17th Biennial European Conference

SPECIAL FOCUS ON
Personalized and Value-Based Healthcare

10 - 12 June 2018
Leiden, The Netherlands
SMDM 17th Biennial European Conference
Special Focus on Personalized and Value-Based Healthcare

For decades, SMDM members have sought to improve decision making, incorporating the strength of current evidence and methods to weigh risks and benefits from the perspectives of the individual, health system, and society. The 2018 conference special focus is on Personalized and Value-Based Health Care.

Our aim is to bring together high quality oral and poster presentations from health services research, psychology, epidemiology, health economics, and other scientific disciplines involved in the study of medical decision making. The combination of short courses, symposia and research presentations continues to foster lively debates and deeper understandings of how our scientific research can be applied to improve care.

Conference attendees will enjoy opportunities to interact with leaders in prediction and decision modelling, cost-effectiveness analysis, implementation research, shared decision making, and the other areas encompassed by medical decision making, as well as with policy makers at both the hospital and national level.

17th Biennial European Conference Planning Committee:

Conference Co-Chairs: Anne M. Stiggelbout, PhD (The Netherlands) and Ewout W. Steyerberg, PhD (The Netherlands)

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Short Course Co-Chairs: Hilary Bekker, PhD (United Kingdom) and Elske van den Akker-van Marle, PhD (The Netherlands)

Lusted Award Co-Chairs: Olga Kostopoulou, PhD, MSc (United Kingdom) and Torbjørn Wisløff, PhD (Norway)

Abstract Review Committee:

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Michael Cangelosi  Ryan O’Reilly  Yaozhu (Juliette) Chen
Michael Mejia  Ryan Suk  Yen Wei Lim
Michael Stefanek  Scott B. Cantor  Yew Kong Lee
Michal Horny  Sean Gavan  Yookyung Christy Choi
Mihaela Georgieva  Shola Adeyemi  Yun Jiang
Miroslav Sirota  Siddharth Karanth  Zafar Zafari
Nelangi Pinto  Sridharan Kamalakannan  Zugui Zhang

Going Green
SMDM is committed to making the European Conference environmentally friendly. We encourage all attendees to join in this effort by being aware of opportunities to minimize our mutual carbon footprint.

Conference Language
Please note that all sessions of the SMDM European Conference will be conducted in English.

Attendee Lounge
An attendee lounge is available at both venues. Please visit the registration desk for more information and room assignments.

About SMDM
The Society for Medical Decision Making’s mission is to improve health outcomes through the advancement of proactive systematic approaches to clinical decision making and policy formation in health care by providing a scholarly forum that connects and educates researchers, providers, policy-makers, and the public. We value interdisciplinary scholarship and a global perspective on health care.

Methodological excellence, both in breadth and depth, is important to us. At the same time we value the inspiring, energizing, respectful, collegial, and friendly learning environment that the Society provides. Through multiple and varied connections to health care systems, we hope to have a positive impact on decision making in health care.

Our diverse membership includes trainees through senior researchers as well as educators, clinicians, managers, and policy makers. We have an international focus and a growing international membership. SMDM members come from a variety of backgrounds and academic disciplines and from various countries. They work in hospitals, universities, corporations, foundations, and government agencies across the globe. Trainee members study in programs ranging from health services and outcomes research to medical informatics, decision science, public health, and health care administration; clinical trainees come from residencies and fellowships in virtually all medical disciplines.
The 17th Biennial European Conference is pleased to announce that it is certified as a Patients Included Conference. Visit the Patients Included website to learn more about the certification program. Many of our researchers already involve patients in their research, but for the SMDM European Conference, this will be the first time that we will certify as a Patients Included Conference. Since the mission of the Society for Medical Decision Making is to improve health outcomes of patients and the public through the advancement of proactive systematic approaches to clinical decision making and policy formation in health care, we are pleased to now include patients in various aspects of research and conference sessions.

The conference co-chairs certify that the 17th Biennial European Conference meets the five Patients Included Conference Charter Clauses:

1. **Patients or caregivers with experience relevant to the conference’s central theme actively participate in the design and planning of the event, including the selection of themes, topics, and speakers.**

   Patients and caregivers have been involved in planning the workshop, Partnered Research: Effective Partnerships Between Patients, Caregivers, Clinicians and Other Stakeholders.

2. **Patients or caregivers with experience of the issues addressed by the event participate in its delivery and appear in its physical audience.**

   Patients are invited to attend the conference and are welcome to actively participate in all conference sessions. Patients attending the conference have the option to be supported during the conference with a partner from the research community.

3. **Travel and accommodation expenses for patients or carers participating in the advertised programme are paid in full, in advance. Scholarships are provided by the meeting organizers to allow patients or carers affected by the relevant issues to attend as delegates.**

   SMDM will provide at least two scholarships for patient attendees. Our goal is to provide scholarships to as many patients or carers as the budget allows to attend as delegates. The scholarships provide stipends for travel, meals, conference and lodging (if necessary), all of which will be paid in full by SMDM prior to the conference.

   SMDM extends discounted conference registration rates for patients or carers who do not receive a scholarship. Please contact info@smdm.org with any questions or to register for the conference as a patient or carer.

4. **The disability requirements of participants are accommodated. All applicable sessions, breakouts, ancillary meetings, and other programme elements are open to patient delegates.**

   The 17th Biennial European Conference will be held at two venues: Leiden University Medical Center and the Stadsgehoorzaal. These venues are accessible for all participants. An attendee lounge will be available at both venues for conference and patient attendees to rest between sessions. Offsite events at the Scheltema and Mayor’s Office are also accessible for all participants. All conference sessions and offsite events are open for patient delegates to attend.

   A block of accessible hotel rooms has been reserved at one of the host hotels, the Golden Tulip Leiden. Please contact the hotel directly for specific questions about accessibility.

5. **Access for virtual participants is facilitated, with free streaming video provided online, wherever possible.**

   The Twitter hashtag #ESMDM18 will be actively used during the event to highlight scientific discussion for both conference attendees and those unable to attend. The European Conference features a Social Media Committee who will facilitate active discussion on Twitter via the hashtag with virtual and in-person attendees. SMDM will post presentations of those speakers who agree to have their presentations made public on its website for viewing after the conference.
Social Media

Connect with SMDM Through Twitter

#ESMDM18 #PatientsIncluded
Follow SMDM on Twitter @socmdm

New to Social Media?

• Visit twitter.com to create a free account.

• Your username, or handle, will be signified by @. For example: @socmdm

• Twitter is a microblogging site. This means that you can post thoughts and opinions with 280 characters or less.

• Tweets can be “hashtagged”, meaning that you can attach a keyword to your tweet by putting #phrase. Hashtags allow you to search for your interests and also help others find your tweet. Example: “Excellent symposium this afternoon! #ESMDM18”

• Shout out a friend. By including others’ handles in your tweet, you can send public messages and mention colleagues. Example: “Going to the Monday Evening Social Event with @socmdm.”

• Follow users and organizations that peak your interest.

• Retweet. If you see a tweet that is interesting, “retweet” it so that it gets broader exposure to your social network.

SMDM is going mobile!

Download the free European Conference mobile app for meeting schedule, session and speaker information.

Please visit www.smdm.org or download the SMDM mobile event app to view the most updated conference schedule, abstracts and room assignments.
## Sunday 10 June 2018 - Short Course Day at Leiden University Medical Center Building 3 (LUMC)

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<tr>
<th>Time</th>
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<th>Location</th>
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<tr>
<td>08:00 – 18:00</td>
<td>Registration Desk Hours</td>
<td>LUMC Building 3, 1st Floor</td>
</tr>
<tr>
<td>08:00 – 09:00</td>
<td>Tea and Coffee Service</td>
<td>LUMC Building 3, 1st Floor</td>
</tr>
<tr>
<td>09:00 – 12:30</td>
<td>SMDM Morning Short Courses</td>
<td>Various</td>
</tr>
<tr>
<td>10:30 – 11:00</td>
<td>Morning Break</td>
<td>LUMC Building 3, 1st Floor</td>
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<tr>
<td>12:30 – 14:00</td>
<td>Lunch</td>
<td>LUMC Building 3, 1st Floor</td>
</tr>
<tr>
<td>14:00 – 17:30</td>
<td>SMDM Afternoon Short Courses</td>
<td>Various</td>
</tr>
<tr>
<td>15:30 – 16:00</td>
<td>Afternoon Break</td>
<td>LUMC Building 3, 1st Floor</td>
</tr>
<tr>
<td>17:30 – 19:00</td>
<td>Poster Session 1 &amp; Welcome Reception</td>
<td>LUMC Building 3, 1st Floor</td>
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## Monday 11 June 2018 - General Conference Day 1 held at Stadsgehoorzaal

<table>
<thead>
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<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>07:30 – 18:00</td>
<td>Registration Desk Hours</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>07:30 – 08:30</td>
<td>Tea and Coffee Service</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>08:30 – 08:45</td>
<td>Welcome Remarks</td>
<td>Aalmarktzaal, 1st Floor</td>
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<tr>
<td>08:45 – 09:45</td>
<td>Concurrent Top Rated Oral Abstract Presentations</td>
<td>Aalmarktzaal, 1st Floor</td>
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<tr>
<td></td>
<td>TRA-1: Screening, Diagnostics and Decision Making</td>
<td>Aalmarktzaal, 1st Floor</td>
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<td>TRA-2: Decision Analytic Modeling – Methods and Applications</td>
<td>Breezaal, 1st Floor</td>
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<tr>
<td>09:45 – 10:45</td>
<td>Keynote Address: Communicating the Potential Benefits and Harms of Treatments in an Impartial Way – David Spiegelhalter, PhD</td>
<td>Aalmarktzaal, 1st Floor</td>
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<tr>
<td>10:45 – 11:15</td>
<td>Morning Break</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>11:15 – 12:45</td>
<td>Concurrent Oral Abstract Presentations 1</td>
<td>Aalmarktzaal, 1st Floor</td>
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<tr>
<td></td>
<td>1A: Oral Abstracts: Patient Involvement in Decision Making</td>
<td>Aalmarktzaal, 1st Floor</td>
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<td>1B: Oral Abstracts: Modelling to Assess Cost-Effectiveness or Value of Information</td>
<td>Breezaal, 1st Floor</td>
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<tr>
<td>11:15 – 12:45</td>
<td>Concurrent Workshop Presentations 1</td>
<td>Jan Willem Schaapfoyer, 1st Floor</td>
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<td></td>
<td>1D: Workshop: Dealing with Uncertainty in Mdca-Based Decision Support for Individuals and Groups</td>
<td>Cornelis Schuytzaal, Ground Floor</td>
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<tr>
<td>12:45 – 14:15</td>
<td>Poster Session 2 &amp; Lunch</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>14:15 – 15:45</td>
<td>Concurrent Oral Abstract Presentations 2</td>
<td>Aalmarktzaal, 1st Floor</td>
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<td>2E: Oral Abstracts: Patient Preferences and Choice</td>
<td>Aalmarktzaal, 1st Floor</td>
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<td>2F: Oral Abstracts: Quantitative Methods – Modelling and Analysis</td>
<td>Breezaal, 1st Floor</td>
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<tr>
<td>14:15 – 15:45</td>
<td>Concurrent Workshop Presentations 2</td>
<td>Jan Willem Schaapfoyer, 1st Floor</td>
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<td>2G: Workshop: Partnering Research: Effective Partnerships between Patients, Caregivers, Clinicians, Researchers, and Other Stakeholders</td>
<td>Jan Willem Schaapfoyer, 1st Floor</td>
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<td>2H: Workshop: Understanding and Modeling Potential Sources of &quot;Bias&quot; in Electronic Health Data</td>
<td>Cornelis Schuytzaal, Ground Floor</td>
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<td>15:45 – 16:15</td>
<td>Afternoon Break</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>16:15 – 17:45</td>
<td>Symposium: Prediction Models: From Analysis into the Consultation</td>
<td>Aalmarktzaal, 1st Floor</td>
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<td>17:45 – 18:45</td>
<td>Interest Group Meetings</td>
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<tr>
<td>19:00 – 22:00</td>
<td>Offsite Social Event - dinner and dancing at Scheltema</td>
<td>Ticketed Event, Pre-Registration and Additional Purchase Required</td>
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<td>Time</td>
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<td>07:30 – 14:30</td>
<td>Registration Desk Hours</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>08:00 – 09:30</td>
<td>Poster Session 3 &amp; Tea/Coffee</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>09:30 – 11:00</td>
<td>Concurrent Oral Abstract Presentations 3</td>
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<tr>
<td>3I:</td>
<td>Oral Abstracts: Methodological Issues in Preference Assessment</td>
<td>Aalmarktzaal, 1st Floor</td>
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<tr>
<td>3J:</td>
<td>Oral Abstracts: Prediction</td>
<td>Breezaal, 1st Floor</td>
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<tr>
<td>09:30 – 11:00</td>
<td>Concurrent Workshop Presentations 3</td>
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<td>3K: 4:</td>
<td>Workshop: Measuring Shared Decision Making Processes: Overcoming</td>
<td>Jan Willem Schaapföyer, 1st Floor</td>
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<td>3L:</td>
<td>Workshop: Modelling Techniques for Estimating Survival in Oncology</td>
<td>Cornelis Schuytzaal, Ground Floor</td>
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<tr>
<td>11:00 – 11:30</td>
<td>Morning Break</td>
<td>Grote Zaal, Ground Floor</td>
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<td>11:30 – 13:00</td>
<td>Concurrent Oral Abstract Presentations 4</td>
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<tr>
<td>4M:</td>
<td>Oral Abstracts: Patient Decision Making</td>
<td>Aalmarktzaal, 1st Floor</td>
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<tr>
<td>4N:</td>
<td>Oral Abstracts: Quantitative Methods for Personalized and Value-Based Healthcare</td>
<td>Breezaal, 1st Floor</td>
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<tr>
<td>11:30 – 13:00</td>
<td>Concurrent Workshop Presentations 4</td>
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<td>4P:</td>
<td>Workshop: Between-Hospital Differences in Brain Injury: Challenges and Opportunities for Comparative Effectiveness Research and Value-Based Health Care</td>
<td>Cornelis Schuytzaal, Ground Floor</td>
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<td>13:00 – 14:30</td>
<td>Poster Session 4 &amp; Lunch</td>
<td>Grote Zaal, Ground Floor</td>
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<tr>
<td>14:30 – 16:00</td>
<td>Concurrent Oral Abstract Presentations 5</td>
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<td>5J:</td>
<td>Oral Abstracts: Physician Decision Making, Risk Attitudes and Risk Communication</td>
<td>Aalmarktzaal, 1st Floor</td>
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<td>5R:</td>
<td>Oral Abstracts: Evaluations of Cancer Interventions</td>
<td>Breezaal, 1st Floor</td>
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<td>14:30 – 16:00</td>
<td>Concurrent Workshop Presentations 5</td>
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<td>5S:</td>
<td>Workshop: From Clinical Trials to Individual Patients: Understanding Heterogeneity of Treatment Effect for Personalized and Value-Based Healthcare</td>
<td>Jan Willem Schaapföyer, 1st Floor</td>
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<tr>
<td>5T:</td>
<td>Workshop: Model-Based Health Economic Evaluation of Diagnostic Tests and Biomarkers: Handling the (lack of) Evidence</td>
<td>Cornelis Schuytzaal, Ground Floor</td>
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<tr>
<td>16:00 – 17:00</td>
<td>Awards and Closing Ceremony</td>
<td>Aalmarktzaal, 1st Floor</td>
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<tr>
<td>17:00 – 18:30</td>
<td>Closing Reception - hosted by Leiden’s Mayor at the Leiden City Hall</td>
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Abstract Category Acronym Key:

