

# Department of Biostatistics

How may  
we assist you?

- 2006 School of Medicine Core Day -

# Our Department

- Chaired by Frank E Harrell, Jr, PhD
- Created in September 2003, within the School of Medicine
- Currently have 26 faculty biostatisticians, 13 staff biostatisticians, and 10 computer systems analysts

# Our Goals

- Main goal:
  - To increase the quality and quantity of research in the School of Medicine
- Among other specific goals:
  - Department members should be innovators, scientists, collaborators, and teachers, which means fully integrating into the research programs of other departments in the School of Medicine (SOM)

# Our Services

- Collaboration plan
  - Replace consultation (other than for very small projects) with long-term collaboration
- Daily biostatistics clinics
  - For those departments, divisions, and centers who are not part of the biostatistics collaboration plan
- Core support for the General Clinical Research Center (GCRC) and Cancer Center

# Collaboration Plan

- Areas of assistance:
  - IRB and/or grant proposals
    - Strengthening experimental design
  - Data analysis
    - Quantifying evidence and understanding variability
    - Advanced statistical methods for reproducible research
  - Publication
  - Training

- *“From inception to publication and beyond”* -

# Collaboration Plan, *cont'd*

- Specific functions provided:
  - Problem and specific aims determination/clarification
  - Experimental and study design determination
  - Sample size/power calculation/justification
  - Data collection assistance/guidance
  - Methods determination and analysis
  - Writing/editing and revision assistance
  - Meetings, short courses, and journal clubs

# Collaboration Plan Participants

- Ongoing major biostatistics support available -

- Departments:

- Anesthesiology
- Biomedical Informatics
- Emergency Medicine
- Neurology
- Obstetrics & Gynecology
- Ophthalmology
- Section of Surgical Sciences

- Divisions:

- Infectious Diseases
- Orthopaedic Trauma

- Centers:

- Center for Patient & Professional Advocacy
- Kennedy Center
- Vaccine Center

- Other:

- DNA Databank
- MOON, Sports Medicine
- VA Health Services Research

# Daily Clinics

- For investigators wanting assistance with experimental/study design, data analysis/display, statistical computing, and/or interpretation of results
- *Free* help and *free* lunch
  - Noon – 1:15 pm every day in D-2221 MCN (Thursdays in the GCRC – A-3210 MCN)

# Daily Clinics, *cont'd*

- Open to all:
  - Faculty having primary appointments in the School of Medicine and Nursing
  - Kennedy Center investigators
  - Post-docs and senior laboratory personnel
  - Medical and surgical fellows
  - Students in the Medical School's Emphasis Program

# Daily Clinics, *cont'd*

- MONDAY: General
  - Including diagnostic and prognostic research
- TUESDAY: Omics data
  - Operated with the Dept. of Biomedical Informatics with participation of the Mass Spectrometry Research Center
- WEDNESDAY: Surgery, anesthesiology, emergency, and critical care medicine
- THURSDAY: (Non-surgical) Clinical research
  - Co-sponsored by the GCRC
- FRIDAY: Basic research

# Questions?

- Website:
  - <http://biostat.mc.vanderbilt.edu>
    - 'Information for Investigators' link
- Contact:
  - [biostat@vanderbilt.edu](mailto:biostat@vanderbilt.edu)
  - **322 - 2001**