avoidable inequalities, historical and contemporary
  injustices, and the elimination of health and health care disparities."
  (Healthy People 2020)
- Equity is aspirational and it relates to previous discussion on values.
- To achieve some level of equity we must first address disparities.

Outside Health Care System	Related to the Health Care System		
Societal Factors	Care Delivery	Regulatory Environment	
Food Safety     Health food availability     Housing conditions     Neighborhood violence     Open space and parks/recreation availability     Genetic inheritance     Disease prevalence     Income levels     Poverty rates     Geographic location     Unemployment rate     Uninsured/underinsured rate     Median age     Sex     Race/ethnicity     Pharmacy availability     Care-seeking behaviors     Health literacy     Patience choice     Morbidity rates     Transportation availability	Quality of care     Efficiency     Access     Physician training     Health IT system availability     Distance to and number of hospitals, primary and urgent care centers, retail clinics, etc.     Provider supply (MDs, RNs, etc.)     Physician mix (primary versus specialty care)     Payer contracts     Physician employment and payment structure     Disease management     Populations subgroup disparity     Advanced technology availability     Care integration and coordination     Behavioral health availability     Cultural and linguistic access	Medicare payment rates and policies Medicare and Medicaid care delivery innovation CON regulation Medicaid/CHIP policies (payment rates, eligibility) Implementation of ACA Local coverage determinations (LCDs) Other local, state, and federa laws that impact the way health care is delivered and which treatments are provided	





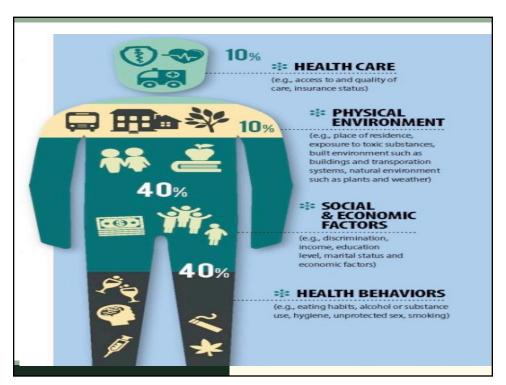
# **Social Determinants**

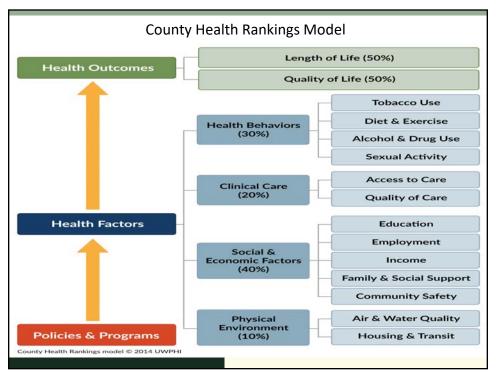
# **World Health Organization definition:**

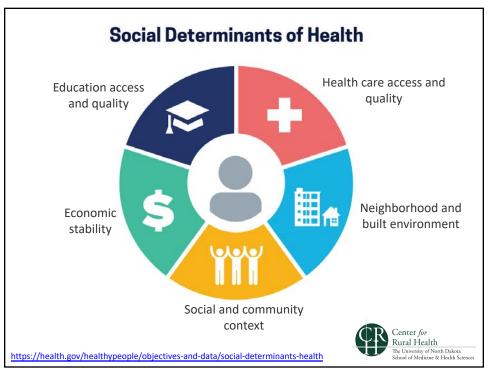
"the circumstances in which people are born, grow up, live, work and age, and the systems put in place to deal with illness. These circumstances are in turn shaped by a wider set of forces: economics, social policies, and politics."

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# Population Health in the Affordable Care Act

- Provisions to expand insurance coverage by improving access to the health care delivery system (Medicaid expansions, state insurance exchanges "Marketplace", support for community health centers, NHSC, safety net)
- Improving the quality of the care delivered (IHI Triple Aims, CMS Center for Medicare and Medicaid Innovation, and establishment of the Patient-Centered Outcomes Research Institute)

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# Population Health in the Affordable Care Act

