

About the Speakers

Manoo Bhakta, MD - Associate Professor of Pediatrics, University of Tennessee College of Medicine Chattanooga

Eric Heidel, PhD - Assistant Professor of Biostatistics, University of Tennessee Graduate School of Medicine

Stacey Hendricks, CIM - IRB Administrator, University of Tennessee College of Medicine Chattanooga

Amy Hutcherson, PhD - Director of Compliance and Sponsored Projects, University of Tennessee College of Medicine Chattanooga

Case Sanders, MD - Award-Winning Research Project Presenter from the UT College of Medicine Resident Research Week

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The Dean's Office at the UT College of Medicine Chattanooga is proud to present the

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Nuts & Bolts

R E S E A R C H P E R S P E C T I V E S

Research Methods Symposium



Friday, August 15, 2014 • 8:30 am - 3:00 pm

Auditorium • University Center, UTC



About Nuts & Bolts

The University of Tennessee College of Medicine Chattanooga (UTCOCM) welcomes you to our Annual Research Methods Symposium. Our goal is to engage community and academic investigators in the development of research projects that improve patient care and promote evidence-based decision making. Faculty, residents, medical students, research administrators, research coordinators, and other individuals planning or involved in medical research should attend.

Our objectives for this symposium consist of: 1) establishing the ability to create, refine, and formulate valid research questions using different approaches/systems, 2) learning to correctly select research designs to answer the specified research question, 3) improving the ability to choose valid variables, conduct a priori power analyses, and structure databases & codebooks, and 4) choosing the correct statistic to answer a research question knowledgeably.

The attendees you will meet and hear from include faculty, resident physicians, & medical students from UTCOCM as well as research coordinators, research administrators, and other individuals planning or involved in medical research.

Agenda

8:00 am - Breakfast

8:30 am - **Welcome**

8:45 am - **Research Foundations** - *Eric Heidel, PhD*

- a) *The Research Question*
- b) *Research Design*
- c) *Variables*
- d) *Statistical Power*
- e) *Database Structure*

10:15 am - **Break**

10:30 am - **Applied Statistics** - *Eric Heidel, PhD*

- a) *Descriptive Statistics*
- b) *Between-subject Comparisons*
- c) *Within-subject Comparisons*
- d) *Correlations*
- e) *Mixed and Multi-variable Analysis*
- f) *2x2 Tables*
- g) *Epidemiological Measures*

11:55 am - Relocate to the Tennessee room

12:00 pm - **Lunch**

12:30 pm - **“The Reamer Irrigator Aspirator as a Device for Harvesting Bone Graft: Union Rates and Complications”**

Case Sanders, MD - 2014 Resident Research Day Award Winner

12:55 pm - Relocate back to the Auditorium

1:00 pm - **Evidence-based Medicine** - *Eric Heidel, PhD*

- a) *Asking*
- b) *Acquiring*
- c) *Appraising*
- d) *Applying*
- e) *Assessing*

2:30 pm - **Research within the UT College of Medicine**

Chattanooga & Erlanger - *Moderator: Manoo Bhakta, MD*

3:00 pm - Adjourn