CCTS Biostatistics, Epidemiology & Research Design (BERD)

Robert Oster PhD, David Redden PhD, and Gerald McGwin, PhD Co-Directors

University of Alabama at Birmingham

MISSION

The CCTS **BERD** provides consultation, guidance, and expertise for study design, data management, and statistical analysis of research at UAB and throughout the UAB CCTS Partner Network. The purpose of this Core is to gather methodological expertise as a single coordinated resource and match individual methodological skills and interests with study-specific research needs.

SPECIFIC AIMS

1. To provide methodological collaboration in the design of a wide-array of study types (Pilot, Observational, Randomized) and funding mechanisms (Career Development (K), R series, Program Projects).
2. To provide methodological consultation on the design of databases, database quality control, and the statistical analysis of collected data
3. To provide continuing education in methodology approaches to the CCTS research base through methodology seminars, workshops, mini-courses, and on-line courses/material.
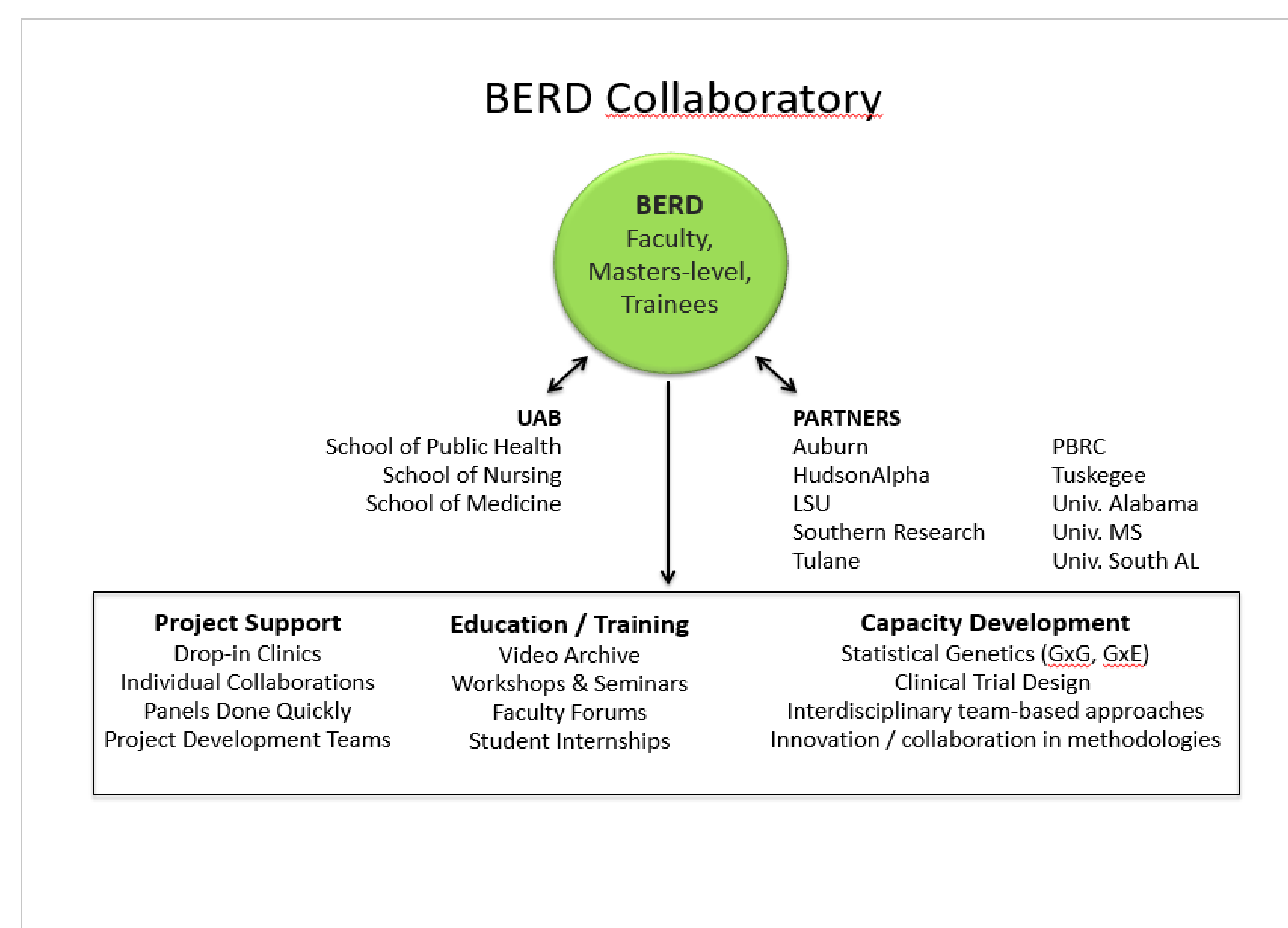
DROP-IN CLINICS OFFERING BIOSTATISTICS EXPERTISE FOR ANYONE

