

THE UNIVERSITY OF OKLAHOMA



Biostatistics, Epidemiology, and Research Design (BERD) Core

***Hudson College of Public Health
Department of Biostatistics and Epidemiology
OSCTR BERD Clinical Epidemiology Unit***

**PREDICTION MODELS AND RISK SCORE
DEVELOPMENT IN CLINICAL RESEARCH**

AGENDA

Workshop Faculty:

Tabitha Garwe, PhD, MPH

Associate Professor of Epidemiology

Co-Director, Clinical Epidemiology Unit, OSCTR BERD

Director, Surgical Outcomes Research, OUHSC Department of Surgery

University of Oklahoma Health Sciences Center

Tabitha-garwe@ouhsc.edu

Schedule:

Dates: Friday 10/29

Time: 12:00 – 2:00 PM

Location: Hudson College of Public Health Auditorium (CHB 150) and Virtual through Zoom. Online registration required. Please register here: [Workshop Registration](#) if you plan to attend.

Format:

The format includes a didactic lecture and software demonstration. It is highly recommended that you bring a laptop loaded with the SAS software system for the demonstration. The session will be recorded and posted after the end of the workshop.

Course materials should be downloaded or printed for personal use prior to attendance from the following website.

[Website:](#)

Abstract and Topics:

Prediction models are developed to aid health care providers in estimating the individual probability or risk that a specific disease or condition is present (diagnostic models) or that a specific event will occur in the future (prognostic models), to inform their decision making (modified from the TRIPOD Statement, Collins et al., 2015).

This short seminar/workshop will provide a brief overview of clinical prediction models and risk score development. Concepts to be covered include model development, assessment of predictive accuracy, model calibration, internal validation, generation of a risk score using the Framingham Methodology and external validation. An example will be used to illustrate various concepts using the SAS statistical software.

Pre-requisite requirements:

Attendees are expected to have completed at least one introductory undergraduate or graduate course in biostatistics or statistics.

Materials for the Session:

Background material, PowerPoint slides and sample SAS code will be provided prior to session.

Sponsor Acknowledgement:

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Workshop Faculty Biographical Summary:

Dr. Tabitha Garwe is an Associate Professor of Epidemiology at OUHSC and the Co-director of the Biostatistics, Epidemiology, and Research Design Core of the Oklahoma Shared Clinical and Translational Resources (OSCTR), Clinical Epidemiology Unit. She is also the Director of Surgical Outcomes Research in the Department of Surgery (OUHSC). Prior to joining OUHSC, Dr. Garwe worked as the Lead Trauma Epidemiologist at the Oklahoma State Department of Health. Dr. Garwe teaches clinical epidemiology and other epidemiology methods classes in the Department of Biostatistics and Epidemiology. Her independent research interests include trauma systems and outcomes.