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Vanderbilt Center for Quantitative Sciences
 Division of Cancer Biostatistics
 Biostatistics Shared Resource 571 Preston Research Building (6848)

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 Division of Cancer Biostatistics
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YU SHYR, PH.D.
*Ingram Professor of Cancer Research
 Professor of Biostatistics*

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www.vicc.org/biostatistics



The mission of Vanderbilt Center for Quantitative Sciences is to provide state-of-the-art statistical support to cancer center investigators, projects, and participants.

Services

The Vanderbilt Center for Quantitative Sciences team works with Cancer Center investigators to:

- Define objectives and endpoints
- Analyze pilot data
- Select appropriate designs
- Devise blinding and randomization schemes
- Plan interim analyses
- Determine early stopping rules
- Compute adequate sample sizes with concern clinical as well as statistical significance
- Estimate time required to accrue total patient population
- Specify statistical methods
- Prepare statistical sections of grant and protocol applications
- Design relational databases

Objectives

The members of the Vanderbilt Center for Quantitative Sciences endeavor to:

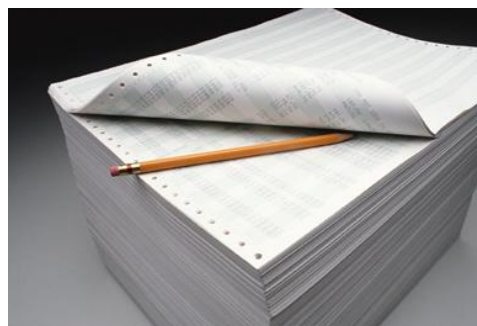
- Provide consultative services for Cancer Center investigators in the statistical design, conduct, and analysis of studies
- Collaborate in funded research efforts initiated by Cancer Center laboratory and clinical investigators, by providing statistical expertise in study design, power and sample size analysis; data analysis; interpretation of results; and writing of manuscripts
- Provide relational database design, data tracking, forms, queries, and reports for investigator-initiated clinical trial databases or laboratory study database s
- Develop and evaluate statistical methods for experimental design and data analysis
- Work with the Cancer Center Clinical Trials Shared Resource in the development of a new research project database to maintain data quality control and ensure timely data capture
- Train VICC members in research design and data analysis through seminars, short statistical workshops, and individual sessions on statistical methods

Contact Us

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Charges

There is no charge-back for using the Cancer Biostatistics Center since biostatistical input is crucial to most clinical and laboratory studies; however, the Cancer Center requires that at least one of the resource staff be listed as co-investigator on related research grant applications.

Equipment and Software Tools

- Thirty Intel Processor Workstations
- Windows 2003 & 2008 Servers
- Complete backup of critical data performed nightly
- R, MATLAB, SAS, SPSS, STATA, and other statistical applications

Important

The Vanderbilt Center for Quantitative Sciences supported by the National Cancer Institute.

Please acknowledge use of this center in any publications, citing grant number P30 CA68485.

Personnel

Yu Shyr, Ph.D.

Professor and Chief, Division of Cancer Biostatistics,
Ingram Professor of Cancer Research

Biostatisticians

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