- ✓ Study Design
- ✓ Sample Size and Power Calculations
- ✓ Data Analysis
- ✓ Data Management
- ✓ Display of Data and Results
- ✓ Interpretation of Results
- ✓ Statistical Software

Mondays 10am to 2pm
in The Edge of Chaos

Wednesdays 11:30am-1pm
PCAMS Building, 1924 7th Ave South

Other times available by appointment
(ccts@uab.edu)

BERD Collaboratory

BERD
Faculty,
Masters-level,
Trainees

UAB	**PARTNERS**	
School of Public Health	Auburn	PBRC
School of Nursing	HudsonAlpha	Tuskegee
School of Medicine	LSU	Univ. Alabama
	Southern Research	Univ. MS
	Tulane	Univ. South AL

Project Support	**Education / Training**	**Capacity Development**
Drop-in Clinics	Video Archive	Statistical Genetics (GxG, GxE)
Individual Collaborations	Workshops & Seminars	Clinical Trial Design
Panels Done Quickly	Faculty Forums	Interdisciplinary team-based approaches
Project Development Teams	Student Internships	Innovation / collaboration in methodologies

CCTS

Robert Oster, PhD Professor of Medicine. Dr. Oster has more than 20 years of experience in the design and analysis of clinical trials and medical and public health studies. He has been involved in the development and analysis of projects/grants in nutrition, diabetes, obesity, cancer, pediatric and adult pulmonology, nephrology and renal disease, and pathology. His statistical research interests include categorical data analysis, longitudinal data analysis, modern statistical computing methods, and clinical trials methodology.
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Peng Li, PhD Assistant Professor, Nursing. Dr. Li's research interests focus on the design and analysis of cluster randomized trials and large cohort studies. Dr. Li has broad collaborative research experience in study design and analysis, power/sample size calculations, data management, adaptive statistical methodologies. His scientific research areas are hypertension, liver cancer, rheumatology/osteoporosis, obesity/nutrition and child safety.
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David Redden, PhD Professor, School of Public Health. Dr. Redden has 22 years of collaborative experience in designing and analyzing clinical studies. He has been involved in the development and analysis of projects/grants in diabetes, obesity, tuberculosis, asthma, nutrition, rheumatology, and gerontology. His methodology research focuses on power calculations, analysis of group randomized small cluster trials, and regression methodology.
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Kimberly Martin, PhD Assistant Professor, Department of Epidemiology. Dr. Martin's expertise is cardiovascular and stroke epidemiology. She is involved in the development and analysis of projects in obstetrics/gynecology, urology, pediatrics, internal medicine, cardiovascular disease, and neurology. Her research focuses on individual, provider and community-level factors affecting health care quality for chronic disease management among minority populations.
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Paul A. MacLennan, PhD Associate Professor of Surgery and Associate Director of Transplant Analytics, Informatics & Quality. He has 18 years of collaborative experience that includes health disparities, healthcare utilization, injury and trauma, geriatrics, and cancer incidence. He has utilized local and national sources of primary and secondary data for cross-sectional, retrospective, prospective, and longitudinal study designs and data analyses. He has expertise in data management and data linkages and methods for addressing missing data.
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CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE

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