

#### **VENUE**

Mitland Hotel Utrecht Ariënslaan 1 3573 PT Utrecht The Netherlands

#### **CONTACT**

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#### **ABSTRACTS**

https://diagnprognres.biomedcentral.com/articles/supplements/volume-2-supplement-1

# PROGRAM MONDAY 2 JULY 2018

09:00 - 09:30	Registration	
09:30 - 09:45	Welcome & Introduction K.G.M. Moons	
09:45 - 11:00	What Evidence is enough: the regulatory perspective Chairperson: L. Hooft Evidence for precision medicine: the IQWiG perspective Dr S. Lange, IQWiG From evidence to decision making Dr S. Byron, NICE Discussion - All	
11:00 - 11:45	Coffee Break	
	SESSION 1	
11:45 -12:30	Chairperson: J.B. Reitsma  Are Cochrane reviews of diagnostic test accuracy informing clinical guidelines?  J. Deeks  An interactive web application to aid diagnostic test accuracy meta-analysis.  S. Freeman  Quantifying how diagnostic test accuracy depends on threshold in a meta-analysis.  H. Jones  Correction for confounding in comparative accuracy reviews.  M. Leeflang  Biomarkers to detect active tuberculosis: a systematic review of the evidence, quality, and progress from 2010-2016.  E. MacLean	017 028 045 055
12:30 - 13:30	Lunch	

13:30 - 14:30	Test Accuracy	-
	Chairperson: S. Lord	
	The impact of outlier detection and removal on studies of biological variability (BV).  A. Sitch	080
	Dichotomization of the reference standard: Do we force expert panels into wrong decisions? K. Jenniskens	043
	Understanding the effects of conditional dependence in research studies involving imperfect diagnostic tests.  Z. Wang	093
	Pragmatic versus explanatory diagnostic accuracy studies.  P.M. Bossuyt	006
	Defining methods to evaluate IVDs for WHO's new Essential Diagnostics List.  J. Deeks	018

#### SESSION 2

	SESSION 2
	What Evidence is enough: the methodologist perspective
	Chairperson: K.G.M. Moons
14:30 - 15:15	Current Challenges and Opportunities in Clinical Prediction Modeling  Prof. F.E. Harrell Jr  Vanderbilt University School of Medicine  Discussion - All

## 15:30 - 16:15 **Break & Poster viewing**

Chairpersons: H. Burger, Ch. Hyde, Ch. Naaktgeboren, N. Skoetz

#### SESSION 3

16:15 - 17:00	Prediction Models I	
	Chairperson: E. Steyerberg	
	Empirical evidence on the impact of study characteristics on the performance of prognostic models: a meta-epidemiological study.  J. Damen	014
	Sample size formulae for developing a multivariable prediction model based on expected shrinkage.  R. Riley	075
	ROC curves and classification plots for clinical prediction models: from waste of ink towards useful insight.  J. Verbakel	091
	Incremental value of a new risk predictor: does the analysis method match the research question? E. Schuit	078

#### **SESSION 4**

17:00 - 17:55	The use of big data in the evaluation of tests, markers and models	
	Chairperson: J. Zamora	
	Impact of non-transportable diverse measurement of predictors on performance of prediction models: a measurement error perspective.  K. Luijken	059
	Harnessing individual participant trial data alongside electronic health records to evaluate the potential of precision medicine: application to type 2 diabetes drug therapy.  J. Dennis	021
	Practical recommendations for diagnostic accuracy studies in low prevalence situations. G.A. Holtman	035
	Estimating diagnostic test accuracy in the context of incomplete reporting across cutoff thresholds: A comparison of conventional meta-analysis of published data, two modelling approaches using published data, and individual participant data meta-analysis.  B. Levis	057
	Developing and updating prediction models in large clustered data sets. V.M.T. de Jong	047

