Course

An introduction to population-based cancer survival modelling

Porto (Portugal), 23-25 May 2012

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Objectives

- Define the concept of net survival and briefly review the current approaches to estimate population-based cancer survival
- Review the multivariable excess hazard models, then focus on the flexible cumulative excess hazard model (extension of the Royston-Parmar model)
- Define the concept of population 'cure', review the estimation of 'cure' fraction and the 'cure' models
- Describe the missing data issues for population-based cancer survival analysis and introduce approaches for handling missing data (multiple imputation, inverse probability weighting, sensitivity)

Information

Fee: Students (former and current) and UP staff - €150; persons external of UP - €200

Language: English

Participants: Statisticians ,Mathematicians, Epidemiologists, PH Researchers/Professionals

Prerequisites: Familiarity with the basic general principles of survival analysis and the associated statistical theory will be assumed.

Place: Instituto de Saúde Pública da Universidade do Porto - Rua das Taipas, nº 135, Porto (Portugal)

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Online application: The registration process is done at **http://www.epidemiologia.med.up.pt**

Prazo de inscrição: 16th May 2012

PROGRAMME

WEDNESDAY , 23 MAY

9.30-11.00	•	Survival/net survival, relative survival, cause-specific survival, life tables, Ederer-I/Ederer-II/Hakulinen/Pohar-Perme
	Break	
11.30-13.00	•	Practical on cancer survival and life tables
	Lunch	
14.00-15.30	•	Excess hazard, multivariable excess hazard models, Royston-Parmar model, splines, derived outputs
	Break	
16.00-17.30	•	Practical on excess hazard and multivariable excess hazard modelling

THURSDAY, 24 MAY

9.30-11.00	•	Cure and cure models
	Break	
11.30-13.00	•	Practical on cure
	Break	
14.00-15.30	•	Missing data issues, missingness mechanisms, multiple imputation
	Break	
16.00-17.30	•	Practical on multiple imputation

FRIDAY, 25 MAY

9.30-11.00	•	Missing data and IPW; MNAR and sensitivity analyses
	Break	
11.30-13.00	•	Real-life results