Welcome to the 2023 Annual Research Retreat

If you have questions during the presentations, please type them in the chat box
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JHSON Centers
Center for Equity in Aging

nursing.jhu.edu/aging
Mission

To enhance equity by improving the well-being of older adults and those living with serious illness in the community and across all residential settings.

The Center supports a robust and interdisciplinary research community of faculty and trainees focused on scholarship, education, and advocacy.
Meet Our Team

Katherine Ornstein
Center Director

Quincy Samus
Associate Director of Innovation and Implementation

Kali Thomas
Associate Director of Health Services Research

Data Analyst Team:
Hanna Charankevich: Senior Data Analyst
Yifan Liu: Data Analyst

Operations:
Sarah Allgood: Director of Operations
Samantha Curriero: Strategist
Erika Hornstein: Strategist
Linda Lauristen: Administrative Coordinator

Steering Committee:
Sarah Szanton
Kathryn McDonald
Anna Beeber

Principal Faculty:
Martha Abshire, Anna Beeber, Valerie Cotter
Rita D’Aoust, Patricia Davidson, Patrick Doyle
Jessica Gill, Byran Hansen, Hae Ra Han
Melissa Hladek, Binu Koirala, Junxin Li
Katherine Marx, Kathryn McDonald, Carrie L. Neiman
Katherine Ornstein, Jeanine Parisi
Lauren J. Parker, Craig Pollack, Nicolas Reed
Natalie Reiger, Laura Samuel, Quincy Samus
Bonnielin Sweenor, Sarah Sxanton, Kali Thomas
Janiece Taylor, Jannifer Wenzel, Rebecca Wright
Center Activities

Research
Develop, implement, and evaluate models of home and community-based care to address pressing public health concerns

Research Training
Mentorship and training opportunities in new approaches to aging research; Post doctoral opportunities

Relationship Building
Develop and maintain relationships with aging-related community-based and health organizations to improve interventions

Application of Evidence
Implementation of proven interventions within the community and health care settings

Scholarship Generation
Provide educational and collaborative activities and seminar series focusing on intervention challenges; Sponsor of lectures from internationally recognized researchers in areas relevant to Center faculty activity
Partner Centers and Departments

Pepper Center
Older Americans Independence Center (OAIC)

Hopkins’ Economics of Alzheimer’s Disease & Services Center (HEADS)

Lipitz Center for Integrated Health Care

CoAH
Center for Transformative Geriatric Research

Hopkins Business of Health Initiative

Center for Transformative Geriatric Research

Johns Hopkins Disability Health Research Center

Alzheimer’s Disease Resource Center For Minority Aging Research

Division of Geriatric Medicine and Gerontology, Dept Medicine

Health Services and Outcomes Research for Aging Populations Training Program

Johns Hopkins Disability Health Research Center
Janiece Taylor
Testing a behavioral intervention to address pain and depressive symptoms among older women with disabilities

Erin Spaulding
Human-centered design to inform the development of a “TechConnect” digital and health equity intervention for chronic disease management among older adults

Jing Huang
Sleep and cognitive progression in cognitively intact older adults with subjective memory decline

Suratsawadee Kruahong
Wellness and needs of women after cardiac ICU stay (Well NOW)
Upcoming Events & Opportunities

- Pilot Grants – applications open in January 2024
- Travel Grants – rolling applications
- Collaborative on Caregiving Science Across the Lifecourse series: January 10th @ noon featuring Iveris Martinez from California State University, Long Beach
- Intervention Working Group: December 14th @ noon featuring Jiabin Shen from University of Massachusetts
- “Issue Is...” series: January 16th @ 3pm featuring Aaron Yao from VillageMD
Center for Global Initiatives

nursing.jhu.edu/global
Center for Health Equity
Education and Training Opportunities at the Johns Hopkins Center for Health Equity
Johns Hopkins Center for Health Equity

Our Mission:
Promote equity in health for populations experiencing health disparities through:
1. Advancing scientific knowledge
2. Educating and training leaders
3. Partnering with communities
   - Raising public awareness of health inequities
   - Promoting sustainable changes in practice and policy

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Training Program

• Created a training program for health professionals and researchers in 2010
• Trained over 500 individuals ranging from high school and undergraduate students to Master’s and pre-doctoral students, postdoctoral fellows, and junior faculty
• Trainee accomplishments include:
  – National awards, grants, and faculty positions
  – Health equity publications
  – Leadership roles
  – High school and undergraduate students who matriculated into medical, nursing, public health, or other graduate programs in science
Johns Hopkins Center for Health Equity Education and Training Program Activities

- Health Equity Jam Sessions
  Monthly seminars featuring senior and trainee health equity researchers
  Special symposia to advance the national agenda on priority areas
  Networking and collaboration opportunities with experts in the field

- Research Study Opportunities
  Participation in Center research meetings and study activities
  Opportunities to engage in faculty research activities
  Health Equity Researcher Resource e-newsletter

- Faculty Mentorship
  Novel trainee intake process for individualized faculty mentoring
  Annual speed mentoring events
  Faculty showcase to highlight available training opportunities

- Didactic Coursework
  Applications of Innovative Methods in Health Equity Research
  Local and Global Best Practices in Health Equity Research
  Foundations of Health Equity Research

- Community Engagement
  Opportunities to attend community advisory board meetings
  Community partner practicum opportunities
  Longitudinal relationship building with partners

Jam Sessions and Special Events

• Provides a forum for faculty, trainees, and staff working on health equity research to discuss research-in-progress, new research ideas and proposals, responses to peer review, collaborations and funding, and career development – as well as to be inspired and energized by each other in an informal setting

• We also hold special events and co-sponsor seminars with other research programs
Mentored Research Opportunities

• Individualized mentoring by Center faculty
• Participation in research team meetings
• Opportunities to:
  – Participate in community engagement activities
  – Contribute to study materials and protocols
  – Interview patients, clinicians, other healthcare staff, and community members
  – Collect anthropometric measures and other medical tests
  – Analyze qualitative and quantitative data
  – Contribute to scientific presentations and manuscripts
Health Equity Courses for Academic Credit

• Courses through the Bloomberg School of Public Health available for the 2023-2024 academic year
  - **Third Term:** Local and Global Best Practices in Health Equity Research Methods (410.635.81)
    • Co-instructors: Lisa Cooper, MD, MPH and Bunmi Ogungbe, PhD, MPH, BNSC, RN
  - **Fourth Term:** Health Equity Research Methods to Address Social Determinants of Health (340.667.81)
    • Instructor: Tanjala Purnell, PhD, MPH
Massive Open Online Courses (MOOCs)

- We have had over 7,000 learners sign up for our three MOOCs:
  - Foundations of Health Equity Research
  - Application of Health Equity Research Methods for Practice and Policy
  - Health Equity Research & Practice: Local and Global Lessons
Community Engagement Activities
MACCHe Investigator Development Core

- Housed within CHE, the Mid-Atlantic Center for Cardiometabolic Health Equity (MACCHe) established a pilot project program in 2022 to support innovative research related to cardiometabolic health equity.
- The program – consisting of Early-Stage Investigators – includes a built-in community network, faculty mentoring, and structured didactic training to support awardees.
- Two cohorts of scholars have been funded, the next application cycle will be in Spring 2024.
How Do I Become a CHE Trainee?

Follow the QR Code below to take our Trainee Interest Survey!

