Statistical analysis support is provided to faculty at the UTHealth School of Nursing as a service to investigators conducting research studies. Support is also given to faculty pursuing funding for their research projects. Services are provided in the following areas: recommendation of study design, recommendation of frequency and duration of data collection (for time series designs), plan for data analysis, sample size calculation, data management development, analysis of data, and interpretation of results. Consultation with experts in other substantive fields (epidemiology, research methods, etc.) may be required to augment the services provided by the statistician.

To adequately meet the research needs of all faculty, it is important that investigators be aware of the collaborative nature of statistical analysis. Most importantly, investigators will need to provide the statistician with the necessary details about their study to permit an informed review and determination of the statistical methods required. Investigators should also plan their projects accordingly to ensure adequate time is allowed for the various portions that require statistical services. Below is the initial information that is requested from faculty when they are in need of statistical support:

1.) Hypotheses (what are your research questions?)
2.) Study Design (for example, cross-sectional or longitudinal?)
3.) Variables (level of measurement, tools and their scoring, and frequency and timing of measures)

With regard to requested information, it is helpful if the requested items are initially provided in a condensed version (1-2 pages at most) rather than with an entire research proposal. Below is a description of the statistical services available to faculty based on the type of project:

**Funded projects:** Statistical analysis of data from research studies and interpretation of results is provided to faculty with funds to pay for the services. Payment is preferred on a percent effort basis. In addition, statistical methods and results sections can be provided for manuscripts and abstracts. Results sections are written in collaboration with the investigator. Graphs for manuscripts and presentations can also be created. If the statistician is co-investigator on the study, he or she can also participate in dissemination of findings through publications and presentations.

**Projects seeking funding:** Recommendation of study design and a plan for statistical analysis can be furnished to faculty seeking funding for their research project. Sample size calculation and a randomization plan can also be provided. In time series designs, recommendation of frequency and duration of data collection can be provided. Statistical methods sections, based on the plan for analysis, can be written for grant applications and other funding proposals.

**Unfunded projects:** Services available to funded projects are also available to research projects that do not have funding. Please note that priority for statistical services will be given to funded research projects.

**Projects for degree programs from other schools:** Faculty completing degree programs at other schools are provided statistical services. Assistance is offered for 3 consultations. Data management or analysis services are the responsibility of the faculty. In addition, the faculty member should always comply with their program advisors’ guidance when it conflicts with that provided by the CNR statistician.