- CMS Innovation Center development and testing of innovative health care payment and service delivery models (better care, better health, and lowered costs through improvements in the health system)
  - o Alternative Payment Models (APM)
    - This is value based or movement from "volume to value" (care coordination/mg).
    - Accountable Care Organizations (ACO)- Shared Savings is most common-8 CAHs in ND (483 Shared Savings Medicare ACOs nationally 2022-down from 517 in 2020).
    - > CMS ACO REACH model rural oriented.
    - > MACRA and MIPS (system change an alternative payment models clinicians).
    - > Continuous change and evolution since 2014.
      - $\checkmark$  A range of ACO models and shifts to consolidation some started and ended.
      - ✓ In 2019 five new Primary Care Initiatives (PCI) grow out of Comprehensive Primary Care + (Volume to value for clinical providers) (27 rural ND in CPC+)
    - > Simultaneous focus on increase quality and lowering cost.
    - > Accepting risk more and more an emphasis "skin in the game" –better outcomes and lower costs
- BCBSND Blue Alliance

# Population Health Impacted by 2021 Infrastructure Act

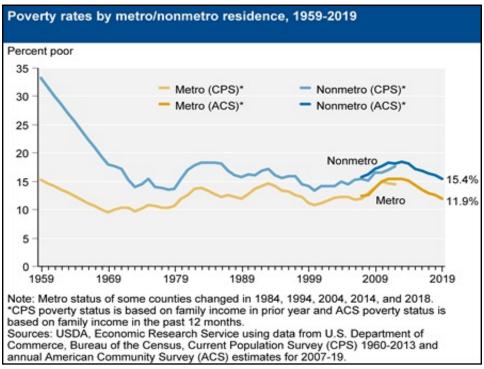
- \$1.2 trillion physical infrastructure that can improve population health
- "Once in a generation investment...think long term"
- Focus
  - Clean drinking water replace lead water pipes
  - o Roads and bridges
  - Air quality
  - Plug orphan oil wells
  - High speed internet –broadband telehealth access –new Affordable Connectivity Program – rural and tribal impact
  - o Electric transmission –invest in a clean energy power grid

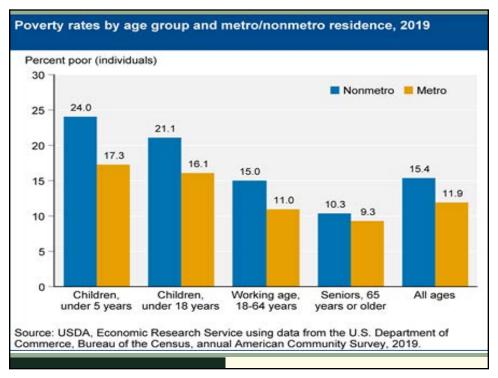
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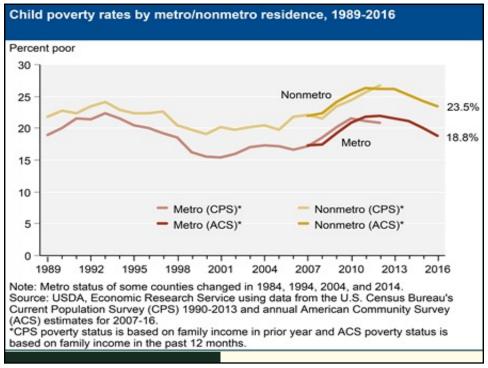


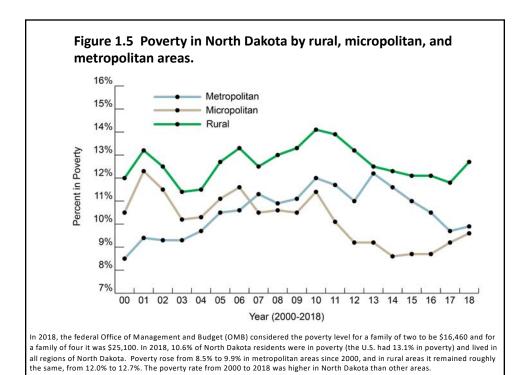
# Social and Economic Factors of SDOH Center for Rural Health The University of North Dakoa: School of Medicine X Health Seinces School of Medicine X Health Seinces School of Medicine X Health Seinces School of Medicine X Health Seinces

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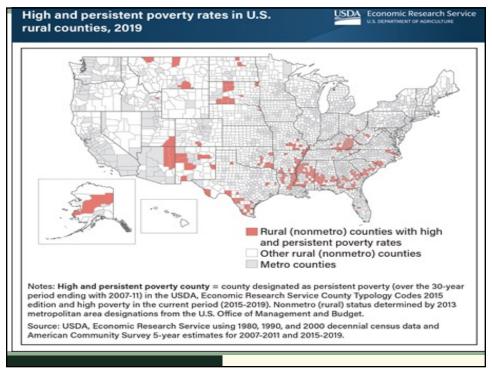