- Your confidential survey will tell us about you and your primary content and methodological areas of interest
- We will try our best to match you with an appropriate faculty mentor, research study group and/or community-based experience
- For further questions and inquiry, please email us at: heathequitytraining@jhmi.edu or visit our website.
THANKS!

Learn more. Stay connected.  https://publichealth.jhu.edu/center-for-health-equity
Center for Immersive Learning and Digital Innovation

nursing.jhu.edu/cildi
Mission
The center for Immersive Learning and Digital Innovation at the Johns Hopkins School of Nursing will foster the development of an internationally recognized immersive learning and digital innovation ecosystem, leveraging technology to enhance the overall mission of the Johns Hopkins University School of Nursing.

Vision
Our vision is to be a global leader in innovative simulation, virtual and augmented reality, and artificial intelligence-enabled solutions to advance nursing and interdisciplinary education and healthcare delivery to promote patient safety.

3 Domains of Innovation

To learn more about the research potentials within CILDI, please go to https://nursing.jhu.edu/excellence/quality-safety/technology/cildi/index.html

To utilize equipment, manpower, and space for your research, please fill out the request forms at https://nursing.jhu.edu/excellence/quality-safety/technology/cildi/cildi-request-forms.html


Do not forget to indicate your request to use CILDI resources in your intent to submit application through NOBA.
Center for Infectious Disease and Nursing Innovation

CIDNI.org
Clinical Translational Laboratory
PRECEDE Biomarkers Laboratory
Promoting Resilience through Emerging Clinical and Evolving Determinants of Equity

Director of the Clinical Translational Laboratory:
Chelsea Wagner, MS
chelseawagner@jhu.edu
(410) 502-6078

Principal Investigators:
Dr. Jessica Gill
Dr. Jennifer Wenzel
Dr. Cheryl Himmelfarb
Dr. Nada Lukkahatai
Dr. Junxin Li
Dr. Melissa deCardi Hladek
Dr. Martha Abshire Saylor
Dr. Jason Farley
Dr. Yeabsira Tufa
What are biomarkers?

- Biomarkers: A defined characteristic that is measured as an indicator of normal biological process, pathogenic process or response to an exposure or intervention (FDA-NIH Biomarker Working Group)

(García-Gutiérrez et al., 2020)
https://doi.org/10.3389/fpsyg.2020.00432
What can we measure?

- Blood
- Sweat
- Breast Milk
- Saliva
- Cerebrospinal Fluid
- Urine
Protein Quantification Instruments

Quanterix HD-X™ Automated Immunoassay Analyzer

Simoa HD-X Benefits

**Ultra-sensitivity** – Up to 1000x greater sensitivity than traditional immunoassays

**Automation** – Reproducibility and convenience of sample-answer workflow

**Multiplexing** – Measure up to 6 biomarkers in single sample at fg/ml concentrations

**Flexibility** – Supports both high-throughput and rapid result workflows

**Efficiency** – Precise control of assay conditions allows for use of stored assay calibration values

**Menu** – Fully compatible with 80+ assays also available on HD-1 as well as customized homebrew assays

**Regulatory Compliance** – Enables 21CFR Part 11 compliance with streamlined run reports and user management
Paramagnetic particles coupled with antibodies designed to bind to specific targets are added to the sample.

Detection antibodies – capable of generating fluorescent product – are added.

The objective is to form an immunocomplex consisting of the bead, bound protein, and detection antibody.
At low concentrations, each bead will contain one bound protein, or none.

The sample is loaded into arrays, in the Simoa disc, consisting of more than 200,000 microwells – each large enough to hold one bead.

Enzymatic signal amplification with fluorescent substrate, fluorescence imaging and data reduction.

Data analysis – results can be viewed and analyzed on the board or exported to commonly used software packages or LIMS systems.
Protein Quantification Instruments

- Ultra-sensitive assay with up to 10-plex multiplexing scale and flexibility

SP-X Imaging and Analysis System™
Unleashing the power of next-generation Simoa® Planar Array technology for robust multiplex biomarker detection – even at healthy baseline levels.

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<th>10 in 1</th>
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<td>Up to 1000x greater sensitivity</td>
<td>Up to 10 biomarkers in a single assay</td>
<td>Compatible with 100+ essays</td>
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96 Well Plate
96-well plates are spotted at the factory with the target analyte(s) of interest.

Diluted samples and standards added to each well and the plates are to create a unique surface chemistry and "vortex" effect.

Biotinylated detection antibodies are added to form the other half of the immunocomplex "sandwich".

November 28, 2022
High sensitivity HRP enzyme-conjugated streptavidin is added in between additional shake cycles.

Finally, a chemiluminescent substrate is added just prior to ultra-sensitive CCD camera imaging, in order to measure the signal intensity produced by each spot.
Utilizes a very sensitive, high-resolution CCD camera and lens system to detect light emitted from MULTI-ARRAY® and MULTI-SPOT® plates.

The custom-designed lens enables highly efficient and uniform collection of electrochemiluminescence (ECL) generated light.

**Broad Assay Menu**
- Large menu of commercially available kits
- Full line of components for user-developed assays
- Access to all product lines for MSD® consumables

**Flexibility**
- Single and multiplex assays
- Compatible with all SECTOR™ and QuickPlex® products
- Special pricing for academic customers

**Validated**
- Developed under design control
- Microsoft Windows 10 compatible
- Simple, fast, and secure data analysis with DISCOVERY WORKBENCH® software

**96 Well Plate**

**MESO QuickPlex SQ 120MM**
Meso Scale Discovery Technology
What can we measure?

**Neurology**
- Phosphorylated tau (i.e., 181, 231)
- Total Tau
- Neurofilament Light (NFL)
- Amyloid Beta (40, 42)
- Glial Fibrillary Acidic Protein (GFAP)

**Immunology/Inflammation**
- C-reactive protein (CRP)
- Cytokines Panel (TNF-alpha, IL-6, IL-10, IL-8, IL-1beta)
- VEGF

**Oncology**
- Programmed cell death protein 1 (PD-1 or CD279)
- Angiogenesis Factor Panel 1 (ANG-2, FGFB, HB-EGF, HGF, PLGF, VEGF)
- Osteopontin (OPN)

**Cardiology**
- Troponin I
- Troponin T
- Myosin binding protein C
- Heart-type fatty acid binding protein
Peripheral Total Tau in Military Personnel Who Sustain Traumatic Brain Injuries During Deployment

Anlys Olivera, PhD; Natasha Leibman, BS; Andreas Jeromin, PhD; Louis M. French, PsyD; Hyung-Suk Kim, PhD; Ann Cashion, PhD; Vincent Mysliwiec, MD; Ramon Diaz-Arrastia, MD, PhD; Jessica Gill, RN, PhD

Extracellular vesicle-associated cytokines in sport-related concussion

Timothy B. Meier\textsuperscript{a,b,c,1,*}, Vivian A. Guedes\textsuperscript{d,1}, Ethan G. Smith\textsuperscript{d}, Dilorom Sass\textsuperscript{d}, Sara Mithani\textsuperscript{d}, Rany Vorn\textsuperscript{d}, Jonathan Savitz\textsuperscript{a,f}, T. Kent Teague\textsuperscript{a,b,1}, Michael A. McCrea\textsuperscript{a,1}, Jessica M. Gill\textsuperscript{d}
Nucleic Acid Quantification Instruments

nCounter Pro Analysis System

800+ targets (messenger RNA and microRNA)

