The **BIOSTATISTICS & ANALYSIS CORE** of the UAB CFAR provides statistical, epidemiological, health services research and bioinformatics support to investigators for the development of research proposals including data management and quality control with analyses.

This is accomplished by a collaborative team of investigators who provide input on research management, study design, and data analysis. The range of studies include pilot projects, clinical trials, and genetic and non-genetic studies focusing on pathogenesis, prevention, and the new natural history of HIV infection in the treatment era. Projects encompass the fields of observational, behavioral, clinical and health services research, as well as health economic modeling, and causal modeling.

### History

**1994:** The Core was established under the leadership of Dr. Sen-jaw Soong, the initial Director.

**2008:** Dr. Soong stepped down as the Director. During the transition period Dr. David Allison and Dr. Gary Cutter were invited to lead the core.

**2009:** Dr. Gary Cutter was appointed as Director of the Core.

**2013:** The Core was expanded with establishment of three research sections:

1. Biostatistics and Statistical Genetics
2. Clinical and Population-based Epidemiological Research
3. Economic Evaluation

### Services

**SERVICES**

- Study proposal development and writing including study design and statistical analysis plan
- Sample size and power calculations
- Data collection, data entry and management with quality control
- Statistical analyses
- Manuscript writing with poster and oral presentations

**Expertise**

- Clinical research
- Observational studies (cohort, case-control, and other)
- Clinical trials (Phase I, II, III) design and conduct
- Longitudinal data analysis including GEE and mixed models
- Survival analysis
- Categorical data analysis including logistic regression
- Missing data imputation techniques
- Propensity score analysis and related methods
- Latent variable modeling
- Cost-effective analysis
- Simulation modeling
- Decision analysis
- Development of study questionnaires (data collection tools) and electronic data entry system

### Purpose

UAB Center for AIDS Research

Biostatistics & Analysis Core

**LEADERSHIP**

**Biostatistics and Statistical Genetics**

Andrew Westfall, MS

Ashutosh Tamhane, MD, PhD

**Clinical and Population-based Epidemiological Research**

Paul Muntner, PhD

Emily Levitan, ScD

**Economic Evaluation**

Stephen Mennemeyer, PhD

### Acknowledgement

**Acknowledgement:** CFAR Grant P30 AI027767

**Website:** www.uab.edu/medicine/cfar/core-facilities/biostatistics-analysis-core