

CENTER FOR VIRTUAL CARE VALUE AND EQUITY

Saif Khairat, PhD, MPH
Professor
University of North Carolina at Chapel Hill
NIHCM

Center for Virtual Care Value and Equity (ViVE)

Established: 2023

\$3.7m funding from NIH/NCATS: 2023-2028

Goal: To accelerate the **adoption** and **dissemination** of **virtual care research** capabilities.

National Collaborators:

American Heart Association (AHA)
American Academy of Pediatrics (AAP)
American Medical Associate (AMA)
Local: NC DHHS, UNC Health, RTI
International



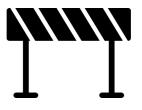
Center for Virtual Care Value and Equity (ViVE)

CORE ACTIVITIES



Develop and make available a library of Real-World Data.

Develop and validate new methods for measuring the value and equity of virtual care.



Conduct research to identify and address barriers to the implementation and adoption of virtual care.



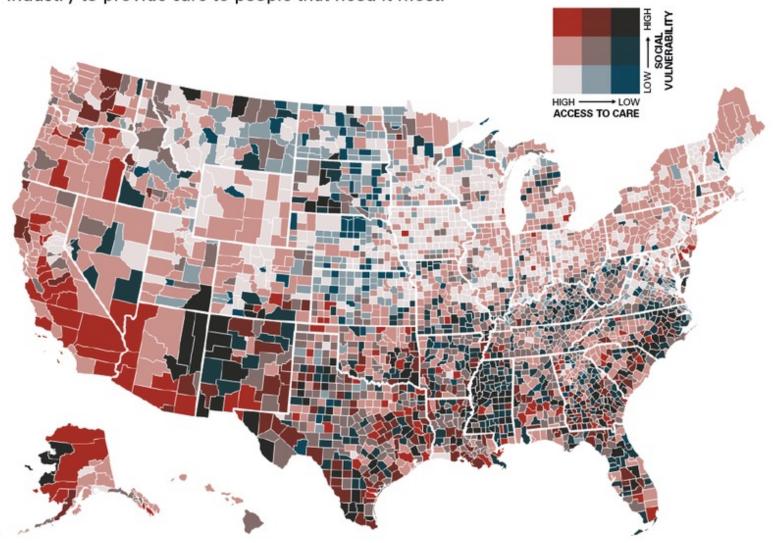
Train the next generation of virtual care researchers.





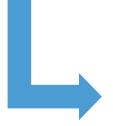
INEQUITABLE ACCESS

This map shows where social vulnerability and poor access to healthcare in the United States intersect. Massive gaps persist in the South and among rural, urban and tribal communities, which illustrate shortcomings of the industry to provide care to people that need it most.



Problem

Difficult to help people who lack digital access without the right tools to measure their needs.



Unequal healthcare access

Increased healthcare costs

Inefficiencies and unmet needs

The need...

Identify Populations at Risk

Risk Stratification

Categorize patients by vulnerability scores to prioritize outreach and interventions.

Early Intervention

Identify high-risk individuals enables targeted interventions, potentially improving health outcomes.

Reduce Inequities

Equity Gap Identification Address disparities in digital health access and utilization among different demographic groups.

Targeted Interventions

Data insights can aid in developing targeted interventions for underserved populations.

M&E Utilization

Patient Suitability

Evaluate patients for telehealth based on skills, comfort, and barriers to ensure proper care delivery and reduce negative experiences.

Resource Allocation

Patient preference and technology access data can optimize telehealth resource allocation and ensure availability where most needed.

SPROUT Telehealth Evaluation and Measurement (STEM) Framework

Enable the development of appropriate program metrics across all stages of program maturity in four domains:

- Health/Population outcomes,
- Quality and Cost of Care Delivery,
- Individual Experience,
- Program Implementation

SPROUT Telehealth Evaluation and Measurement (STEM) Domains

Domain 1

Health Outcomes:

Measurement of a medical condition that directly affects the length or quality of a person's life

Domain 2

Quality and Cost of

Delivering Care: A measure of care quality and cost of delivering the care. These include some

of the National
Academy of
Medicine's quality
domains (timeliness,
effectiveness, safety,
efficiency/cost), and
diagnostic accuracy.

Domain 3

Individual Experience:

The personal experience of patients, providers, health care team members, caregivers, and/or family members when they are using the system.

