

# DEM Faculty Research and Scholarship

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Alan Storrow, MD

August 2022

# CTSA and VICTR

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- Supported by NCATS (National Center for Advancing Translational Science), the CTSA program supports a national consortium of medical research institutions designed to transform how biomedical research is conducted
- First award at VUMC: 2007

## Goals:

1. Speed the translation of laboratory discoveries into treatment for patients
2. Engage communities in clinical research efforts
3. Train a new generation of clinical and translational researchers

# VICTR Leadership



Senior Vice President for Clinical Research  
Deputy Directory, VICTR  
Professor of Emergency Medicine



Senior Vice President & Senior Associate Dean  
for Health Equity and Inclusive Excellence  
Associate Director, VICTR  
Professor of Medicine



Executive Vice President for Research  
Senior Associate Dean for Clinical Sciences  
Melinda Owen Bass Professor of Medicine  
Director, VICTR

# External Front Door – Public Website



<https://victr.vumc.org/>

## The Vanderbilt Institute for Clinical and Translational Research



### About VICTR

The Vanderbilt Institute for Clinical and Translational Research (VICTR) is dedicated to transforming the way ideas and research discoveries make their way from origin to patient care.

[Learn More](#)



### Research Programs

Using our operational infrastructure, resources, and programs that have been cultivated for nearly a decade, VICTR fosters enhanced innovation across all areas of services and support.

Learn more about [our programs](#).



### Resources & Training

VICTR provides [resources, education, and training](#) to Vanderbilt University, Vanderbilt Medical Center, and Meharry Medical College researchers. This, in turn, speeds translation of scientific discoveries, improving treatment and health outcomes for our patients and communities.

3,175

SUPPORTED RESEARCH

PROJECTS

3,601

REDCAP PARTNERS

908

EDUCATIONAL SESSIONS

# Internal Front Door - StarBRITE

- One-stop shopping
- Single electronic point of entry for Vanderbilt and Meharry researchers
- Integrates all VICTR resources

<https://starbrite.app.vumc.org>

ESMART | MY RESEARCH | GOV. DASHBOARD | PUB. COMPLIANCE | MY PROFILE | QUICK LINKS | LOGOUT | CONTACT US

Vanderbilt Institute for Clinical and Translational Research  
**VICTR** StarBRITE

Search StarBRITE

Planning & Implementation | Recruitment | Data Management | Education | Funding | VICTR Data Resources | Clinical Research Center (CRC)

Research on Practice and Policy | Basic Science

Conducting clinical trials?  
Learn more about new GCP training requirements

New Good Clinical Practice (GCP) Training Requirements

**What is StarBRITE?**  
StarBRITE, launched in October 2007, is an interactive system that provides one stop shopping for research needs. You can find a variety of different resources such as Pilot Funding, REDCap, ResearchMatch, BioVU, and much more.  
Interested in learning more about StarBRITE? [Request](#) a one-on-one or group demo of StarBRITE.

**What is VICTR?**  
Vanderbilt's Institute for Clinical and Translational Research (VICTR) is a virtual home for clinical and translational research and its mission is to transform the way ideas and research discoveries make their way from origin to patient care. [Visit the VICTR Public Website to Learn More About VICTR and the CTSA](#)

**Cite the CTSA grant**  
Click [here](#) to learn more about citing the CTSA grant.

**Frequently Used Resources**

- VICTR Resource Request
- Community Engagement Resource/Consultation Request
- CRC Visit Scheduling
- CRFSS
- eSMART
- Record Counter
- REDCap
- Research Derivative (RD)
- ROCKET
- Studios
- Subject Locator
- Synthetic Derivative (SD)
- Vanderbilt Health Connect
- VICTR Poster Printing



StarBRITE

5 ITEMS NEED ATTENTION

Search StarBRITE



- Planning & Implementation
- Recruitment
- Data Management
- Education
- Funding
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### What is VICTR?

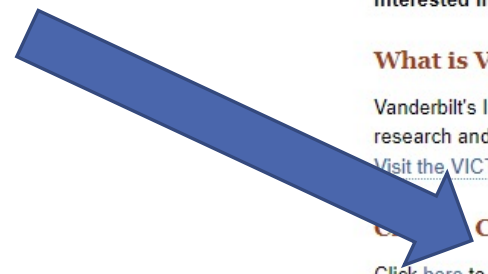
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Ask a question, or make a suggestion!

