Addressing Social Determinants of Health Through the Development of a Resource Website: a Healthcare Provider, Academic, & Public Health Partnership

Robin Meneguzzo, FNP-C

Kelly Kamm, PhD, MHS

Outline

- **Finding services in an underserved, rural area**
- **Social Determinants of Health (SDOH)**
  - Importance of SDOH screening
  - Evidence based system for SDOH screening
- **Population-based research in communities**
  - How place impacts priorities
- **Our experience building an online resource list for SDOH in our underserved, rural community of the Western U.P.**

Your organization is serving a client/patient that lives in zip code 49930. They indicate they need:

1. Medical care (non emergency, primary care)
2. Food assistance (intermittent food insecurity)

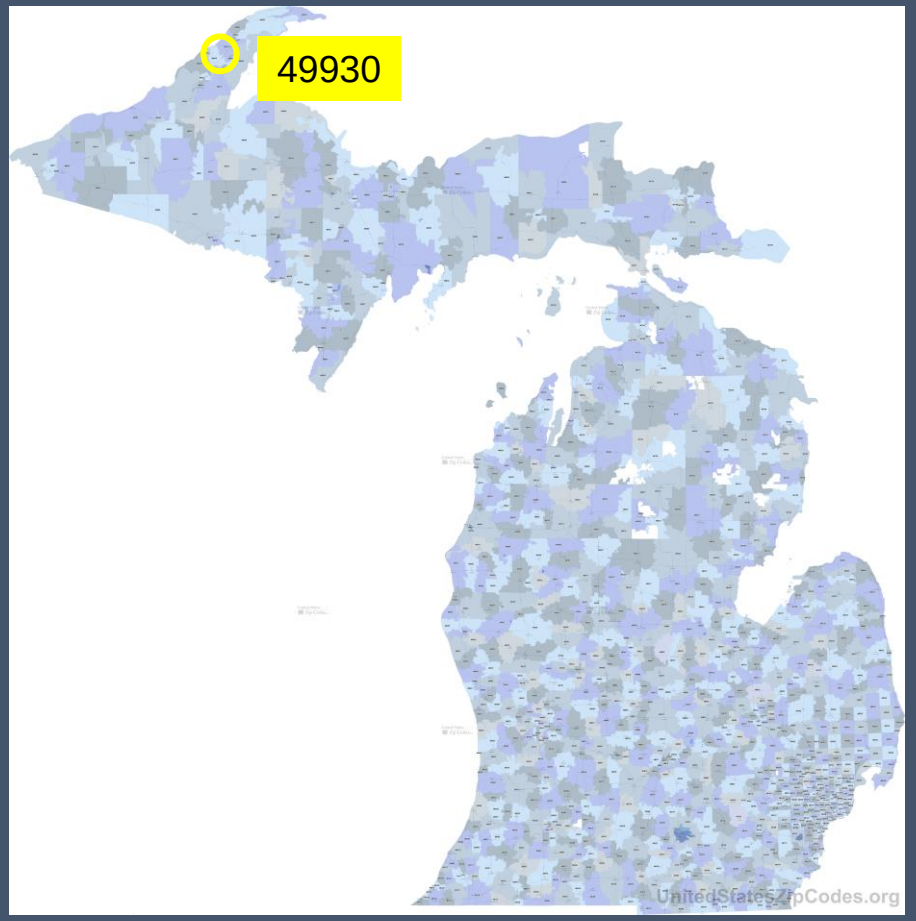
mi211.org

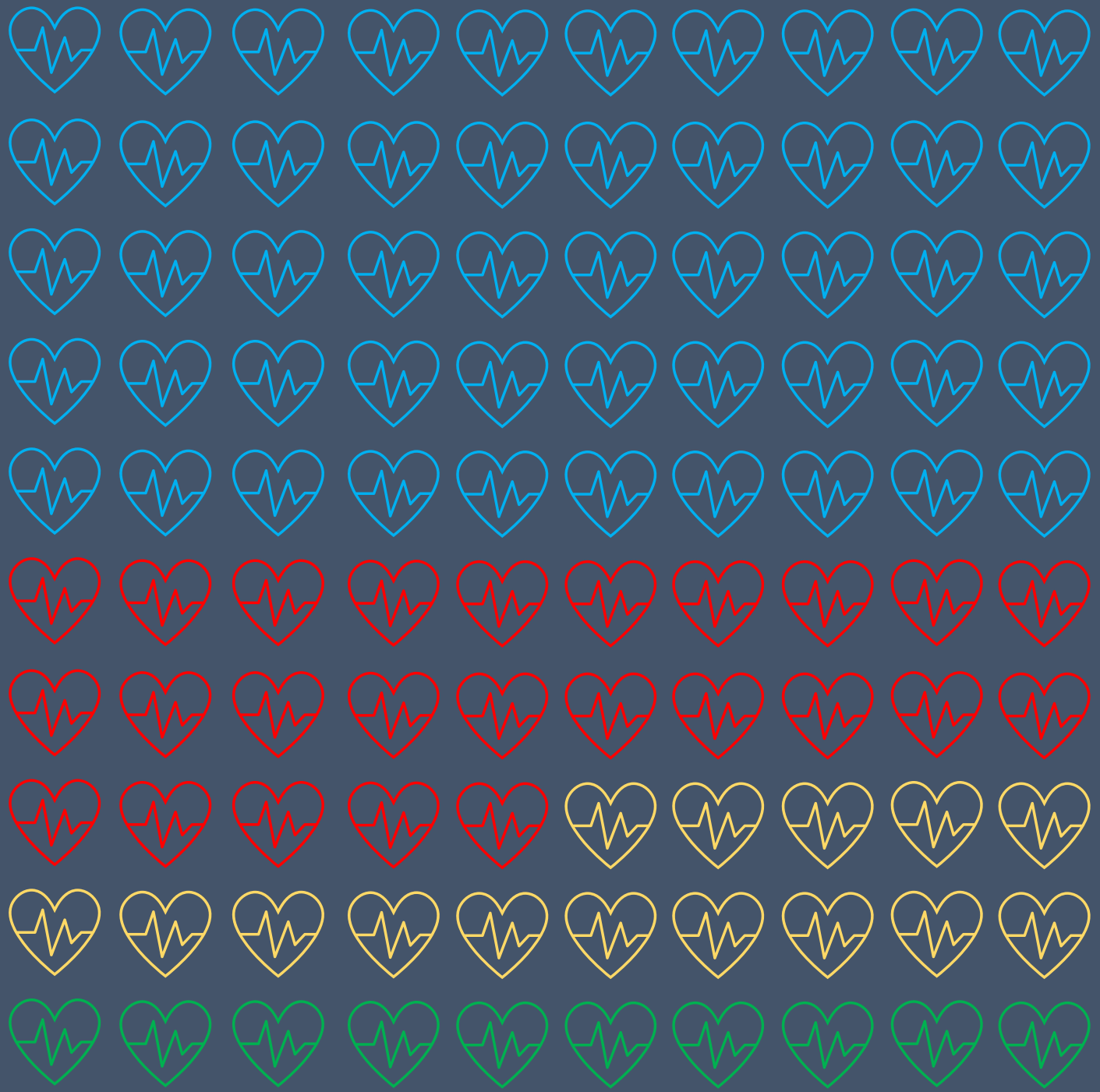
Findhelp.org

Google

Using the resource assigned to your group, identify the potential community services that meet these needs.

Note the difficulties you encounter while finding this information in a timely manner.