12 samples per cartridge
Nucleic Acid Quantification Instruments

Panel Selection

Neuropathology
IO 360
Human Organ Transplant
Host Response
Stem Cell
Neuroscience
Oncology
Regenerative Medicine
Cell & Gene Therapy
ADC Development
Infectious Disease
CAR-T
ADC

12 samples per cartridge
Exosomal microRNA Differential Expression in Plasma of Young Adults with Chronic Mild Traumatic Brain Injury and Healthy Control

Rany Vorn 1*, Maiko Suarez 2, Jacob C. White 3, Carina A. Martin 1*, Hyung-Suk Kim 1, Chen Lai 1, Si-Jung Yun 4, Jessica M. Gill 5 6 and Hyunhwa Lee 7 8

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6 Center for Neuroscience and Regenerative Medicine, Uniformed Services University of the Health Science, Bethesda, MD 20814, USA
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Biomedicines 2022, 10(1), 36; https://doi.org/10.3390/biomedicines10010036
Extracellular Vesicle Proteins and MicroRNAs Are Linked to Chronic Post-Traumatic Stress Disorder Symptoms in Service Members and Veterans With Mild Traumatic Brain Injury

Vivian A. Guedes¹, Chen Lai¹, Christina Devoto¹,², Katie A. Edwards¹, Sara Mithani¹, Diicrom Sass¹, Rany Vorn¹, Bao-Xi Qu¹,², Heather L. Rusch¹,³, Carina A. Martin¹, William C. Walker², Elisabeth A. Wilde³, Ramon Diaz-Arrastia³, Jessica M. Gill³,⁴ and Kimbra Kenney⁵,⁶,⁷

OPEN ACCESS

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Questions?
COMPASS Center

nursing.jhu.edu/COMPASS
Center for Community Programs, Innovation, and Scholarship (COMPASS)

Hae-Ra Han, PhD, MSN, RN, FAAN
Professor & Elsie M. Lawler Endowed Chair
Associate Dean for Community Programs and Initiatives

D. Layne Humphrey, MSEd.
COMPASS Center Manager
Vision:
To promote health and wellness, and reduce health inequities among low-income, uninsured or underinsured populations in Maryland.

Mission:
To create, implement, and evaluate programs that involve faculty and students in nurse-led community care, service-learning, research, scholarship and advocacy in collaboration with the community and other stakeholders including Johns Hopkins Medical Institutions, Johns Hopkins University entities, community-based organizations, business leaders, and health care organizations.

Values:
Diversity, Integrity, Accountability, Respect, Excellence

Health Equity Primary Area of Focus/Target Populations:
- Social determinants of health, mental health, chronic care, wellness, health literacy
- Residents in Maryland/Underserved populations

For more information visit: https://nursing.jhu.edu/excellence/community/center-community-innovation-scholarship.html
Faculty and Staff Leadership
HAE-RA HAN
PHD, MSN, RN
FAAN
Professor
Associate Dean for Community Programs and Initiatives
Elsie M. Lawler Endowed Chair

PATTY WILSON
PHD, MSN, RN
PMHNP-BC
Assistant Professor

LAURA LUCAS
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APRN-CNS, RNC-OB, C-FFM
Assistant Professor
Associate Director for Clinical Practice, MSN (Entry into Nursing) Program

CATHERINE LING
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CNE, FAANP, FAAN
Assistant Professor

NADA LUKKAHATAI
PHD, MSN, RN
FAAN
Assistant Professor
Director of the MSN (Entry into Nursing) Research Honors Program

TAMAR RODNEY
PHD, MSN, RN
PMHNP-BC, CNE
Assistant Professor
DNP Advanced Practice Psych Mental Health Track Coordinator

www.nursing.jhu.edu
Examples of Ongoing Projects

- **Project 1:** Passport2Freedom (PI—Dr. Patty Wilson)
  Target population—Women and children in transitional housing
  Summary—Intervention to deliver and test a model of mindfulness and stress management in the target population

- **Project 2:** Ask-A-Nurse (PI—Dr. Catherine Ling)
  Target population—Adults 18+ years with limited access to care
  Summary—Development and testing of a wrap-around case management program to address social determinants and chronic care

- **Project 3:** Nurse-led Reimbursable Care Model (Dr. Tamar Rodney)

For more information visit: [https://nursing.jhu.edu/excellence/community/center-community-innovation-scholarship.html](https://nursing.jhu.edu/excellence/community/center-community-innovation-scholarship.html)
Community Engagement Opportunities

- Partnering Community Based Organizations:
  - SOURCE
  - ICTR
  - Day at the Market
  - House of Ruth Maryland, etc.

- Examples of Service-Learning Experiences:
  - Community Flu Vaccine Clinics (‘20,’21) – Day at the Market @NorthEast Market, Henderson-Hopkins School, Isaiah Baptist Church

- Desired Skillsets or Other Requirements:
  - Prefer students pursuing a degree in health-related fields

For more information visit: https://nursing.jhu.edu/excellence/community/center-community-innovation-scholarship.html
CENTER IMPACT
2016–2020

3692 encounters

791 encounters

Henderson-Hopkins School

1124 encounters

D. Wald Community Nursing Center

COMPASS Center

384 new birth companions educated

672 births attended

Day at the Market

Birth Companions

265 students

5461 no. of hours worked

22 avg no. of community agencies per year
Leading the way in education, research and practice – locally and globally.
RESILIENCE Center

nursing.jhu.edu/resilienceRRTC
JOHNS HOPKINS
SCHOOL of NURSING

THE RESILIENCE CENTER
Research and Education to Support the Science of Independent Living for Inclusion and Engagement
Our Mission

Improve the health and function of people with disabilities and their caregivers by adapting and scaling two award winning evidence-based programs for children and older adults with disabilities (Chicago Parent Program and CAPABLE).

Design new approaches using key attributes of effective and sustainable programs to ensure program effectiveness, relevance, utility, and scalability.
CENTER APPROACH
In designing ways for people with disabilities and their caregivers to fully participate in the community, this Center utilizes the Society to Cells Resilience Framework and Human-Centered Design to build on inherent strengths rather than only addressing deficits and stressors.

SOCIETY TO CELLS RESILIENCE FRAMEWORK
This framework (Szanton & Gill, 2010) posits that society, community, family, and individual factors can promote resilience. Families and communities can develop increased capacity through a particular challenge or life situation (such as caregiving) that they can later generalize and apply in other situations.

HUMAN-CENTERED DESIGN
Human-centered design mindsets and methods are used throughout the research projects lifecycle and to build sustainability into the outputs. Human-centered design is explicitly based on the premise that lived experience is a valuable form of expertise and therefore, people who have direct experience with a disability or health condition and its broader impact on daily life should play a decision-making role in the design of services, products, and approaches to improve their health and wellbeing.
Built to Scale series explores challenges and successes in scaling evidence-based health interventions for maximum impact.

Sessions brings participants into conversation with leaders in the field, drawing on their experience to gain inspiration and guidance for scaling programs for maximum impact.
Program Highlights

Six month program for researchers in the early stages of designing/adapting an innovation or intervention that meet the needs of individuals and families in the disability community.

Scholars participate in intensive learning experiences, including customer discovery and human-centered design.
Stay Connected with Us

Website: https://nursing.jhu.edu/excellence/mental-health/resilience-rrtc/

Email: SON-RESLIENCECenter@jhu.edu
NORA Resources
Human-Centered Design
Schedule your HCD Consultation today!

calendly.com/kennedymcd
Human-Centered Design

Human-Centered Design (HCD) is a creative and collaborative process used to understand and define problems, identify opportunities, generate ideas, and design interventions that support change.