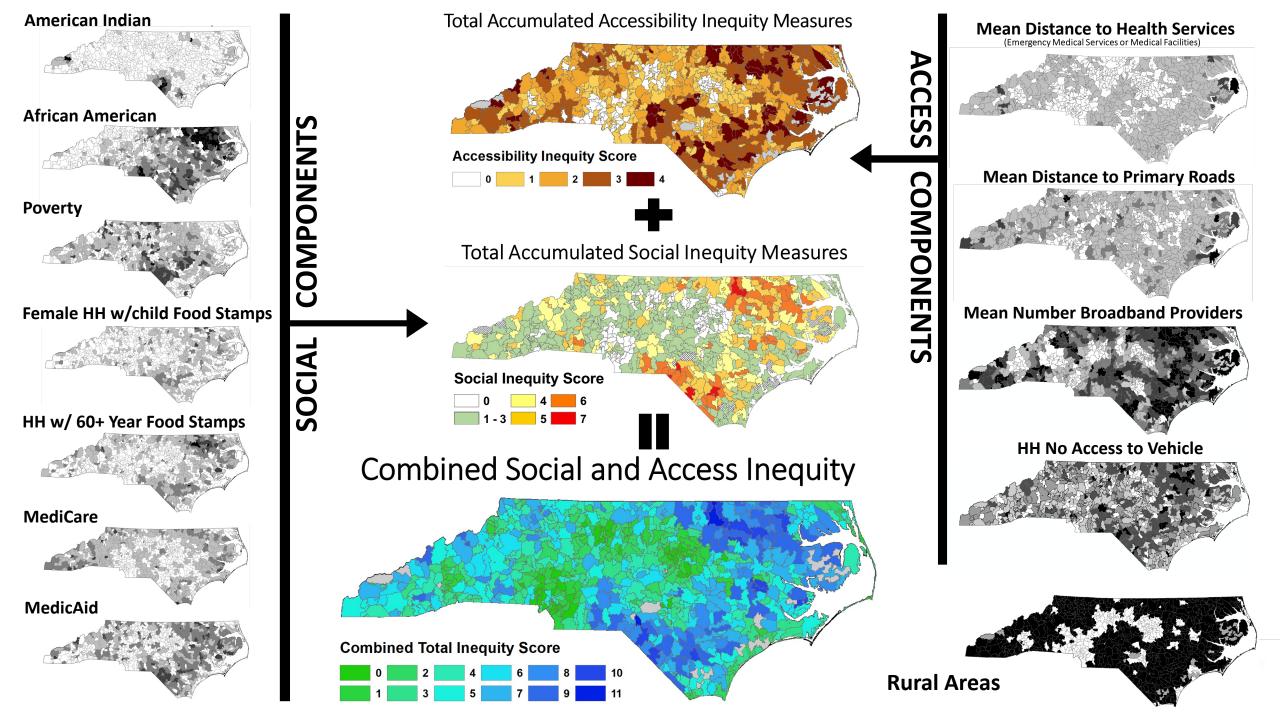
Domain 4

Program KPIs and Operations:

Measurements of a program's success according to enterprise/institutional targets. May be shared from other domains.

<u>Domain 5</u> - Equity Stratifiers: Variables used to subdivide patient cohorts in order to detect and/or monitor for disparities in health outcomes, care delivery, and experience.

Four Measurement Domains of STEM Framework



Digital Health Equity Index Score

Social Factors

- 1.Hispanic
- 2.Black/African American
- 3. Population in Poverty
- 4. Single Parent Head of Household with Children Under 18 Receiving Food Stamps
- 5. Households with person aged 60+ receiving Food Stamps
- 6. Medicare
- 7. Medicaid
- 8. Non-native English speakers
- 9. Disability
- 10.Employment
- 11.Education
- 12.Health Insurance Coverage Status

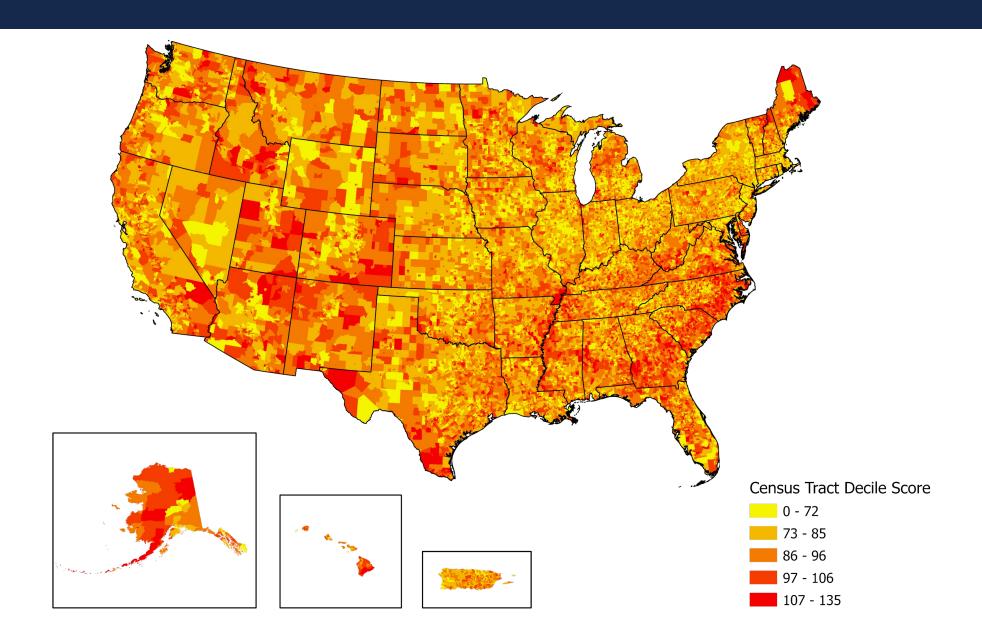
Access Factors

- 1.Access to vehicle
- 2.Access to Urgent Care
- 3.Medically Underserved Area (MUA)
- 4.Access to ED

Digital Factors

- 1.% Households with an Internet Subscription
- 2.% of Households with Cellular Data Plan for smartphone
- 3.% of Households that Have No Computer, Smartphone, or Tablet
- 4. Number of available ISP

Digital Health Equity Index Score





Takeaways



Integrated telehealth delivery models

Novel ways to identify populations at-risk

Need for validated implementation and evaluation frameworks

Interested in Virtual Care Equity and Value?



Questions?



Interested? Email us: Vive@unc.edu



