

## **MEMTAB Leuven 2020 (virtual) – final program**

*See below for titles/authors/institution of each talk*

### **Day 1**

14.00 – 14.05: Opening and introduction (plenary)

14.05 – 15.05: Keynote session on Path statement (Kent, Steyerberg, van Klaveren)

15.05 – 15.35: linked contributed talks on predicting treatment response (Riley, Hawkins)

15.45 – 17.25: Parallel contributed sessions (2 parallel, 7 talks each, 15 min/talk except **last one**)

Prediction models session (Archer, Dhiman, Sperrin, Edlinger, Takada, Deeks, **Debray**)

Diagnostic tests session (Zapf, Vali, Wu, Savva, Cocco, **Frey**, **Yang**)

17.35 – 18.15: Invited talk Rudi Pauwels

### **Day 2**

14.00 – 15.00: Keynote Cecile Janssens

15.10 – 16.55: Parallel contributed sessions (2 parallel, 7 talks each, 15 min/talk)

Prediction models session (Upshaw, Sisk, Collins, Olsen, Watson, Whiting, **de Jong**)

Diagnostic tests session (Taylor-Phillips, Levis, Patel, Rubsamen, Vach, **Cerullo**, **Jenniskens**)

17.05 – 17.45: Invited talk Xiaoxuan Liu

17.45 – 17.55: Douglas Altman award and closing

Color legend:

**Name**: from the 'measurement error and variability' session

**Name**: from the 'checklist' session

### Talks in the two sessions on diagnostic tests

<b>Title</b>	<b>Authors</b>	<b>Institution</b>
Unblinded sample size re-estimation for diagnostic accuracy studies	Zapf, Hoyer	UMC Hamburg-Eppendorf
An alternative method for presenting risk of bias assessments in systematic review of accuracy studies	Vali, Lee, Bossuyt, Zafarmand	Amsterdam UMC
Major depression classification based on different diagnostic interviews: A synthesis of individual participant data meta-analyses	Wu, Levis, Ioannidis, Benedetti, Thombs	McGill
What makes a good cancer biomarker? - Developing a consensus	Savva, Ni, Hanna, Peters	Imperial College
Developing Target Product Profiles for medical tests: a methodology review	Cocco, Ayaz-Shah, Messenger, West, Shinkins	Leeds
Estimating diagnostic accuracy using expert panel probabilistic estimates of target disease status: a case study	Jenniskens, Naaktgeboren, Reitsma, Hooft, Moons, van Smeden, Oosterheert, Kaasjager, van Uffen	Utrecht
Nonparametric Limits of Agreement for small to moderate sample sizes - a simulation study	Frey, Petersen, Gerke	Odense
A framework to evaluate proposals to change a screening test	Taylor-Phillips, Ferrante di Ruffano, Geppert, Clarke, Hyde, Harris, Bossuyt, Deeks	Birmingham/Warwick
Bias in diagnostic accuracy estimates due to data-driven cutoff selection: a simulation study	Levis, Bhandari, Neupane, Thombs, Benedetti	Keele/McGill
Graphical Enhancements to Summary Receiver Operating Characteristic Plots to Facilitate Diagnostic Test Accuracy Meta-Analysis	Patel, Cooper, Freeman, Sutton	Birmingham/Leicester
Network meta-analysis of cerebrospinal fluid and blood biomarkers for the diagnosis of sporadic Creutzfeldt-Jakob disease	Rübsamen, Pape, Karch	Munster
Acceleration of diagnostic research: Is there a potential for seamless designs?	Vach, Bibiza-Freiwald, Gerke, Friede, Bossuyt, Zapf	Basel
Estimating Diagnostic Test Accuracy, Adjusting for Imperfection in the Reference Standard arising from Interrater Reliability	Cerullo, Sutton, Cooper, Quinn	Leicester
QUADAS-C: a tool for assessing risk of bias in comparative diagnostic accuracy studies	Yang, Whiting, Davenport, Deeks, Hyde, Mallett, Takwoingi, Leeflang	Amsterdam UMC

## Talks in the two sessions on prediction models

<b>Title</b>	<b>Authors</b>	<b>Institution</b>
Minimum sample size for external validation of a clinical prediction model with a continuous outcome	Archer, Snell, Ensor, Hudda, Collins, Riley	Keele
A systematic review of Oncology clinical prediction models developed using Machine Learning methods	Dhiman, Ma, Speich, Bullock, Andaur-Navarro, Kirtley, Van Calster, Riley, Moons, Collins	Oxford
Causal interpretation of clinical prediction models: When, why and how.	Sperrin, Lin, Jenkins, Peek	Manchester
Risk prediction with discrete ordinal outcomes; calibration and the impact of the proportional odds assumption	Edlinger, van Smeden, Alber, Steyerberg, Van Calster	Leuven
Estimation of unreported intercept of a prediction model using logistic regression modeling	Takada, van Lieshout, Hoogland, Schuit, Reitsma	Utrecht
AI phone apps for skin cancer: Reviewing the evidence, regulations, marketing, plus what happened next	Deeks, Dinnes, Freeman, Chuchu, Bayliss, Matin, Jain, Takwoingi, Walter, Williams	Birmingham
Adjusting for predictor misclassification in an individual participant data meta-analysis of observational studies	de Jong, Campbell, Jaenisch, Gustafson, Debray	Utrecht
Performance of Heart Failure Clinical Prediction Models: A Systematic External Validation Study	Upshaw, Nelson, Koethe, Park, McGinnes, Wessler, Van Calster, van Klaveren, Steyerberg, Kent	Tufts
Informative observation and Informative Presence in clinical prediction models: a review of methods	Sisk, Lin, Martin, Sperrin, Peek	Manchester
PENALISATION AND SHRINKAGE METHODS DO NOT GUARANTEE A RELIABLE PREDICTION MODEL	Collins, Riley	Oxford/Keele
Evaluating the performance of a polygenic risk score, for breast cancer risk stratification	Olsen, Fischer, Bossuyt, Goetghebeur	Amsterdam UMC
A Systematic Review of Prognostic Models for Recurrent Event Data	Watson, Tudur Smith, Bonnett	Liverpool
Prognostic model to clinical tool: the OxMIV tool for violence risk in psychiatry	Whiting DA	Oxford
TRIPOD-CLUSTER: reporting of prediction model studies in IPD-MA, EHR and other clustered datasets	Debray, Snell, van Calster, Collins, Riley, Reitsma, Altman, Moons	Utrecht

**Contributed talks in the keynote session on prediction models linked to Kent's keynote on PATH**

<b>Title</b>	<b>Authors</b>	<b>Institution</b>
Individual participant data meta-analysis to examine treatment-covariate interactions: statistical recommendations for conduct and planning	Riley, Debray, Fisher, Hattle, Marlin, Hoogland, Gueyffier, Staessen, Wang, Moons, Reitsma, Ensor	Keele
Test and Treat Superiority Plot: estimating threshold performance for developers of tests for treatment response	Hawkins, Briggs, Bouttell, Pomonomarev	Glasgow