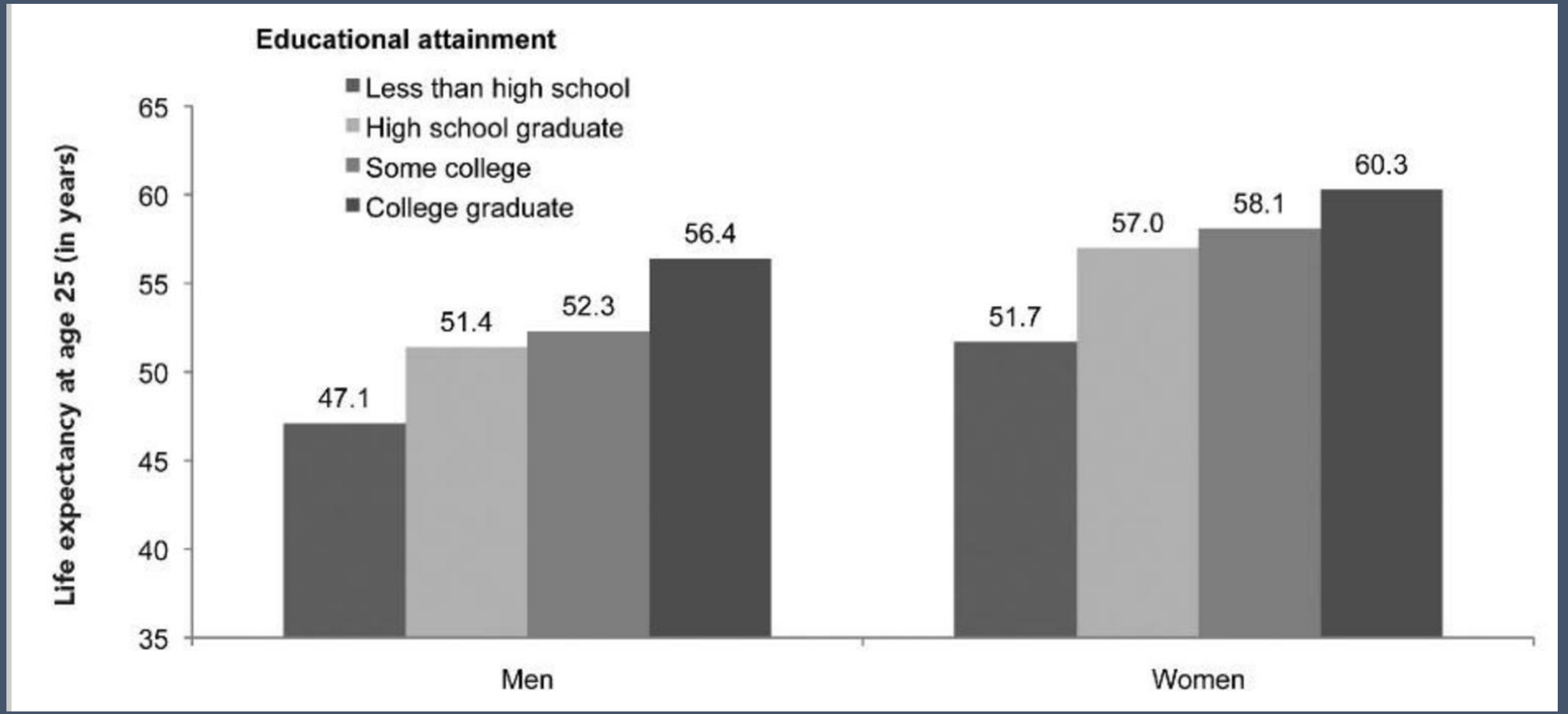
Social & Economic Environment

Healthcare system

Biology & Genetic Endowment

Physical environment

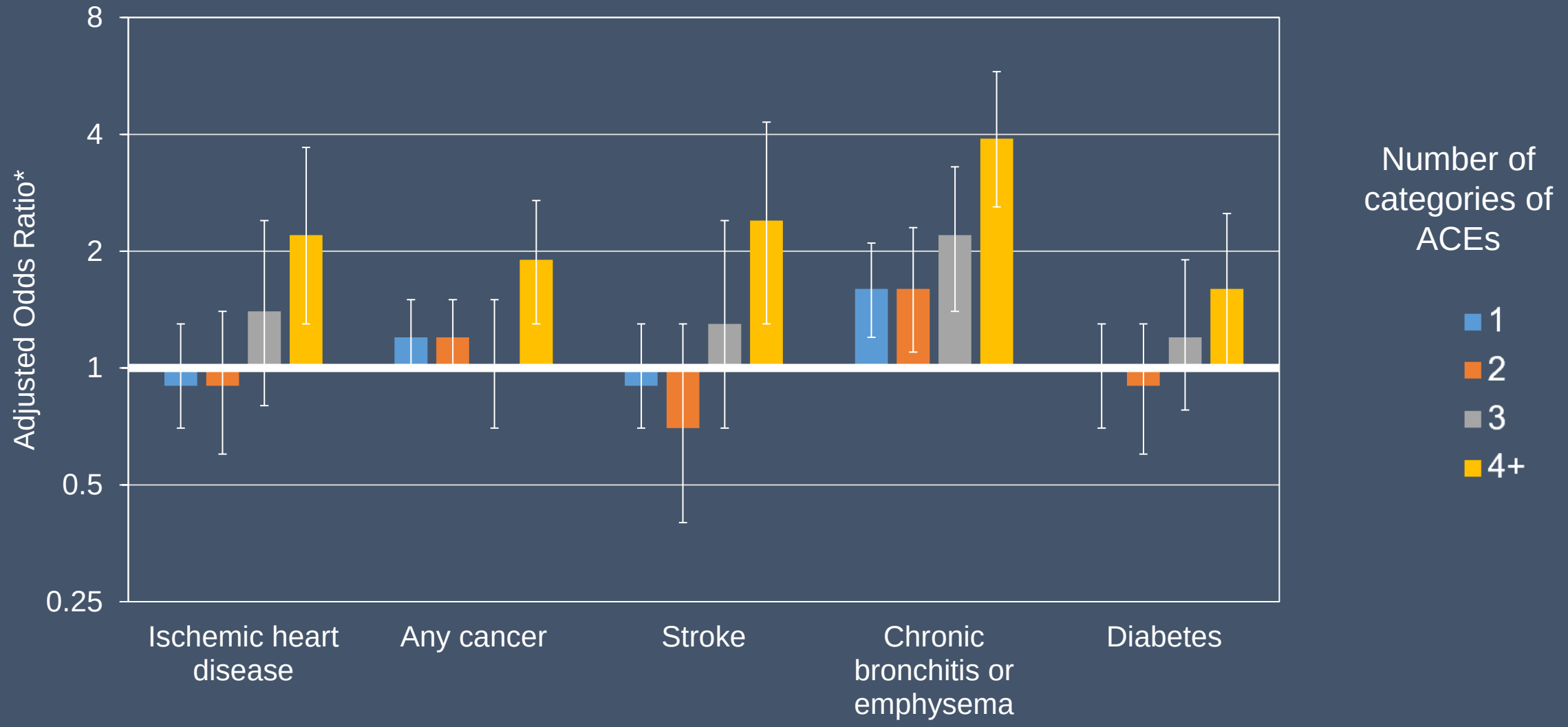
Keon WJ & Pepin L. *Population health Policy: Issues and Options* (2008) Canadian Senate Subcommittee on Population Health



Remaining life expectancy in the U.S. at age 25 by education and gender (2006)

Braveman & Gottlieb (2014) *Public Health Rep*

Adverse Childhood Experiences (ACEs) and Disease Risk



*Adjusted for age, gender, race, educational attainment

Felitti et al (1998) *Am J Prev Med*

Screening for SDOH Improves Health

1. Distribute screening tool
2. Review responses
3. Determine needs
4. Connect patients to services
5. Continual reassessment of needs

The EveryONE Project™
Advancing health equity in every community

Think about the place you live. Do you have problems with any of the following? (check all that apply)[6]

- ☐ Bug infestation
- ☐ Mold
- ☐ Lead paint or pipes
- ☐ Inadequate heat
- ☐ Oven or stove not working
- ☐ No or not working smoke detectors
- ☐ Water leaks
- ☐ None of the above

