

Programme Overview

Sunday 21 July 2024 | Pre-Conference Courses

	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4
09:00-10:30	PCC1 Causal Inference in Clinical Trials Session 1: Pre-specifying the estimand based on counterfactual outcomes	PCC2 Dynamic Predictions for Longitudinal and Time-to-Event Outcomes, with Applications in R Session 1: Introduction of the framework of joint models for longitudinal and time-to-event data	PCC3 ROC Analysis for Classification and Prediction in Practice Session 1: Fundamental concepts and metrics in the evaluation of diagnostic and predictive accuracy	PCC4 Adverse Events with Survival Time Outcome: Clinical Questions and Methods for Statistical Analysis based on Hazard Functions Session 1: Adverse events as first event, requiring a competing risk/multistate framework, with a risk benefit interpretation
10:30-11:00	Break	Break	Break	Break
11:00-12:30	PCC1 Causal Inference in Clinical Trials Session 2: Causal inference methods for treatment-policy estimand: Covariate adjustment	PCC2 Dynamic Predictions for Longitudinal and Time-to-Event Outcomes, with Applications in R Session 2: Joint models to estimate and evaluate dynamic risk predictions for the settings of one event and competing risks	PCC3 ROC Analysis for Classification and Prediction in Practice Session 2: Empirical and model-based estimation of an ROC curve/ Inferential procedures for a single ROC curve and its summary measures	PCC4 Adverse Events with Survival Time Outcome: Clinical Questions and Methods for Statistical Analysis based on Hazard Functions Session 2: Direct impact of the treatment in the risk of developing the adverse event, requiring a latent time variable framework, with an interpretation on causality
12:30-13:30	Lunch break	Lunch break	Lunch break	Break
13:30-15:00	PCC1 Causal Inference in Clinical Trials Session 3: Introduction to DAGs	PCC2 Dynamic Predictions for Longitudinal and Time-to-Event Outcomes, with Applications in R Session 3: Dynamic predictions for one longitudinal and one event outcome + JMbays2 practical to fit joint models and estimate risk predictions (Lab1)	PCC3 ROC Analysis for Classification and Prediction in Practice Session 3: Generalised linear modelling for ROC curves, optimal prediction with combinations of biomarkers	PCC5 Statistical and Practical Aspects of the Design and Analysis of Multi-Arm Multi-Stage (MAMS) Platform Trials Session 1: Introduction to MAMS platform designs
15:00-15:30	Break	Break	Break	Break
15:30-17:00	PCC1 Causal Inference in Clinical Trials Session 4: Causal inference for the hypothetical estimand: Time-varying confounding	PCC2 Dynamic Predictions for Longitudinal and Time-to-Event Outcomes, with Applications in R Session 4: Dynamic predictions for multiple longitudinal outcomes and competing risks + JMbays2 practical to fit joint models and estimate risk predictions (Lab2)	PCC3 ROC Analysis for Classification and Prediction in Practice Session 4: Multiple-class ROC analysis	PCC5 Statistical and Practical Aspects of the Design and Analysis of Multi-Arm Multi-Stage (MAMS) Platform Trials Session 2: Implementation of the statistical aspects of MAMS - Guidelines on the design and analysis of MAMS
20:00~	STUDENTS' GATHERING			

Monday 22 July 2024 | Main Conference – Day 1

	PLENARY	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4
09:00-10:30	KEYNOTE SPEAKER Sir David Spiegelhalter Trustworthy communication of statistical evidence: What is it, and how we can get more of it				
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:30	IS01 Causal Inference and Machine Learning	OCS01 Clinical Trials I	OCS02 Joint Models I	OCS03 Methods for High Dimensional Data	OCS04 Statistical Analysis for Complex Data Structures
12:30-13:30	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
13:30-15:00	IS02 Recent Advances in Survival Analysis with Complex Data Structures	OCS05 Clinical Trials II	OCS06 Meta-analysis	OCS07 Statistics in Epidemiology I	OCS08 Multiple Testing / Miscellaneous
15:00-15:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
15:30-17:00	IS03 Innovative Complex Adaptive Designs for Confirmatory Clinical Trials with Multiple Primary Research Questions	OCS09 Joint Models II	OCS10 Survival Analysis I	OCS11 Causal Inference I	OCS12 Prediction and Prognostic Models I
20:00~	WELCOME RECEPTION @ Porto Palace Hotel (outside venue)				

Tuesday 23 July 2024 | Main Conference – Day 2

	PLENARY	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4
09:00-10:30	IS04 Optimal Individualised Treatment Rules	OCS13 Longitudinal Data Analysis I	OCS14 Artificial Intelligence and Machine Learning	OCS15 Integrative Data Analysis	OCS16 Diagnostics
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:30	IS05 Machine Learning Algorithms for Survival Analysis	OCS17 Causal Inference II	OCS18 Using Statistics to Improve Clinical Trials	OCS19 Imperfect Data	OCS20 Clinical Trials III
12:30-13:30	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
13:30~	FREE AFTERNOON CONFERENCE EXCURSIONS				

Wednesday 24 July 2024 | Main Conference – Day 3

	PLENARY	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4
09:00-10:30	IS06 Bayesian Methods in Clinical Development	OCS21 Joint Models III	OCS22 Clinical Trials IV	OCS23 Competing Risks I	OCS24 Survival Analysis II
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:00	PRESIDENT'S SPEAKER Prof. Chris Holmes Biostatistics in the AI Era				
12:00-13:30	ISCB Annual General Meeting				
13:30-14:00	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:00-15:30	IS07 Regulators' View of Randomised and Non-Randomised Evidence in Drug Development	OCS25 Longitudinal Data Analysis II	OCS26 Prediction and Prognostic Models II	OCS27 Competing Risks II	OCS28 Electronic Health Data
15:30-16:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
16:00-17:30	IS08 Combining Real-World Data and Randomised Clinical Trials	OCS29 Prediction and Prognostic Models III	OCS30 Survival Analysis III	OCS31 Clinical Trials V	OCS32 Statistics in Epidemiology II
20:00~	CONFERENCE DINNER				

Thursday 25 July 2024 | Mini-Symposia & Early Career Biostatisticians' Day

	PARALLEL 1	PARALLEL 2	PARALLEL 3
09:00-10:30	MS1: Beyond Conventional RCTs: Exploring Design Options and Modelling in Drug Development (Part I) <i>In collaboration with the ISCB SiRA SC</i>	MS2: STRENGTHENING Analytical Thinking for Observational Studies (STRATOS Initiative) – Recent Progress and Foci for the Future (Part I) <i>In collaboration with the STRATOS Steering Group</i>	EARLY CAREER BIOSTATISTICIANS' DAY (Part I) <i>Organised by the ISCB ECB SC</i>
10:30-11:00	Coffee break	Coffee break	Coffee break
11:00-12:30	MS1: Beyond Conventional RCTs: Exploring Design Options and Modelling in Drug Development (Part II) <i>In collaboration with the ISCB SiRA SC</i>	MS2: STRENGTHENING Analytical Thinking for Observational Studies (STRATOS Initiative) – Recent Progress and Foci for the Future (Part II) <i>In collaboration with the STRATOS Steering Group</i>	EARLY CAREER BIOSTATISTICIANS' DAY (Part II) <i>Organised by the ISCB ECB SC</i>