- **AHE** – Applied Health Economics
- **DEC** – Decision Psychology and Shared Decision Making
- **HSOP** – Health Services, Outcomes and Policy Research
- **PSPE** – Patient and Stakeholder Preferences and Engagement
- **QMTD** – Quantitative Methods and Theoretical Developments
Sunday 10 June 2018
Pre-Conference Short Courses

All Short Courses will be held at Leiden University Medical Center (LUMC), Building 3.
Registration for a short course is separate from and in addition to the European Conference registration. Please note that the short course schedule is subject to change. Full descriptions and updated schedule of short courses being offered may be found at www.smdm.org and in the SMDM mobile event app.

AM Tea and Coffee Service 08:00 – 09:00
AM Tea and Coffee Break 10:30 – 11:00
Lunch 12:30 – 14:00
PM Tea and Coffee Break 15:30 – 16:00

09:00 – 12:30 Morning Half Day Short Courses

AM1: SMDM Core Course: Introduction to Medical Decision Analysis (Decision-Analytic Modeling) Room V2-10
Presented by Beate Jahn, PhD and Ursula Rochau, MD, MSc

AM2: SMDM Core Course: Introduction to the Psychology of Medical Decision Making Room V2-34
Presented by Olga Kostopoulou, PhD and Aaron Scherer, PhD

AM5: Beginner’s Guide to Decision Modelling in R Room V2-44
Presented by Eline Krijfamp, MSc and Petros Pechlivanoglou, MSc, PhD

AM6: Introduction to Preference Elicitation Methods Room V2-14
Presented by Kevin Marsh, PhD and Praveen Thokala, PhD

AM7: Causal Inference and Causal Diagrams in Medical Decision Making and Big Real World Data Room V2-22
Presented by Uwe Siebert, MD, MPH, MSc, ScD and Felicitas Kuehne, MSc

14:00 – 17:30 Afternoon Half Day Short Courses

PM1: SMDM Core Course: Introduction to Cost-Effectiveness Analysis Room V2-10
Presented by M. Elske van den Akker-van Marle, PhD and Hendrik Koffijberg, PhD

PM2: SMDM Core Course: Introduction to Shared Decision Making and Patient Decision Aids Room V2-34
Presented by Marieke de Vries, PhD, Hilary Bekker, PhD and Jeroen van Dillen

PM4: Whose Values? What Personhood? Thinking Critically about the Goals, Guiding Principles, and Normative Assumptions of Personalized and Value-Based Medicine Room V2-18
Presented by Jos Welie, MA, MMedS, JD, PhD

PM5: Value of Information Analysis Using Linear Regression Metamodeling Room V2-22
Presented by Fernando Alarid-Escudero, PhD and Hawre Jalal, MD, PhD

PM6: Why Don’t Physicians Make Rational, Evidence-Based Decisions: Bad Data, Bad Influences, and What Might Help Room V2-14
Presented by Roy Poses, MD
Sunday 10 June 2018

17:30 – 19:00
Welcome Reception and Poster Session 1

PS1-1 (HSOP)
Improving Selection of Patients for Endovascular Treatment of Acute Ischemic Stroke: External Validation of a Clinical Decision Tool in Six Randomized Controlled Trials
Esmee Venema, MD, Maxim J.H.L. Mulder, MD, Bob Roozenbeek, MD, PhD, Scott Brown, PhD, Charles B.M.J. Majoie, MD, PhD, Andrew M. Demchuk, MD, PhD, Keith W. Muir, MD, PhD, Antoni Davalos, MD, PhD, Peter J. Mitchell, MD, PhD, Serge Bracard, MD, PhD, Michael Hill, MD, PhD, Philip White, MD, PhD, Bruce C.V. Campbell, MD, PhD, Francis Guillemot, MD, PhD, Jeffrey L. Saver, MD, PhD, Tudor G. Jovin, MD, PhD, Mayank Goyal, MD, PhD, Aad van der Lugt, MD, PhD, Ewout W. Steyerberg, PhD, Diederik W.J. Dippel, MD, PhD, Hester F. Lingsma, PhD

PS1-2 (HSOP)
The Impact of the Rising Colorectal Cancer Incidence in Young Adults on the Optimal Age to Start Screening in the US: A Microsimulation Analysis
Elisabeth Peterse, MSc, Reinier Meester, PhD, Rebecca Siegel, MPH, Jennifer Chen, MPH, Andrea Dwyer, BS, Dennis Ahnen, PhD, Robert Smith, PhD, Ann Zauber, PhD, Iris Lansdorp-Vogelaar, PhD

PS1-3 (HSOP)
Nature and Reporting Characteristics of Systematic Reviews for UK Health Technology Assessment: A Cross-Sectional Study
Christopher Carroll, PhD, MSc, MA, BA, Eva Kaltenthaler

PS1-4 (HSOP)
The Reporting and Impact of Surgeons’ Expertise in Randomized Controlled Trials of Total Hip and Total Knee Arthroplasty: A Systematic Review
Christopher Carroll, PhD, MSc, MA, BA, Faizan Mahmood, BA

PS1-5 (HSOP)
Using Balancing Methods to Estimate Incidence Rates of Disease Outcomes in Type 2 Diabetes Following Antiplatelet Treatment for Secondary Prevention of Acute Coronary Syndromes (ACS)
Georgios Gkountouras, MSc, Rachel Elliott, BPharm PhD FRPharmS, Lukasz Tanajewski, PhD, Anthony Avery, PRHO, SHO, GP

PS1-6 (HSOP)
Personal Value in Personalized Medicine
Mirte Schaafsma, Olga Damman, PhD, Marleen Jansen, PhD, Richelle Singotani, Carla van El, Ph.D., Anant Jani, MD, PhD, Muir Gray, MD, PhD, Martina Cornel, MD, PhD

PS1-7 (HSOP)
Predicting Persistent Post-Concussive Symptoms Following Mild Traumatic Brain Injury
Maryse C. Cnossen, PhD, Joukje Naalt, van der, PhD, Joke Spikman, PhD, Daan Nieboer, John Yue, MD, Geoffrey Manley, PhD, Ethan Winkler, PhD, Nicole von Steinbuechel, Suzanne Polinder, PhD, Ewout W. Steyerberg, PhD, Hester F. Lingsma, PhD

PS1-9 (DEC)
Older Kidney Patients’ Perceptions of a Shared Decision-Making Process Whether or Not to Start Dialysis
Wouter Verberne, MD, Karen Prantl, Drs., Willem Jan Bos, MD, PhD

PS1-10 (HSOP)
Differences in Glucose Control By Immigrant Generation in a Cohort of Type 2 Diabetes Patients Living in Tyrol/Austria
Wilhelm Oberaigner, Assoc.-Prof. Priv.-Doz. Dr., Sabine Geiger-Gritsch, Dr., Hans-Robert Schoenherr, MD, Gerald Bode, MD, Christoph Ebenbichler, Prof., Martin Juchum, MD, Uwe Siebert, MD, MPH, MSc, ScD, Monika Lechleitner, Prof.

PS1-11 (HSOP)
Between-Center and between-Country Differences in Outcome after Aneurysmal Subarachnoid Hemorrhage in the Subarachnoid Hemorrhage International Trialists (SAHIT) Repository
Simone A. Dijkland, MD, Blessing N.R. Jaja, MD, PhD, Mathieu van der Jagt, MD, PhD, Bob Roozenbeek, MD, PhD, Ewout W. Steyerberg, PhD, Diederik W.J. Dippel, MD, PhD, R. Loch Macdonald, MD, PhD, Hester F. Lingsma, PhD
PS1-12 (QMTD)
A Simplified Model of the Cost-Effectiveness of Screening in R: A Teaching and Research Tool
James O’Mahony, PhD, Joost van Rosmalen, PhD

PS1-13 (QMTD)
Spatial Dynamics Simulation of Psychiatric Patients - Rehospitalisation Simulation Focussing on Diabetes Comorbidity and Regional Health Services in International Context
Guenther Zauner, MSc, Christoph Urach, MSc, Martin Bicher, PhD, Niki Popper, PhD

PS1-14 (QMTD)
Two Novel Registry-Based Prediction Models for Overall Survival in Patients with Metastatic Esophageal or Gastric Cancer
Héctor van den Boorn, MSc, Ameen Abu-Hanna, PhD, Emil ter Veer, MSc, Jessy Joy van Kleef, MSc, Florian Lordick, MD, PhD, Michael Stahl, MD, PhD, Jaffer Ajani, MD, PhD, Rosine Guimbaud, MD, PhD, Se Hoon Park, MD, PhD, Susan Dutton, MSc, Yung-Jue Bang, MD, PhD, Nadia Haj Mohammed, MD, PharmD, Mirjam Sprangers, PhD, Rob Verhoeven, PhD, Koos Zwijnderman, PhD, Martijn van Oijen, PhD, Hanneke van Laarhoven, MD, PhD

PS1-15 (QMTD)
Prediction in Surveillance of Barrett’s Esophagus: The Effect of Multiple Measurements of Biomarkers on the Estimated Neoplastic Progression Risk
Carlijn A.M. Roumans, Manon C.W. Spaander, Iris Lansdorp-Vogelaar, Katharina Biermann, Marco J. Bruno, Ewout W. Steyerberg, PhD, Dimitris Rizopoulos