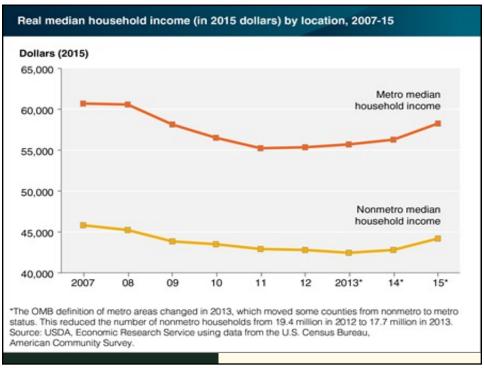


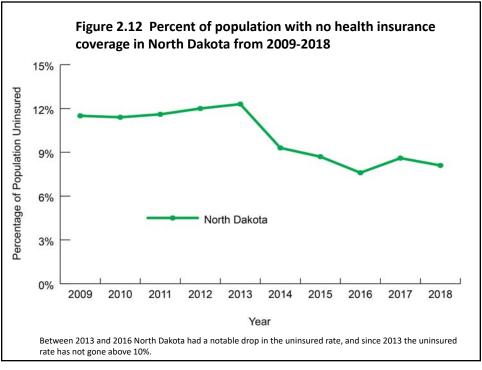










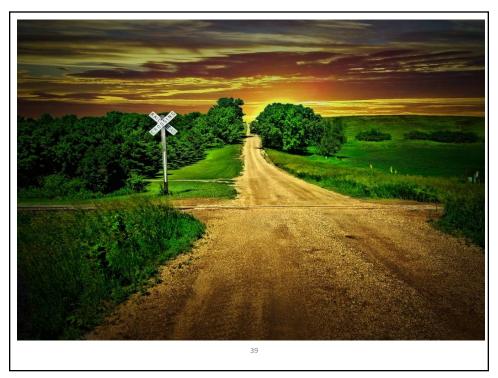


### **SDOH for Rural American Indian and Alaska Natives**

- Rural American Indian/Alaska Native (AI/AN) populations experience both personal and community disadvantages. In 2016, rural AI/AN were:
  - o More likely to live in poverty (29%) than their rural white peers (10%).
  - More likely to live in counties falling into the highest quartile in the US for the proportion of households in poverty (61% or rural AI/AN rural residents versus 46% of rural white residents).
  - More likely to live in persistent poverty counties (37%) of rural AI/AN versus 9% of rural white residents).
  - Rural Al/AN adults were much more likely to live in counties where > 16% of the population lacked health insurance (55% versus 19%).
  - Rural Al/AN age adjusted mortality rates were higher than those of white residents.
  - Prevalence of self reported poor/fair health was 23% for Al/AN versus 16% for white residents.
  - o Higher obesity 35% vs. 31%.
  - (Source: Rural and Minority Health Research Center, University of South Carolina, July 2019).

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# **SDOH and Health Care Factors**



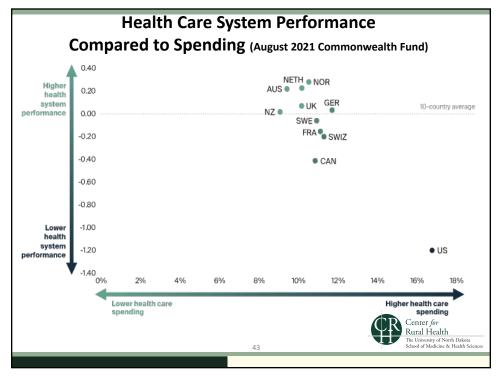
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# **General Observations on the Health Care System**

- Most people give too much credit to health care/clinical care when thinking of their health and not realizing it is likely 10-20% of health status.
- US spends more on health care than any other country at about \$4 Trillion a year (\$12,000 per capita vs. Germany, \$6,700; France, \$5,500; Canada, \$5,400; United Kingdom, \$5,200; and Japan, \$4,700. (2020 data). (Source Commonwealth Fund)
- 19% of US GDP Germany, 11%; Canada, 11%, and GB, 10%.
- We spend more yet health outcomes are lower.
  - o Lower life expectancy with the US at 78.6 years and Switzerland at 83.6 years. (Varies by race). American Indian is about 73 years.
  - US has highest chronic disease burden.
  - o US has highest suicide rate.
  - US has highest rates of obesity.
  - o US residents visit medical providers less frequently.
  - o US second highest rate of hospitalization for hypertension and diabetes.