All steps needed for health improvement

Build (and use) a great screening tool

Essential domains to assess
Food insecurity
Housing instability
Utility needs
Financial resource strain
Transportation challenges
Exposure to violence
Socio-demographic information

'Optional' domains to assess
Childcare
Education
Employment
Health behaviors
Social isolation & supports
Behavioral/mental health

Health Leads

Healthleadsusa.org

Connecting patients to services

1. Distribute screening tool
2. Review responses
3. Determine needs
4. Connect patients to services
5. Continual reassessment of needs

Refer to a social worker, case manager, community health worker

Refer to MDHHS navigation partner

Refer to local health department

Contact state 211 system

Utilize publicly available online system

Health Leads

Healthleadsusa.org

Evaluate the impact

1. Distribute screening tool
2. Review responses
3. Determine needs
4. Connect patients to services
5. Continual reassessment of needs

Referrals

Receipt of referred services

Changes in health outcomes

Acceptability

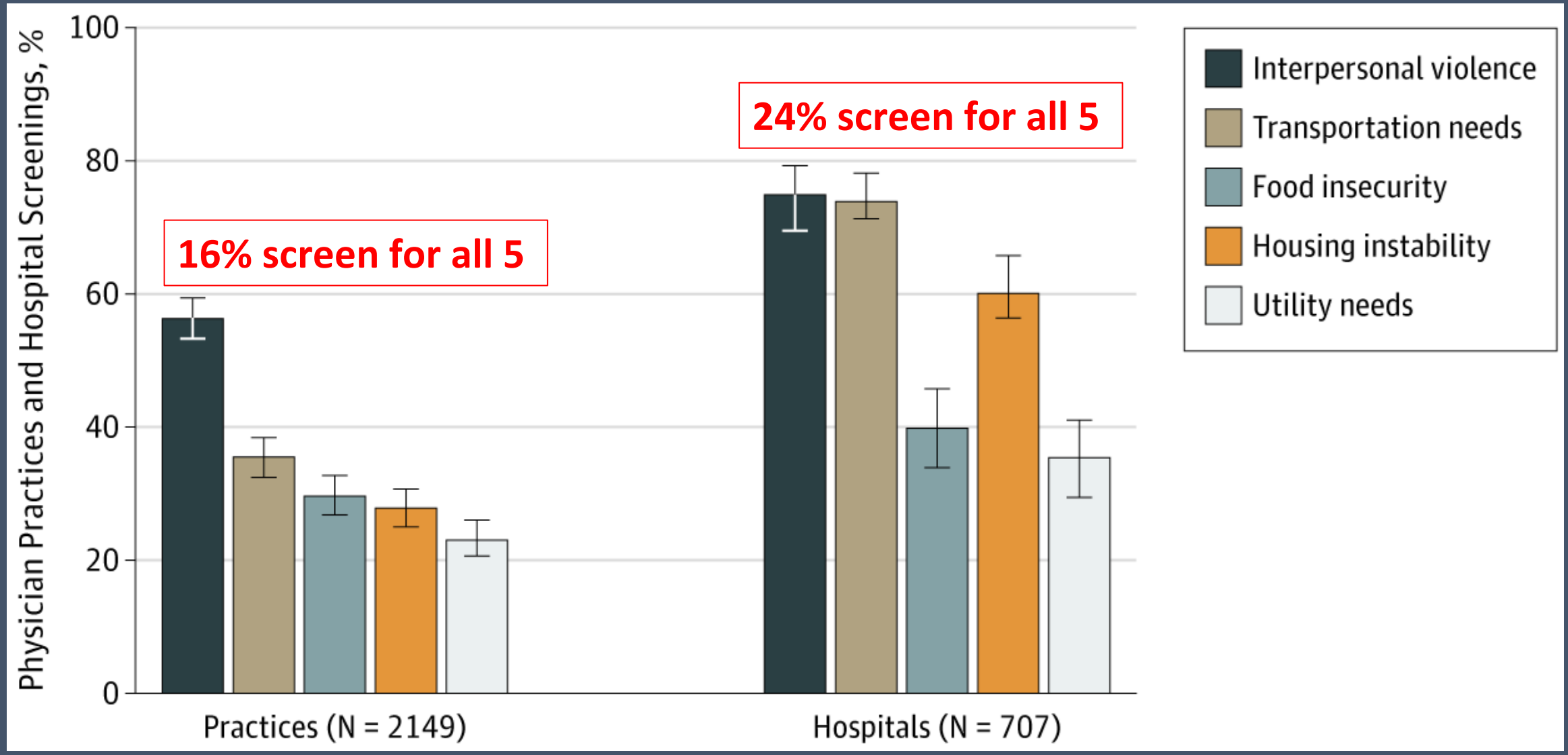
Knowledge, attitude changes

Changes in resource-seeking behaviors

Health Leads

Healthleadsusa.org

Front Line Health Care SDOH Screening



Fraze et al. (2019) *JAMA Netw Open*

Characteristics of Practices with Screening

1. Serving more disadvantaged patients
   - Higher Medicaid revenue

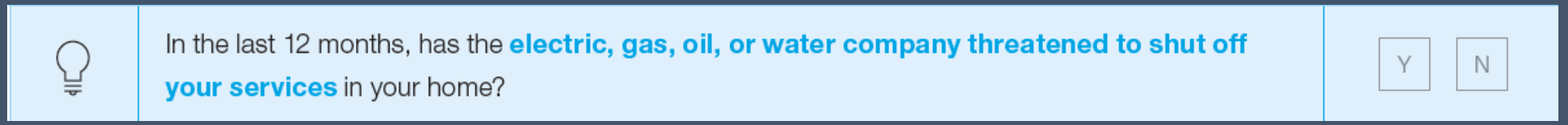
2. Institutional or administrative requirements
   - Federally Qualified Health Centers
   - Primary care improvement model
   - Medicaid ACO contract

3. Geography
   - Midwest was the worst

What's the situation in your community?