PS1-17 (AHE)
Strategic Behavior and the Cost-Effectiveness Threshold
Mike Paulden, PhD

PS1-18 (AHE)
A Systematic Review on Cost-Effectiveness of Cervical Cancer Screening in Europe with Specific Interest on Risk-Adapted Strategies
Gaby Sroczynski, MPH, Dr.PH, Artemisa Gogollari, Maq.sc.hum. Dr. med., Emi Naslazi, MPH, Nora Pashayan, MD, MSc, MST, PhD, Martin Widschwendter, PhD, Uwe Siebert, MD, MPH, MSc, ScD

PS1-19 (AHE)
A Cost-Effectiveness Analysis of Systemic Therapy in Metastatic Hormone-Sensitive Prostate Cancer
Nirajan Sathianathan, MBBS (Hons), Fernando Alarid-Escudero, PhD, Karen M. Kuntz, ScD, Nathan Lawrentschuk, Damien Bolton, Declan Murphy, Simon Kim, Badrinath Konety

PS1-21 (AHE)
Cost Effectiveness of Adult Pneumococcal Vaccination in US Underserved Minorities and Total Population: Different Policies or Better Implementation?
Kenneth J. Smith, MD, MS, Angela Wateska, MPH, Chyongchiou Jeng Lin, PhD, Mary Patricia Nowalk, PhD, RD, Richard K. Zimmerman, MD, MPH, MS

PS1-24 (DEC)
The Generalizability of Clinical Predictive Models for Patients with Acute Coronary Syndromes: Results from Independent External Validations
Benjamin S. Wessler, MD, Jason Nelson, Christine Lundquist, MPH, Ben Van Calster, David Van Klaveren, PhD, MS, Ewout W. Steyerberg, PhD, David Kent

PS1-25 (DEC)
Development and Evaluation of an Innovative Computer-Based Decision Aid to Enhance Informed Participation in Colorectal Cancer Screening
Anke Woudstra, Evelien Dekker, Tom Broens, Ellen Smets, Mirjam Fransen
PS1-26 (DEC)
Decision Making in Primary Care Emergencies: When Would General Practitioners Attend to Call Outs?
Magnus Hjortdahl, MD, Peder A. Halvorsen, MD, PhD

PS1-28 (DEC)
Insufficient Information: Reducing Inappropriate Expectations and Requests for Antibiotics in Primary Care
Alistair Thorpe, BSc, Miroslav Sirota, PhD, Sheina Orbell, PhD, Marie Juanchich, PHD

PS1-29 (DEC)
Perceptions of Subsequent Screening Participation after a False Alarm for Colorectal Cancer: A Qualitative Study
Pia Kirkegaard, Adrian Edwards, Berit Andersen

PS1-30 (DEC)
Improvements in the Primary Care Setting on PSA Testing for Prostate Cancer
Julia van Tol-Geerdink, PhD, IM van Oort, MD PhD, T Bluemer, MD, DM Somford, MD, PhD

PS1-31 (DEC)
Values Clarification about Radiotherapy in Rectal Cancer Treatment: Indications of Benefits for Decision Process and Quality of Life
Arwen H. Pieterse, PhD, Marleen Kunneman, PhD, Wilbert B. van den Hout, PhD, Monique C.M. Baas-Thijssen, RN, Corrie A.M. Marijnen, MD PhD, Anne M. Stiggelbout, PhD

PS1-33 (PSPE)
From Individual to Population Preferences: Random Utility Models Vs Dirichlet Distribution
Tommi Tervonen, PhD, Francesco Pignatti, MD, Douwe Postmus, PhD

PS1-34 (PSPE)
Health-Related Quality of Life after Traumatic Brain Injury: Deriving a Value Set for the Qolibri-OS and Qolibri in 3 European Countries
Daphne C. Voormolen, MSc, Suzanne Polinder, PhD, Nicole von Steinbuechel, , Mark Oppe, PhD, Juanita A. Haagsma, PhD

PS1-35 (PSPE)
Psychological Factors Affecting Patient Preferences: Review of Psychological Measures Used in Patient Preferences and Decision Studies
Selena Russo, PhD, Ulrik Kihlbom, PhD, Cathy Anne Pinto, PhD, Chiara Jongerius, MSc, Flavia Faccio, Silvia Francesca Maria Pizzoli, Rosanne Janssens, Gwenda Simon, MA PhD, Marie Falahee, MA PhD, Isabelle Huys, MSc, PhD, Esther de Bekker-Grob, PhD, Jorien Veldwijk, PhD, Douwe Postmus, PhD, Dario Monzani, PhD, Gabriella Pravetto, PhD
Monday 11 June 2018

All conference sessions on Monday and Tuesday will be held at the Stadsgehoorzaal unless otherwise noted.

08:30 – 08:45  
Aalmarktzaal, 1st Floor  
Welcome and Opening Remarks by the 2018 European Conference Co-Chairs:  
Anne M. Stiggelbout, PhD and Ewout W. Steyerberg, PhD

08:45 – 09:45  
Aalmarktzaal, 1st Floor  
Top Rated Abstracts 1: Screening, Diagnostics and Decision Making  
Session Moderators: Peder A. Halvorsen, MD, PhD (Norway) and Laura Zwaan, PhD (The Netherlands)

08:45  
The Impact of Descriptive Norms on Motivation to Participate in Cancer Screening  
TRA 1-1  
TRA 1-1 (DEC)  
Sandro Tiziano Stoffel, Alex Ghanouni, Yasemin Hirst, Jo Waller, Christian von Wagner

09:00  
Cross-National Psychological and Demographic Associations with Medical  
TRA 1-2  
TRA 1-2 (DEC)  
Aaron M. Scherer, PhD, Megan Knaus, MPH, Brian J. Zikmund-Fisher, PhD, Enny Das, PhD, Laura D. Scherer, PhD, Angela Fagerlin, PhD

09:15  
Cost-Sensitive Measures Vs. Youden`s Index to Determine an Optimal Threshold for Biomarkers:  
TRA 1-3  
TRA 1-3 (DEC)  
Davood Khallili, MD PhD, Farideh Bagherzadeh-Khiabani, Msc

08:45 – 09:45  
Breezaal, 1st Floor  
Top Rated Abstracts 2: Decision Analytic Modeling – Methods and Applications  
Session Moderators: Ursula Rochau, MD, MSc (Austria) and Hester F. Lingsma, PhD (The Netherlands)

08:45  
Sub-Catagorising Expected Value of Perfect Implementation (EVPIM) to Identify When and  
TRA 2-1  
TRA 2-1 (QMTD)  
Kasper Johannesen, MSc, Magnus Janzon, MD, Martin Henriksson, PhD

09:00  
Two-Step Regression Approach for Including Covariate Adjusted Mean Utilities’ Uncertainty  
TRA 2-2  
TRA 2-2 (AHE)  
Arantzazu Arrospide, MSc, PhD, Juan Manuel Ramos-Goni, Petros Pechlivanoglou, MSc, PhD, Igor Larranaga, Javier Mar, MD, PhD

09:15  
From Evaluation to Optimization: Capacity-Constrained Optimization Using a Meta-Model to  
TRA 2-3  
TRA 2-3 (QMTD)  
Hendrik Koffijberg, PhD, Veerle Coupe, PhD, Prof. Maarten J. IJzerman, PhD, Koen Degeling, MSc, Marjolein JE Greuter

09:30  
Can Ireland’s Colorectal Screening Programme Save More Lives, Save Money and Live within  
TRA 2-4  
TRA 2-4 (HSOP)  
Ethna McFerran, BSc Hons Nursing / PGC Specialist Practice Oncology / PhD Candidate Health Economics, James O’Mahony, PhD, Duncan McVicar, PhD, Ann G. Zauber, PhD, Iris Lansdorp-Vogelaar, PhD, Frank Kee, BSc, MSc, MD
Monday 11 June 2018

09:45 – 10:45 Aalmarktzaal, 1st Floor
Keynote: Communicating the Potential Benefits and Harms of Treatments in an Impartial Way

David Spiegelhalter, PhD
Cambridge University

BIOGRAPHY:
David Spiegelhalter is Winton Professor for the Public Understanding of Risk and Fellow of Churchill College at Cambridge University, and as Chair of the Winton Centre for Risk and Evidence Communication, he works to improve the way in which risk and statistical evidence are taught and discussed in society. He gives many presentations to schools and others, advises organisations on risk communication, and is a regular commentator on risk issues. He presented the BBC4 documentaries ‘Tails you Win: the Science of Chance’ and the award-winning ‘Climate Change by Numbers’. He was elected FRS in 2005, awarded an OBE in 2006, and was knighted in 2014 for services to medical statistics. For 2017-2018 he is President of the Royal Statistical Society. In 2011, he finished 7th in an episode of Winter Wipeout. Dr. Spiegelhalter was the recipient of the 2006 SMDM Career Achievement Award.

KEYNOTE DESCRIPTION:
There is increasing acceptance that medical interventions should be the result of an informed choice, which requires that potential benefits and harms need to be discussed in a way appropriate to a patient’s wishes and needs. This is reflected in the current UK breast screening information leaflets, which encourage women to weigh up the pros and cons of screening. I shall look at the process by which these were developed, emphasising the role of a ‘citizens’ jury’.

After a diagnosis of breast cancer, prognostic calculators may be used in discussing possible adjuvant therapies. I shall describe how a new front-end to the PREDICT program has been developed using the principles of user-centred design, in which both medical professionals and patients contribute to both appearance and functionality. Finally, I shall look at the general challenges of communication in an era of increasingly personalised medicine, when there may be substantial uncertainty about the magnitudes of the potential harms and benefits.

10:45 – 11:15 Grote Zaal, Ground Floor
Morning Tea and Coffee Break

11:15 – 12:45 Aalmarktzaal, 1st Floor
Concurrent Oral Abstract Session 1A: Patient Involvement in Decision Making
Session Moderators: Angela Fagerlin, PhD (United States) and Julia van-Tol Geerdink, PhD (The Netherlands)

11:15 Improving a Patient Decision Aid for Patients with Localized Prostate Cancer Using the Multi-Criteria Decision Analysis Method
1A-1 (DEC)
Isabel de Angst, MD, Paul J.M. KIL, MD, PhD, Marieke G.M. Weernink, PhD, Eric Cornel, MD, PhD, Janine A. van Til, PhD, Johanna Takkenberg, MD, PhD

11:30 The Effects of Using Population Diagrams and 10-Year Time Frames in Communicating Breast Cancer Risks
1A-2 (DEC)
Danielle Timmermans, PhD, Janet Geipel, PhD, Liesbeth Claassen, PhD, Christi van Asperen, PhD, Jan Oosterwijk, PhD, Fred Menko, PhD, Lidewij Henneman, PhD

11:45 Family Dynamics in a Multi-Ethnic Asian Society: Comparison of Elderly CKD Patients and Their Family Caregivers with Medical Decision Making for Managing End Stage Kidney Disease
1A-3 (DEC)
Semra Ozdemir, PhD, Tazeen Jafar, MD, MPH, Lina Choong Hui Lin, MBBS, Eric A. Finkelstein, PhD, MHA

12:00 Clinician-Patient Communication on the Decision to Proceed with Diagnostic Testing for Alzheimer’s Dementia: The Abide-Clinical Encounter Study
1A-4 (DEC)
Leonie N.C. Visser, PhD, Marleen Kunneman, PhD, Laxsini Murugesu, MSc, Femke Bouwman, MD, PhD, Wiesje van der Flier, PhD, Ellen MA Smets, PhD

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**Monday 11 June 2018**

**11:15 – 12:45**  
**Aalmarktzaal, 1st Floor**

**Concurrent Oral Abstract Session 1A: Patient Involvement in Decision Making continued**

Session Moderators: Angela Fagerlin, PhD (United States) and Julia van-Tol Geerdink, PhD (The Netherlands)

12:15  
**1A-5**  
Shared Decision-Making in Prostate Cancer Care: Encouraging Every Patient to be Actively Involved in Decision-Making, or Ensuring Patients' Preferred Level of Involvement?  
(DEC)  
Marie-Anne van Stam, MSc, Arwen H. Pieterse, PhD, H.G. Van der Poel, MD, PhD, J.L.H.R. Bosch, MD, PhD, Corinne Tillier, MANP, S. Horenblas, MD, PhD, N.K. Aaronson, PhD

