

INTRODUCTION TO CLINICAL RESEARCH

Fall Semester, 2009

(1 credit hour)

Hearing and Speech (AUD 805)

MD/PhD Students (GSMC 803)

Nursing (NRSB 803)

Graduate Preventive Medicine (PRVM 803)

2nd Year Medical Student (IDSP 850)

4th Year Medical Student (IDSP 950)

Time: 5:00 pm - 6:30 pm, Thursday
Place: 1050 SON for 8-20-09 & B018 SON (Nursing Bldg.) for all remaining classes
Co-Instructors: Richard J. Barohn, MD
Professor and Chair, Department of Neurology
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GCRC Assistant Director, Director of Education, GH04 Delp, MS 3037
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Course Description:

The course will provide a basic and broad overview to clinical research. The student will gain an understanding of how to develop clinical research questions including protocol design and the factors that should be considered in initiating a clinical research study. This will include biostatistical considerations, the recruitment of study participants, regulatory issues, and data management, and defining measures and instruments. Students will gain knowledge of how to define clinical research among the various institutional entities involved with clinical research at The University of Kansas Medical Center such as the Research Institute (RI), General Clinical Research Center (GCRC) and the Human Subjects Committee (HSC). Additionally, one component of the course will focus on how to apply for funding (grantsmanship), critical appraisal of research studies, and how to present research data.

The target audience for the course is broad and includes faculty involved in the K-30 program, students pursuing a masters in clinical research, clinical fellows in the school of medicine, doctoral students (medical and graduate, MD/PhD, MD/MPH, etc.), post-doctoral fellows, medical residents, and faculty at KUMC and KU-Lawrence.

Prerequisites: Permission from the instructor

Course Objective:

Upon completion of the course students will be able to:

- Discuss principles of clinical research study design and protocol development
- Describe ethical and regulatory issues in conducting research involving human subjects
- Discuss biostatistical significance including data management and defining measures and instruments
- Describe the process of applying for funding
- Describe how to present research data

Course Format: Lecture and discussion

The course is composed of 15 lectures and discussion (1 to 1 ½ hours each) organized into three components over a period of one semester.

Grading Policy:

Students will be evaluated on their attendance and participation in the course and upon submission of an outline of a clinical research project which addresses the key components of clinical research discussed in the course. A letter grade will be assigned to each student based on their evaluation.

Participation and Attendance 75%
Clinical Research Project 25%

The students will be evaluated on the scale of Superior, High Satisfactory, Satisfactory, Low Satisfactory and Unsatisfactory.

Superior	90-100%
High Satisfactory	80-89%
Satisfactory	70-79%
Low Satisfactory	60-69%
Unsatisfactory	59% or below

Students will be evaluated on their attendance and participation in the course and upon submission of an outline of a clinical research project that demonstrates a working knowledge of study design issues (outcome measures, data management, biostatistical considerations) as well as ethical and regulatory issues. A letter grade will be assigned to each student based on their participation and their ability to apply principles of clinical research design to clinical research protocol development.

Lecture Schedule (Thursday, August 20th-1st Day of Class 1050 SON and all other classes held in B018 SON)

<u>DATE</u>	<u>INSTRUCTOR</u>	<u>SUBJECT</u>
Aug. 20	Barohn/Burns	Who/What/Why/Where of Clinical Research (First Day of Class in 1050 SON, School of Nursing Bldg.)
Aug. 27	Ellerbeck	Developing Clinical Research Questions/Hypothesis (B018 SON)
Sept. 3	Mahnken	Statistical Considerations for Grants and Protocols: What Information Should Be Conveyed?
Sept. 10	Blackwell/Lantos	IRB/HSC and General Ethics in Clinical Research
Sept. 17	Mayo/Lushington	Many Faces of Informatics in Clinical Research
Sept. 24	Radel	Effective Data Presentation: Platforms & Posters
Oct. 1	Lyons/Burns	Measures/Instruments/Study Organization and Managements/Forms
Oct. 8	Kimminau/Greiner	Community Issues and Clinical Research
Oct. 15	<i>NO CLASS – FALL BREAK</i>	
Oct. 22	TBD	Writing a Clinical Research Paper and Submitting to a Journal
Oct. 29	Aaronson/Naser	Clinical Research Development Office (CReDO)
Nov. 5	Gronseth	Critically Appraising Research-A Consumer's Perspective
Nov. 12	Kearns	Pediatric Clinical Research
Nov. 19	Nudo	From Bench to Bedside
Nov. 26	<i>NO CLASS – THANKSGIVING DAY</i>	
Dec. 3	Weir	Conduct of First-In-Man Trials
Dec. 10	Burns	Putting it all together: How I got my research off the ground at KUMC Last day of class and research outline project is due

Learning assistance, academic performance enhancement, and psychological services at KUMC are free, confidential, and available at Student Counseling & Educational Support Services by calling 913-588-6580 or visiting G116 Student Center. Any student in this course who needs an accommodation because of a disability in order to complete the course requirements should contact the instructor or the Equal Opportunity / Disability Specialist (913) 588-7813, TDD (913) 588-7963 as soon as possible.