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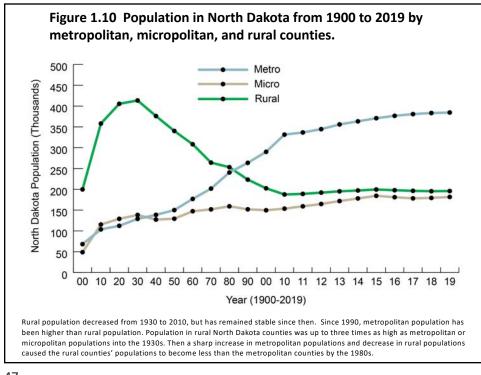
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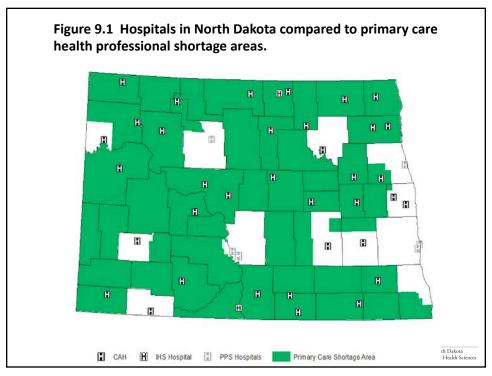


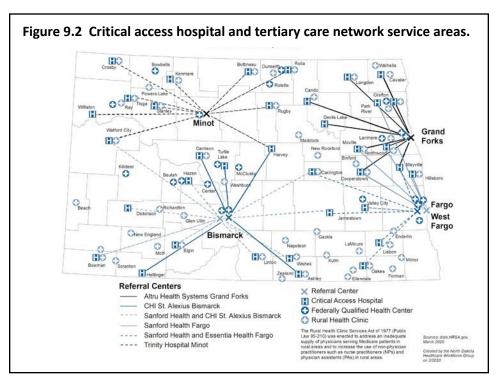
# Factors that Influence the North Dakota Health Care System Center for Rural Health Le University of North Dakos Schol of Medicine & Piclin Sciences