12:30  
**1A-6**  
Limited Involvement in Decision-Making By Their Oncologist Does Not Reduce Breast Cancer Patients' Trust  
(DEC)  
Irini Sorial, MSc., Ellen Engelhardt, PhD, Arwen H. Pieterse, PhD, J. (Hanneke) CJM de Haes, PhD, Ellen Smets, Anne M. Stiggelbout, PhD, Marij Hillen, PhD

**11:15 – 12:45**  
**Breezaal, 1st Floor**

**Concurrent Oral Abstract Session 1B: Modelling to Assess Cost-Effectiveness or Value of Information**

Session Moderators: Beate Jahn, PhD (Austria) and Fernando Alarid-Escudero, PhD (United States)

11:15  
**1B-1**  
(AHE)  
Hendrik Koffijberg, PhD, Claire Rothery, PhD, Kalipso Chalkidou, PhD, Janneke Grutters, PhD

11:30  
**1B-2**  
Value of Information of Early Intervention for Treating Subthreshold Panic Disorder in the Netherlands: Healthcare Versus Societal Perspective  
(AHE)  
Robbin H. Ophuis, MSc, Joran Lokkerbol, PhD, Juanita A. Haagsma, PhD, Mickael Hiligsmann, PhD, Silvia Evers, PhD, LLM, Suzanne Polinder, PhD

11:45  
**1B-3**  
Cost-Effectiveness of Typhoid Vaccination Strategies: Cost-Effectiveness Acceptability Curves, Cost-Effectiveness Acceptability Frontier and Expected Value of Partial Perfect Information for 54 Countries  
(AHE)  
Joke Bilcke, Marina Antillon, Zoe Pieters, Elise Kuylen, Virginia Pitzer

12:00  
**1B-4**  
Developing and Validating a Metamodel of the Cepac-Pediatric Model for Infant HIV Testing and Screening Strategies  
(AHE)  
Djora Soeteman, PhD, Lorna Dunning, MBiochem, MPH, Taige Hou, SB, Caitlin Dugdale, MD, Simone Frank, BA, Pamela Pei, PhD, Rochelle Walensky, MD, MPH, Martina Penazzato, MD, PhD, Stephen C. Resch, MPH, PHD, Kenneth Freedberg, MD, MSc, Andrea Ciaramello, MD, MPH

12:15  
**1B-5**  
Estimation of Lifetime Individual-Level Costs and Benefits of Diabetes Mellitus Prevention Programs  
(AHE)  
Natalia Olchanski, MS, David van Klaveren, PhD, Joshua T. Cohen, PhD, John B. Wong, MD, David M Kent, MD, MS

12:30  
**1B-6**  
Cost-Effectiveness of Initiatives to Either Increase Number of Patients on Hepatitis C Treatment or Reduce Burden of Disease  
(AHE)  
Torbjorn Wisloff, Richard White, Olav Dalgard, Ellen Amundsen, Hilda Meijerink, Hilde Klovstad
Monday 11 June 2018

11:15 – 12:45 Jan Willem Schaapfoyer, 1st Floor

Concurrent Workshop Session 1C:
The Evolving Theory and Evidence Regarding Discounting in Health Economic Evaluation: Practical Implications for Analysis Guidelines and Reimbursement

Moderator: Mark Jit, PhD, London School of Hygiene and Tropical Medicine, London United Kingdom

Speakers: Mike Paulden, PhD, University of Alberta, Edmonton, AB, Canada and James O’Mahony, PhD, Trinity College Dublin, Dublin, Ireland

11:15 – 12:45 Cornelis Schuytzaal, Ground Floor

Concurrent Workshop Session 1D:
Dealing with Uncertainty in Mcda-Based Decision Support for Individuals and Groups

Moderator: Henk Broekhuizen, PhD, Radboud University Medical Center, Nijmegen, The Netherlands

Panelists: Mette Kjer Kaltoft, PhD, Odense University Hospital, Svendborg, Denmark and Karin G.M. Groothuis-Oudshoorn, PhD, University of Twente, Enschede, The Netherlands

Speakers: Jack Dowie, PhD, London School of Hygiene and Tropical Medicine, London United Kingdom and Janine A. van Til, PhD, University of Twente, Enschede, The Netherlands

12:45 – 14:15 Grote Zaal, Ground Floor

Poster Session 2 & Lunch

PS2-1 (HSOP)
Striving for a Societal Perspective: An Analytical Framework for the Economic Evaluations of Interventions with Costs and Effects Falling on Multiple Sectors and Decision Makers
Simon Walker, MSc, Susan Griffin, PhD, Miqdad Asaria, PhD, Mark Sculpher, PhD

PS2-2 (HSOP)
Efficient Assignment in Regression Discontinuity Design: Validation in Two Large Randomized Trials
Nikki van Leeuwen, MSc, Hester F. Lingsma, PhD, Daan Nieboer, Ewout W. Steyerberg, PhD

PS2-3 (HSOP)
Effects of Shared Decision-Making Compared to Usual Care for Prostate Cancer Screening and Treatment: A Systematic Review and Meta-Analysis of Randomised Controlled Trials
Nahara Martinez-Gonzalez, Stefan Neuner-Jehle, Andreas Plate, Stefan Markun, Thomas Rosemann, Oliver Senn

PS2-4 (HSOP)
Prediction Models for Functional Outcome 6-Months and 1-Year after Trauma
Leonie de Munter, MSc, Suzanne Polinder, PhD, Cornelis van de Ree, MD, Nena Kruithof, MSc, Ewout W. Steyerberg, PhD, Mariska de Jongh, PhD

PS2-5 (HSOP)
Validation, Calibration, and Clinical Usefulness of Findrisc, Ausdrisk, and ADA Risk Scores for Detecting 5-Year Incident Type 2 Diabetes in Tehran Lipid and Glucose Study (TLGS)
Mojtaba Lotfaliany, MD, Brian Oldenburg, PhD, Fereidoun Azizi, MD, Davood Khalili, MD PhD
PS2-6 (DEC)
Decision Aids and Consecutive Treatments: The Case of Multiple Sclerosis
Ana Manzano, PhD, Hilary Bekker, PhD, Ieva Eskyte, PhD, Sue Pavitt, BSc, PhD, Helen Ford, George Pepper, David Meads, PhD, Jeremy Chataway, Klaus Schmierer, Edward Webb

PS2-8 (HSOP)
Systematic Overview of Patient-Reported Outcomes for Myelodysplastic Syndromes
Igor Stojkov, MPharm, Ursula Rochau, MD, MSc, Conrads-Frank Annette, PhD, Helena Borba, PhD, Karin Koinig, Dr, Marjan Arvandi, MS, Fabio Efficace, Dr, Reinhard Stauder, Dr, Uwe Siebert, MD, MPH, MSc, ScD

PS2-9 (HSOP)
To Bridge or Not to Bridge: Modelling Periprocedural Anticoagulation Management
Simon van der Pol, PharmD, Maartje Jacobs, PharmD, Karina Meijer, MD, PhD, Margriet Piersma, MD, Robert Tieleman, MD, PhD, Maarten Postma, PhD, Marinus van Hulst, PharmD, PhD

PS2-11 (QMTD)
Consistency between Score and Globorisk Prediction Models for Cardiovascular Disease Mortality in a Western Asian Country
Noushin Fahimfar, MD, PhD candidate of Epidemiology, Akbar Fotouhi, MD, PhD, Mohammad Ali Mansournia, MD, PhD, Reza Malekzadeh, MD, Fereidoun Azizi, MD, Marjan Mansourian, PhD, Sadaf G.Sepanlou, MD, PhD, Farzad Hadaegh, MD, Mohammad Hassan Emamian, MD, PhD, Hamid Roohafza, MD, Hossein Poustchi, MD, PhD, Akram Pourshams, MD, EWout W. Steyerberg, PhD, Davood Khalili, MD, PhD

PS2-13 (QMTD)
Early Identification of Major Trauma: External Validation and Comparison of Prognostic Prehospital Trauma Models in 167,043 Patients
Charlie Sewalt, MSc, Esmee Venema, MD, Eveline Wiegers, Dennis den Hartog, MD, PhD, Fiona Lecky, MD, PhD, Hester F. Lingsma, PhD

PS2-14 (QMTD)
Methods for Inclusion of Correlated Parameters in Deterministic Sensitivity Analyses
Peter Gal, MSc, Mustafa Oguz, PhD

PS2-15 (QMTD)
Should Uncertainty be Incorporated in Preference-Sensitive Decision Support? Invitation to Debate
Mette Kjer Kaltoft, PhD, Jesper Bo Nielsen, PhD, Jack Dowie, PhD

PS2-16 (AHE)
In Search of Sweden’s Cost-Effectiveness Threshold
Jonathan Siverskog, MSc, Martin Henriksson, PhD

PS2-17 (AHE)
Cost-Effectiveness of Problem Solving Therapy in Outpatient Rehabilitation for Stroke
Anne Berkhoff, MSc, Marieke Visser, PhD, Adriaan van ’t Spijker, PhD, Jan van Busschbach, PhD, Gerard Ribbers, MD, PhD, Majanka Heijenbrok-Kal, PhD
Monday 11 June 2018

12:45 – 14:15  Grote Zaal, Ground Floor
Poster Session 2 & Lunch continued

PS2-18 (AHE)
Cost-Utility of Early Breast Cancer Surveillance in Survivors of Adolescent Hodgkin’s Lymphoma
Lauren Tessier, HBSc, Jill Furzer, MA, David Hodgson, MD, MPH, FRCPC, Cecilia Cotton, PhD, Paul Nathan, MD, MSc, FRCPC, Sumit Gupta, MD, PhD, FRCPC, Peter C. Coyte, Petros Pechlivanoglou, MSc, PhD

PS2-19 (QMTD)
Improving Identification of Patient Subgroups Via a Stepwise Covariate Selection Approach
Diego Saldana Miranda, PhD, Srinivasa Rao Pelluri, MSc, Valery Risson, PhD MBA, Gorana Capkun, PhD

PS2-20 (AHE)
Cost-Effectiveness of Prophylactic Hysterectomy in First-Degree Female Relatives with Lynch Syndrome of Patients Diagnosed with Colorectal Cancer in the United States: A Micro Simulation Study
Maaike Alblas, MSc, Elisabeth Peterse, MSc, Mengmeng Du, PhD, Jennifer Chen, MPH, Ann Zauber, PhD, George W. Mutter, MD, PhD, Ewout W. Steyerberg, PhD, Nikki van Leeuwen, MSc, Iris Lansdorp-Vogelaar, PhD

PS2-22 (AHE)
Cost-Effectiveness of Early Detection and Prevention Strategies for Ovarian Cancer: A Systematic Review
Gaby Sroczynski, MPH, Dr.PH, Artemisa Gogollari, Mag.sc.hum. Dr. med., Felicitas Kuehne, MSc, Lara Hallson, MPH, Dr., Nora Pashayan, MD, MSc, MST, PhD, Martin Widschwendter, PhD, Uwe Siebert, MD, MPH, MSc, ScD

PS2-23 (DEC)
Developing a Decision Aid for a Mental Health Problem: Lessons Learned
Wilma Otten, PhD, Leanthe van Harten, MSc, Fieke Pannebakker, PhD

PS2-24 (DEC)
Conceptual Models of Shared Decision Making: A Systematic Review of the Literature
Hanna Bomhof-Roordink, MSc, Fania R. Gaertner, PhD, Anne M. Stiggelbout, PhD, Arwen H. Pieterse, PhD

PS2-25 (DEC)
How Is Cervical Cancer Screening Information Communicated in UK Websites?
Yasmina Okan, PhD, Samuel G. Smith, PhD, Wandi Bruine de Bruin, PhD

PS2-27 (DEC)
Do People with a Different Regulatory Focus Make Different Decisions about Colorectal Cancer-Screening Participation?
Linda Douma, MSc, Ellen Uiters, PhD, Danielle Timmermans, PhD

PS2-28 (DEC)
Decision Support in the Choice between Neobladder and Stoma after Bladder Removal
Julia van Tol-Geerdink, PhD, DM Somford, MD, PhD, C Wijburg, MD PhD, JA Witjes, MD PhD

PS2-29 (DEC)
Research Participants Experiences of Short-Term Mental Distress after Receiving Cardiovascular Risk Information
Asa Grauman, MSc Public Health, PhD student, Mats G Hansson, Professor of Biomedical Ethics, Arvid Puranen, MD, Stefan James, MD Professor of cardiology, Jorien Veldwijk, PhD
Monday 11 June 2018

