



**Charles R. Drew University of
Medicine and Science
Epidemiology and Biostatistics**



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About AXIS

The vision of Charles R. Drew University of Medicine and Science is to be a leading national resource for conducting clinical and translational research that produces high-quality, cost effective and culturally relevant solutions that improve health and wellness in minority and poor populations. Its translational research center, **Accelerating eXcellence In Science (AXIS)**, creates synergy in research teams and between investigators and the community. AXIS houses experienced and dedicated leadership, a myriad of clinical resources and excellent research consultation services.

**Charles R. Drew University of
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About CDU

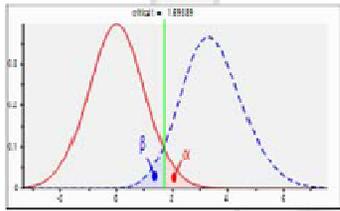
- Charles R. Drew University of Medicine and Science (CDU) focuses on developing healthcare leaders uniquely poised to provide high-quality medical care and transform the health of underserved communities.
- Founded in the 1960s, CDU is named in honor of Charles R. Drew, a brilliant African-American physician recognized for his research in blood transfusions and preservation.
- CDU is the nation's only co-designated *Historically Black Graduate Institution* and *Hispanic Serving Health Professions School*.
- CDU established the *Mervyn M. Dymally School of Nursing*, the first in the nation dedicated to addressing health inequities.
- CDU also creates tomorrow's health professionals through its K-12 Saturday Science Academy Program.
- Visit CDU online at www.cdrewu.edu.

**Epidemiology and
Biostatistics**

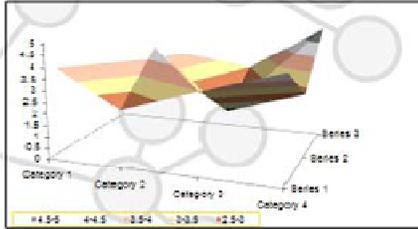


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**Visit us online:
<http://axis.cdrewu.edu>**



$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$$



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About Epidemiology and Biostatistics

The overarching goal of the Epidemiology and Biostatistics Function is to foster collaborative, interdisciplinary research and apply novel research strategies to improve health outcomes and reduce health disparities among vulnerable populations and underserved communities.

Our Vision

The Epidemiology and Biostatistics function's vision is to be nationally recognized as one of the top programs in the US with superior research-related services, high level training in research addressing health disparities, and ethical values.

Our Mission

Provide high quality, research-related services and training with an emphasis on investigative methodology for clinical and translational research related to health disparities, taking into account cultural and community values.

Our Objectives

- To provide comprehensive consultation and education/training in clinical and translational research methods and biostatistics to University researchers
- To enhance CDU's capacity to perform parallel secondary database research.

Our Services

- Proposal/protocol review and assistance in development
- Study designs
- Interpretation of statistical and epidemiological results from computer output
- Survey design and implementation
- Sample size calculations and power analysis
- Randomization schema
- Data entry and data checking
- Data management planning
- Statistical analysis planning
- Epidemiological and biostatistical data analysis
- Instrument validation
- Secondary data analyses
- Development and review of tables and figures
- Assistance in preparation of scientific presentation and manuscript
- Epidemiological, biostatistical, and programming services for large databases
- Help with epidemiology and biostatistics software
- DSMB Coordination, Interim Analysis and Safety Monitoring
- Education/Training (group and individualized trainings)

Our Resources include:

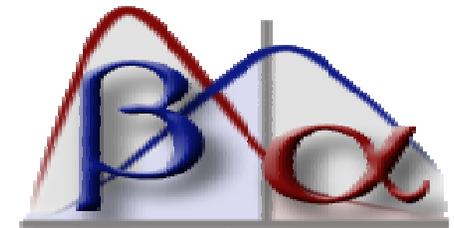
Consultations, Large databases archive, Lectures, Workshops & Courses

Our Clients include:

Charles R. Drew University, UCLA and Harbor UCLA, RAND, Cedar Sinai, RCMI Translational Research Network (RTRN) & Los Angeles County

Sample List of Projects

- Chronic Kidney Disease and Mortality
- Allostatic Load and Racial Disparities in Mortality
- Metabolic syndrome and mortality
- Association of blood pressure and left ventricular hypertrophy (LVH)
- Clinical, demographic, and institutional risk factors for postpartum hemorrhage mortality in California
- Clinical determinants of health-related quality of life among opioid-dependent patients
- Zip code level counts for diagnoses and procedures related to unstable angina and myocardial infarction
- Diabetes and depression related to hearing impairment in African-Americans and Hispanic people in the U.S.



Sample List of Large Databases

(Over 50 Databases Available)

- California Office of Statewide Health Planning and Development (OSHPD) data (Hospital Discharge Data)
- National Health and Nutrition Examination Survey (NHANES) I, II, III, & 1999-2006
- 1992 NHANES I Epidemiologic Follow-up Study (NHEFS)
- The Surveillance, Epidemiology, and End Results (SEER) for Cancer