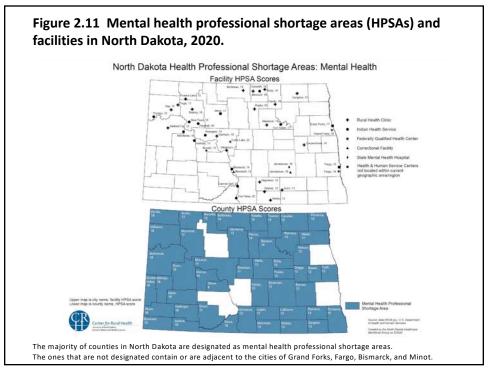


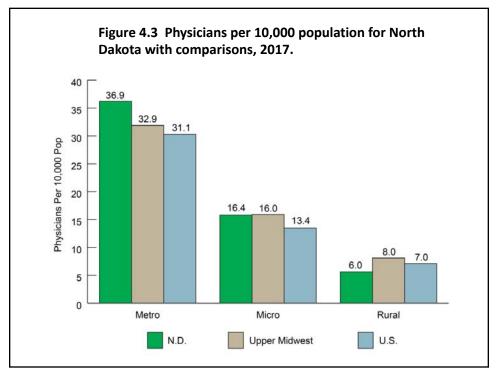




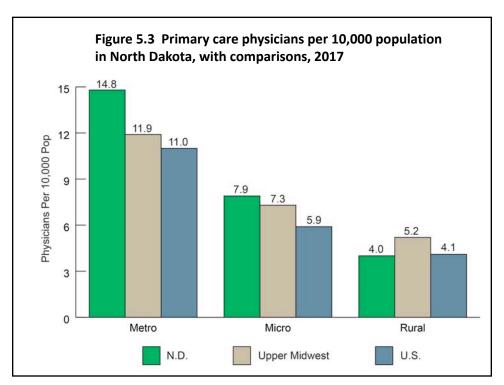


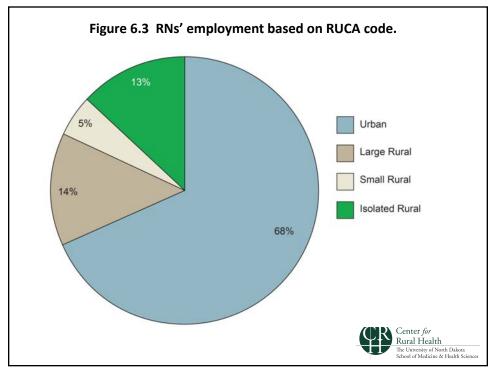








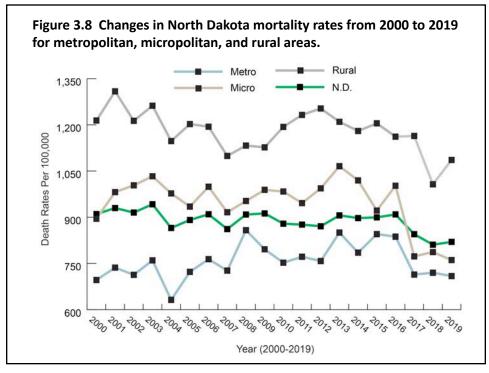
















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## **CRH Partnership with Rural Communities**

- · Brain injury resources
- Behavioral Health Bridge
- Community Engagement Tool Kit
- Community Assessments and Analysis
  - Community Health Needs Assessment
  - Special Studies (e.g., assisted living, wellness centers, other)
  - o Identifying Our Needs: A Survey of Elders (NRCNAA)
- Focus groups
- · Key informant interviews (one-on-one)
- Strategic planning (organizational planning and community health planning)
- Internal Personnel Audit (staff satisfaction with work environment)
- Grant writing workshops
- Grant proposal critiques and background searches
- Rural Health Information Hub –RHI Hub (https://www.ruralhealthinfo.org/)
- Community forum and/or meeting facilitation
- Program Evaluation
- Speakers Bureau annual meetings or special presentations (rural health, health policy, Native American, aging, engaging your community, evaluation/program sustainability, HIT, quality improvement, TBI, network and system development, veterans, workforce strategies, and other subjects <u>just ask!</u>
- CAH Quality Network quality metrics, data, CAH directed
- Quality Collaborative (and Care Coordination training)
- RHC Network (NEW 2022)
- QSP development and training –Originally Native focused now expanded to QSP Hub
- Native Elder Care Giver Curriculum (NECC)
- Education statewide assessments (hospital and public health), presentations, research, Dakota Conference
- Workforce R&R, Pathway (HOSA, R COOL Health Scrub Camps and Scr@6 Academy), HPSA, loan repayment, partner with NDDoH on PCO

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# Health Issues According to Rural North Dakotans 2020

- CRH Community Health Needs Assessment Process (CHNA) in 2017-2019 conducted with rural hospitals and many public health units (required under ACA for non-profit)
- All 36 CAHs reporting
- Top 2-5 ranked community health issues -139 needs ranked (3.9 per CHNA) -25 categories
- Issues

0	Substance Abuse	30 of 36 CAH
0	Mental Health	30 of 36 CAH
0	Attracting and retaining young families	16
0	Having enough child daycare services	11
0	Ability to retain primary care providers	11
0	Availability of resources elders in their homes	6
0	Not enough jobs with livable wages	5
0	Cancer	4
0	Obesity	4
0	Affordable Housing	3
0	Bullying/Cyberbullying	3
0	Cost of health insurance	3

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communities communities

# **Rural ND Addressing Community Health (CHNA)**

## Obesity and physical activity

- Ocommunity farmer's market
- o Pilot wellness programs with hospital staff
- Monthly cooking classes
- o 12 week weight management program
- Ocommunity run and/or walk
- o Community access to school fitness center
- o CDM monitor program
- o Target fitness and exercise to elderly (stretching and movement)
- Step competitions (pedometers)
- o Grants for Community Health

Community

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# **Rural ND Addressing Community Health (CHNA)**

### • Healthcare workforce

O Increase use of social media



- Create community marketing group hospital, economic development, chamber of commerce
- Support local students, financial support for nursing and medicine, and other health professions
- Create local R & R committee with representatives from community – school, bank, business, realtor, church, younger people
- $\circ \quad \hbox{Create a promotional video}$
- Work with CRH workforce specialist

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# **Rural ND Addressing Community Health (CHNA)**