12:45 – 14:15 Grote Zaal, Ground Floor
Poster Session 2 & Lunch continued

PS2-30 (DEC)
Visual Attention When Using Information in a Patient Decision Aid: An Eye-Tracking Study Among Older Cancer Patients
Olga Damman, PhD, Julia Van Weert, PhD, Jozua Murris, Msc, Danielle Timmermans, PhD

PS2-32 (DEC)
How to Present Risk in Patient Preference Studies: A Scoping Review
Elisabeth Furberg, PhD, Asa Grauman, MSc Public Health, PhD student, Cathy Anne Pinto, PhD, Richard Hermann, MD, MPH, Rosanne Janssens, Esther de Bekker-Grob, PhD, Jorien Veldwijk, PhD, Ulrik Kihlbom, PhD

PS2-33 (PSPE)
Patient-Centered Benefit-Risk Decision-Making and the Role of Educational Tools and Psychological Instruments in Preference Elicitation- Year 1 of IMI Prefer
Ulrik Kihlbom, PhD, Selena Russo, PhD, Dario Monzani, PhD, Geert Vander Stichele, PharmD, Sarah Verschueren, PhD, Cathy Anne Pinto, PhD

PS2-34 (PSPE)
Engaging Stakeholders in the Design of a Decision Aid to Improve Secondary Prevention after Stroke
Talya Porat, PhD, Iain Marshall, Euan Sadler, Miguel Vadillo, Christopher McKeivitt, Charles Wolfe, Vasa Curcin

PS2-35 (PSPE)
“They Explain Lung Transplant like It’s Changing a Car Part”: Enriching Decision Making about Intubation and Lung Transplant Using Patient Narratives for Adults with Cystic Fibrosis
Melissa Basile, PhD, Eugenia Boye-Codjoe, MPH, Janice Wang, MD, Katherine Henthorne, LMSW, Danielle Rodriguez-Madera, Denis Hadjiliadis, MD, Jessica Goggin, MAS, RN, Jorge Huamantla, Victoria Shaffer, PhD, Negin Hajizadeh, MD, MPH

PS2-36 (PSPE)
Early Value Assessment of Image-Guided Surgical Technologies Used in Oncology
Melanie Lindenberg, MSc, Janine A. van Til, PhD, Valesca Retel, PhD, Theo Ruers, MD PhD, Wim van Harten, MD PhD
Monday 11 June 2018

14:15 – 15:45 Aalmarktzaal, 1st Floor
Concurrent Oral Abstract Session 2E: Patient Preferences and Choice
Session Moderators: Jeremy D. Goldhaber-Fiebert, PhD (United States) and Caroline Vass, PhD (United Kingdom)

14:15 Evolving Individual Preferences for Vaccination Policies
2E-1 Nicolas W. Meier, M.Sc., Robert Boehm, PhD, Cornelia Betsch, PhD, Lars Korn, M.Sc.
(HSOP)

14:30 Political and Religious Ideological Associations with Seasonal Influenza Vaccine Uptake
2E-2 in Europe and the United States
(DEC) Aaron M. Scherer, PhD, Megan Knaus, MPH, Brian J. Zikmund-Fisher, PhD, Enny Das, PhD, Angela Fagerlin, PhD

14:45 Comparison of Individual and Collective Decision Making for Health Outcomes in Time Trade-Off and Standard Gamble
2E-3 (AHE) Stefan Lipman, MSc, Arthur Attema, PhD, Han Bleichrodt, PhD, Olivier L’Haridon, PhD

15:00 Is Patient Choice Predictable? the Impact of Discrete Choice Experiment Designs and Models
2E-4 Esther de Bekker-Grob, PhD, Joffre Swait, PhD, Habtamu Tilahun Kassahun, PhD, Michiel Bliemer, PhD, Marcel Jonker, PhD, Jorien Veldwijk, PhD, Karen Cong, John Rose, PhD, Bas Donkers, PhD
(PSPE)

15:15 Development and Piloting of a Discrete Choice Experiment for Preference Elicitation from Adolescent-Parent Dyads
2E-5 (PSPE) Sophy Barber, BDS, MSc, PG Cert in Health Research, David Meads, PhD, Sue Pavitt, BSc, PhD, Balvinder Khambay, BDS, PhD, Hilary Bekker, PhD

15:30 How Does Offering Disinclined People Choice between Different Screening Appointments Affect Screening Intentions? Evidence from an Online Experiment
2E-6 (DEC) Sandro Tiziano Stoffel, Alex Ghanouni, Yasemin Hirst, Jo Waller, Christian von Wagner

14:15 – 15:45 Breezaal, 1st Floor
Concurrent Oral Abstract Session 2F: Quantitative Methods - Modelling and Analysis
Session Moderators: Heather Taffet Gold, PhD (United States) and Mike Paulden, PhD (Canada)

14:15 Assessing the Impact of a Matching Adjusted Indirect Comparison in a Bayesian Network Meta Analysis
2F-1 Joy Leahy, BSc, Cathal Walsh, PhD
(QMTD)

14:30 Model-Based Network Meta-Analysis for Time-Course Relationships: A Union of Two Methodologies
2F-2 Hugo Pedder, MSc, Meg Bennetts, MSc, Sofia Dias, PhD, Martin Boucher, MSc, Nicky J. Welton, PhD
(QMTD)

14:45 Estimating the Expected Value of Sample Information across Sample Size Using Bayesian Non-Linear Regression
2F-3 (QMTD) Anna Heath, Ioanna Manolopoulou, Gianluca Baio

15:00 The Impact of Selection Methods in Two-Stage Bootstrapping to Assess Uncertainty in Health Economic Outcomes in Multi-Center Randomized Controlled Trials
2F-4 (AHE) Michelle M.A. Kip, MSc., Sofie Berghuis, MSc, Maarten W. N. Nijsten, MD, PhD, Prof Maarten J. IJzerman, PhD, Hendrik Koffijberg, PhD

15:15 Bayesian Inference about Optimal Treatment Regimens Using Observational Data: A Simulation and an Application to Larynx Carcinoma
2F-5 (QMTD) Thomas Klausch, PhD, Peter van de Ven, PhD, Johannes Berkhof

15:30 On the Equivalence of a Cohort Model and the Mean Equation of the Associated Master Equation
2F-6 (QMTD) Rowan Iskandar, PhD
Monday 11 June 2018

14:15 – 15:45 Jan Willem Schaapfoyer, 1st Floor
Concurrent Workshop Session 2G:
Partnering Research: Effective Partnerships between Patients, Caregivers, Clinicians, Researchers, and Other Stakeholders

Moderator: Anne M. Stiggelbout, PhD, Leiden University Medical Center, Leiden, The Netherlands
Speakers: Kim Brandes, Leiden University Medical Center, Leiden, The Netherlands, Martinus de Wit, PhD, Stitching Tools, Zaltbommel, The Netherlands, Ingeborg Griffioen, MSc, Panton Design Studio, Deventer, The Netherlands, and Wanda Konijn, MSc, Kidney Patients Association Netherlands (NVN), Bussum, The Netherlands

14:15 – 15:45 Cornelis Schuytzaal, Ground Floor
Concurrent Workshop Session 2H:
Understanding and Modeling Potential Sources of "Bias" in Electronic Health Data

Moderator: Ewout W. Steyerberg, PhD, Leiden University Medical Center, Leiden, The Netherlands
Speakers: Jarrod E. Dalton, PhD, Cleveland Clinic and Case Western Reserve University, Cleveland, OH, United States and Adam T. Perzynski, PhD, Case Western Reserve University at MetroHealth, Cleveland, OH, United States

15:45 – 16:15 Grote Zaal, Ground Floor
Afternoon Tea and Coffee Break

16:15 – 17:45 Aalmarktzaal, 1st Floor
Symposium: Prediction Models: From Analysis into the Consultation

Description:
In this symposium, we will discuss challenges in the development, validation, and clinical implementation of prediction models. Andrew Vickers (Memorial Sloan Kettering Cancer, New York) will discuss innovative topics in the development and validation of prediction models; Rick Pleijhuis (Evidencio webplatform) will present new developments in online calculators for medical decision-making; and Ellen Engelhardt (Netherlands Cancer Institute, Amsterdam) will discuss issues in communicating risks to individual patients. Our keynote speaker, David Spiegelhalter (University of Cambridge) will reflect on the presentations, followed by a lively general discussion led by Veerle Coupé (Free University Medical Center Amsterdam).

Programme:
Veerle Coupé (Chair): Introduction (2 min)

Andrew Vickers: Prediction Models: Why Much of What You’ve Been Told is Wrong or Irrelevant (20 min + 2 min clarifying questions)

Rick Pleijhuis: Online Calculators for Medical Decision-Making (10 min + 2 min clarifying questions)

Ellen Engelhardt: Communicating Risks in the Clinical Encounter (15 min + 2 min clarifying questions)

David Spiegelhalter: Reflections on the presentations (5 – 10 min)

General discussion with the audience (25 min)
The goal of the International Psychology Interest Group is to encourage discussion and collaboration around how to use existing and emerging psychological theory, research and knowledge to evaluate and improve medical decision making across different cultural and geopolitical contexts. Topics of interest to the Group include (but are not limited to): psychological study of physicians, patients, families and the situations in which they make decisions (e.g., physicians with patients; patients within families or workplaces; physicians within teams, organizations, and systems) in different countries; the extent to which cognitive and affective processes underlying medical decision making generalize across countries or cultural regions; the comparative importance of moderators on the quality of medical decision making (e.g., health numeracy, literacy and culture) across countries; and comparisons of health provider and patient communication concerning topics such as risk, values and preference sensitive decision making in different cultural or geopolitical contexts. The group welcomes members who are interested in the application of psychology to improve the quality of medical decisions across different cultural and geopolitical contexts.
17:45 – 18:45

**The DARTH Initiative: Promoting the Use of Open-Source Software in Medical Decision Making**

**Chairs:** Fernando Alarid-Escudero, PhD (United States), Eva Enns, MS, PhD (United States), Hawre Jalal, MD, PhD (United States), Eline Krijkamp, MSc (The Netherlands), and Petros Pechlivanoglou, MSc, PhD (Canada)

Open-source software (OSS) has gained significant popularity across many academic disciplines such as statistics and engineering. There have been many developments and exhibitions of the use of OSS in health decision sciences (HDS), but certainly not enough. Some of the most popular models used in HDS are being implemented in either domain-specific or proprietary software. There are many advantages to this approach, but there are also significant drawbacks, namely high entry costs, lack of transparency and a fragmented modeling approach. The Decision Analysis in R for Technologies in Health (DARTH) initiative is a multi-institutional, multi-university collaborative effort comprised of scholars who have a passion for transparent and open-source solutions to decision analysis in HDS. This meeting will highlight the benefits of OSS, the research advancements and educational initiatives currently available in decision analysis using OSS and will foster discussion around the many exciting ways in which OSS can be used to advance the field of HDS.

19:00 – 22:00

**SMDM Social Event: Scheltema Leiden**

Join SMDM for a fun night in Leiden at Scheltema! Once housing an award-winning wool blanket factory, Scheltema now offers visitors a glimpse into the past, and serves as a unique venue for modern meetings and events.

The night begins at 19:00 with traditional Dutch appetizers, followed by a buffet of Indo-Dutch cuisine. (Gluten Free and Vegetarian options available). Enjoy a cocktail on the open-air courtyard or catch up with friends in Scheltema’s Ketelhuis, the building’s original boiler room, which now features a clear glass ceiling.

Don’t forget your dancing shoes! DJ Tendance will have you out on the floor playing popular American and International tunes.

Your $50 USD ticket includes all food, dancing and 2 drink tickets, which are valid for alcoholic and non-alcoholic beverages. Additional drink tickets may be purchased at Scheltema using Euros or with Visa or Mastercard. Scheltema DOES NOT accept American Express or Discover Card.