Ask an expert a question or provide comments on the tools or services you would like to see on the StarBRITE system.

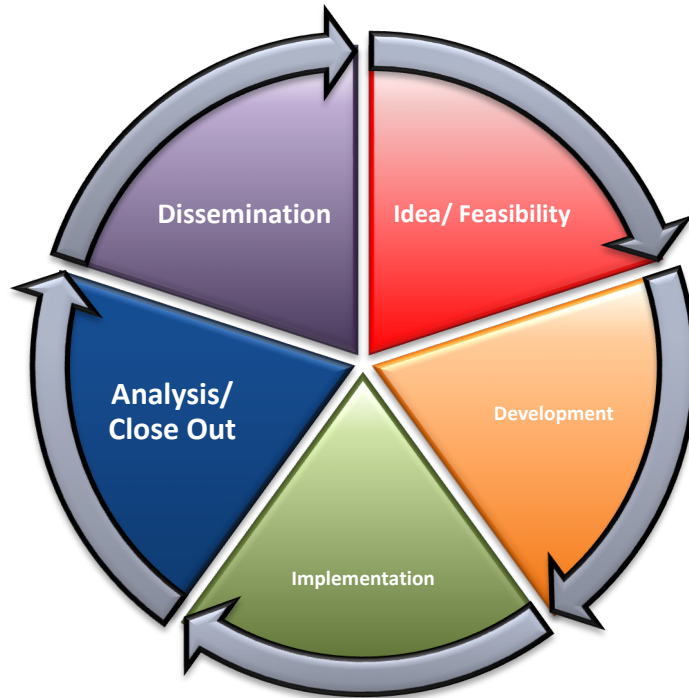
submit



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  - Vanderbilt Health Connect
  - VICTR Poster Printing
- ### Regularly Scheduled Clinic

# VICTR Resources

**Research Support Services (RSS)** Resources and support for the entire lifecycle of a research project.



- **Idea/Feasibility** – refine hypothesis (studios), explore target population (ResearchMatch); explore budget/funding
- **Development** – refine methods (biostats, studios, big data tools), database/data collection tools (REDCap), track approvals/regulatory support (link to IRB); budget tools; and explore commercialization
- **Implementation** - recruitment, collaboration and data management, and quality & compliance (ESMART & eSTAR Access)
- **Close Out/Analysis** – Biostats clinics
- **Dissemination** – Manuscript writing; Public Access Compliance
- **Education & Training** – Boot Camp; CRC Research Skills Workshops, Education Calendar; RCR/CME/IRB Events