HCD starts with the people you’re designing for and ends with new solutions tailored to meet their needs. We center people with lived throughout the design process and view their lived experience as expertise!

Why Use HCD?

- To build empathy among research team
- To increase equity, inclusion, and opportunities for co-creation in research
- To find deeper insights and innovative solutions

Here’s how we can support your research:

- 1-on-1 HCD consultations
- Design strategy and support for research projects
- HCD workshops for research teams
- HCD templates and resources

Let's Connect!
If you’re interested in learning more about HCD and how to use it in your research, please contact our Design Strategy Manager, Kennedy McDaniel: kmcdani@jhu.edu
Biostatistics and Methods Core

https://nursing.jhu.edu/faculty_research/research/nora/biostatistics.html
Biostatistics and Methods Core

NORA
• Nancy Perrin, Outgoing Director
  – Longitudinal data analysis
  – Quasi-experimental design and analyses
  – Psychometrics

• Subhash Aryal, Incoming Director
  – Sample size calculation
  – Zero-inflated data/Hierarchical models
  – Multivariate Analysis
  – Prediction and Tolerance Intervals
• **Chakra Budhathoki, Faculty**
  
  – Randomized Controlled Trials
  – Meta-analysis
  – Mixed modeling

• **Ginger Hanson, Faculty**
  
  – Multilevel regression
  – Factor analysis
  – Cluster analysis
  – Social network analysis
• Eric Slade, Faculty
  – Administrative data analysis
  – Causal inference using observational data
  – Cost-benefit and cost-effectiveness analysis

• Wura Olawole, Research Analyst
  – Data management
  – Descriptive analysis
  – Inferential analyses: Regression and classification modeling
Grant Proposals

- Align aims, methods, and analyses
- Conduct preliminary studies analyses, if needed
- Conduct power analyses
- Write the analysis section of proposals
- Review the budget to ensure support for data management, data cleaning, and analyses
- Expectation is that the Biostatistics Core faculty member will be included as a Co-Investigator
Manuscripts and Presentations (based on unfunded requests)

• Basic consultation on analysis approach
• Work is assigned to a Biostatistics Core member based on interest, expertise, and workload
• Analysis support by research analyst if funds identified for a limited scope of work
• Attend a data analysis workshop
Data Analysis Workshop

• Multi-day workshop for people who are ready to start data analysis

• Each person is assigned to work with a biostatistician to help them conduct the analyses during the workshop
PhD Proposal/NRSA

- Each student is assigned a Biostatistics Core member to work with on the proposal
- The Student, Advisor, and Biostatistician will reach agreed upon aims, research design, and analysis plan
- Help with power analyses, writing of the analysis section
- Please start working with biostatistician at least 45 days prior to the submission date
Dissertation Analysis Support

• Student should participate in the data management training prior to working on their analyses (available online)

• Dissertation Data Analysis Clinic

• Basic consultation with biostatistician or research analyst
Dissertation Data Analysis Clinic

• Drop-in clinic
• Help with programming (STATA, R, SPSS, SAS)
• Help with interpretation of results
• Build community with other students as they work on data analyses
Data management and post award support

• Usually there is a Biostatistics Co-Investigator on the grant that leads the analysis
  – If none then basic consultation

• Also need trained research analyst to join the team
  – Biostatistics Core can help identify people to hire on the grant
Biostatisticians’ Goals When Working with You

• Enhance the integrity and validity of your study
• Work with you to ensure the design has strong internal validity, and if possible, external validity
  – Specific aims
  – Measurement quality
  – Sampling plan
  – Randomization procedures
  – Data management
  – Statistical power
  – Appropriate analyses
• This means we have to have a very good understanding of your study
Start Working with Us Early and Always!

• Early in proposal development stage is the best
• Studies have problems, that is okay
  – Definitely consult with a statistician before making changes and hoping for the best
  – If a biostatistician is an active collaborator on the project, they can sometimes see trouble ahead and help to prevent or alleviate it
Research Design and Analysis Seminars

• Monthly seminars
  – Data management
  – Mediators and Moderators
  – Adaptive Trials
  – Pragmatic Trials
  – Cluster Randomized Trials
  – Observational Methods
  – Measurement
  – PROMIS measures
  – Multilevel modeling
  – Handling confounding
  – Predictive modeling
  – Meta-analysis
  – Secondary data analysis
  – Network analysis

If there is a topic you are interested in – let us know!
All seminars are recorded and available on demand on the Biostatistics and Methods Core web site

https://nursing.jhu.edu/faculty_research/research/nora/biostatistics.html
Leading the way in education, research and practice – locally and globally.

www.nursing.jhu.edu
Nursing Office for Research Administration (NORA)
nursing.jhu.edu/NORA
Nursing Office for Research Administration (NORA)

Cheryl Himmelfarb, PhD, RN
Vice Dean for Research and Sarah E. Allison Endowed Professor

Javonnia Thomas
Associate Director
## Research Key Functions

<table>
<thead>
<tr>
<th>Section</th>
<th>Functions &amp; Details</th>
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| Research Administration and Monitoring       | • SON Research Council  
• Metrics (grants, publications, rankings)  
• Research / Conflict of Interest / Outside Interest Compliance |
| Sponsored Projects Oversight                 | • Pre-award management  
• Post-award management |
| Scholarship and Research Development         | • Methods Core (Qual / Quan), editorial services  
• Workshops, internal scientific review, speed aims review, retreats  
• Faculty Interest Groups, Assist. / Assoc. Prof Dev Groups  
• Internal grants program (DEL, Discovery & Innovation) |
| Integration of Research Across Programs      | • Research Honors Program  
• NRSA Bootcamp  
• JHSON Research Grand Rounds Series |
| Internal and External Collaborations         | • Key committees, centers and institutes across JHHS / JHU  
• External presence / opportunities |
Pre-Award Proposal Processing: Intent to Submit → Submission

- **8 Weeks Prior to Sponsor Due Date**
  - Complete Intent to Submit (ITS) Form
  - Schedule Internal Scientific Review

- **6 Weeks Prior to Sponsor Due Date**
  - Meet with assigned Sr. GCA with prepared budget assumptions

- **4 Weeks Prior to Sponsor Due Date**
  - Confirm consortium arrangements if applicable
  - Complete Internal Scientific Review
  - Submit Biosketches for Review

- **2 Weeks Prior to Sponsor Due Date**
  - Finalize budget and budget justification with Sr. GCA
  - Final consortium documents due if applicable

- **5 Full Business Days Prior to Sponsor Due Date**
  - Submit all final documents to Sr. GCA
  - 2 Full Business Days for Sr. GCA Review, 3 Full Business Days for JHURA Review
  - PIs must be available for questions
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<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Javonnia Thomas</td>
<td>Associate Director</td>
</tr>
<tr>
<td>Adrianna Dunnock</td>
<td>Sr. Grants &amp; Contracts Analyst</td>
</tr>
<tr>
<td>Darrin Matthews</td>
<td>Sr. Grants &amp; Contracts Analyst</td>
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<tr>
<td>Lori Dempsey</td>
<td>Sr. Grants &amp; Contracts Analyst</td>
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<tr>
<td>Kristin Getz</td>
<td>Grants &amp; Contracts Analyst</td>
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<tr>
<td>Joyclyn Gilmore</td>
<td>Grants &amp; Contracts Manager</td>
</tr>
<tr>
<td>Ebony Norris</td>
<td>Budget Specialist</td>
</tr>
<tr>
<td>Christine Baltimore</td>
<td>Administrative Program Coordinator</td>
</tr>
<tr>
<td>Nancy Perrin</td>
<td>Director, Methods and Biostats Core</td>
</tr>
<tr>
<td>Chakra Budhathoki</td>
<td>Biostatistician Consultant</td>
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<tr>
<td>Ginger Hanson</td>
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<tr>
<td>Kamila Alexander</td>
<td>Qualitative Methods Consultant</td>
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<tr>
<td>Allison Benner</td>
<td>Associate Dean, Finance and Administration</td>
</tr>
<tr>
<td>Cheryl Himmelfarb</td>
<td>Vice Dean, Research</td>
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</tbody>
</table>
Key Links to Access Resources and Services