*Tickets must be purchased by 17:00 on Monday 11 June. Tickets can be purchased onsite at the ESMDM Conference Registration Desk.*
PS3-1 (HSOP)
A Framed Field Experiment on the Effect of Feedback on Antibiotics Provision in Pediatrics
Kerstin Eilermann, Katrin Halstenberg, Ludwig Kuntz, Kyriakos Martakis, Bernd Roth, Daniel Wiesen

PS3-2 (HSOP)
Improvement of the Performance of Survival Prediction in the Ageing Trauma Population
Leonie de Munter, MSc, Nancy ter Bogt, PhD, Suzanne Polinder, PhD, Charlie Sewalt, MSc, Ewout W. Steyerberg, PhD, Mariska de Jongh, PhD

PS3-4 (HSOP)
Routine Data Based Analyses of Mortality of Patients with Fractures Due to Falls Less Than Three Meters – a Comparative Approach
Guenther Zauner, Msc, Ingrid Wilbacher, PhD, Niki Popper, PhD, Florian Endel, Christoph Urach, MSc

PS3-5 (HSOP)
Predicting Length of Stay after a Road Traffic Accident While Accounting for Competing Risks and Time-Dependent Variables
Griet Van Belleghem, Msc, Stefanie Devos, PhD, Ives Hubloue, PhD MD, Door Lauwaert, RN, Karen Pien, MD, Ronald Buyl, PhD, Koen Putman, PhD

PS3-6 (HSOP)
Do Cancer Biomarkers Make Targeted Therapies Cost-Effective? a Systematic Review in Metastatic Colorectal Cancer
Kelly Seo, John Cairns

PS3-7 (HSOP)
In-Hospital Mortality Variability for Charlson Comorbidity Indices Using Administrative Data
Alberto Freitas, PhD, Joao Vasco Santos, MD, Mariana Lobo, MSc, Cristina Santos, PhD

PS3-9 (HSOP)
Factors Influencing the Uptake of a Choosing Wisely Recommendation By Orthopaedic Surgeons
Tessa Rietbergen, Ron Diercks, MD, PhD, Ieke van der Wel, Elske van den Akker, PhD, Rob Nelissen, MD, PhD, Enrike van der Linden, MD, PhD, P.J. Marang-van de Mheen, PhD, Leti van Bodegom-Vos, PhD

PS3-10 (HSOP)
Economic Implications of Disparities in Cervical Cancer Screening
Vivian Chia-Rong Hsieh, PhD

PS3-11 (QMTD)
Simulation of Detection of Oligo-Recurrences in Non-Small Cell Lung Cancer
Henri Wolff, MSc, Leonie Alberts, MSc, Lisanne Kastelijn, PhD, Sherif El Sharouni, PhD, Franz Schramel, PhD, Rein Vos, PhD, Veerle MH Coupe
PS3-12 (QMTD)
Use of Stated-Revealed Preference Models for a Multistakeholder Approach
Christine C. Huttin, PhD

PS3-13 (QMTD)
Study Protocol of a Causal Comparative Effectiveness Analysis and Data Availability in the Austrian Setting: The Case of When to Start Statin Treatment
Felicitas Kuehne, MSc, Beate Jahn, PhD, Annette Conrads-Frank, PhD, Marvin Bundo, MD, Marjan Arvandi, MS, Uwe Siebert, MD, MPH, MSc, ScD

PS3-14 (QMTD)
A Bayesian Approach to Explore and Improve Methodologies for the Identification and Estimation of Subgroup Effects in Clinical Trials
Claudia Geue, PhD, Neil Hawkins, PhD, Richard Grieve, PhD, Jeremy Oakley, PhD, Monica Hernandez, PhD, James Carpenter, DPhil

PS3-15 (AHE)
A Systematic Review on Cost-Effectiveness of Early Detection and Prevention Strategies for Endometrial Cancer
Gaby Sroczynski, MPH, DrPH, Artemisa Gogollari, Mag.sc.hum. Dr. med., Annette Conrads-Frank, PhD, Martin Widschwendter, PhD, Nora Pashayan, MD, MSc, MST, PhD, Uwe Siebert, MD, MPH, MSc, ScD

PS3-16 (AHE)
Early Health Technology Assessment of Tissue Engineered Heart Valves in Elderly Patients
Simone Huygens, MSc, Johanna Takkenberg, MD, PhD, Maureen Rutten-van Molken, PhD

PS3-17 (PSPE)
Cost-Utility Analysis Using EQ-5D-5L Data: Does How the Utilities Are Derived Matter?
Fan Yang, PhD, Nancy Devlin, PhD, Nan Luo, PhD

PS3-18 (AHE)
Negotiating the Relationship between Price and Volume: Implications for Icer Calculations in Heterogeneous Treatment Populations
Helen O’Donnell, MPharm, MSc, Laura McCullagh, BSc (Pharm), PhD., Michael Barry, MB, PhD, Cathal Walsh, PhD

PS3-19 (AHE)
Cost Effectiveness of Breast Cancer Screening - a Systematic Review of European Economic Models with Focus on Overdiagnosis and Overtreatment
Nikolai Muehlberger, DVM, MPH, Gaby Sroczynski, MPH, DrPH, Artemisa Gogollari, Mag.sc.hum. Dr. med., Beate Jahn, PhD, Nora Pashayan, MD, MSc, MST, PhD, Ewout W. Steyerberg, PhD, Martin Widschwendter, PhD, Uwe Siebert, MD, MPH, MSc, ScD

PS3-20 (AHE)
Future Costs of Cancer - Predictions Based on Register Data and Innovation Trends
Christoffer Bugge, Msc, Erik Magnus Saeter, PhD, Ivar S. Kristiansen, MD, PhD, MPH
Tuesday 12 June 2018

PS3-23 (DEC)
Reproductive Decision Support for Couples at Risk for Hereditary Cancer: An Effect Evaluation
Kelly Reumkens, Marly Tummers, Joyce Habets, Christine de Die, Liesbeth van Osch

PS3-24 (DEC)
Evaluation of a Decision Aid for Treatment Decision Making in Patients with Urinary Tract Symptoms Due to Benign Prostatic Hyperplasia
Fieke van der Wijden, MD, Maarten Cuypers, MSc, Marieke de Vries, PhD, Isabel de Angst, MD, Romy R.E.D. Lamers, MD, Harm van Melick, MD, PhD, Jeltje de Beij, MD, Dennis Oerlemans, MD, PhD, Cees van de Beek, MD, Paul J.M. Kil, MD, PhD

PS3-25 (DEC)
Communicating Detailed Information about Colorectal Cancer Screening to Citizens with Lower Educational Attainment Using an Electronic Decision Aid: A Qualitative Study
Pernille Gabel, MD, PhD Fellow, Mette Bach Larsen, PhD, MScPH, Pia Kirkegaard, PhD, MA, Adrian Edwards, Berit Andersen

PS3-26 (DEC)
Development and Validation of Personalised Prediction to Estimate Future Risk in Patients with Asthma; Using Clinical Parameters and Early Treatment Response
Suzanne Boer, Persijn Honkoop, Rik Loijmans, Jisca Snoeck-Stroband, Gerben ter Riet, Tjard Schermer, Jacob Sont

PS3-27 (DEC)
Cardiovascular Risk Communication Based on a Visual Decision Aid
Anders Elkaer Jensen, Jens Soendergaard, Rodney T. Jackson, Jesper Bo Nielsen, PhD

PS3-30 (DEC)
Measuring Shared Decision Making in Oncology: Development of the Ishare Questionnaires
Hanna Bomhof-Roordink, MSc, Fania R. Gaertner, PhD, Anne M. Stiggelbout, PhD, Arwen H. Pieterse, PhD

PS3-31 (DEC)
Using a Short Graph Literacy Scale to Predict Precursors of Health Behavior Change
Yasmina Okan, PhD, Eva Janssen, PhD, Mirta Galesic, PhD, Erika A. Waters, PhD

PS3-33 (PSPE)
Informing the Design of a New Preference Weighted Value Framework for Oncology: A Mixed Methods Approach
Camilla Baba, PhD, Andrew Briggs, DPhil, Alison Lipitz-Synderman, PhD, Susan Chimonas, PhD, Anna Kaltenboeck, PhD, Emma McIntosh, PhD, Peter Bach, MD
Tuesday 12 June 2018

08:00 – 09:30 Grote Zaal, Ground Floor
Poster Session 3 & Tea and Coffee Service continued

PS3-34 (PSPE)
An Overview of Health Utility Values in Thyroid Cancer, Thyroid Nodules, Thyroid Autonomy and Intellectual Disability Related to Iodine Deficiency
Vjollca Qerimi, MPPharm, Monika Buchberger, MSc, Sibylle Puntscher, PhD, Conrads-Frank Annette, PhD, Uwe Siebert, MD, MPH, MSc, ScD, Ursula Rochau, MD, MSc

PS3-35 (PSPE)
An Overview of Health-Related Quality of Life Data in Multiple Myeloma and Mapping of Health Utility Values
Vjollca Qerimi, MPPharm, Igor Stojkov, MPPharm, Sibylle Puntscher, PhD, Beate Jahn, PhD, Andrea Manca, PhD, MSc, Bernhard Holzner, PhD, Eva Gamper, PhD, Wolfgang Willenbacher, MD, Roman Weger, Lucia Neppi, Dan Greenberg, PhD, Uwe Siebert, MD, MPH, MSc, ScD, Ursula Rochau, MD, MSc

PS3-36 (PSPE)
Factors Influencing Antibiotic Consumption Behaviour - an Explorative Study
Mirko Ancillotti, MA, Stefan Eriksson, PhD, Jorien Veldwijk, PhD, Jessica Nihlen Fahlquist, PhD, Dan Andersson, PhD, Tove Godskesen, RN, PhD

09:30 – 11:00 Aalmarktzaal, 1st Floor
Concurrent Oral Abstract Session 3I: Methodological Issues in Preference Assessment
Session Moderators: M. Elske van den Akker-van Marle, PhD (The Netherlands) and Esther W. de Bekker-Grob, PhD (The Netherlands)

09:30 Harnessing an Iterative Survey Design with Large-Scale Observational Data to Predict Individual 3I-1 Decision-Making Based on Stated and Revealed Preferences: The Case of Blood Donation (PSPE)
Kaat De Corte, Sarah Willis, John Cairns, Richard Grieve, PhD

09:45 Mapping the Generic EORTC QLQ-C30 and the QLQ-H&N35 to the EQ-5D Using Data from 3I-2 Patients with Head and Neck Cancer (PSPE)
Ann-Jean Beck, MD, Jacobien Kieffer, PhD, Valesca Retel, PhD, Lydia van Overveld, Robert Takes, MD PhD, Michiel van den Brekel, MD PhD, Wim van Harten, MD PhD, Martijn Stuiver, PhD

10:00 Mapping Pemb-Qol to Generic EQ-5D-5L in Patients with Pulmonary Embolism, a Cross-Walk Study 3I-3 (PSPE)
Ling-Hsiang Chuang, Sonja Kroep, Pearl Gumbs, Jose M. Rodriguez, Alexander Cohen, Ben Van Hout, Prof, PhD

10:15 The Role of Training Materials in Healthcare Stated Preference Studies: Improved 3I-4 Response Efficiency? (PSPE)
Caroline Vass, PhD, Niall Davison, MSc, Katherine Payne, PhD

10:30 Compendium of Methods for Measuring Patient Preferences in Medical Treatment 3I-5 (PSPE)
Vikas Soekhai, MSc, LL.M., Chiara Whichello, MSc, MA, Bennett Levitan, MD, PhD, Jorien Veldwijk, PhD, Tarek Hammad, MD, PhD, MSc, MS, FISPE, Ulrik Kihlbom, PhD, Eline van Overbeeke, MSc, Selena Russo, PhD, OrgPsych, Ateehsa Mohamed, MA, Richard Hermann, MD, MPH, Isabelle Huys, MSc, PhD, Vaishali Patadia, RD, MPH, Juhaeri Juhaeri, PhD, Esther de Bekker-Grob, PhD

10:45 Shaping Public Expectations for Antibiotics: A Utility-Based Signal Detection Approach 3I-6 (DEC)
Miroslav Sirota, PhD, Alistair Thorpe, BSc, Marie Juanchich, PHD
Tuesday 12 June 2018

09:30 – 11:00 Breezaal, 1st Floor

Concurrent Oral Abstract Session 3J: Prediction
Session Moderators: Torbjørn Wisløff, PhD (Norway) and David van Klaveren, PhD (The Netherlands)

09:30
Forecasting Influenza Vaccination Coverage in Israel: Integrating Personal and Social Drivers
3J-1
Adir Shaham, Gabriel Chodick, Dan Yamin
(DEC)