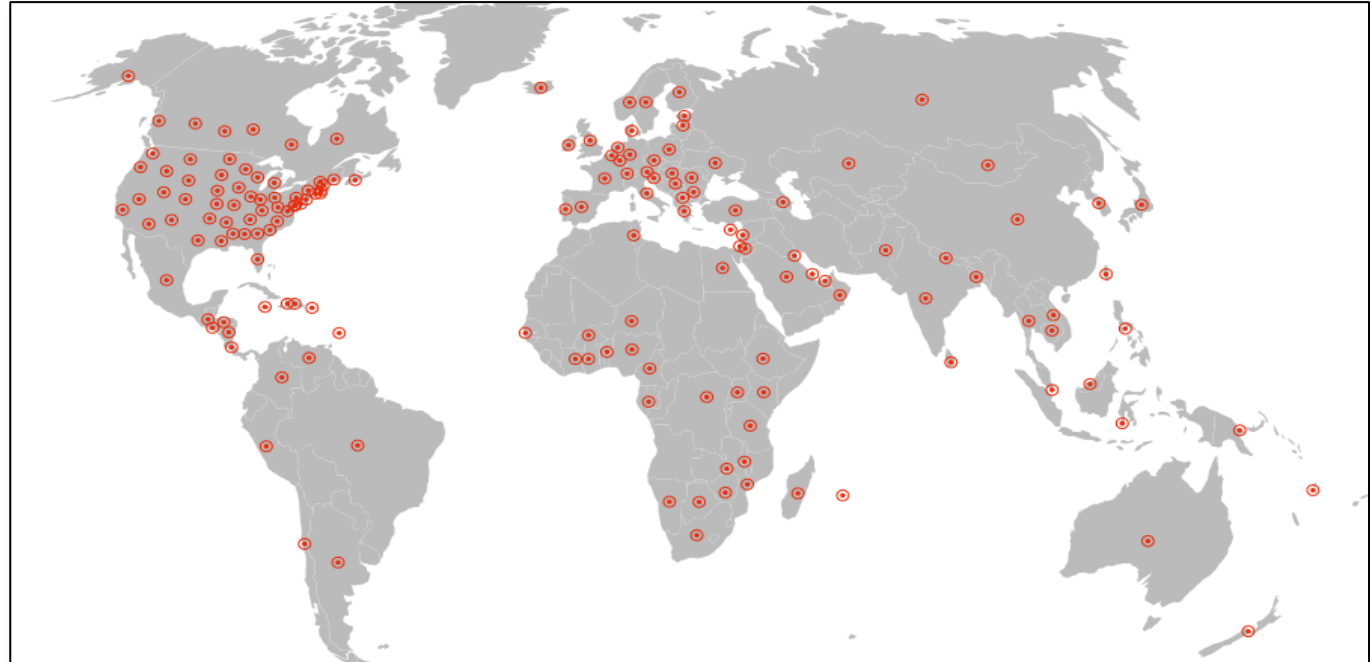
# **REDCap**® DATA MANAGEMENT

**REDCap** is a secure, web-based application for creating databases and surveys quickly and securely

User-friendly creation of electronic case report forms and survey instruments

Ability to develop and launch any size project

Offers Basic Introduction training, weekly clinics and regular Clinical Data Pull seminars.



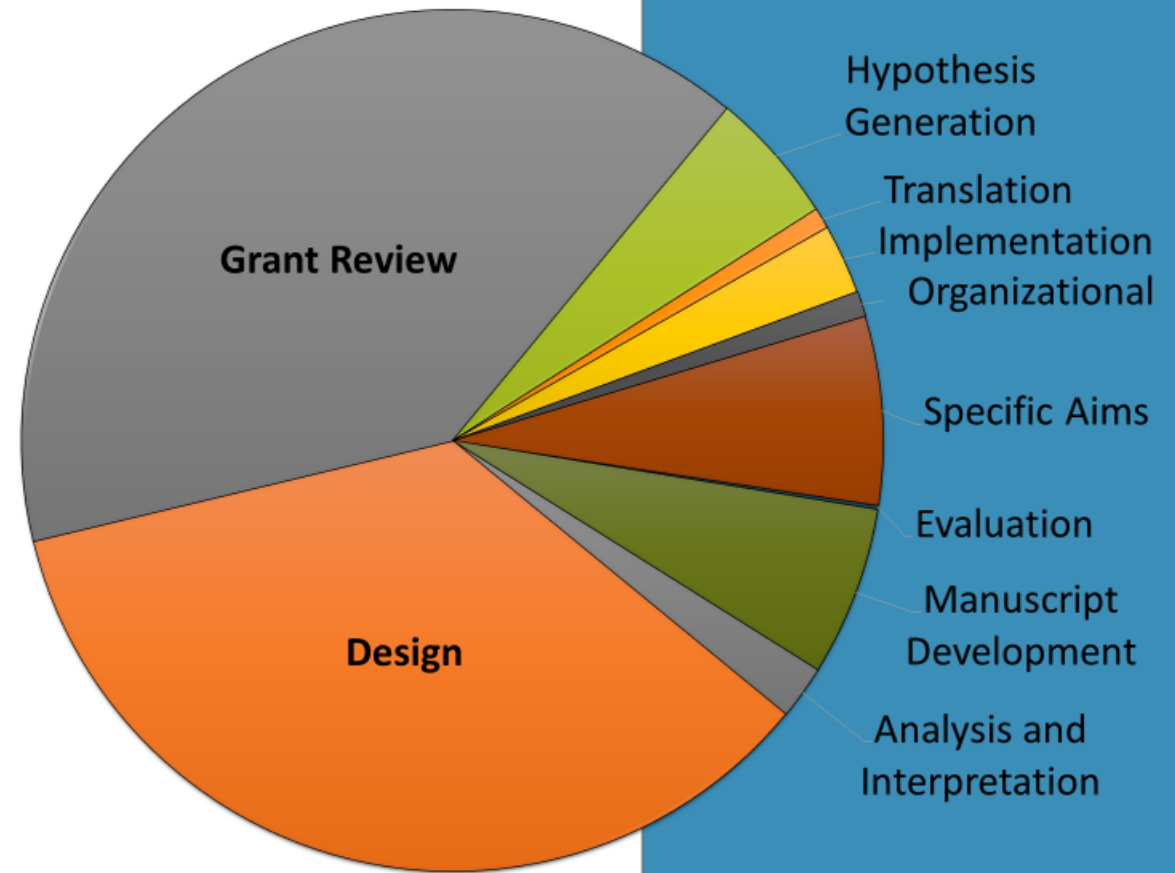
<https://starbrite.app.vumc.org/managedata/>