# Not Enough Jobs with Livable Wages

- Promote jobs in healthcare as they tend to provide high paying jobs. Jobs.net website lists all jobs by North Dakota community
- Create a liaison between hospital and area economic or jobs development corporation to promote economic impact of healthcare jobs. North Dakota CAHs have an average economic impact of \$6.4 million and contribute about 220 jobs to the community
- Start a local scholarship for health education with understanding recipient returns to the community for service for a specified period of time
- o Focused community dialogue on job growth

ab growth

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# Rural ND Addressing Community Health (CHNA)

- Child Daycare Services
  - Offer incentives in the form of subsidies for licensed home daycare providers and/or subsidies to employees
  - Promote <u>Child Care Aware of North Dakota</u> as resource to find local child care centers
  - Offer extended Clinic hours, in evenings and weekends, for working parents
  - o Offer hospital supported day care for healthcare employees

















# Contact us for more information!

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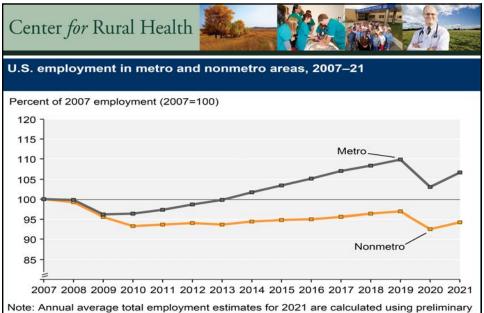
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#### **Additional Slide**

Not part of formal presentation but useful information

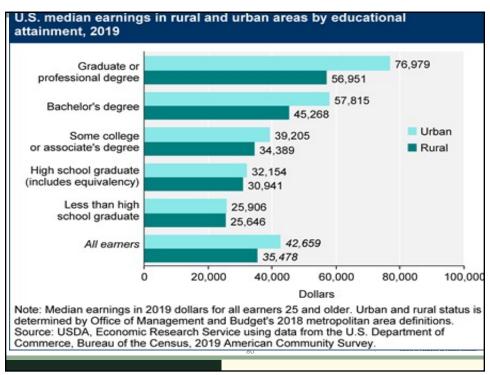


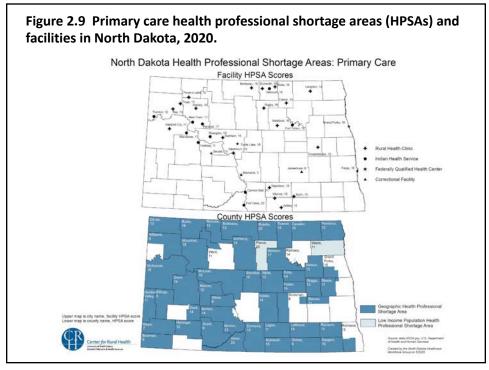
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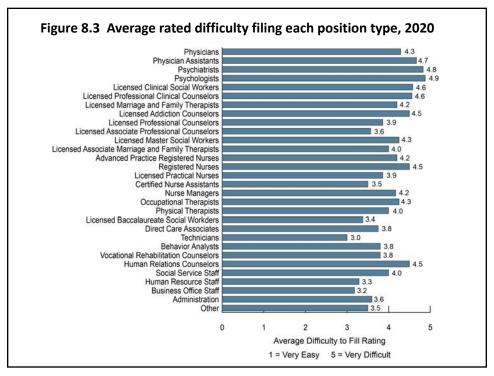


Note: Annual average total employment estimates for 2021 are calculated using preliminary December 2021 data. Metro and nonmetro designations are based on the 2013 definition of metropolitan counties, as determined by the U.S. Office of Management and Budget. Source: USDA, Economic Research Service using data from the U.S. Department of Labor, Bureau of Labor Statistics, Local Area Unemployment Statistics program (March 2, 2022 release).

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#### **Health Disparity**

- "a particular type of health difference that is closely linked with social, economic, and/or environmental disadvantage. Health disparities adversely affect groups of people who have systematically experienced greater obstacles to health based on their racial or ethnic group; religion; socioeconomic status; gender; age; mental health; cognitive, sensory, or physical disability; sexual orientation or gender identity; geographic location; or other characteristics historically linked to discrimination or exclusion." (Healthy People 2020)
- Social Determinants of Health are factors to consider.
- We work to address SDOH to address disparity so as to achieve health equity and to improve population health (very simple).