Fraze et al. (2019) *JAMA Netw Open*

Screening in our region (medical care)



"Do you need resources?"

1. Distribute screening tool
2. Review responses
3. Determine needs
4. Connect patients to services
5. Continual reassessment of needs

"How many servings of fruit do you eat each day?"

Visual assessment

Clinician and Community Identified Issue

- **Clinician identified need**
  - Digital centralization of health and social resource locator needed

- **Community identified need**
  - 2018 Community Health Needs Assessment (WUPHD)
  - One of the top 5 priorities

- **Community input not driving typical research program development**

Connecting patients to services

1. Distribute screening tool
2. Review responses
3. Determine needs
4. Connect patients to services X
5. Continual reassessment of needs

Refer comm

Not all health systems have these positions

Ref nav

Limited navigators, access

Re he

Limited access in some areas

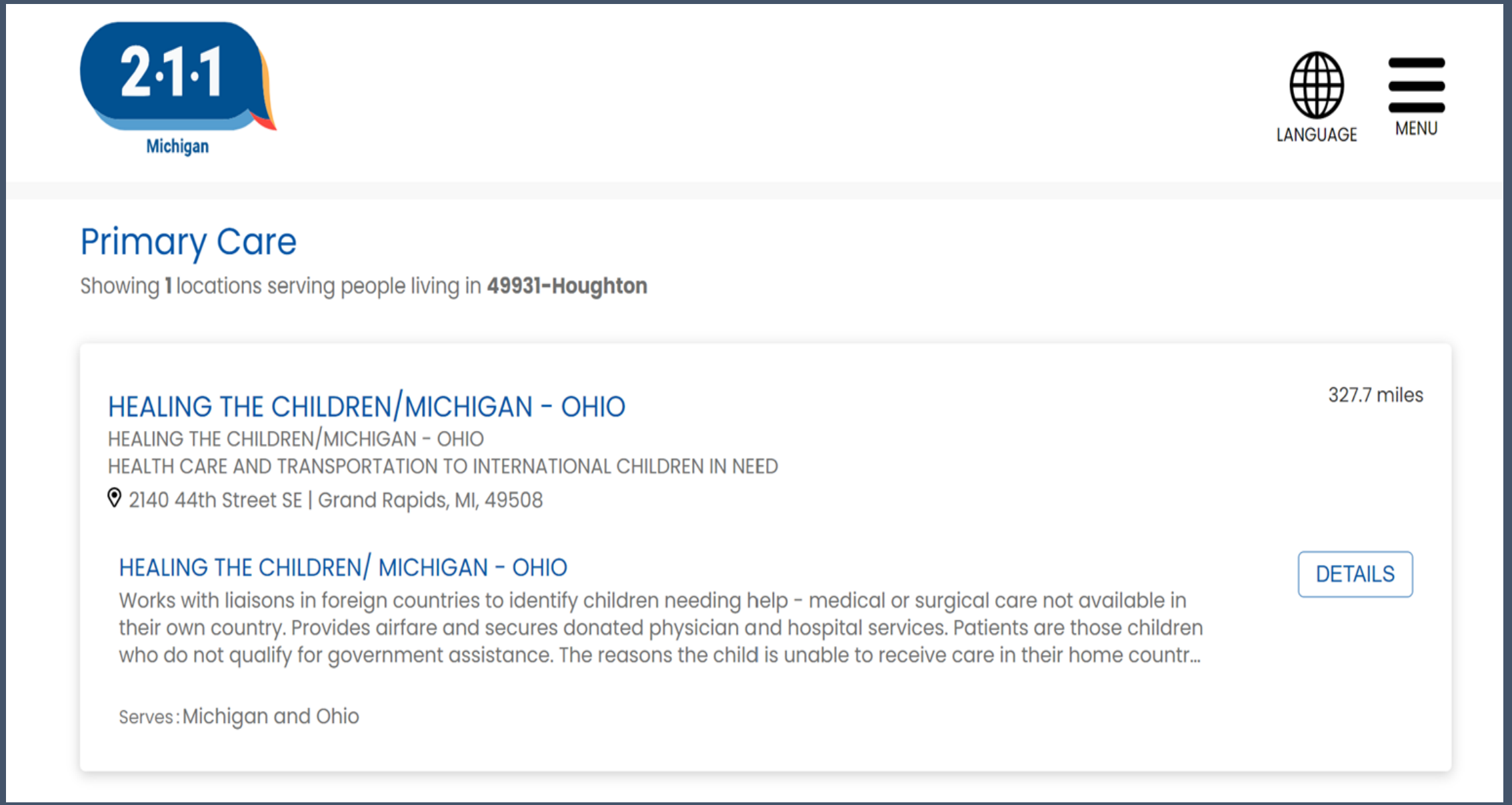
Cont syste

Incomplete

U av

Outdated, incomplete

Rural Resource Lists



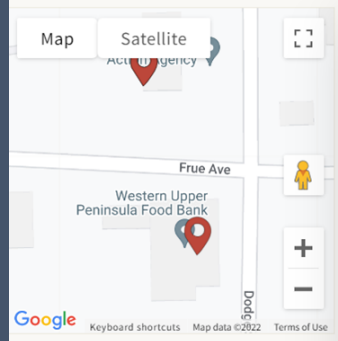
Rural Resource Lists

findhelp.org

Houghton, MI (49931) / food / food pantry (6)

