

What We Do

The Department of Quantitative Health Sciences comprises four sections and an informatics core. Each has the ability to assist researchers in a number of tasks.

- **The Biostatistics Section** helps you design your study and analyze the data. Our statisticians determine how many subjects are needed, what needs to be measured, and the most appropriate methods for analysis.
- **The Clinical Trials Design and Analysis Section** works with investigators to design and conduct large and small single- and multi-center randomized clinical trials. We also perform interim and final analyses and assist in reporting results.
- **The Health Outcomes Research and Clinical Epidemiology Section** provides physicians with quality-of-life assessment tools, cost effectiveness analyses, and epidemiological research. We develop and test state-of-the-art models for use in outcome risk calculators for cancers, heart disease, diabetes, etc., and help physicians determine the best choices for patient care.
- **The Statistical Genetics and Bioinformatics Section** works with investigators to design, conduct, and interpret analyses of genetic data.
- **The Research Informatics Core** provides data collection tools, database development and maintenance for clinical research studies including those for drug and device trials. We also develop and host databases for disease and treatment registries.

The Department of Quantitative Health Sciences provides researchers at Cleveland Clinic with these services:

- Collaboration in the writing of scientific articles
- Grant application writing
- Sample size calculations
- Clinical study design
- Data collection methods
- Biostatistical analysis
- Statistical genetics
- Outcomes research methods
- Prediction models and software
- Quality-of-life instrument development
- Cost-effectiveness analysis and decision analysis
- Database development and maintenance
- Educational and training tutorials

Our website for additional information and requests for collaboration is: www.clevelandclinic.org/qhs



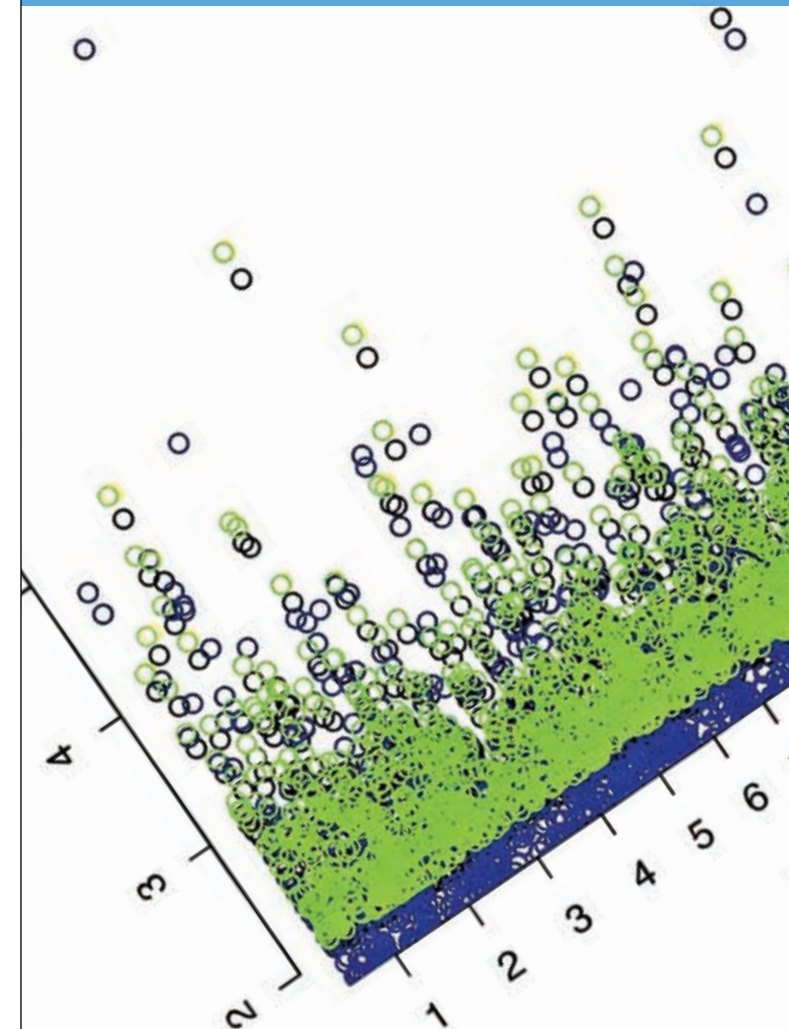
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The Department of Quantitative Health Sciences