# VICTR Studio Program

- Structured, dynamic sessions bringing together relevant experts in a particular methodology
- Any Vanderbilt or Meharry investigator (student through professor)
- 1.5 hours in length with an average of 5-7 experts
- **1434** studios to date (12/2006 – 6/2022)
- **99%** of investigators said Studio improved quality of science; would recommend to a colleague

Total Studios by Type



# Community Engagement Studios (CE Studios)

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- CE Studios are 1-time, facilitated, consultative meetings with an investigator's patient population or community of interest
  - Each has a unique Community Expert panel (8-12) recruited via patient networks, social media, support groups, etc. Compensation is \$50.
  - The research team receives a written summary and key recommendations from the CE Studio team following the studio.

# Bisostats Clinics

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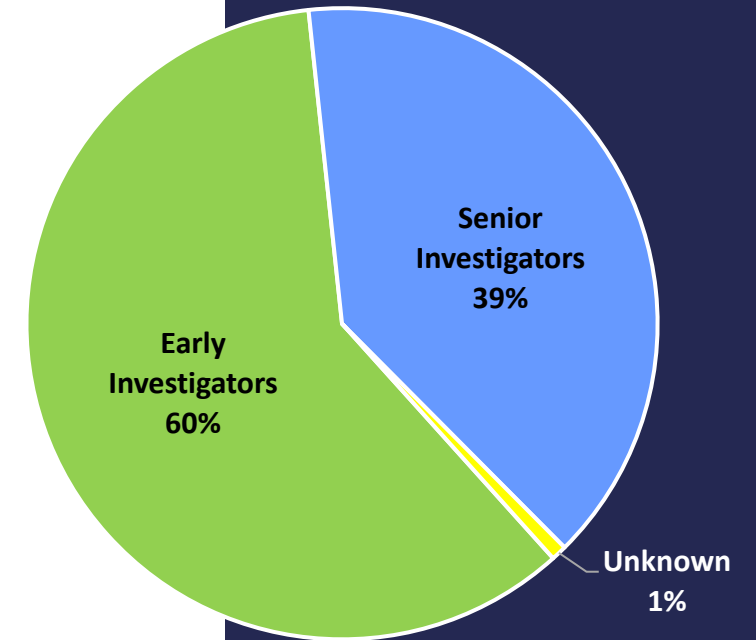
<u>Day</u>	<u>Theme</u>	<u>Location</u>
Monday	<u>Health services research, diagnosis, and prognosis</u> (Includes some comparative effectiveness research, observational research, and <u>graphics</u> )	Microsoft Teams
Tuesday	<u>High-dimensional data</u> (imaging, high-throughput assays) <i>Exception:</i> first Tuesday of each month will be <u>HIV-themed</u>	Microsoft Teams
Wednesday	<u>Surgery, anesthesiology, and emergency and critical care medicine</u>	Microsoft Teams
Thursday	<u>Clinical and health research</u> (other than topics covered on Wednesday)	Microsoft Teams
Friday	<u>Basic and animal research (not omics)</u> <i>Exception:</i> third Friday of each month will be <u>HIV-themed</u>	Microsoft Teams

