## Current Methods for Evaluating Prediction Performance of Biomarkers and Tests

## Instructor

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## Abstract

This course will describe and critique methods for evaluating the performance of markers to predict risk of a current or future clinical outcome. Examples from cancer, cardiovascular disease and kidney injury research will be presented. Course content will include:

- a. Four criteria for evaluating a risk model: calibration, benefit for decision making, accurate classification, risk stratification
- b. Comparing models
- c. Comparing baseline and expanded models
- d. Hypothesis testing and confidence interval construction
- e. Risk reclassification analysis strategies
- f. Relationships and differences with assessing discrimination
- g. Software