Intent to Submit

Editorial Consultation

Graphics Design Support for Grant Applications

Biostatistical and Qualitative Methods Consultation

Dorothy Evans Lyne Fund

Discovery and Innovation Fund

Institute for Clinical and Translational Research (ICTR)

ICTR K-to-R Resources

JHM IRB Researchers Tool Kit

Research Start Up Assistance

Funding Opportunities

JHU Data Management Services

Research Compliance Training
How can NORA support you?

Please reach out to us at SON-NORA@jhu.edu
Center for Health Equity
How can NORA support you?

Please reach out to us at
SON-NORA@jhu.edu
Qualitative Core
Qualitative Core
Email: SON-QualCoreis@jh.edu

Nursing Office of Research Administration (NORA)
<table>
<thead>
<tr>
<th>Faculty Members</th>
<th>Email: <a href="mailto:SON-QualCoreis@jh.edu">SON-QualCoreis@jh.edu</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Kamila A. Alexander</td>
<td></td>
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<tr>
<td>Anna Beeber</td>
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<tr>
<td>Martha Abshire Saylor</td>
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<tr>
<td>Rebecca J. Wright</td>
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</table>
The purpose of the Johns Hopkins School of Nursing Qualitative Core is to lead change and set the example for holistic care and excellence through recognition and support of methodological approaches that highlight, honor, and ensure the inclusion of voices of patients, families, and communities.
Qualitative methods are used when:

- little is known about a topic
- the research context is poorly understood
- the boundaries of a domain are ill defined
- the phenomenon under investigation is not quantifiable
- the nature of the problem is not clear, or the phenomenon needs to be re-examined. (Sandelowski, 2003)

Qualitatively, the researcher “designs studies by conducting them - as opposed to conducting studies by design” (Sandelowski & Barroso, 2003).
Support for Faculty

- **Grant Support**
  - Methodologic Advising
  - Analyses
  - Methods
  - IRB Submissions
  - Writing review

- **Manuscript Support**
  - Development
  - Editing
  - Journal Selection

- **Trainings**
  - Journal Clubs
  - Invited Speakers
  - Presentations on Qualitative elements (Rigor, Saturation, Mixed Methods, Ethics, Application in practice, etc.)

- **Expert Review**
  - Grant Submissions
  - Presentations
  - Project Development

Support for Graduate Students

- **PhD NRSA Proposal Support or Other Grant Submissions**
  - Student works with one Qualitative Core member on the proposal
  - The Student, Advisor, and Qualitative Faculty reach agreed upon aims, research design, and analysis plan
  - Help with determining sampling needs/saturation, coding, analyses
  - Needs to begin working together at least 45 days prior to the submission date

- **Dissertation and/or DNP Projects**
  - If there are qualitative components it is recommended that Qualitative Core Faculty serve on committee
    - Advise in theory use
    - Advise data collection
    - Assist in conducting analyses
    - Review reporting of results
• Early in proposal development stage is the best
• Any question is always better than no question
  – If you are unsure if you need a qualitative consult or if qualitative methods are a good fit, please ask!
• Qualitative Methods
  – Require Rigor and Planning
  – Are Theory Driven
  – Need clear methods
    • Data collection
    • Data Management
    • Data Analyses

Email: SON-QualCoreis@jh.edu
JHU Resources
Center for AIDS Research

hopkinscifar.org
# What can the CFAR do for you?

## Administrative Core
**Core Directors:** Dick Chaisson and Shruti Mehta  
**Project Administrator:** Anne Efron  
**Program Coordinator:** Eileen Martin  
**Contact:** CFAR@jhu.edu

- Provides integration and coordination of the scientific leadership of the CFAR across Cores, affiliated junior, mid-career, and senior faculty, and with other institutional partners.  
- Oversees and coordinates the Scientific Working Groups and other research programs.  
- Provides central web and communications platforms for all CFAR cores, working groups and users.

## Developmental Core
**Core Directors:** Andrea Ruff, Jacqueline Campbell, Joel Blankson, Wendy Post, Seun Falade-Nwulia  
**Contact:** Anne Efron (aefron@jhu.edu)

- Stimulates new areas of HIV/AIDS-related research and supports the HIV/AIDS research community.  
- Assists in evaluating programmatic needs and providing seed money.  
- Supports recruitment of key investigators for priority research areas and established investigators not currently working in HIV into the field.  
- Expands efforts to recruit and develop under-represented minority investigators in HIV/AIDS research.

## Clinical Core
**Core Director:** Richard Moore  
**Co-Directors:** David Thomas, Jason Farley, Eileen Scully, Leah Rubin  
**Sr. Manager:** Laura Clark (lclark53@jhu.edu)

- Provides assistance in the design and conduct of clinical research.  
- Offers support for Institutional Review Board submissions.  
- Links investigators to a range of experts in HIV clinical and translational research.  
- Provides access to resources that support project implementation.  
- Works with investigators to enhance recruitment in clinical trials.

## Prevention Core
**Core Director:** David Colantuono  
**Co-Directors:** Carl Latkin, Nancy Reynolds, Erica Sibinga  
**Sr. Manager:** Greg Rosen (roresan72@jhu.edu)

- Supports junior and senior faculty in the processes of grant development and implementation.  
- Manages the online CFAR Grant Development and Implementation Toolkit (toolkit.hopkinscfar.org).  
- Develops and plans targeted events to collaborate and engage in existing research programs.  
- Provides mentoring for junior faculty engaged in prevention science.  
- Supports training in existing and emerging methodologies and technologies.

## Clinical Laboratory and Biomarkers Core
**Core Director:** Mark Marzinke  
**Program Manager:** Kristin Bigos (kbigos1@jhu.edu)

- Facilitates access to research labs, clinical labs, and core labs across the Hopkins Enterprise.  
- Provides discounted research pricing for the performance of laboratory assays.  
- Offers consultation, training and technical support in laboratory practices.  
- Provides guidance in meeting regulatory requirements.  
- Offers biospecimen storage and potential access to samples banked by other researchers.

