



UNIVERSITY OF HAWAII
JOHN A. BURNS SCHOOL OF MEDICINE

Department of Quantitative Health Sciences



Research, Research Support & Education at DQHS

Department of Quantitative Health Sciences

Introduction to Research Opportunities for Medical Students

August 26, 2022

Biostatistics, Bioinformatics, & Healthcare Data Analytics

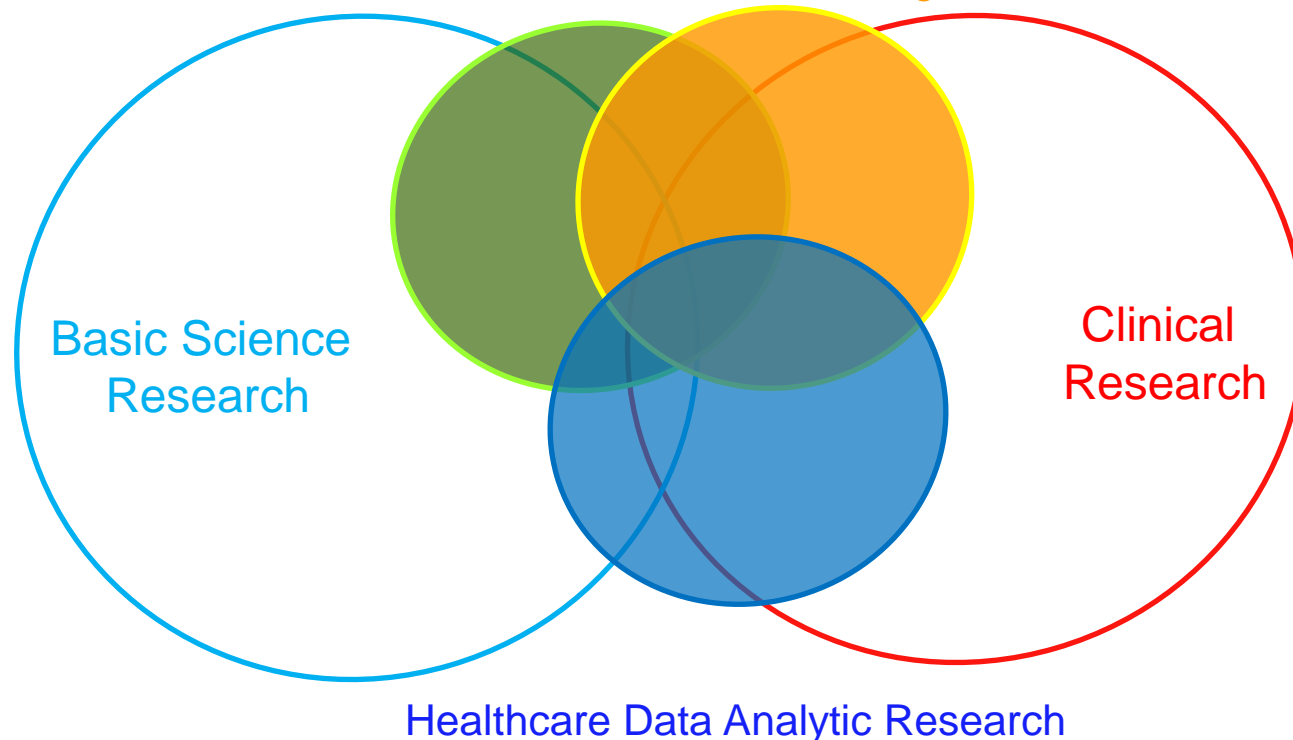
DQHS serves as the quantitative health sciences specialized cores to several UH and JABSOM infrastructure grants, e.g., U54 Ola HAWAII, U54 PIKO, P20 INBRE.

Department Faculty Research Interest:

<https://qhs.jabsom.hawaii.edu/about-us/faculty-staff/faculty/>

Bioinformatics Methodologic and Collaborative Research

Biostatistical Methodologic and Collaborative Research



No-Charge Biostatistics Consultation Clinic for Medical Trainees

Criteria & Requirements:

- *The JABSOM medical trainee must be the research project's Principal Investigator and will be the lead author of a subsequent publication*
- Acknowledging the Barry & Virginia Weinman endowment (Dean's support) & U54 Ola HAWAII grant (Biostatistics Core support) in all presentations/publications

Support Details:

- To develop scholarship and advance careers
- Zoom sessions, scheduled through online calendar:
<https://qhs.jabsom.hawaii.edu/biostatistics-core/consulting/>
- Biostatistics Core faculty and staff, with assistance from MSQHCR graduate student consultants (through their QHS 576 Biostatistical Consulting Practicum Course)
- Topics: study design, feasibility discussion, sample size determination, database development, data analysis advice, and preparation of the tables/figures and statistics section for presentation/manuscript; for selected projects, which have mutually agreed upon research design and data quality, limited additional analytic support will be provided on a first-come-first-served basis

Strengthened UME Quantitative Research Education

Starting in 2020:

- Three one-hour Biostatistics/Research Design lectures in MD1
- An one-hour biostatistics journal club session each in MD2, MD3, MD4, and MD
 - ✓ Selected clinical papers matching the disease covered in the unit
 - ✓ Cover and review key statistical topics in a sequential order.

Selected DQHS Courses, available through both UHM and UH Outreach College:

- BIOM 640 Introduction to Clinical Research (3 credits)
- BIOM 645 Clinical Protocol Development (3 credits)
- QHS 401 Mathematic Preparation for Quantitative Health Sciences (3 credits)
- QHS 600 Biostatistics Concepts for Clinical Researchers (3 credits)
- QHS 601 Fundamentals of Biostatistics (3 credits)
- QHS 602 Generalized Linear Models (3 credits)
- QHS 605 Data Management and Visualization for Health Sciences (3 credits)
- QHS 610 Bioinformatics I (3 credits)
- QHS 611 Bioinformatics II (3 credits)
- QHS 620 Introduction to Clinical Trials (2 credits)
- QHS 621 Design and Analysis of Clinical Trials (2 credits)
- QHS 650 Secondary Data Analysis (3 credits)

Graduate Certificate in Clinical Research

Department of Quantitative Health Sciences
John A. Burns School of Medicine



Application Deadline: May 30

ABOUT THE PROGRAM



15 graduate credits
in two semesters
or at your own pace



Tuition Costs:
\$650 per credit hour for HI residents
\$1,402 per credit hour for non-residents



Ideal for medical trainees,
gap-year students, and
health professionals

KNOWLEDGE/SKILLS

- ♦ Clinical research and trial design
- ♦ Statistical data analysis
- ♦ Clinical research protocol development
- ♦ Ethical conduct of clinical research

REQUIRED COURSES

- ♦ BIOM 640 (3 credits)
Intro to Clinical Research
- ♦ QHS 601 (3 credits)
Biomedical Statistics I
- ♦ BIOM 660 (2 credits)
Mentored Capstone
Research Practicum
- ♦ 7 credits of elective courses

POTENTIAL CAREERS

- ♦ Physician Researcher
- ♦ Clinical Research Coordinator
- ♦ Clinical Trials Manager
- ♦ Regulatory Associate
- ♦ Research Study Monitor

15 credits Graduate Certificate in Clinical Research

34 credits MS Graduate Program in Quantitative Health & Clinical Research:

- Clinical Research Track
- Quantitative Health Sciences Track

Website:

qhs.jabsom.hawaii.edu/education

JABSOM Dean's Certificate of Distinction in Research:

<https://hslib.jabsom.hawaii.edu/cod/>



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