# 17:55 Closing Remarks

K.G.M. Moons

## 19:30 Conference dinner & party

19:30 Drinks20:00 DinnerParty

#### Venue

Winkel van Sinkel Oudegracht 158 3511 AZ Utrecht

# **TUESDAY 3 JULY 2018**

09:00 - 10:15	What Evidence is enough: the clinical perspective	
	Chairperson: M. Leeflang	
	Diagnostic evaluation in global health: the example of tuberculosis Prof.dr. F.G.J. Cobelens, AMC	
	New laboratory tests: the quest for developing the evidence" – a clinical chemistry perspective Prof.dr. C.M. Cobbaert, LUMC  Discussion -All	
	DISCUSSION -AII	
10:15 - 11:00	Break & Poster viewing	
	Chairpersons: L. Askie, L. Peelen, I. Stegeman, R. Wolff	
	SESSION 5	
11:00 - 12:00	Precision Medicine	
	Chairperson: J. Deeks	
	Risk model based stratified patient management of cardiac chest pain versus uniform "non-invasive first" strategies: A summary of short term findings from the CE-MARC2 randomised trial. <i>C. Everett</i>	025
	Methodologies for evaluation of clinical tests in their early stages of development.  S. Graziadio	032
	Quantifying overdiagnosis. Lessons learnt from a health technology assessment of low dose CT screening for lung cancer.  Ch. Hyde	040
	Challenges in evaluating biomarker tests to determine eligibility for immunotherapy that has pantumour activity: one sized evaluation does not fit all <i>J. Morona</i>	064
	Markers for targeted therapy: evaluation and implementation of a prognostic genomic test for individualized decision-making in breast cancer <i>E.W. Steyerberg</i>	087
12:00 - 12:55	Prediction Models II	
	Chairperson: R. Riley	01/
	A framework for meta-analysis of prediction model studies with binary and time-to-event outcomes.  Th. Debray	016
	Tailoring prediction models for use in new settings: Individual participant data meta-analysis for ranking model recalibration methods.  J. Ensor	023
	Implementation and effects of risk-dependent obstetric care in the Netherlands: a clinical impact study (Expect Study II).  P. van Montfort	063
	Sample size for binary logistic prediction models: beyond events per variable criteria.  M. van Smeden	083
	Variation in the measurement of predictors affects the discriminative ability and transportability of a prediction model.  R. Pajouheshnia	072

	SESSION 6	
	What Evidence is enough: the manufacturers perspective	
	Chairperson: P. Bossuyt	
13:40 - 14:10	The New EU IVD regulation and the challenges for manufacturers and health care providers Dr. P. Kaars-Wiele, Abbott	
14:10 - 14:40	Breath Biopsy: Building a new diagnostic category  Dr. M. van der Schee, MD, PhD, CMO Owlstone Medical	
14:40 - 14:50	Discussion - All	
14.50-15.30	Break & Poster viewing	
	Chairpersons: A. van den Bruel, J. Ensor, J. in 't Hout, S. Mallett, S. Thangaratinam	
	SESSION 7	
15:30 - 16:30	Impact assessment tests, markers and models	
	Chairperson: H. Koffijberg	
	Understanding the adoption and use of new tests using Multi-Criteria Decision Analysis: a case	052
	study on point-of-care tests in Dutch general practices.	
	M.M.A. Kip	0.41
	Use of test accuracy study design labels in NICE's Diagnostic Guidance.  Ch. Hyde	041
	Challenges in the management of trials of medical tests.	061
	S. Mallett	
	Development of Medical Device Key Evidence Tool ('MEDKET'): an evidence-based framework to explain Medical Device (MD) success in selected European and US companies.  S. Manetti	062
	From test impact assessment to optimizing test impact: Maximizing colorectal screenig benefits	053
	using a meta-model including capacity-constraints.  H. Koffijberg	033
	SESSION 8	
16:30 - 17:15	Systematic reviews using aggregate or individual data II	
	Chairperson: M. Trivella  Network meta-analysis of diagnostic test accuracy studies allowing for multiple tests at multiple	071
	thresholds.  R.J. Owen	071
	Meta-analysis of diagnostic test accuracy studies with multiple cutoffs: The R package diagmeta. <i>G. Rücker</i>	076
	The effects of correlation between the test positive rate and prevalence on tailored meta-analysis <i>B. Willis</i>	095
	Evidence for reducing cancer specific mortality due to screening for breast cancer in Europe: a systematic review.  N. Zielonke	101

17:15 - 17:30 **Closing Remarks** 

K.G.M. Moons