## Biostatistics and Epidemiology Methodology Core
**Core Director:** Bryan Lau  
**Co-Director:** B. Aletta Bareng Nonyane  
**Program Manager:** Eryka Wentz (ewenzt1@jhu.edu)

- Provides leadership to support collaborative, educational, and research initiatives for the HIV/AIDS community to promote and support innovative HIV-related research.  
- Links investigators with BEM Core members who contribute HIV/AIDS expertise in the following areas: bioinformatics, biostatistical, epidemiological, and dynamic modeling.  
- Provides support for data management through the Johns Hopkins Biostatistics Center (JHBC).  
- Trains and mentors staff, students, fellows, and junior investigators in state-of-the-art population and quantitative methods used in HIV research.
IMPLEMENTATION SCIENCE CORE
Co-Directors: Shree Schwartz, Laura Beres, Stefan Baral
Program Manager, Lisa Lucas (llucass@jhmi.edu)

- Resource development including grant review, targeted events, monthly meetings to foster knowledge sharing and on-line repositories and libraries
- Promotion of inter, intra and extra CFAR and JHU networking, collaboration and synergies.
- Implementations Science consultation Hub
- Inter-CFAR IS Fellowship for Early Stage Investigators

BALTIMORE HIV COLLABORATORY/GENERATION TOMORROW
Director: Risha Irvin, Kathleen Page
Program Coordinator: Jasmine Blue (jblue3@jhmi.edu)

- Promotes community linkages between JHU researchers and HIV focused NGOs, the Baltimore City Health Department, and people affected with HIV/AIDS
- Identifies, recruits and trains under-represented minority undergraduates, graduate students and fellows in community-based HIV/AIDS research in Baltimore.
- Training and field experience for students and community-based health workers in Baltimore.
- Summer Health Disparity Scholars Program

Scientific Groups

Adolescent and Young Adult (AYA) SWG
Co-Directors: Allison Ayu, Julie Denison and Renata Sanders. Contact: Eileen Martin (emarti77@jhmi.edu)

Vaccine Response and Immunotherapeutics (VRI) SWG
Co-Directors: Anna Durbin, William Moss, Andrea Cox. Contact: Eileen Martin (emarti77@jhmi.edu)

HIV Aging Mentored-Research Group (HAMR)
Co-Directors: Todd Brown, Greg Kirk. Contact: Eileen Martin (emarti77@jhmi.edu)

Inter-CFAR Sub-Saharan Africa (SSA) SWG
Co-directors: Haneefa Saleem and Dick Chaisson. Contact: Eileen Martin (emarti77@jhmi.edu)

Substance Use and HIV Interest Group
Director: Sean Falade-Nwulia. Contact: Anne Efron (aefron@jhmi.edu)

These groups aim to address scientific gaps; promote multidisciplinary collaboration, education, and synergy; help early-staged investigators find projects/mentors; provide feedback on new ideas and ongoing work; foster career development; pre-review grant applications and other proposals; and create a dynamic forum for scientific discussion.

Programs and Services

CFAR Faculty Development Awards in HIV Research: $50,000 Pilot grants to junior faculty to enable and support HIV/AIDS research projects. The prime purpose of these awards is to strengthen the individual’s ability to secure independent funding.

Mentoring: Both formal and informal mentoring processes are available to young faculty interested or engaged in HIV research at the JH MI through each core as appropriate. You may contact individual cores directly or the Developmental Core for referrals.

Internal Scientific Reviews: JHU Faculty members applying for funding in the area of HIV/AIDS are able to request an internal scientific review of their grant application.

Specific Aims Lightning Rounds: Round table discussions with senior and junior faculty to brainstorm and fine tune aims prior to grant development.

Grant Development and Implementation Toolkit: http://toolkit.hopkinscfar.org/

hopkinscfar.org  @HopkinsCFAR  facebook.com/JHUCFAR
Center for Nursing Inquiry

https://www.hopkinsmedicine.org/nursing/center-nursing-inquiry/
Are you interested in research, EBP or QI? WE’RE HERE TO HELP!

The Johns Hopkins Center for Nursing Inquiry offers a variety of educational resources and expert guidance to help nurses engage in meaningful, high-quality scholarly work.

FOR MORE INFORMATION, VISIT: hopkins.org/CNI
Clinical Research IT Systems and Services
Clinical Research IT Systems and Services

CCDA

REDCap

PACE

OpenSpecimen
ClinicalTrials.gov Program

clinicaltrials.gov
History of our Program
The Johns Hopkins ClinicalTrials.gov Program was developed in June 2016 by Dr. Daniel Ford and Anthony Keyes. This Program was designed to address the needs of our investigators and study team members.

Johns Hopkins is committed to honoring our commitment to research participants by ensuring transparency through the accurate and timely registration, updating and results reporting of clinical research.

Our mission is to increase our institutional compliance to all applicable regulations, such as the FDA Final Rule and the NIH Companion Policy (compliance date April 2017).

The ClinicalTrials.gov Program will assist investigators with:
- Meeting ethical, legal and scientific responsibilities for clinical trials registration and results reporting
- Identifying trials that require registration and results reporting
- Tips, tricks and helpful content
- Up-to-date information on institutional and federal policies
- Direct effort upon request (billable per hour)

SCHOOL OF MEDICINE
SCHOOL OF PUBLIC HEALTH
SCHOOL OF NURSING
ALL CHILDREN’S HOSPITAL
SIDNEY KIMMEL COMPREHENSIVE CANCER CENTER
Oswald Tetteh, MD, MPH
Kimberly Hill, MS
registerclinicaltrials.jhmi.edu

KENNEDY KRIEGER INSTITUTE
Eun Sol Tung
JungFS@kennedykrieger.org

ClinicalTrials.gov
@JHU
An in-house program assisting investigators and study teams with ClinicalTrials.gov registration and results reporting.

registerclinicaltrials@jhmi.edu
https://ctr.johnshopkins.edu/clinicaltrials-gov
ClinicalTrials.gov Program

School of Medicine & School of Nursing
Anthony Keyes, MBA,
Oswald Tetteh, MD, MPH
Kimberly Hill, MS
Based at our main office, the team has been working with faculty and research staff at the Schools of Medicine and Nursing since the inauguration of our program in June 2016. Dr. Oswald Tetteh and Kimberly Hill are available to assist investigators and study team members with any issues that may arise while using the ClinicalTrials.gov Protocol Registration and Results System (PRS) to register and enter results. They ensure that our records are accurate and up-to-date before they are submitted for review and published on ClinicalTrials.gov.

Sidney Kimmel Comprehensive Cancer Center

In April 2018, the ClinicalTrials.gov program was introduced to the Sidney Kimmel Comprehensive Cancer Center. We have been working with the clinical research investigators and study teams to improve compliance and ensure prospective compliance. Each cancer research program is allotted dedicated time to address non-compliant records and share best practices to promote compliance with the study team. In addition, training sessions have been developed in order to teach research staff about current requirements and guidelines as well as how to use the PRS for registration and timely results reporting.

Program Timeline

Federal requirements per FDAAA 801 and NIH Compliance Policy

Any non-compliance will be subject to fines up to $51,000 per day as well as potential loss of grant funding by the NIH. (Federal Rule 42 CFR Part 117)

Important Deadlines

- Register before enrollment*
- Verify your record once a year
- Update your record within 30 days of any change
- Enter Results* for the primary outcome measure within 12 months of the Primary Completion Date
- Enter Results for all remaining outcome measures within 12 months of the Study Completion Date
- Reply to PRS Comments within 15 calendar days for registration/updated records within 25 calendar days for results-related issues

*Federal regulations require all Applicable Clinical Trials to be registered within 21 days of starting enrollment, but IOM requires registration BEFORE enrollment be eligible for publication. We therefore, recommend all studies to register BEFORE starting enrollment!

**Results reporting is required for all Applicable Clinical Trials, NIH-funded trials, and some other grants (check your Terms & Conditions)
Department of Art as Applied to Medicine

medicalart.johnshopkins.edu/services
Faculty and Staff in the Department of Art as Applied to Medicine collaborate with Johns Hopkins colleagues to support research, education and clinical care.