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## **Health Behavior Factors on SDOH**



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#### **General Observations on Rural Health Behaviors**

- Health behaviors include activities like physical activity, diet and nutrition, social engagement, safety, avoiding tobacco and other harmful substances, and other actions that contribute to general health and quality of life (Determinants of Health in Rural Communities, Henning-Smith).
- Rural have limited access to healthy food and fewer opportunities to be physically active compared to urban.
- Rural residents higher rates of smoking, higher risk jobs, higher sedentary life style, and lower rates of maintaining healthy body weight (Henning-Smith).
- Can lead to greater rates of obesity, high blood pressure, diabetes, and cancer.
- Can lead to higher rates of poor health outcomes and mortality (Henning-Smith).
- Consider how socio-economic, physical, and heath care all influence health behaviors.

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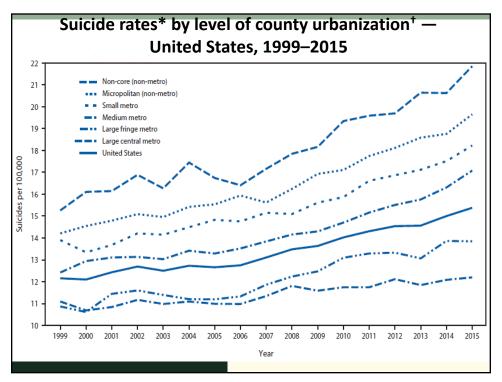
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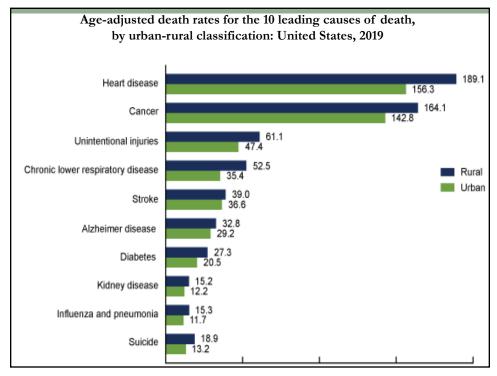
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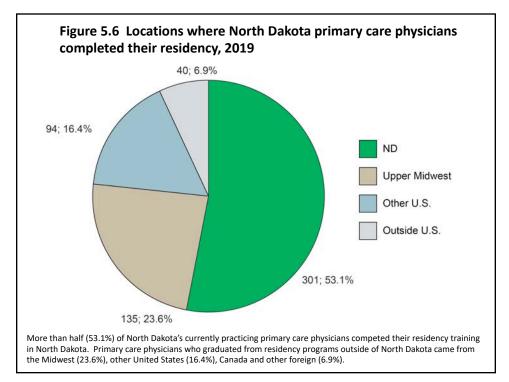
### **Socio-Economic Impact on Health Access**

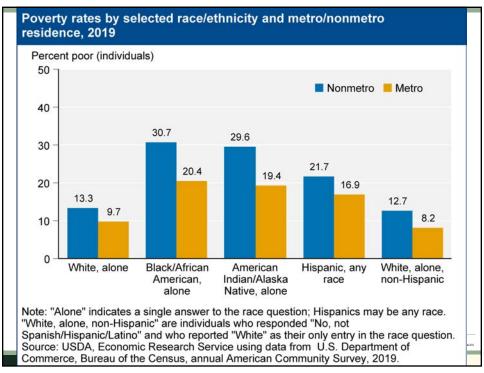
- Poverty, income, education, and employment status contribute to:
  - Health insurance coverage- affordability, access
  - The ability to pay out-of-pocket costs such as co-pays and prescription drug costs
  - Time off from work to go to an appointment
  - A means of transportation to visit a healthcare provider
- The skills to effectively communicate with healthcare providers
- An expectation that they will receive quality care, whatever their race/ethnicity or income level.