# VRR VICTR Resource Request

- Pilot funding for clinical and translational hypothesis driven projects that involve human subjects, tissue, cell lines and/or information (e.g. medical records), and have application to human health
- Any Vanderbilt or Meharry investigator (student through professor)
- Available resources include labs, cores, supplies, studios, biostat, recruitment support, and more
- Access to the Clinical Research Center for Industry, NIH and foundation funded studies
- **4818** pilot, feasibility and proof of concept awards (2/2007 – 6/2022)
- **63%** of awards to early investigators

Learn more at <https://starbrite.app.vumc.org/funding>  
615-322-8629 [victr.resource.request@vumc.org](mailto:victr.resource.request@vumc.org)

Percent Awards Approved by Rank





# VICTR Resource Request – Scientific Review Committee

Voucher < 2K

Expedited 2-10K

Full Committee > 10K

Learn more at <https://starbrite.app.vumc.org/funding>  
615-322-8629 [victr.resource.request@vumc.org](mailto:victr.resource.request@vumc.org)

- Disease-neutral, institution-neutral platform to help match people willing to participate in studies with researchers across the country.
- >140,000 volunteers and 7,000 researchers at 164 institutions actively engaged in the RM consortium
- Rapid Survey capabilities
- Multiple filters for cohort identification based on inclusion/exclusion criteria**
- Highly adaptable eligibility screening capabilities
- Outreach to patient advocacy organizations