Services include:
- Medical & Scientific Illustration
- Animation
- 3D Printing & Visualization
- Facial Prosthetics
- Graphic Design
- Scientific Presentations
- Websites and Mobile Apps

Visit us at medicalart.johnshopkins.edu/services
Education and Training Opportunities at the Johns Hopkins Center for Health Equity

[Link to website: healthequityhub.com]
Education and Training Opportunities at the Johns Hopkins Center for Health Equity

Deidra C. Crews, MD, ScM
Professor of Medicine, Johns Hopkins University School of Medicine
Deputy Director, Johns Hopkins Center For Health Equity
Johns Hopkins Center for Health Equity

MISSION

Promote equity in health for populations experiencing health disparities through:

1. Advancing scientific knowledge

2. Educating and training leaders

3. Partnering with communities
   - Raising public awareness of health inequities
   - Promoting sustainable changes in practice and policy

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Training Program

- Created a training program for health professionals and researchers in 2010
- Trained ~200 individuals ranging from high school and undergraduate students to Master’s and pre-doctoral students, postdoctoral fellows, and junior faculty
- Trainee accomplishments include:
  - National awards, grants, and faculty positions
  - Health equity publications
  - Leadership roles
  - High school and undergraduate students who matriculated into medical, nursing, public health or other graduate programs in science
Education & Training Programs

Johns Hopkins Center for Health Equity Education and Training Program Activities

- Health Equity Jam Sessions
  - Monthly seminars featuring senior and trainee health equity researchers
  - Special symposia to advance the national agenda on priority areas
  - Networking and collaboration opportunities with experts in the field

- Research Study Opportunities
  - Participation in Center research meetings and study activities
  - Opportunities to engage in faculty research activities
  - Health Equity Researcher Resource e-newsletter

- Faculty Mentorship
  - Novel trainee intake process for individualized faculty mentoring
  - Annual speed mentoring events
  - Faculty showcase to highlight available training opportunities

- Didactic Coursework
  - Applications of Innovative Methods in Health Equity Research
  - Local and Global Best Practices in Health Equity Research
  - Foundations of Health Equity Research

- Community Engagement
  - Opportunities to attend community advisory board meetings
  - Community partner practicum opportunities
  - Longitudinal relationship building with partners

JAM Sessions and Special Events

- Provides a forum for faculty and trainees working on health equity research to discuss research-in-progress, new research ideas and proposals, responses to peer review, collaborations and funding, and career development – as well as to be inspired and energized by each other in an informal setting

- We also hold special events and co-sponsor seminars with other research programs
Mentored Research Opportunities

- Individualized mentoring by Center faculty
- Participation in research team meetings
- Opportunities to
  - Participate in community engagement activities
  - Contribute to study materials and protocols
  - Interview patients, clinicians, other healthcare staff, and community members
  - Collect anthropometric measures and other medical tests
  - Analyze qualitative and quantitative data
  - Contribute to scientific presentations and manuscripts
Health Equity Courses for Academic Credit

- **Bloomberg School of Public Health**
  - Applications of Innovative Methods in Local and Global Health Equity Research (3rd Term – Cooper)
  - Health Equity Research Methods to Address Social Determinants of Health (4th Term – Purnell)
  - Promoting Anti-Racist Policies and Practices Across Healthcare Settings (Cooper & Marsteller)

- **School of Medicine**
  - Health Equity TIME Course for medical students
  - JH Equitable Healthcare - A Virtual Clinical Elective for medical students
  - Racism, Medicine and Our Community Conference series for Internal Medicine and Pediatrics residents
  - General Internal Medicine Fellowship
Massive Open Online Courses (MOOCs)

- We have also developed two MOOCs on the Coursera platform and trained over 7,000 people around the world since the beginning of 2020.

- In early 2023, we will release a new MOOC focused on local global bidirectional learning to advance health equity.

https://www.healthequityhub.com/online-learning-mooc-courses-home
Community Engagement Activities
Investigator Development Core

- Established as a pilot project program in 2022 to support innovative research related to cardiometabolic health equity
- The program - consisting of Early-Stage Investigators - includes a built-in community network, faculty mentoring, and structured didactic training to support awardees

https://www.jhumacche.org/investigator-development-core
How Do I Become a CHE Trainee?

- Send an email to healthequitytraining@jhmi.edu
  - We will ask you to complete a confidential online survey to tell us your primary content and methodological areas of interest
  - Share specific training opportunities provided by Center faculty
  - Try to match you with an appropriate faculty mentor, research study group and/or community-based experience

Visit our website for more information
www.healthequityhub.com
I-Corps Program

https://ventures.jhu.edu/programs-services/fastforward/resources-programs/icorps-program/
ABOUT

REDCap is a HIPAA compliant database program that you can use to manage clinical research and JHU QI data. It's available (in some instances, at no cost) to researchers performing IRB reviewed research and employees at JHU (SPH, SOM, SON, JKH, APL).

CONTACT US

Email: redcap@jhu.edu
REDCap Website: redcap.jhu.edu

REDCap at Johns Hopkins University
Research Electronic Data Capture

(Rev 2022.11.17a)
HOW DO I GET STARTED?
Not sure where to start? No worries! Visit www.redcap.jhu.edu and click on the “Getting Started with REDCap” link. This document will walk you through, one step at a time.

HOW MUCH DOES IT COST?
There are three REDCap support tiers: Bronze, Silver, and Gold. Please review the “Getting Started with REDCap” document (mentioned above) for more detailed information.

REDCap is HIPAA compliant, JH approved tool for many types of projects:
- Research and QI projects
- Projects containing sensitive information (PHI, PI)
- Single and multi-site projects
- Projects that include surveys
- Longitudinal projects (structured and unstructured)
- EPIC integration
- Multi-Language Management

REDCap is secure:
- Approved by JH Data Trust Council
- JHED enabled
- User rights tailored to specific requirements for each user’s role
- PHI/PII field tagging

REDCap Alerts automatically notify your team of key conditions (e.g. a survey response requiring immediate attention)!

SURVEYS
REDCap handles surveys very well. You can send out survey links manually or you can setup automated survey invitations (and reminders) to be sent at appropriate intervals or based on some other condition within the data.

ALERTS
Receive automated notifications based on data received in a survey (“I wish to speak to someone about my treatment”).

LONGITUDINAL PROJECTS
REDCap allows for easy setup of longitudinal projects, including making it easy to schedule participants based on your study’s timeline.

BEYOND DATABASES
REDCap is designed to support the collection of high quality research data, viz:
- Structured data types (text, number, data/text, yes/no, email, etc.) ensure data conform to data standards
- Tag fields as identifiers (name, id, etc)
- Branching logic (faster fields, when appropriate)
- Min/Max ranges (numbers, dates...)
- Tag “required” fields
- Calculates values on the fly
- Creates your own data quality rules
- Auditing: All project activity is logged from page views to field edits
- Restrict user rights to only those needed for their responsibilities
- Use Data Access Groups (DAGs) for multi-site studies, allowing site members to see only their site’s data
- And much more...

