



# Predictive models in clinical research

by Prof. Dario Gregori

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Prediction models are increasingly relevant in the medical field. We witness an increase in biological knowledge on potential predictors of clinical outcomes, e.g. on biomarkers; increasing access to large data sets; and the popularity of Machine Learning methods. Applications for prediction models include targeted early detection of disease and individualized decision-making for diagnostic testing and treatment. It is therefore of crucial importance that such models are developed and tested appropriately. The seminar will introduce key components of prognostic models by reporting an overview of widely applied statistical and machine learning techniques in clinical research.

An overview of predictive models and machine learning applications in clinical trials will also be provided by:

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