**Website:** <https://ResearchMatch.org> Help: [info@researchmatch.org](mailto:info@researchmatch.org)

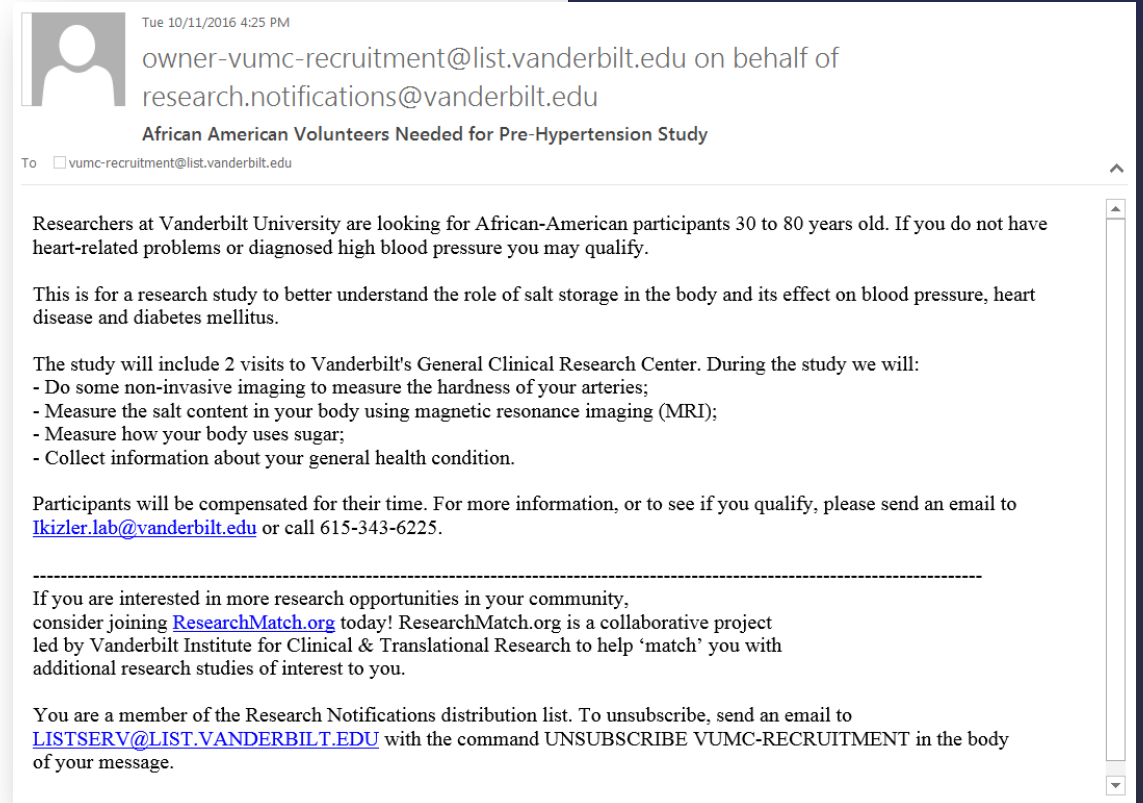
**Project Manager:** Loretta Byrne RN

A screenshot of the Research Match website. The top navigation bar includes links for JOIN NOW, ABOUT, RESEARCHERS, NETWORK, TRIALS, RESULTS, CONTACT US, and LOGIN. Below the navigation is a header with the Research Match logo and a statistics bar showing: 140,081 volunteers, 7,096 researchers, 728 studies, 164 institutions, and 392 publications. A main banner features a photo of a doctor and a patient, with the text 'A Researcher's most important discovery might be you!'. Below the banner is a paragraph of text: 'Medical discoveries are not possible without volunteers like you. Research positively impacts the lives of people every day, but research needs YOU. Too many studies end early because there aren't enough volunteers. We help, by matching you with researchers. Researchers need people with all types of conditions, and healthy people too. Everyone can be the perfect research match!' and a 'Join Now' button. At the bottom is a map of the United States with numerous green dots indicating the locations of participating institutions.


# Research Notification Distribution List

Recruitment listserv - notifies potential participants of research studies and clinical trials

>**23,500** subscribers, including Vanderbilt faculty and staff and small number of Middle TN community



Tue 10/11/2016 4:25 PM

 owner-vumc-recruitment@list.vanderbilt.edu on behalf of research.notifications@vanderbilt.edu

**African American Volunteers Needed for Pre-Hypertension Study**

To  vumc-recruitment@list.vanderbilt.edu

Researchers at Vanderbilt University are looking for African-American participants 30 to 80 years old. If you do not have heart-related problems or diagnosed high blood pressure you may qualify.

This is for a research study to better understand the role of salt storage in the body and its effect on blood pressure, heart disease and diabetes mellitus.

The study will include 2 visits to Vanderbilt's General Clinical Research Center. During the study we will:

- Do some non-invasive imaging to measure the hardness of your arteries;
- Measure the salt content in your body using magnetic resonance imaging (MRI);
- Measure how your body uses sugar;
- Collect information about your general health condition.

Participants will be compensated for their time. For more information, or to see if you qualify, please send an email to [lkizler.lab@vanderbilt.edu](mailto:lkizler.lab@vanderbilt.edu) or call 615-343-6225.

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If you are interested in more research opportunities in your community, consider joining [ResearchMatch.org](http://ResearchMatch.org) today! ResearchMatch.org is a collaborative project led by Vanderbilt Institute for Clinical & Translational Research to help 'match' you with additional research studies of interest to you.

You are a member of the Research Notifications distribution list. To unsubscribe, send an email to [LISTSERV@LIST.VANDERBILT.EDU](mailto:LISTSERV@LIST.VANDERBILT.EDU) with the command UNSUBSCRIBE VUMC-RECRUITMENT in the body of your message.

**Email:** [research.notifications@VUMC.Org](mailto:research.notifications@VUMC.Org) | **Contact:** Leah Dunkel

# SUBJECT LOCATOR

Using *Subject Locator*, researchers recruiting study subjects at Vanderbilt outpatient clinics can reduce their time spent pre-screening candidates. Based on a list of upcoming appointments in a predetermined set of clinics, Subject Locator searches patients' eSTAR records for commonly used, discrete inclusion/exclusion criteria to significantly narrow down the number of patients that require screening. Subject Locator gives investigators or key study personnel access to choose the clinics and set the criteria from an easy-to-learn user interface. The resulting subset of clinic patients that are more likely to match your study criteria appear as a list that the investigator or key study personnel can use to follow recruitment work flow.

**Website:** <https://starbrite.app.vumc.org/vdr/sl>  
[VICTRBigData@vumc.org](mailto:VICTRBigData@vumc.org)

VANDERBILT UNIVERSITY MEDICAL CENTER SUBJECT LOCATOR

① MANAGE YOUR STUDIES

② CREATE INCLUSION/EXCLUSION

③ LOCATE TARGETED SUBJECTS

“HOURS are saved!!”

