DEADLINE for REGISTRATION is 15 May 2015

FEE
Registration fee will be inclusive of teaching material, bus transfer, hotel accommodation, meals, entrance to the EXPO2015 site (11 September).

General participant: 1300 €
PhD student: 1000 €
SIB/SISMEC member 1200 €

REGISTRATION CANCELLATION
It must be submitted to the secretariat by June 15 to receive a refund, 50 Euro will be retained as processing fee. Refunds will not be granted after June 15.

HOW to PAY
By credit card only, after acceptance. Please follow the information on the course webpage. http://www.summerschoolexpo2015.com/methods-dynamic-prediction.php

COORDINATORS
Maria Grazia Valsecchi
Laura Antolini
Center of Biostatistics for Clinical Epidemiology
Department of Health Sciences
University of Milano-Bicocca

SECRETARIAT
Simona Erba e-mail: statisticalps@unimib.it
Tel: +039.02.6448 8032
Fax: +039.02.6448 8262

OBJECTIVES of the COURSE
Prediction models play an important role in medicine to guide treatment decisions and to inform patients. The majority of prediction models in the medical literature enable to predict (disease-free) survival from diagnosis or start of treatment. But in clinical practice patients regularly return to the physician and it is important to provide updated predicted probabilities of survival, taking into account clinical events that may have occurred, and or longitudinal clinical measurements taken, between treatment start and the time of prediction. Such prediction models, to be used after start of treatment and taking into account time-dependent information, are called dynamic prediction models.

The course will consist of a mix of lectures and computer practicals.

The goals for the course are:
- to understand how to describe the data transition process between states by multistate models
- to understand how to develop and validate dynamic prediction models in clinical survival analysis
- to discuss how dynamic prediction probabilities can be obtained using traditional models and new ad hoc approaches developed in the last few years.
- to be able to use statistical software to analyse survival and event history data and to interpret the result of an analysis.

METHODS FOR DYNAMIC PREDICTION: MULTI-STATE MODELS AND LANDMARKING
Prof. Hein Putter
Prof. Hans Van Houwelingen
Leiden University Medical Center

07 – 10 September 2015
PONTE DI LEGNO – BRESCIA, ITALY

This course is part of the initiative: SUMMER SCHOOLS@EXPO

With the endorsement of
Società Italiana di Statistica Medica ed Epidemiologia Clinica
International Biometric Society
PROGRAM

06 SEPTEMBER 2015

19.30 Registration
20.00 Welcome Dinner

1ST DAY – 07 SEPTEMBER 2015

9.00:13.00 Review of standard methods for survival analysis, with emphasis on dynamic prediction; introduction to the data used in the tutorials
14.30:16.00 Measuring the predictive value of a Cox model
16.30:18.30 Tutorials

2ND DAY – 08 SEPTEMBER 2015

9.00:13.00 The proportional hazards assumption: mechanisms explaining violation, time-varying coefficients, robustness of the Cox model
14.30:16.00 Stopped Cox regression versus direct regression methods
16.30:18.30 Tutorials

3RD DAY – 09 SEPTEMBER 2015

8.30:12.30 Competing risks and multi-state models: concepts, estimation and dynamic prediction

4TH DAY – 10 SEPTEMBER 2015

9.00:12.30 Dynamic prediction using time-dependent information, based on landmarking
14.00:16.00 Dynamic prediction models based on genomic data
16.30:18.30 Tutorials
19.30 Course closure – Social Dinner

Course Material


TUTORS

P. Rebora, D. Bernasconi, A. Lucenti
Center of Biostatistics for Clinical Epidemiology
Department of Health Sciences
University of Milano-Bicocca

Prerequisites are specified in the course web page. A personal laptop with the most recent copy of R installed is required for tutorials.

Participants will have the possibility to:
- Enjoy summer sports in the surrounding
- Spend time for individual study during the half day break.
- Visit to the EXPO2015 site in Milan will be organized for those interested on Friday, September 11, 2015

COURSE VENUE

Hotel Mirella ****
Via Roma 21, Ponte di Legno (BS)
Tel: +39.0364.900500 - Fax: +39.0364.900530
http://www.hotelmirella.it

COURSE WEB PAGE

www.statmed.medicina.unimib.it/statisticalps2015/statisticalps.htm