



Bahir Dar University
College of Medicine and Health Sciences
School of Public Health Seminar Series (SPHSS)
First Friday of Each Month
4:00pm-5:00pm, combined in person/Online Zoom meeting

Use and Misuses of Statistical methods in epidemiological and clinical trial studies

Date and Time: **May 6, 2022, 4:00pm-5:00pm** Ethiopian Time

Abstract

Statistics are the primary tools for assessing relationships and evaluating study questions. Unfortunately, these tools are often misused, either inadvertently because of ignorance or lack of planning, or conspicuously to achieve a specified result. Data abuses include the incorrect application of statistical tests, lack of transparency and disclosure about decisions that are made, incomplete or incorrect multivariate model building, or exclusion of outliers. Individually, each of these actions may completely invalidate a study, and often studies are victim to more than one offense. In this talk we will provide brief overview of principles of epidemiology and clinical trial research design including the development of analysis plan and a series of study specific checklists to prevent or mitigate misleading results.

Speaker Bio

Dr. Dawit Tadesse received his PhD in Statistics from Auburn University in the United States. Right after graduation from Auburn, he got a visiting assistant professor position at University of Cincinnati where he taught graduate and undergraduate statistics courses for 2 years. He then joined Cincinnati Children's Hospital Medical Center (CCHMC) as a Biostatistician. He collaborated with several divisions (like pulmonary medicine, emergency medicine, pharmacy etc.) across CCHMC in the roles of statistical consultation, manuscript, and report preparation. He has worked on observational, longitudinal data and has applied time series, mixed models, and survival analysis. He has published numerous manuscripts related to public health. Since October 2021, Dr. Dawit has joined WCG Statistics collaborative, Inc. as a Biostatistician. His current roles include statistical consultation, performing statistical analysis in clinical trials assessing treatment in a variety of diseases including age-related macular degeneration, Alzheimer's disease. In this role, he manages biostatistical projects including finalizing reports for DMC review. Dr. Dawit enjoys statistical programming. He is proficient in SAS, R and has working knowledge of Python.

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