

What We Do

The Department of Quantitative Health Sciences comprises over 90 members in four sections and an informatics core. Each section 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 small and large 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. We can help you with a variety of genetic studies, including gene expression, genome-wide association, eQTL, integrated omic and next-generation sequencing studies.
- **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 services in:

- Grant application development
- Sample size estimation
- Clinical study design
- Data collection methods
- Secure database development and maintenance
- Use of Electronic Medical Record data in research
- Retrieval and analysis of EPIC data
- Biostatistical analysis
- Outcomes research
- Prediction models and software
- Cost-effectiveness analysis and decision analysis
- Comparative Effectiveness Research (CER)
- Collaboration in the writing of scientific articles
- Federally-regulated clinical research studies
- Educational and training tutorials

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

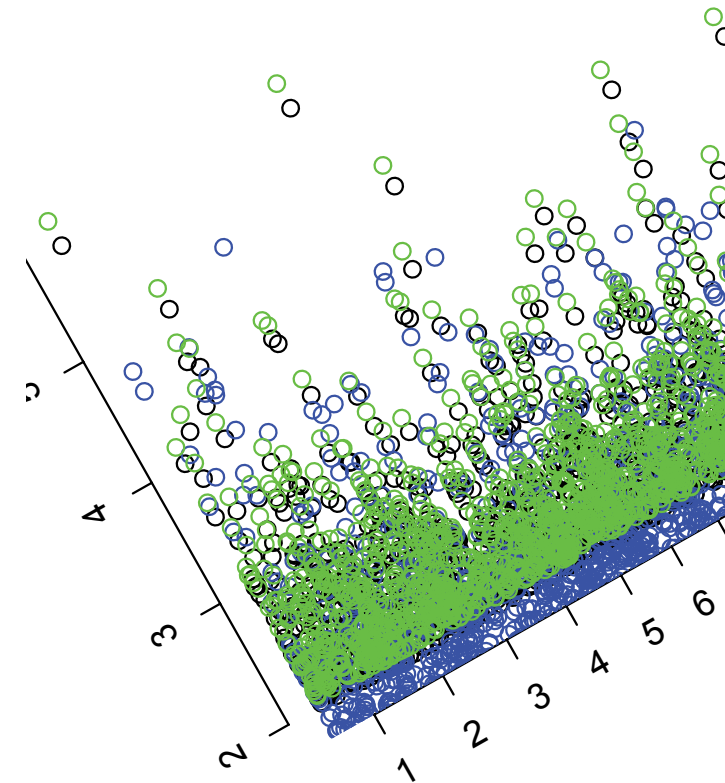


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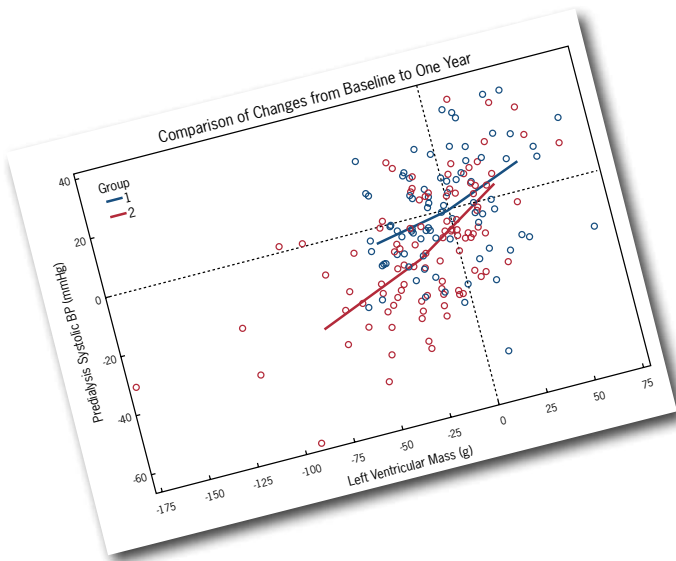
OUR GOAL: YOUR RESEARCH SUCCESS



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.



"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."

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 of the 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
- Regulated Studies

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.

"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."

Grant Development

We provide free support to investigators to assist in the design of studies and the preparation of 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:

- \$1.2 million from the NIH to develop a web-based risk calculator system.
- \$1.3 million from AstraZeneca International for a pilot study on diabetes patients.
- \$10 million from the State of Ohio to investigate new imaging tests to detect early lung cancer.
- \$15 million from the NIH to study hemodialysis dose and access.
- \$12 million from the NIH to study chronic kidney disease in African Americans.

"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."