Sort by RELEVANCE CLOSEST

Personal Filters | Program Filters | Income Eligibility



Notice out-of-date information or see a program you work for? Click **Suggest** to share an update or claim your program listing to get access to free tools and data.

Food Pantry

by Western Upper Peninsula Food Bank

Western Upper Peninsula Food Bank and Community Action Agency provide free food to feed families and individuals in need. We supply groceries for residents that do not have enough food because...

Main Services: food pantry

Serving: anyone in need, all ages

Next Steps:

Go to the program's website or call 906-482-5528.

0.64 miles (serves your local area)

310 East Sharon Avenue, Houghton, MI 49931

Open Now : 8:30 AM - 4:30 PM EDT

MORE INFO | SAVE | SHARE | NOTES | SUGGEST | SEE NEXT STEPS

The Emergency Food Assistance Program (TEFAP)

by Baraga-Houghton-Keweenaw Community Action Agency (BHK CAA)

TEFAP is a federal program that helps supplement the diets of low-income individuals and households by providing them with food assistance at no cost. This program provides:- Food to meet basic...

Main Services: food pantry

Serving: all ages, individuals, families

Next Steps:

Call 906-482-5528.

0.64 miles (serves your local area)

926 Dodge Street, Houghton, MI 49931

Open Now : 8:00 AM - 5:00 PM EDT

MORE INFO | SAVE | SHARE | NOTES | SUGGEST | SEE NEXT STEPS

Mobile Pantry Distribution

by Food Bank of Eastern Michigan

The Food Bank of Eastern Michigan offers the Mobile Pantry Distribution to provide members of our community with a food pantry that is more convenient for them to access.We provide:- Mobile food...

Main Services: food pantry , community support services

Serving: anyone in need, all ages

Next Steps:

Go to the program's website.

Serves your state

Open Now : 8:00 AM - 5:00 PM EDT

Commodity Supplemental Food Program (CSFP)

by Baraga-Houghton-Keweenaw Community Action Agency (BHK CAA)

CSFP is a monthly food package program that helps improve the health of low-income persons at least 60 years of age by supplementing their diets with nutritious USDA foods. The package includes...

Main Services: food pantry

Other Services: nutrition education

Serving: seniors, low-income

Next Steps:

Call 906-482-5528 or go to the program's website.

0.64 miles (serves your local area)

926 Dodge Street, Houghton, MI 49931

Open Now : 8:00 AM - 5:00 PM EDT

MORE INFO | SAVE | SHARE | NOTES | SUGGEST | SEE NEXT STEPS

Food Distribution Program on Indian Reservations (FDPIR)

by United States Department of Agriculture Food and Nutrition Service - Midwest Regional Office

FDPIR is a federal program that provides USDA foods to low-income households, including the elderly, living on Indian reservations, and to Native American families residing in designated areas...

Main Services: food pantry

Other Services: nutrition education

Serving: all ages, low-income, native american

Next Steps:

Call 312-353-6664.

Serves your state

Open Now : 9:00 AM - 6:00 PM EDT

MORE INFO | SAVE | SHARE | NOTES | SUGGEST | SEE NEXT STEPS

Food Bank

by The Dysphagia Outreach Project

The Dysphagia Outreach Project Food Bank provides access to thickeners, pre-modified foods, therapy tools, oral care supplies, and adaptive equipment to low income individuals with dysphagia. This...

Main Services: food pantry , personal care items , medical supplies , assistive technology

Serving: all ages, physical disability, chronic illness, individuals, low-income

Next Steps:

Apply on their website or email team@dysphagiaoutreach.org to get more info.