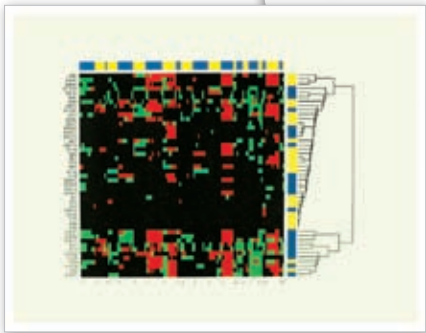
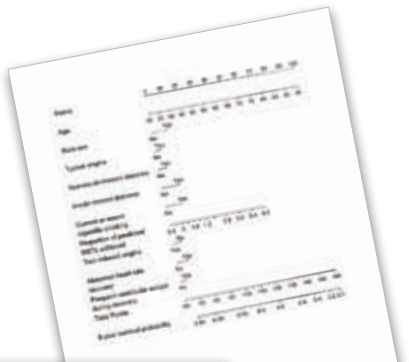
OUR GOAL: YOUR RESEARCH SUCCESS



Our Goal: Your Research Success

The Department of Quantitative Health Sciences has expertise in all aspects of clinical research. From study design to statistical analysis to preparing funding applications, we will help you and your department achieve sound scientific results from your research project in a timely manner.

Each year, we co-author hundreds of publications and receive millions of dollars in external funding. We have the knowledge and skills to partner with each Cleveland Clinic Institute.



QHS: An Excellent Resource for You!

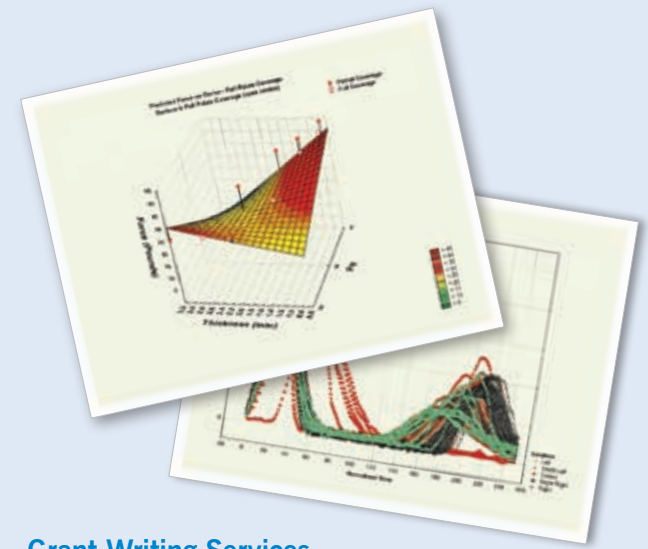
Cleveland Clinic has its own team of biostatisticians, epidemiologists, outcomes researchers, database developers and programmers in the Department of Quantitative Health Sciences. Our pledge is to be better, faster, and/or less expensive than any research group that operates outside Cleveland Clinic.

Here are just a few areas the department specializes in:

- Clinical Trial Design
- Biostatistics
- Epidemiology
- Statistical Genetics
- Outcomes Research
- Quality-of-life Assessment
- Database Development

The Department is available to all Cleveland Clinic physicians, researchers, and support staff on a pay-as-you-go or dedicated-FTE fee basis.

Do you need help training staff for an upcoming research project? We will teach your residents, fellows, medical students and support team about conducting clinical studies, efficient data collecting methods, and other important research skills.



Grant Writing Services

We have extensive expertise in grant writing and can help investigators prepare well-written grants that can increase the probability of funding. Members of the Department of Quantitative Health Sciences work on many NIH and industry-sponsored studies. Our success stories include:

- \$1.3 million from AstraZeneca International for a pilot study on diabetes patients.
- \$1.8 million from the Department of Defense to study the eradication of breast cancer brain metastasis.
- \$10 million from the State of Ohio to investigate new imaging tests to detect early lung cancer.
- \$10 million from National Institutes of Health to study hemodialysis.
- \$12 million from National Institutes of Health to study chronic kidney disease in African Americans.

“They took the time to learn about the underlying issues related to our research, and came up with innovative approaches to analyze data and plan studies.”

“They consistently met deadlines with enthusiasm, had thoughtful suggestions and designed the analysis for a recently funded U01 to investigate the impact of respiratory viral triggers of alloimmunity and autoimmunity in pediatric lung transplantation.”

“Their work on transplant nomograms was nothing short of excellent. I could not keep up with their rapid turnaround times. The quality of their work was excellent and professionally impeccable.”