REDCap also has additional data quality tools to support the highest quality data possible.
reddcap.jhu.edu

Scott Carey
Sr. Software Engineer
Sr. REDCap Administrator
Institute for Clinical and Translation Research
School of Medicine
Johns Hopkins University
Research Coordinator Support Services (RCSS)

https://ictr.johnshopkins.edu/service/study-conduct/rcss/
Requesting Support

We work with Investigators all across Johns Hopkins

SCHOOL OF MEDICINE
SCHOOL OF PUBLIC HEALTH
SCHOOL OF NURSING
SIDNEY KIMMEL COMPREHENSIVE CANCER CENTER

https://ictr.johnshopkins.edu/service/study-conduct/rcss/

1) Go to our website.
2) Click on the blue “Make a Request” field in the upper-right corner

Make a Request

3) A member of our team will contact you within 1 business day.

Research Coordinator Support Service (RCSS)

The ICTR Research Coordinator Support Service (RCSS) is a pool of research coordinators that are available for hire on a part-time basis by Johns Hopkins researchers.

https://ictr.johnshopkins.edu/service/study-conduct/rcss/
### Research Coordinator Support Service (RCSS)

#### About Us

Formerly known as SCAMP, the ICTR Research Coordinator Support Service (RCSS) is a pool of trained coordinators able to handle a wide range of customizable responsibilities to best fit the needs of your research team. The pool consists of apprentices (who are a part of the Coordinator Apprenticeship Program (CAPP)), research program coordinators (many of whom have completed the Apprenticeship Program), senior coordinators, and a program manager.

#### Training

All staff receive training prior to beginning work assignments and continual mentoring to ensure the study is running efficiently and per federal and University guidelines and regulations. Staff will have completed the following minimal training: Human subject research protections, Good Clinical Practices (GCP), eIRB, CRMS (Clinical Research Management System), Epic, DOT/ATA, clinical skills (i.e., vitals signs, ECG, and phlebotomy) and CPR.

#### Program Timeline

This Program started in 2012 and has hired and trained over 100 Coordinators, most still in clinical research and many still here at Johns Hopkins.

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### Scheduling

Scheduling is based on the number of hours needed per week. Hours may also be built into grants and/or as a salary support model based on the full-time equivalent (FTE) support needed.

If an investigator / department makes a coordinator hire, or no longer needs support, the RCSS Coordinator will assist with the transition process and will continue providing support until the transition is complete.

#### Coordinator Responsibilities

RCSS Coordinators are available to work with study teams at all stages of research. They are experienced with drug and device studies, pharmacologically-sponsored, federally-funded and investigator-initiated studies across several disease states and disciplines. They can assist with (but not limited to) the following:

- eForm and informed consent creation and modification
- eIRB applications (i.e. initial, changes in research and continuing reviews)
- participant screening and recruitment consenting
- performing study visits
- data entry, and resolving queries
- creating and completing source documents and case report forms
- sample collection, processing and shipping

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### Things to Remember

- **Payments & Fees**
  
  RCSS coordinators are available as a fee-for-service program, making the process of finding a part-time coordinator easier. This service is ideal for junior faculty to seasoned investigators. Any investigator may find themselves in need of a coordinator due to sudden absences, resignation, or retirement and we work quickly to provide services.

  RCSS coordinators are not added to your payroll. Study teams are provided a detailed monthly invoice billed directly to their internal order number. The process is straightforward even for investigators with multiple studies or departments using multiple internal order numbers.

  **Effective July 1, 2022:** (rates inclusive of all fringe)

  - Research Coordinator support is $60/hour
  - Research Regulatory Specialist support is $65/hour
  - Senior Research Program Coordinator support may also be available for more complex studies and situations at $85/hour

  Prior to beginning a work assignment, a study start-up meeting will be scheduled with the study team. At this meeting, a concise work agreement will be established with the study team that will outline the responsibilities and tasks that the RCSS coordinators will perform, and the hours required by the study team. The work agreement may be modified as situations change.

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### Links

- [https://ictr.johnshopkins.edu/service/study-conduct/rcss/](https://ictr.johnshopkins.edu/service/study-conduct/rcss/)  **410-550-6259**
School of Medicine Biomedical Informatics and Data Science Courses
Biomedical Informatics and Data Science Courses

Introduction to Public Health and Biomedical Informatics
Core principles applied to the range of health, from prevention through illness, to population and public health

Applied Clinical Informatics
Focused on leveraging clinical information systems and technology to improve patient and family-centered care

Leading Change Through Health Informatics
Prepares learners to lead organizations implementing new IT systems

Informatics and the Clinical Research Lifecycle: Tools, Techniques, and Processes
Addresses the entire life cycle of a clinical research program from idea generation through results dissemination

Health Information Systems: Design to Deployment
Project-based course covering the research stages to deployment of software design and development

Clinical Decision Analysis
Theory and practice of decision analysis as applied to the clinical context, focused on clinical decision support

Data Science Track
Introduction to Precision Medicine Data Analytics
Evolving field of precision medicine and the role of big data analytics in improving patient care

Database Querying in Health
Relational databases using SQL along with special issues related to health information systems

Clinical Data Analysis with Python
Discussion and interactive Python exercises provides practical experience working with EHR data

Observational Research with Observational Medical Outcomes Partnership (OMOP)
Practical exercises with the OMOP common data model (CDM) from the OHDSI community

Implementing Fast Healthcare Interoperability Resources (FHIR)
Hands-on experience working on integrating digital health and clinical interoperability

Natural Language Processing in the Health Sciences
Orientation to the various applications of NLP in biomedicine, healthcare, and public health

Questions? Email JHInformatics@hu.edu
SON Research Retreat 2022 ICTR
Informatics Presentation
CCDA

Core for Clinical Research Data Acquisition (CCDA) assists researchers with accessing clinical data for research.

**Services we Provide**
- Data Feasibility for Grant Applications
- Sample-Size Estimates
- Data navigator for PMAP
- MyChart Recruitment
- Research Data Extracts
- Data De-identification services
- Honest Broker services
- SlicerDicer & TriNetX tools assistance

**Data Sources we can Access**
- Epic Clarity
- EDW
- PMAP
- OMOP
- CaseMix Datamart
- CRMS
CCDA for PMAP

Core for Clinical Research Data Acquisition (CCDA) provides full data navigator services for PMAP users

Navigator Services for PMAP

- Data wayfinding from study development to study close
- IRB protocol assistance for registries and secondary protocols
- Data specification documents
- Database projections
- Training on data analytics tools
- Epic workflow expertise
REDCap

- REDCap (Research Electronic Data Capture) is a secure, HIPAA compliant, web-based application that supports data capture and management for research studies. REDCap at Johns Hopkins is co-sponsored by the Johns Hopkins School of Public Health and the Johns Hopkins School of Medicine.

- Secure / HIPAA Compliant
- Easy to use
- Robust
- Integrates with EPIC
PACE (Program to Accelerate Clinical Research using Epic) helps clinicians collect data by building customized tools and content in Epic.
OMOP Common Data Model

• **Observational Medical Outcomes Partnership**
• OHDSI Community: International, collaborative, open-source
• Patient data mapped to standard concepts
• Results and analyses shared among institutions
• CCDA is now able to provision data in the OMOP format
• Fully de-identified OMOP accessible to all Hopkins entities coming soon!
OpenSpecimen

We Offer

- Annotation of research and clinical data
- Specimen information interfaced with PMAP
- Query capability
- Specimen and derivative tracking
- Specimen event tracking
- Epic patient lookup-enabled
- Considered a "Tier A" best practice for storing biospecimen metadata, including PHI
Clinical Research IT Systems and Services

CCDA

REDCap

PACE

OpenSpecimen
Welch Center
