GME Research Training Program - Cohort 2 - (2023-2024)

The goal of this 11-month (August to June) online program is to provide UTHSC Residents/Fellows a pathway for training on principles of research while having the opportunity of practical hands-on experience conducting clinical research.

The program uses Blackboard (UTHSC Learning Management System) to provide access to new research training content and leverage existing didactic research trainings currently available on the GME website, TN-CTSI, Office for Research Development, and other available research training resources at UTHSC and other institutions (i.e., NIH). The proposed curriculum will provide an opportunity for a structured research education. The GME Research Training Program will span through the academic year with an expectation of completion of one session (two hours) per month for 11 months. Each training session comprises of prerecorded presentation, a small set of questions, and a live Q&A Zoom session.

With Blackboard we will provide access to prerecorded research training material while also tracking completion of training activities. Additional new research training resources will be added as they are developed. Opportunities for synchronous discussions, post presentations, will be available through zoom sessions that will be held on the second Monday of each month at 12PM CST. For specific recordings, a small set of questions will be added to complement the training activity and assess understanding of the material. Viewing the recorded content, completing the set of questions (when applicable), and participating in the live zoom Q&A sessions will mark the specific training session as completed.

GME Research Training Program Certification: UTHSC Residents / Fellows who complete all 11 research training sessions (approximately 22 hours) listed on Table 1 and provide (through blackboard submission) a copy of the product of their research work (i.e., poster/paper presentation, abstract, draft manuscript) will receive a **Certificate of Completion** of the **GME Research Training** Program.

Table 1 – Outline of training sessions [a]

1	Introduction to clinical research and research questions
2	Overview of study designs; observational studies
3	Randomized trials; Critical review of literature
4	Ethics in research; Protecting human subjects; GCP; Informed consent/ Scientific Integrity and Preventing Research Misconduct
5	Intro to biostatistics: hypothesis and statistical testing; power and sample size
6	How to summarize data and initial analysis; Biostatistics, Epidemiology, and Research Design (BERD) Clinic
7	Biomedical informatics at UTHSC / major data sources available at UTHSC; use of Research Enterprise Data Warehouse database (EDW) and TriNetX for subject recruitment and using REDCap for data capture
8	Introduction to the IRB; Navigating the IRB
9	Overview of grant Proposals and funding sources
10	Library resources: literature search, EndNote
11	Communication tools; effective communication

[a] Each session with approximately two hours of duration. Training material from UTHSC IRB website; UTHSC Office of Research Development, TN_CTSI; NIH; other available sources; and newly developed training materials for the GME RTP