“... a valuable recruiting tool”

“Saved my clinical study”

Examples of Areas where Impact Seen :

Primary care population

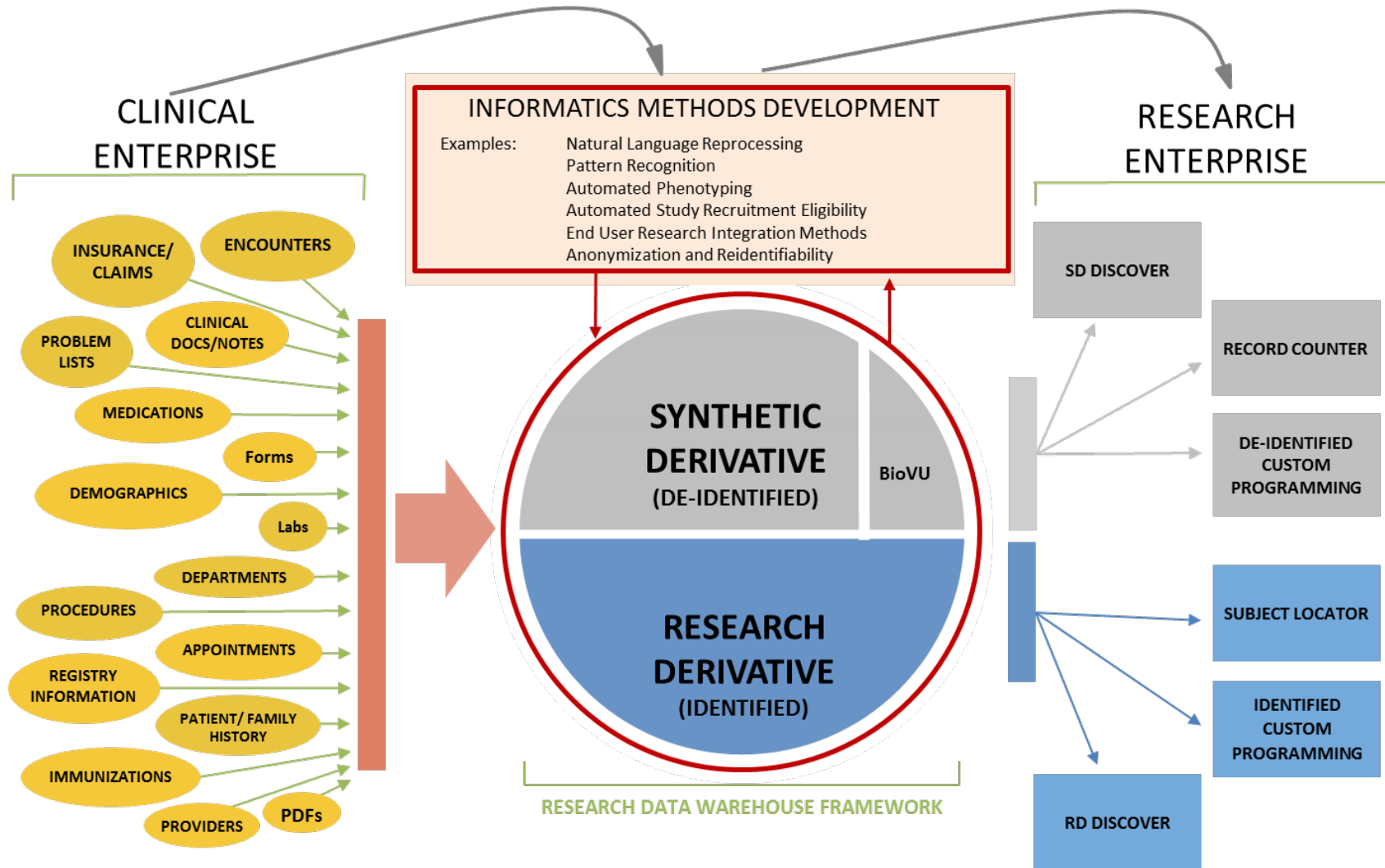
Rare pediatric neurologic disorder population

Subject Locator is available to those with:

- Vanderbilt IRB-approved study
- IRB approval to use Subject Locator
- Access to eSTAR
- A VUMC ID



# Data Flow and Usage



# Clinical Research Skills Workshop

Instruction on common clinical research topics  
and research resources

Demonstration-oriented \* Informal setting to  
learn new skills

Receive [weekly email reminders](#) for workshops

Fridays 9:00am - 10:00am

ZOOM

[Upcoming sessions and archived topics with links  
to handouts](#)



**February 17, 2023**

**How to Search in PubMed**

PubMed is a free resource, developed and maintained by the National Library of Medicine, that contains over 35 million citations from the biomedical literature. This session will provide a demonstration of a PubMed search, highlighting key features and search functions in the database.