09:45
Multivariable Outcome Prediction after Endovascular Treatment for Acute Ischemic Stroke: Development of a Prognostic Model in Data from Seven Randomized Controlled Trials
3J-2
Vicky Chalos, MD, Esmee Venema, MD, Maxim J.H.L. Mulder, MD, Bob Roozenbeek, MD, PhD, Scott Brown, PhD, Andrew M. Demchuk, MD, PhD, Keith W. Muir, MD, PhD, Antoni Davalos, MD, PhD, Peter J. Mitchell, MD, PhD, Serge Bracard, MD, PhD, Michael Hill, MD, PhD, Philip White, MD, PhD, Bruce C.V. Campbell, MD, PhD, Francis Guillemin, MD, PhD, Jeffrey L. Saver, MD, PhD, Tudor G. Jovin, MD, PhD, Mayank Goyal, MD, PhD, Ewout W. Steyerberg, PhD, Aad van der Lugt, MD, PhD, Diederik W.J. Dippel, MD, PhD and Hester F. Lingsma, PhD

10:00
Score Risk Function to Predict Cardiovascular Disease Mortality in a Population Outside of Europe: Performance and Challenges
3J-3
Noushin Fahimfar, MD, PhD candidate of Epidemiology, Akbar Fotouhi, MD, PhD, Mohammad Ali Mansournia, MD, PhD, Reza Malekzadeh, MD, Fereidoun Aziz, MD, Marjan Mansourian, PhD, Sadaf G. Sepanlou, MD, PhD, Hamidreza Roohafza, MD, Farzad Hadaegh, MD, Mohammad Hassan Emanian, MD, PhD, Hossein Poushtchi, MD, PhD, Akram Pourshams, MD, Ewout W. Steyerberg, PhD and Davood Khaliili, MD, PhD

10:15
Development of a Personalized Model for Prehospital Decision-Making in Acute Ischemic Stroke
3J-4
Esmee Venema, MD, Hester F. Lingsma, PhD, Vicky Chalos, MD, Maxim J.H.L. Mulder, MD, Maarten Lahr, PhD, Aad van der Lugt, MD, PhD, Adriaan C.G.M. van Es, MD, PhD, Ewout W. Steyerberg, PhD, M.G. Myriam Hunink, MD, PhD, Diederik W.J. Dippel, MD, PhD, Bob Roozenbeek, MD, PhD

10:30
Dynamic Prediction for Patients with High-Grade Extremity Soft Tissue Sarcoma
3J-5
Anja Juana Rueten-Budde, Marta Fiocco
(DEC)

10:45
Validation of Microsimulation Model Predictions Against Long-Term Colorectal Cancer Incidence and Mortality Outcomes from Randomised-Controlled Trials of Colorectal Cancer Screening Using gFOBT
3J-6

09:30 – 11:00 Jan Willem Schaapfoyer, 1st Floor

Concurrent Workshop Session 3K:
Measuring Shared Decision Making Processes: Overcoming Challenges in Developing and Evaluating SDM Questionnaires

Moderators: Anne M. Stiggelbout, PhD, Leiden University Medical Center, Leiden, The Netherlands and Arwen H. Pieterse, PhD, Leiden University Medical Center, Leiden, The Netherlands

Speakers: Fania R. Gaertner, PhD, Leiden University Medical Center, Leiden, The Netherlands, and Hanna Bomhof-Roordink, MSc, Leiden University Medical Center, Leiden, The Netherlands
Tuesday 12 June 2018

09:30 – 11:00
Concurrent Workshop Session 3L:
Modelling Techniques for Estimating Survival in Oncology
Moderator: Maarten Treur, MSc, Pharmerit International, Rotterdam, The Netherlands
Panelists: Sven Klijn, MSc, Pharmerit International, Rotterdam, The Netherlands, Marta Soares, PhD, MSc, University of York, York, United Kingdom, and Ben Van Hout, Prof, PhD, University of Sheffield, Sheffield, United Kingdom

11:00 – 11:30
Morning Tea and Coffee Break

11:30 – 13:00
Concurrent Oral Abstract Session 4M: Patient Decision Making
Session Moderators: Reto Auer, MD, MAS (Switzerland) and Janine A. van Til, PhD (The Netherlands)

11:30
Perceived Awareness of Choice: A Pilot Study
4M-1
Marleen Kunneman, PhD, Corrie A.M. Marijnen, MD PhD, Kim Brandes, Anne M. Stiggelbout, PhD, Arwen H. Pieterse, PhD

11:45
Do Women Being Treated for Breast Cancer Talk with Their Oncologist about the Poorly Controlled Symptoms They Experienced in the Week Prior to Their Clinic Visit?
4M-2
Kathi Mooney, PhD, Meagan Whisenant, PhD

12:00
Improving the Decision Quality for Men with Lower Urinary Tract Symptoms Due to Benign Prostatic Hyperplasia By Using a Decision Aid
4M-3
Isabel de Angst, MD, Fieke van der Wijden, MD, Maarten Cuypers, MSc, Marieke de Vries, PhD, Romy R.E.D. Lamers, MD, Harm van Melick, MD, PhD, Jeltje de Beij, MD, Dennis Oerlemans, MD, PhD, Cees van de Beek, MD, Paul J.M. Kii, MD, PhD

12:15
Implementation of an Information Portal for Patients with Congenital Aortic and Pulmonary Valve Disease: A Stepped-Wedge Cluster Randomized Trial
4M-4

12:30
Assessing the Efficacy of an Educational App for Smartphone or Tablet, Actively Providing Subdivided and Interactive Content to Increase Patients’ Illness Knowledge: A Randomized Controlled Trial
4M-5
Thomas Timmers, MSc

12:45
Mapping Decision-Making Processes and Identifying Decision Points with the Potential to Include Patient Preference Information throughout the Medical Product Lifecycle Among Its Main Stakeholders
4M-6
Chiara Whichello, MSc, MA, Karin Schoelin Bywall, Jonathan Mauer, Stephen Watt, Irina Cleemput, Cathy Anne Pinto, PhD, Eline van Overbeeke, MSc, Rosanne Janssens, Isabelle Huys, MSc, PhD, Richard Hemann, MD, MPH, Jorien Veldwijk, PhD
Tuesday 12 June 2018

11:30 – 13:00 Breezaal, 1st Floor

**Concurrent Oral Abstract Session 4N: Quantitative Methods for Personalized and Value-Based Healthcare**

Session Moderators: Rowan Iskandar, PhD (United States) and Guenther Zauner, MSc (Austria)

**11:30**

The Value of Air Pollution Interventions in West Yorkshire: An Economic Evaluation Considering

4N-1 Multiple Outcomes, Inequality Impacts and Costs Falling on Different Decision Makers

(AHE)

Simon Walker, MSc, James Lomas, PhD, Susan Griffin, PhD, Mark Sculpher, PhD

**11:45**

Using Large Data to Present Uncertainty for Risk Prediction in the Era of Precision Medicine:

4N-2 The Respect Algorithm for Predicting Death at End-of-Life

(QMTD)

Douglas Manuel, MD, MSc, Amy Hsu, PhD, Sarah Spruin, MSc, Carol Bennett, Peter Tanuseputro, MD, MHScc

**12:00**

Implementing Interventions with Varying Marginal Costs and Benefits:

4N-3 An Application in Precision Medicine

(QMTD)

Stuart Wright, BSc, MSc, Mike Paulden, PhD, Katherine Payne, PhD

**12:15**

Combining Multiple Imputation and Bootstrap in the Statistical Analysis of

4N-4 Cost-Effectiveness Trial Data

(QMTD)

Wilbert van den Hout, PhD, Jaap Brand, Saskia le Cessie, Stef van Buuren

**12:30**

Sensitivity Analysis for Not-at-Random Missing Data in Trial-Based Cost-Effectiveness

4N-5 Analysis Using Multiple Imputation

(AHE)

Baptiste Leurent, Manuel Gomes, PhD, Rita Faria, MSc, Steve Morris, Richard Grieve, PhD, James Carpenter, DPhil

**12:45**

Case-Mix Adjustment of Clinical and Patient Reported Outcomes for Value Based Health Care

4N-6 in Acute Stroke Care

(HSOP)

Arvind Oemrawsingh, MSc, Nikki van Leeuwen, MSc, Hester F. Lingsma, PhD

11:30 – 13:00 Jan Willem Schaapfroyer, 1st Floor

**Concurrent Workshop Session 4O:**

Personalized Screening for Breast Cancer: What Values are Needed?

 Moderator: Martina Cornel, MD, PhD, VU University Medical Center, Amsterdam, The Netherlands

Speakers: Anant Jani, MD, PhD, University of Oxford, Oxford, United Kingdom, and Olga Damman, PhD, VU University Medical Center, Amsterdam, The Netherlands

11:30 – 13:00 Cornelis Schuytzaal, Ground Floor

**Concurrent Workshop Session 4P:**

Between-Hospital Differences in Brain Injury: Challenges and Opportunities for Comparative Effectiveness Research and Value-Based Health Care

 Moderator: Hester F. Lingsma, PhD, Erasmus University Medical Center, Rotterdam, The Netherlands

Speakers: Simone A. Dijkstra, MD, Erasmus University Medical Center, Rotterdam, The Netherlands, Jilske Huijben, MD, Erasmus University Medical Center, Rotterdam, The Netherlands, Thomas van Essen, MD, Leiden University Medical Center, Leiden, The Netherlands
Tuesday 12 June 2018

13:00 – 14:30  Grote Zaal, Ground Floor
Poster Session 4 & Lunch

PS4-1 (HSOP)
Are We Treating the Right Patients? from Trials to Guidelines to Clinical Practice
Eveline Wiegers, BSc, Esmee Venema, MD, Diederik W.J. Dippel, MD, PhD, Hester F. Lingsma, PhD

PS4-3 (DEC)
Does Smoker Profile Determine Adoption of a Decision Aid to Improve Evidence-Based Cessation Support Uptake?
Thomas Gultzow, Master of Science, Eline Smit, PhD, Raesita Hudales, Master of Science, Carmen Dirksen, PhD, Ciska Hoving, PhD

PS4-4 (HSOP)
Acceptability and Effects of a Lung Cancer Screening (LuCaS) Decision Aid
Margaret M. Byrne, PhD, Meghan Johnson, Jamie L. Studts, PhD

PS4-5 (HSOP)
Infectious Disease Emergency Department Service Utilization and Disease Burden Among Elderly People in Nursing Homes
Meng-Lun Hsieh, Vivian Chia-Rong Hsieh, PhD

PS4-6 (HSOP)
Randomize Everyone: Creating Valid Instrumental Variables for Learning Health Care Systems
Tor Tosteson, Sc.D., Todd MacKenzie, PhD, John Batsis, MD, MS, Adam Pearson, MD, MS, James Bernat, MD, Jonathan Lurie, MD, MS

PS4-8 (HSOP)
Measuring Physical Ability and Functional Status through Patient Reported Outcomes (PROs)
Joshua Biber, MS, MBA, Anne Thackeray, PhD, MPH, Craig Gale, MS, Heidi Cozart, Howard Weeks, MD, Rachel Hess, MD, MS

PS4-9 (HSOP)
Value-Based Stroke Care: Feasibility of Comprehensive Outcome Measurements in the Stroke Cohort Outcomes of Rehabilitation (SCORE) Study, and Changes in Outcomes over Time
Iris Groeneveld, PhD, Paulien Goossens, MD, PhD, Felicie van Vree, MSc, Jorit Meesters, PhD, Henk Arwert, MD, Radha Rambaran Mishre, Thea P.M. Vliet Vlieland, MD, PhD

PS4-10 (QMTD)
The Use of Markov Models to Disentangle Difference in Patterns of Functioning for Youth and Adolescents with ADHD: Results from the MTA Study
Roel Freriks, MSc, Qi Cao, PhD, Jurjen van der Schans, PhD, Annabeth Groenman, PhD, Pieter Hoekstra, MD, PhD, Erik Buskens, MD, PhD, Maarten Postma, PhD, Jochen Mierau, PhD

PS4-11 (QMTD)
Using Expert Elicitation to Capture Model Uncertainties: Methods for Pooling Experts’ Priors
Dina Jankovic, Msc

PS4-12 (QMTD)
Modeling Personalized Adjuvant Treatment in Early Stage Colon Cancer (PATTERN)
Gabrielle Jongeneel, Marjolein JE Greuter, Felice N van Erning, Miriam Koopman, Cornelis JA Punt, Geraldine R Vink, Veerle MH Coupe
Tuesday 12 June 2018

13:00 – 14:30
Poster Session 4 & Lunch continued

Grote Zaal, Ground Floor

**PS4-13 (QMTD)**
A New Software Tool to Compute the Expected Value of Sample Information - an Application to the Homehealth Intervention
Anna Heath, Rachael Hunter, Gianluca Baio

