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Overview of useful epidemiologic and statistical methods in the field of cell science and stem cell research

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Abstract

This presentation will provide an overview of various epidemiologic and statistical methods including causal inference, mix-effects repeated measures ANOVA, hierarchical multilevel models, Additive Models, Effect Modification Models, and Marginal Outcome Informational Odds Ratios. Applied examples and interpretation of results will be presented using SAS software.

Biography

Dr. Jimmy Efird holds a joint appointment as Associate Professor in the Department of Public Health and as Epidemiologist/Chief Statistician (Director, Shared Resources) in the Center for Health Disparities Research, Brody School of Medicine, East Carolina University (ECU). He also serves as Director of Epidemiology and Outcomes Research for the ECU Heart Institute and is an Adjunct Associate Profession in the Department of Cardiovascular Sciences. Dr. Efird received his Ph.D. from Stanford University (Epidemiology with a concentration in Biostatistics). His expertise includes statistical methods for assessing gene-environment interaction, clinical trial design, computing power and sample size for correlated samples, and multiplicity adjustment for confidence intervals. He has over 100 publications in scientific journals and technical proceedings. Additionally, Dr. Efird serves as a Senior Consultant for The NCRR-funded RCMI Translational Research Network Data and Technology Coordinating Center.