(Heather E. Laferriere, MLIS, Health Sciences Informationist, Eskind Biomedical Library)

**February 24, 2023**

**How to use the VUMC Recruitment Tools to their full Potential: ResearchMatch and Research Notification Distribution List**

Attendees will learn how to use the Research Notifications Distribution List and ResearchMatch. The speakers will explain how each tool works, which recruitment messages are needed, survey and prescreening survey dissemination, and strategies for using both resources.

(Loretta Byrne RN, MSN, CCRP, Research Services Consultant IV, VICTR; Leah Dunkel MPH, Research Services Consultant III, VICTR; & Jessica Eidenmuller, Research Services Consultant I, VICTR; Matt Schorr, Research Services Consultant I, VICTR)

**March 10, 2023**

**Open Access Publishing and Research Impact: Opportunities and Challenges**

Publishing your work through an Open Access pathway, expands its reach and may confer a citation advantage. But, which type of Open Access should you pursue? Gold? Green? Hybrid? Will you retain your copyright? What about fees or predatory publishing practices? In this talk, we will demystify the terminology and processes surrounding open access publishing. Participants will learn to identify the various forms of open access publishing, their potential advantages, as well as some potential pitfalls to avoid. In addition, participants will learn about research impact tracking and practices to improve research impact.

(Andrew Wesolek, Director, Digital Scholarship and Communications (DiSC) and Shenmeng Xu, Librarian for Scholarly Communications, Digital Scholarship and Communications (DiSC))

# Conceptual Framework Emergency Medicine Faculty Scholarship by Alan Storrow

	<u>Foci</u>	<u>Leads</u>	<u>Products</u>	<u>Resources</u>
<b>Education</b>	Assessment Competency development Curriculum development Evaluation Faculty development Instructional strategies Leadership Learning environment Simulation Wellness	Parekh Williams Boyd Walsh Rupp Lei Bales	Protocols Lectures Curriculum Abstracts Case Reports/Series Manuscripts Quality improvement Educational hypothesis driven research	ACEP Teaching Fellowship AAMC MERC SGEA Faculty Incubator (ALiEN) VUMC Educator Development Program SAEM EMF AMA SAEM Master Educator Fellowship
<b>Clinical Trials and Studies, Hypothesis Driven</b>	Cardiovascular Critical Care/ID Geriatrics Operations Ultrasound Implementation Qualitative	Self Collins Storrow Ward Stubblefield	Grants Abstracts Manuscripts Modules	VICTR SRC (voucher, expedited, full) Core Services Biostats Clinic Federal
<b>Administrative</b>	Clinical Operations Quality improvement Process improvement Patient safety	Russ Barrett Miller Gibson Champion Colmer Overbecke Crook Wallace Andereck	Protocols AgileMD Manuscripts QI	ACEP and SAEM Leadership Academies TMA John Ingram Leadership Lab Midcareer Leadership program (Internal) Academic Leadership Program (Internal) ABEM Health Care Administration, Leadership, and Management (HALM) certification
<b>Training</b>	T32 Procedures Global Health EMS Simulation VA Quality Scholars Ultrasound	Storrow Ward Kripilani Walsh	Mentored Training Grant (K23,K08) Curriculum	NHLBI DoD ARMED MedEd SAEM

# VUMC EM Research Operations

- Operations adjacent to ED
- Enrollments in Emergency, Clinic, Out-patient, Acute Care, Hospital Settings
- 15-25 studies enrolling 7 days per week
- Research Laboratory specimen processing, shipping, storage
  - Bio-repository over 60,000 serum, plasma, urine, saliva specimens stored





Vanderbilt Emergency Care Research  
DISCOVER INNOVATE HEAL