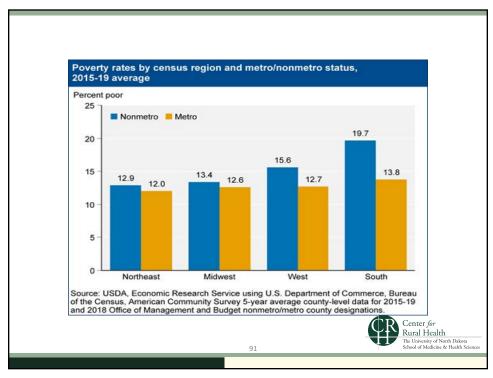
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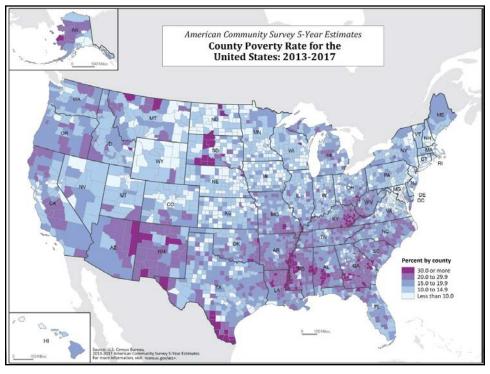


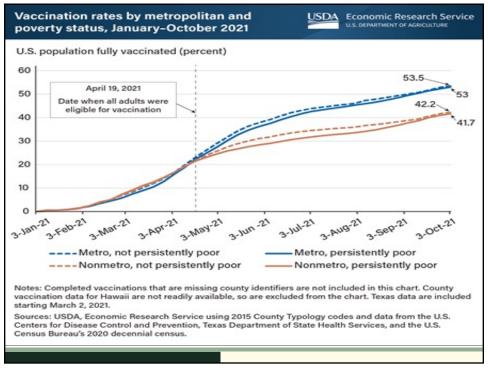


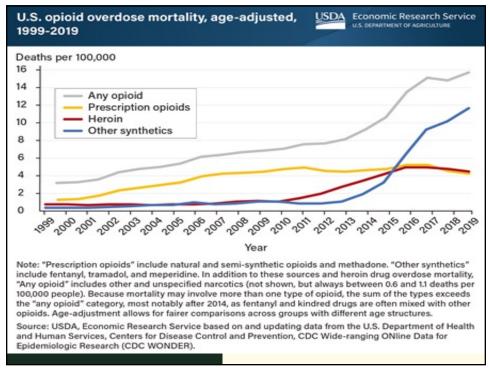


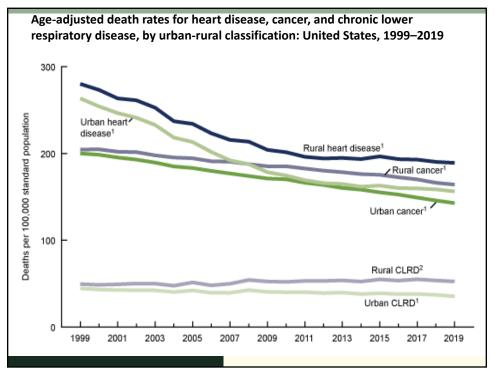


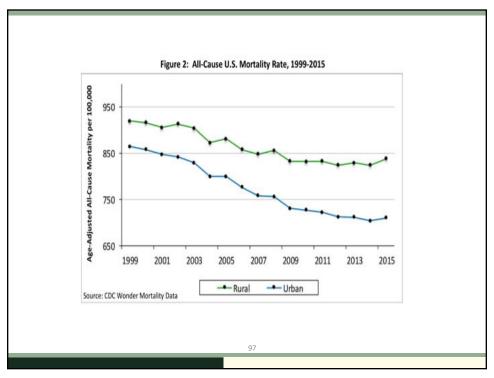


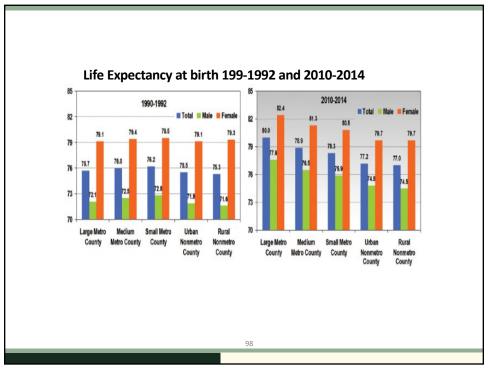














# **Community Benefit Examples that Show the Connection to Population Health**

St. Francis Memorial Hospital (San Francisco) – gang ridden Tenderloin district – "Corner Captains" mothers of school children patrol area watching out for the children – part of Safe Passage initiative of Tenderloin Health Improvement Partnership funded by hospital – targeting social determinants of health such as violence, poverty, hunger, education, nutrition, and housing

Gang members leave the moms and kids alone



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