

Detailed Program

Risk Prediction, Communication and Perception (RiPCoP) in Health

June 13 - 15, 2023

www.ripcop.org

Tuesday, June 13 09:00 – 12:00 am

Short courses (parallel)

Nicholas Wald (University College London, UK)

Principles of screening

or

Ruth Pfeiffer, Mitchell Gail (National Cancer Institute, Bethesda, US)

Absolute risk: estimation, validation and applications

Tuesday, June 13 12:45 – 14:00 pm

Session 1: Cardiovascular disease risk prediction

12:45 Jacqueline Murphy (University of Oxford, UK)

Prediction of cardiovascular disease risk based on conventional and novel risk factors in a large cohort study of Chinese adults

13:00 Michael Pencina (Duke University, US)

Best practices for algorithmic/AI governance for health systems

13:30 Katarzyna Jozwiak (Brandenburg Medical School, Neuruppin, DE)

Risk prediction of the coronary heart disease in survivors of Hodgkin Lymphoma

13:45 David van Klaveren (Erasmus Medical Center, Rotterdam, NL)

Predictive modeling approaches to personalized medicine: a comparison of regression-based methods

Tuesday, June 13 14:10 – 15:25 pm

Session 2: Breast cancer risk prediction

14:10 Sander Roberti (Netherlands Cancer Institute, Amsterdam, NL & Brandenburg Medical School, Neuruppin, DE)

Predicting breast cancer among female Hodgkin lymphoma patients treated with modern radiotherapy using radiation dose distributions from historic treatments

14:25 Mitchell Gail (National Cancer Institute, Bethesda, US)

Tools for contralateral prophylactic mastectomy decision making

14:55 Antonis Antoniou (University of Cambridge, UK)

BOADICEA: a comprehensive breast and ovarian cancer risk prediction model incorporating genetic and non-genetic risk factors

Tuesday, June 13 15:35 – 16:50 pm

Session 3: Topics in risk communication

15:35 Sam Finnikin (University Birmingham, UK)

Applying risk scores to practice: The challenges and pitfalls

16:05 Claudia Schneider (University of Cambridge, UK)

Communicating empirical evidence: uncertainty, quality and trust

16:35 Christin Ellermann (Harding Center for Risk Literacy, University of Potsdam, DE)

Risk communication for disadvantaged groups

Wednesday, June 14 09:00 – 12:00 am

Short course

Ewout Steyerberg (Leiden University Medical Center, NL) & Ben van Calster (KU Leuven, BE)

Clinical prediction models: development and validation

Wednesday, June 14 12:45 – 14:15 pm

Session 4 (parallel): Risk model transfer and calibration

12:45 Donna Ankerst (Technical University Munich, DE)

Globally-accessible individual-tailored risk prediction

13:15 Ruth Pfeiffer (National Cancer Institute, Bethesda, US)

Accommodating population differences in model validation

13:45 Yuwei Wang (Netherlands Cancer Institute, Amsterdam, NL)

External validation and clinical utility assessment of the PREDICT breast cancer prognostic model in young patients with node-negative breast cancer

14:00 Sarah Booth (University of Leicester, UK)

Methods to account for improvements in survival when developing prognostic models

Wednesday, June 14 12:45 – 14:15 pm

Session 5 (parallel): Risk communication in prevention

12:45 Anika Hüsing (University Essen, DE)

Validation and improvement of 20 years prediction of cardiovascular events with information from cardiac imaging

13:00 Silke Schicktanz (University of Göttingen, DE)

The ethical challenge of dementia prediction

13:30 Nicholas Wald (University College London, UK)

How risk reduction should be expressed in primary prevention

14:00 Charlotte Dries (Harding Center for Risk Literacy, University of Potsdam, DE)

Communication of epistemic uncertainty around evidence and trust

Wednesday, June 14 14:25 – 15:55 pm

Session 6 (parallel): Prediction uncertainty, particularly COVID-19

14:25 Martin Wolkewitz (University of Freiburg, DE)

Predicting clinical outcomes of COVID-19 patients with routine data

14:55 Ewout Steyerberg (Leiden University Medical Center, NL)

Uncertainty in predictions

15:25 Derek Yves Hazard (University of Freiburg, DE)

Performance measures for the external validation of a multi-state prediction model for the clinical progression of hospitalized COVID-19 patients

15:40 Doranne Thomassen (Leiden University Medical Center, NL)

Effective sample size: expressing individual uncertainty in predictions

Wednesday, June 14 14:25 – 15:55 pm

Session 7 (parallel): On utility considerations in risk modelling

14:25 Nora Pashayan (University College London, UK)

Clinical utility of risk - stratification for cancer screening at the population level

14:55 Katie Kerr (University of Washington, USA)

Recalibrating risk models for maximum net benefit

15:25 Mary Ann Binuya (Netherlands Cancer Institute, Amsterdam, NL)

Factors influencing clinicians' utilization of risk prediction models: an interview study

15:40 Elena Sophia Doll (University of Heidelberg, DE)

Family decisions in genomic newborn screening: Subproject Medical Psychology in the NEW_LIVES project

Thursday, June 15 09:00 – 10:15 am

Session 8: Neurodegenerative disease risk prediction

09:00 Anja Schneider (German Center for Neurodegenerative Diseases, Bonn, DE)

Prediction of Alzheimer's disease

09:30 Ineke Bolt (Erasmus Medical Center, Rotterdam, NL)

Ethics of prediction in neurodegenerative diseases

10:00 Irmak Begum On (University of Munich, DE)

Prognostic prediction in relapsing-remitting multiple sclerosis – the way forward?

Thursday, June 15 10:25 – 11:20 am

Session 9: Aspects of statistical modelling

10:25 Ben van Calster (KU Leuven, BE)

Peak performance: does a simple statistician understand random forests for risk prediction?

10:50 Cornelia Fütterer (Technical University of Munich, DE)

Decreasing complexity of risk prediction models by introducing Discriminative Power Lasso

11:05 Carolin Malsch (University of Greifswald, DE)

How to statistically model biologic interactions

Thursday, June 15 11:30 – 12:30 pm

Session 10: Closing plenary session