Introducing the STAR Clinical Research Network

The STAR Clinical Research Network (CRN) focuses on *people-centered* research, including studies that leverage informatics tools and key stakeholders to perform pragmatic clinical trials, comparative effectiveness studies, real-world evidence research, and health system innovation.

With data on over 12 million patients, the STAR CRN network consists of academic health centers, community hospitals and a range of outpatient practices including primary care, specialty practices and safety net facilities that serve diverse populations. The network provides access to a broad array of clinical data, informatics tools, patients, providers and systems that lets us address an array of research questions.

The objective of our CRN is to robustly support comparative effectiveness tudies, pragmatic clinical trials, health system innovation and the other research needs of our stakeholders and partners.
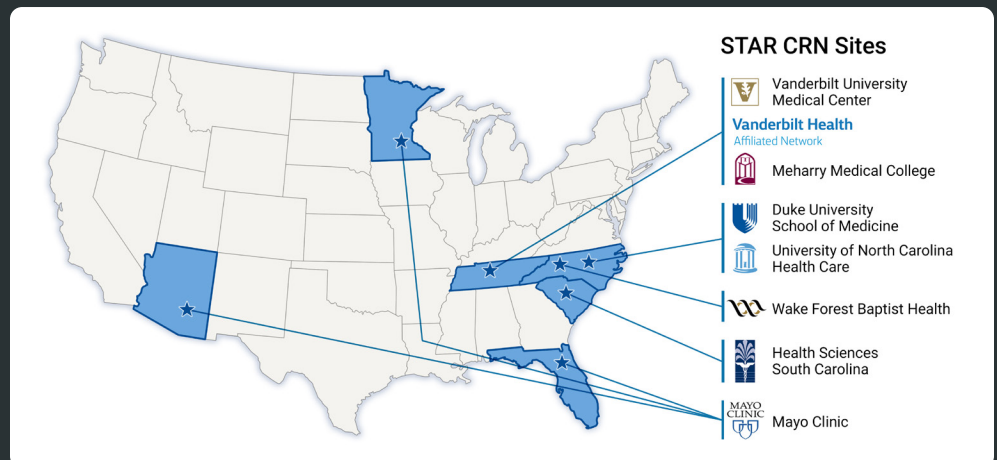
For Investigators...

STAR CRN provides guidance for designing, implementing, evaluating and disseminating the results of your project.

"The infrastructure provided by the STAR CRN supported multiple aspects of my research. We were able to obtain feasibility counts, including proportions of underrepresented groups, and to connect with diverse clinics from a wide geographical area who were all interested in research. Throughout our trial, the STAR CRN infrastructure will enable us to leverage health record data for recruitment, data collection, and retention. This will support our ability to engage more underrepresented groups in research to advance equity and learning."

– Lindsay Mayberry, MS, PhD

STAR Clinical Research Network current reach:

12 million patients nationwide within the STAR CRN

STAR CRN Sites

- Vanderbilt University Medical Center
- **Vanderbilt Health** Affiliated Network
- Meharry Medical College
- Duke University School of Medicine
- University of North Carolina Health Care
- Wake Forest Baptist Health
- Health Sciences South Carolina
- Mayo Clinic

Additional Information About Clinical Data Research Networks

SERVICES OFFERED

- Development and validation of computable phenotypes (algorithms to identify patients with certain conditions)
- Obtain counts of potentially eligible subjects, procedures or other items to include in grant proposals and understand if the project is feasible.
- Identification and contact of patients across STAR
- Contact of potential study subjects through phone, email, patient portal and other modalities
- Stakeholder Engagement (Patients/Families, Clinicians, Clinics, etc)
- Electronic consent, survey, payment, decision support for trial delivery
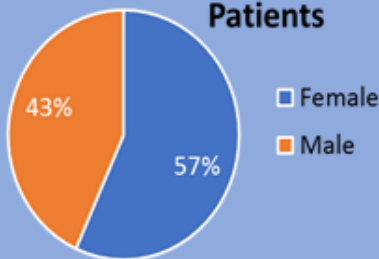
TYPES OF RESEARCH CONDUCTED

- Research on de-identified electronic health record data
- Research on identified electronic health record data
- Survey Research
- Observational research
- Pragmatic clinical research
- Implementation research

"Our aim is to improve the health of entire populations, and this expansion gives our network a new geographical reach, with electronic health record data on over 12 million patients. Together we're bringing new flexibility, efficiency and power to clinical trials and effectiveness research."
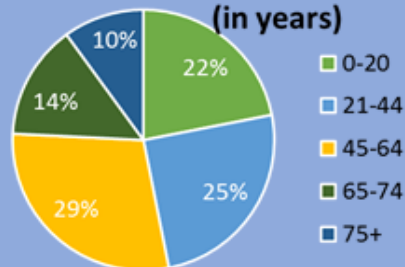
– Russell Rothman, MD, MPP;
STAR CRN Network PI

DEMOGRAPHICS

Sex Composition of STAR CRN Patients

- 43% Male
- 57% Female

Age Composition of STAR CRN Patients (in years)

- 0-20: 22%
- 21-44: 25%
- 45-64: 29%
- 65-74: 14%
- 75+: 10%

Disease Types Represented in STAR CRN Data (by case count)

- Respiratory Conditions
- Selected Malignancies
- Myocardial Infarction
- Stroke
- Rheumatoid Arthritis
- Ulcerative Colitis
- Hypertension
- Renal Disease
- Influenza / Pneumonia

Respiratory Conditions	Selected Malignancies	Myocardial Infarction	Stroke	Rheumatoid Arthritis	Ulcerative Colitis	Hypertension	Renal Disease
1,057,034	302,729	209,568	144,898	134,854	81,285	63,383	48,569