**PS4-15 (AHE)**
Economic Evaluation of Culprit Lesion Only PCI Versus Immediate Multivessel PCI in Acute Myocardial Infarction Complicated By Cardiogenic Shock: The Culprit-SHOCK Trial
Jose Robles-Zurita, PhD, Andrew Briggs, DPhil, Zahidul Quayyum, PhD, Keith Oldroyd, MD, Uwe Zeymer, MD, Steffen Desch, MD, Suzanne de Waha, MD, Holger Thiele, MD

**PS4-16 (AHE)**
The Irrelevance of ICERs
Mike Paulden, PhD

**PS4-17 (AHE)**
Surveying the Cost-Effectiveness of the Twenty Procedures with the Largest Public Health Services Waiting Lists in Ireland: Implications for Ireland’s Cost-Effectiveness Threshold
Tse Chiang Chen, MSc, Dane Wanniarachige, MA, Siofra Murphy, , Katie Lockhart, James O’Mahony, PhD

**PS4-18 (AHE)**
Missing Data in Trial-Based Cost-Effectiveness Analysis: A Review of the Current Practice
Baptiste Leurent, Manuel Gomes, PhD, James Carpenter, DPhil

**PS4-19 (AHE)**
Predicting Overall Survival and Progression-Free Survival for Extensive Stage Small-Cell Lung Cancer Treated with Prophylactic Cranial Irradiation with or without Thoracic Radiotherapy
Simone Rauh, Marjolein Greuter, Harm van Tinteren, Paul Cobussen, Ben Slotman, Veerle Coupe

**PS4-20 (AHE)**
Assessment of Current Use of Budget Impact Analyses for the Evaluation of Cancer Screening Programs
Beate Jahn, PhD, Jovan Todorovic, MD, Marvin Bundo, MD, Gaby Sroczynski, MPH, Dr.PH, Annette Conrads-Frank, PhD, Ursula Rochau, MD, MSc, Jagpreet Chhatwal, PhD, Dan Greenberg, PhD, Josephine Mauskopf, PhD, Uwe Siebert, MD, MPH, MSc, ScD

**PS4-21 (AHE)**
An Integrated Heart Failure Programme Management in the Basque Country
Igor Larrañaga, Arantxazu Arrospide, Ricardo San Vicente, Aitziber Barandiaran, Adolfo Ruiz de Austri, Idoia Larrañaga, Itziar Perez, Jesus Millas

**PS4-22 (DEC)**
The Impact of Disease Labels on Disease Experience in Patients with Prolonged Incurable Cancer: A Qualitative Study
Veerle Busink, Vincent Ho, Donald van Tol, Hilde Buiting

**PS4-23 (DEC)**
The Doctor-Patient Relationship in General Practice. How Quality of Communication, Trust, and Epistemological Beliefs about Medicine Affect Satisfaction after Medical Consultations
Serena Petrocchi, Paola Iannello, Flavia Lecciso, Alessandro Antonietti, Peter Schulz, PhD
Tuesday 12 June 2018

13:00 – 14:30  Grote Zaal, Ground Floor
Poster Session 4 & Lunch continued

**PS4-25 (DEC)**
Development of a Web-Based Patient Decision Aid for Disease-Modifying Drugs in Multiple Sclerosis
Ingrid Kremer, MSc, Mickael Hiligsmann, PhD, Silvia Evers, PhD, LLM, Peter Jongen, PhD, MD

**PS4-26 (DEC)**
The Evaluation of Ovarian Cancer Patients’ Perception of the Medical Information Given after the Primary Diagnosis
Judith den Ouden, MD, Regina The, Ir., Anne van Altena, MD, PhD

**PS4-27 (DEC)**
Variations in Discussion Rate on Colorectal Cancer (CRC) Screening Among Previously Untested Patients in Primary Care and Decision Taken after Discussion: Results from a Systematic Data Collection in the Swiss Sentinel Network
Yonas Martin, Emanuele Prati, Leonhard Braun, Charles Dvořak, Kali Tal, Nikola Biller-Andorno, Jean-Luc Bulliard, Jacques Cornuz, Kevin Selby, Reto Auer

**PS4-28 (DEC)**
How Counselors Communicate Uncertainty about Multigene Panel Testing for Cancer. an Observational Study
Niki Medendorp, Marij Hillen, PhD, Pomme van Maarschalkerweerd, Cora Aalfs, Anne M. Stiggelbout, PhD, Ellen Smets

**PS4-29 (DEC)**
Review on Existing Decision Aids Supporting Shared Decision Making in Colorectal Cancer Screening
Marvin Bundo, MD, Beate Jahn, PhD, Gaby Sroczyński, MPH, Dr.PH, Ursula Rochau, MD, MSc, Marieke de Vries, PhD, Bernhard Streicher, PhD, Nikolai Muehlberger, DVM, MPH, Silvia Angerer, PhD, Herbert Tilg, Dr, Uwe Siebert, MD, MPH, MSc, ScD

**PS4-30 (DEC)**
Patient-Clinician Communication and Adherence to Oral Chemotherapy
Jennifer Elston Lafata, PhD, Daniel Gratie, PharmD, Bobbie Nguyen

**PS4-31 (DEC)**
Introducing Clinical Decision Making in Undergraduate Training: Experiences from Countries Worldwide
Rina Triasih, Dr, MMed(Paed), Luc Debaene, MD, Rodrigo Henriquez, MD, Paulin Basinga, PhD, Jef Van den Ende, MD, PhD

**PS4-32 (PSPE)**
Conditions to Achieve Informed Reproductive Decisions in Prenatal Screening: A Mixed Methods Study
Dalisa Van den IJssel, Msc, Olga Damman, PhD, Lidewij Henneman, PhD, Danielle Timmermans, PhD

**PS4-33 (PSPE)**
Do’s and Don’ts for Informed Consent Around Childbirth: Perspective of Patients and Healthcare Professionals
Bo Hacking, Dana Huppelschoten, Annemijn Aarts, Jeroen van Dillen

**PS4-35 (PSPE)**
Estimating the Impact of Direct-to-Consumer Advertising on Preferences for Pharmacy Only Medicines
Stephen Goodall, PhD, Rosalie Viney, PhD, Deborah Street, PhD

**PS4-36 (PSPE)**
Differences between Video and Description in Discrete Choice Experiments: Upper Limb Prosthetic Motion
Leslie Wilson, PhD, David Szeto, PharmD, Matthew Garibaldi, Prosthetist, MS, Fatema Turkistani, PhD
Tuesday 12 June 2018

14:30 – 16:00  Aalmarktzaal, 1st Floor

Concurrent Oral Abstract Session 5Q: Physician Decision Making, Risk Attitudes and Risk Communication
Session Moderators: Marieke de Vries, PhD (The Netherlands) and Jesper Bo Nielsen, PhD (Denmark)

14:30  The Option-Old: Measuring the Extent to Which Clinicians Involve Older Patients and Informal Caregivers in Triadic Decision-Making
5Q-1  (DEC)
Ruth Pel-Littel, Msc, Bianca Buurman, PHD, Marjolein van de Pol, PHD, Nida Gizem Yilmaz, Msc, Linda Tulner, MD, Mirella Minkman, PHD, Wilma Scholte op Reimer, PHD, Glyn Elwyn, MD, MSc, PhD, Julia Van Weert, PhD

14:45  Referral Decision Making of General Practitioners: A Signal Detection Study
5Q-2  (DEC)
Olga Kostopoulou, PhD, Martine Nurek, PhD, Grace Okoli, PhD, Francesca Fiorentino, PhD, Brendan Delaney, MD

15:00  Logistic and Hybrid Lens Models Applied to Physician Decision Whether to Refer for Possible Cancer
5Q-3  (DEC)
Robert M. Hamm, PhD, Olga Kostopoulou, PhD, Martine Nurek, PhD

15:15  Impact of Probability Distortion on Medical Decisions: A Field Study
5Q-4  (HSOP)
Marine Hainguerlot, Vincent Gajdos, Karen Milcent, Jean-Christophe Vergnaud

14:30 – 16:00  Breezaal, 1st Floor

Concurrent Oral Abstract Session 5R: Evaluations of Cancer Interventions
Session Moderators: Gaby Sroczynski, MSc, PhD (Austria) and Natasha Stout, PhD (United States)

14:30  Miss Rate for Colorectal Adenoma of Daily Practice Conventional Colonoscopy Determined By Tandem Studies: A Systematic Review and Meta-Analysis
5R-1  (HSOP)
Marvin Bundo, MD, Beate Jahn, PhD, Marjan Arvandi, MS, Gaby Sroczynski, MPH, Dr.PH, Uwe Siebert, MD, MPH, MSc, ScD

14:45  Calibrating Models of Cancer Treatment to Overall and Progression-Free Survival Curves: Consistently Reflecting Uncertainty and Heterogeneity
5R-2  (QMTD)
James Barnes, MD, MS, John Lin, MD, Jeremy D. Goldhaber-Fiebert, PhD

15:00  Risk Stratification of HPV-Positive Women in Cervical Cancer Screening Using Results from Two Consecutive Screening Rounds
5R-3  (HSOP)
Nicole Polman, Nienke Veldhuijzen, Danielle Heideman, Peter Snijders, Chris Meijer, Johannes Berkhof

15:15  Cost-Effectiveness of Ovarian Cancer Screening in Austria: A Model-Based Economic Evaluation
5R-4  (AHE)
Artemisa Gogollari, Mag.sc.hum. Dr med, Gaby Sroczynski, MPH, Dr.PH, Wilhelm Oberaigner, Assoc-Prof Priv.-Doz. Dr, Uwe Siebert, MD, MPH, MSc, ScD

15:30  A Conceptual Model for Technology Assessment of Next Generation Sequencing in Personalized Oncology (TANGO)
5R-5  (HSOP)
Valesca Retel, PhD, Veerle MH Coupe, Talitha Feenstra, PhD, Prof. Maarten J. IJzerman, PhD, Hendrik Koffijberg, PhD, Manuela Joore, PhD, Carin Uyl-de Groot, PhD, Geert Frederix, PhD, Michel van de Ven, Msc, Martijn Simons, Msc, Clemence Pasmans, Msc, Wim van Harten, MD PhD

15:45  Are Prophylactic Surgeries an Effective and Cost-Effective Strategy for Breast and Ovarian Cancer Prevention in German Women with BRCA-1/2 Mutation? - a Decision-Analytic Evaluation
5R-6  (AHE)
Lara R. Hallsson, MPH, Dr., Gaby Sroczynski, MPH, Dr.PH, Jutta Engel, Prof., Dr.med., MPH, Martin Widschwendter, PhD, Uwe Siebert, MD, MPH, MSc, ScD
14:30 – 16:00  
**Jan Willem Schaapfoyer, 1st Floor**

**Concurrent Workshop Session 5S:**
From Clinical Trials to Individual Patients: Understanding Heterogeneity of Treatment Effect for Personalized and Value-Based Healthcare

**Moderator:** Ewout W. Steyerberg, PhD, Leiden University Medical Center, Leiden, The Netherlands

**Speakers:** David M. Kent, MD, MS, Tufts University Medical Center, Boston, MA, United States and David van Klaveren, PhD, Leiden University Medical Center, Leiden, The Netherlands

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14:30 – 16:00  
**Cornelis Schuytzaal, Ground Floor**

**Concurrent Workshop Session 5T:**
Model-Based Health Economic Evaluation of Diagnostic Tests and Biomarkers: Handling the (lack of) Evidence

**Moderator:** Hendrik Koffijberg, PhD, University of Twente, Enschede, The Netherlands

**Speakers:** Marta Soares, PhD, MSc, University of York, York, United Kingdom, Martin Henriksson, PhD, Linkoping University, Linkoping, Sweden, Michele M.A. Kip, University of Twente, Enschede, The Netherlands

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16:00 – 17:00  
**Aalmarktzaal, 1st Floor**

**Closing Ceremony and European Lee B. Lusted Student Awards**

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17:00 – 18:30  
**Offsite**

**Closing Reception at Leiden City Hall**
All conference attendees are invited to attend a closing reception at Leiden City Hall. There is no additional cost to attend as this reception is included with your conference registration.
Acknowledgements
The Society for Medical Decision Making gratefully acknowledges the following organizations for their support of the 17th Biennial European Conference. Support from these organizations does not imply endorsement of meeting content and the views expressed by these organizations are of their own accord and not necessarily endorsed by SMDM.

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