

LEARNING OBJECTIVES AND EXPECTATIONS

Clinical Research Curriculum

Fellows in their second and third year of training in the combined Hematology-Oncology training program have the opportunity to participate in clinical research. Fellows will participate in the design of experiments and analysis of data and may also review medical literature, recruit and examine patients, execute diagnostic and treatment protocols, and review medical records to collect relevant information. Residents must learn the design and interpretation of research studies, responsible use of informed consent, research methods and interpretation of data. One month free of inpatient responsibility is scheduled in the second year of the fellowship program for meeting with the faculty advisor and formulating a research plan. The research plan is submitted to the program director (via email) and approved by a faculty clinical research committee. A minimum of four months free of inpatient responsibility is scheduled in the third year of training to carry out the goals of the research plan. Significant time during ambulatory rotations (for which more time is allotted in the third year) is also available for clinical studies. Evidence of productivity in clinical research is required for completion of the program. This evidence will normally consist of publication in the form of articles, review articles, or abstracts, and certificates of training in institutional or other clinical research seminars, which are to be submitted at the completion of the final month of rotation.

Required Course:

Fundamentals of Patient-Oriented Research (7:30 am – 4:15 pm, Saturday 10, 2005)

The Center for Biostatistics and Clinical Research has course offerings (fall schedule below). Contact Dena Wheaton for details to register for credit or audit.

**CENTER FOR BIOSTATISTICS AND CLINICAL SCIENCE
 CLINICAL SCIENCE CURRICULUM - FALL 2005
 OUR SEMESTER DATES: 8/29/05-12/9/05**

| Course # | Course Name/# | Course Description | Credit Hours | Faculty | Start Date | Days | Time | Room # | Course Materials |
|-----------------|---|--|--------------|---------------------------|------------|------|-------------|--------|--|
| <i>DCS 5301</i> | <i>Clinical Research Design and Analysis (Core)</i> | Basic and intermediate level principles in research design; formulation of the research question; identifying primary and secondary hypotheses; types of experimental structures; use of control groups and pre-specified hypotheses; surrogate measurements; analysis of incomplete data; meaning of P values and confidence intervals; identification of bias and flaws in study design. | 3 | <u>Milton Packer, MD</u> | 8/29/05 | M/W | 7:30–9:00am | D1.200 | |
| <i>DCS 5491</i> | <i>Biostatistics for Clinical Sciences I (Core)</i> | Summary statistics; probability theory; random variables and distribution functions; point and interval estimation; sampling and measurement; statistical power and sample size; parametric and nonparametric approaches for the analysis of categorical and continuous data will be explored in detail; correlation, simple linear regression and survival analysis. | 3 | <u>Joan Reisch, Ph.D.</u> | 8/29/05 | T/Th | 4-5:30 pm | D1.200 | Textbook: "Biostatistical Analysis", 4th ed., by Jerrold Zar, Publisher: Prentice Hall. Majors Bookstore |
| <i>DCS 5101</i> | <i>Biostatistics Laboratory I (Core)</i> | Biostatistics Laboratory I is designed to coordinate with and support the concurrent Biostatistics for Clinical Science course. In this lab, students will be introduced to biostatistical methods through case studies. Topics include conceptualizing research questions, collecting and preparing data, analyzing data, and reporting results | 1 | <u>Alan Elliott, M.S.</u> | 8/30/05 | T | 9-10:30 am | E1.403 | |