Serves your state

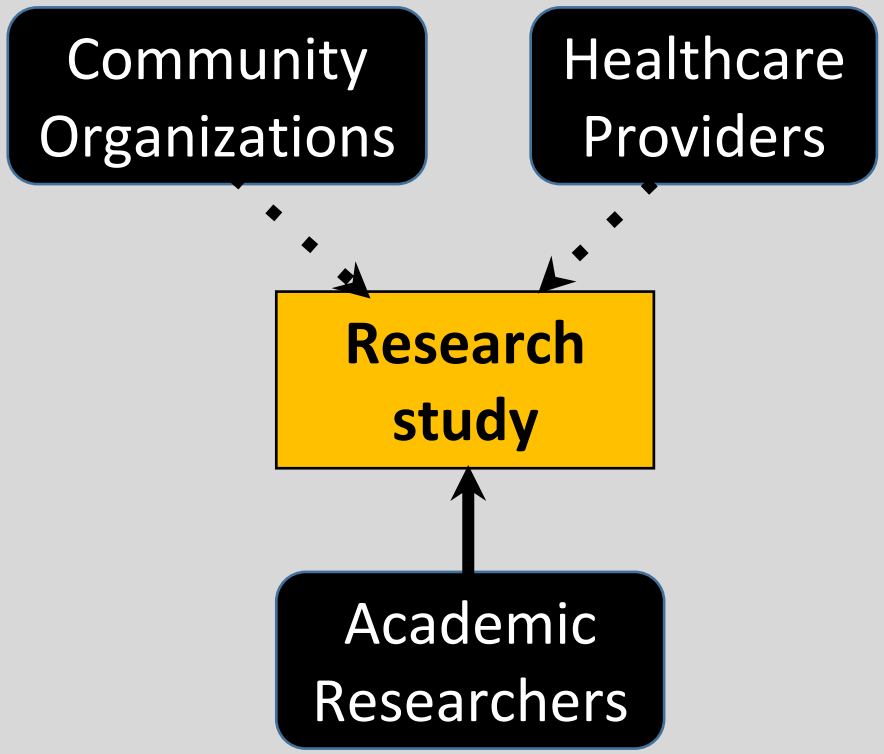
Open Now : 9:00 AM - 6:00 PM EDT

Forging Partnerships

Community based participatory research

Shared ownership and decision making

Community based research



Active involvement of community

Clinician-Researcher Partnership

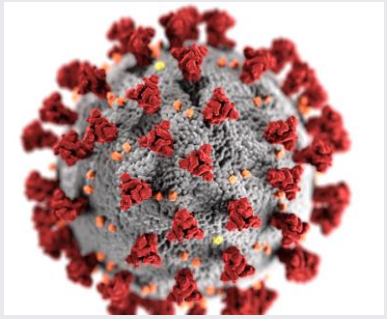
Dec 2019

& met at meeting organized by different researcher

Jan 2020

cold called . Discuss needs, skills, and potential partnership

Feb 2020



Mar 2020

called Immediate need for patients.

used volunteers to rapidly create a resource list

Apr 2020

personal network connected to a 'home' for list

COPPER COUNTRY **STRONG**
JOINT INFORMATION SYSTEM FOR THE 5 COUNTIES

Test run to fine tune future research study

Icons from Noun Project, CDC PHIL

Screening for SDOH Improves Health

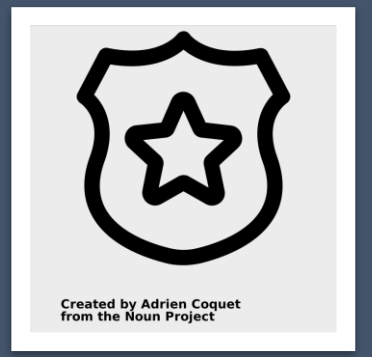
- Distribute screening tool
- Review responses
- Determine needs
- Connect patients to services
- Continual reassessment of needs

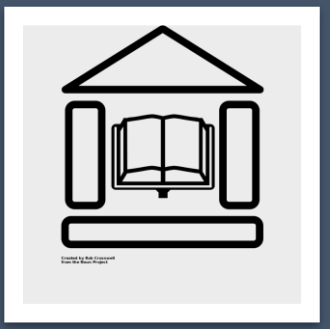
Build a resource list

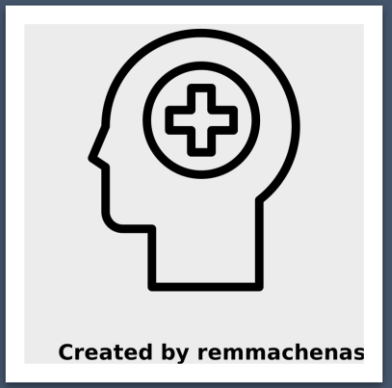
Research partnerships

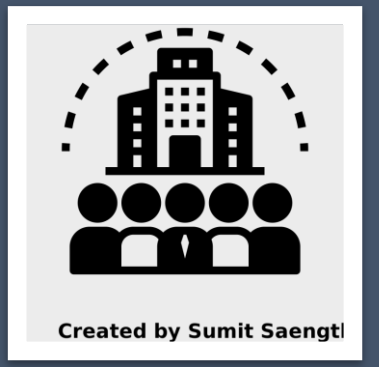
- Grant applications
  - Proof of concept
  - Established collaborations
  - Community support

- Qualitative research study
  - Gained a broader understanding of needs
  - Informed the website development and design
  - Identified additional resources,
  - Strengthened community connections
  - Increased community engagement

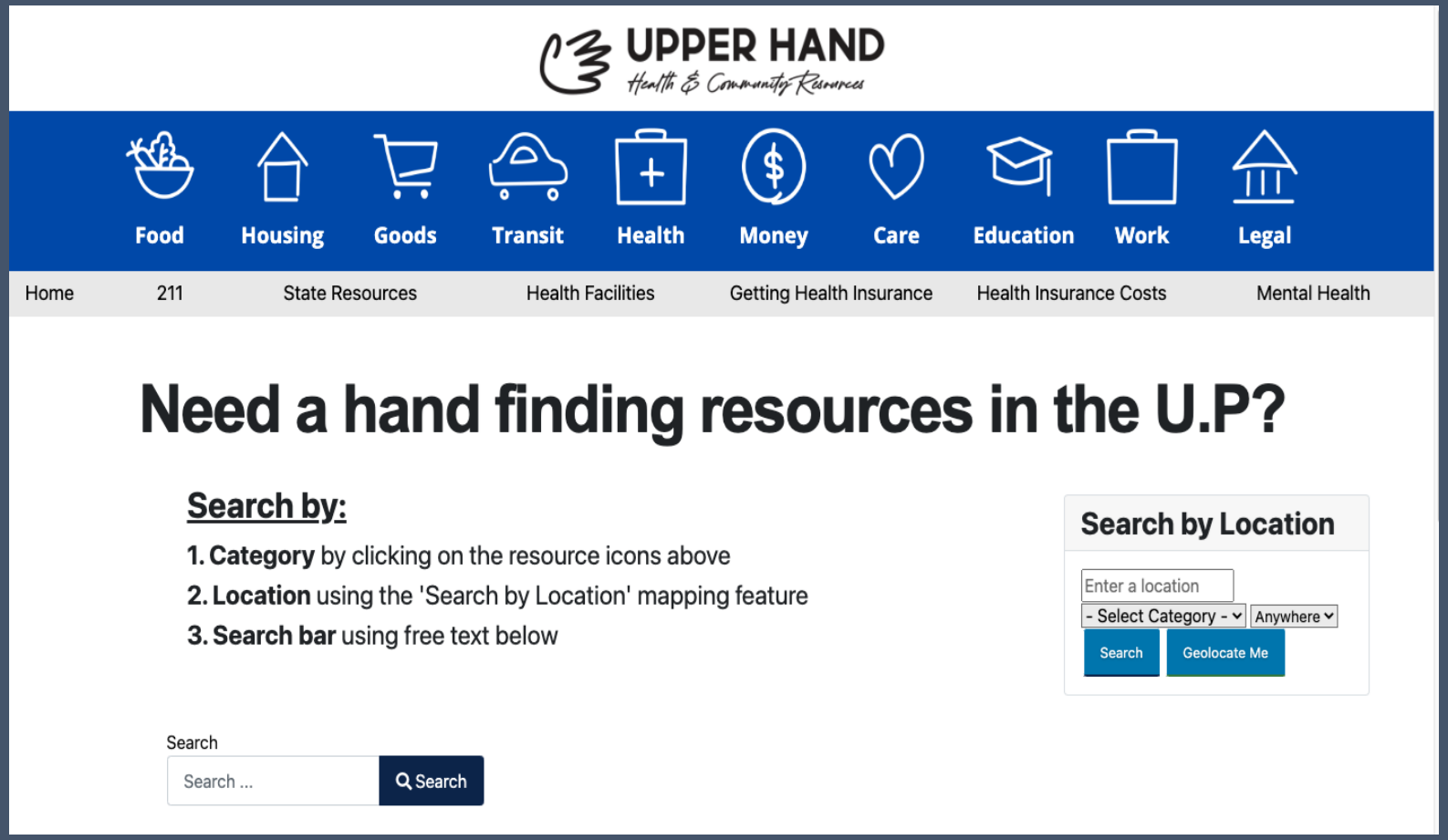








Ford College Community Challenge + SUPERIOR Health Foundation HEALTHIER TOGETHER = UPresources.org



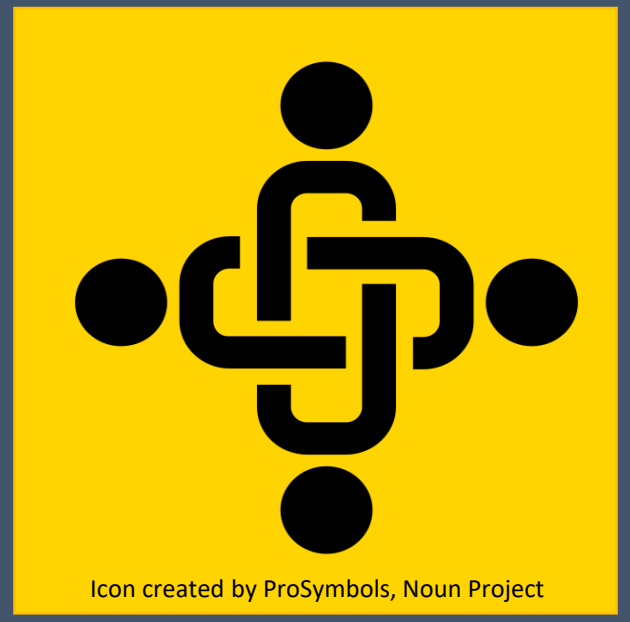
Sustainability

- Local health department
  - IT support
  - Site licenses
- Researchers (faculty and students)
  - Advertising and promotion
  - Future grant seeking
- University curriculum
  - Course assignment to maintain accuracy
- Community
  - Feedback loop for new, updated resources

No burden on local service organizations

Future directions

- Collaborate with other pilot projects
- Improve and expand regionally
- Advocate for state level support of regional systems



More information does not always mean better connection to those resources

UPresources.org

UpperHandResources.org

Contact us for more information:

Kelly Kamm, PhD, MHS (kbkamm@mtu.edu)

Robin Meneguzzo, FNC-P (robin@keweenawgives.org)

Ruralhealth-Kamm@mtu.edu

Funding for the development of Upper Hand Community and Health Resources Hub was provided by Ford Motor Company Fund College Community Challenge Grant and Superior Health Foundation in partnership with the Western Upper Peninsula Health Department