

# **Economics Modelling and Diabetes: The Mount Hood 2012 Challenge**

## **DRAFT Conference Program**



**Johns Hopkins Mount Washington Conference Center  
Baltimore, Maryland, USA.  
7-8 June 2012**

*(Subject to change)*

## ***Economics, Modelling and Diabetes: The Mt Hood 2012 Challenge***

### **Location**

The symposium will be held at the Mt. Washington Conference Center  
5801 Smith Avenue Baltimore, MD 21209; Phone: 410.735-7964

### **Registration**

Registration will be from 8:30am onward on Thursday 7<sup>th</sup> June The conference will conclude at 3:15 Friday 8<sup>th</sup> June 2012.

### **Pre-conference Reception at Mount Washington.**

Wednesday 6 June 6.00-7.00 pm. Transport into Baltimore will be available after the reception for those wanting to have dinner in the city. Dinner on 6 June is not included in the conference.

### **Accommodation**

If you have not already reserved accommodation, you can still call the reservations desk at Mount Washington (800) 488-8734. If they have no more rooms available they will be able to advise on booking a room at the Radisson nearby. Quote 'Mount Hood' to be given the conference rate.

**DRAFT PROGRAM**  
**Economics, Modelling and Diabetes:**  
**Mount Hood 2012**

<b>Day 1</b>	<b>Thursday 7th June 2012</b>		
8:30-9:00am	<b>REGISTRATION</b>		
9:00-9:10am	<b>Welcome – Prof Philip Clarke</b> <b>Location: Pullen Plaza</b>		
9:10-11:00am	<b>Mt Hood Five: Validation Challenges</b> Chair: Dr Elbert Huang, University of Chicago 7 Groups presenting a (very brief) overview of their model & interpretation of major validation results (15 minutes per model) <ol style="list-style-type: none"> <li>1. CORE Diabetes Model</li> <li>2. IHE Model</li> <li>3. UKPDS Outcomes Model</li> <li>4. Cardiff Model</li> <li>5. Reference Model</li> <li>6. CDC-RTI Diabetes Cost-Effectiveness Model</li> <li>7. MICADO: Modelling Integrated Care for Diabetes based on Observational</li> </ol> <b>Location: Pullen Plaza</b>		
11:00-11:30am	<b>Tea and Coffee</b>		
11:30am-12:30pm	<b>Discussion of Validation Results</b> <b>Chair: Prof Louis W. Niessen</b> <b>Location: Pullen Plaza</b>		
12:30-1:30 pm	<b>Lunch</b>		
1:30-3:00pm	<b>Conference session 1</b> 4 Abstracts (20 minutes each)	<b>Conference session 2</b> 4 Abstracts (20 Minutes each)	<b>Conference session 3</b> 4 Abstracts (20 Minutes each)
3:00-3:30pm	<b>Tea and Coffee</b>		
3:30-5:00pm	<b>Conference session 4</b> 4 Abstracts (20 minutes each)	<b>Conference session 5</b> 4 Abstracts (20 Minutes each)	<b>Conference session 6</b> 4 Abstracts (20 Minutes each)
5:00- 6:00pm	<b>Business meeting: Where to next with Mt Hood?</b> Chair: Prof Philip Clarke		
7:00pm onwards	<b>CONFERENCE DINNER</b> At the Mt Washington Conference Centre		

## ***Mt Hood 2012 Challenge***

<b>Day 2</b>	<b>Friday 8<sup>th</sup> June 2012</b>
9:00-11:00am	<p><b><i>How should we deal with uncertainty in diabetes models?</i></b>  Chair: <b>Prof Andrew Palmer</b></p> <p>Overview of Mt Hood 5 Uncertainty Challenge results &amp; discussion by participating modelling groups</p> <p><b>Location: Pullen Plaza</b></p>
11:00-11:30am	<b><i>Tea and Coffee Break</i></b>
11:30am-12:15noon	<p><b><i>What have the Mt Hood 5 challenges revealed</i></b>  Chair: Alison Hayes</p> <p>Further discussion of challenges &amp; discussion of possible write-up of proceedings</p> <p><b>Location: Pullen Plaza</b></p>
12:15-1:15pm	<b><i>Lunch (close)</i></b>
1:15-2:15	<p><b><i>What can we learn from cancer simulation modelling?</i></b>  <b>Chair: Alastair Gray</b>  <b>Speakers:</b>  Prof Ruth Etzioni, Fred Hutchinson Cancer Research Center, Seattle, USA.  Dr. Iris Lansdorp-Vogelaar, Department of Public Health, Erasmus University Medical Center, The Netherlands.</p>
2:15-3pm	<b><i>General discussion</i></b>
3:00-3:15	<b><i>Wrap up</i></b>
<b><i>CLOSE (Afternoon Coffee to finish)</i></b>	

## List of abstracts for conference sessions

### SESSION 1

**Presentation 1:** *An improved model to estimate lifetime health outcomes of patients with Type 2 diabetes using long-term follow-up data from the United Kingdom Prospective Diabetes Study (UKPDS)*

**Authors:** Alison Hayes, Philip Clarke, Jose Leal, Maria Alva, Ruth Coleman, Alastair Gray and Rury Holman

**Presentation 2:** *The Importance of HbA1c Evolution in Cost-Effectiveness Modeling of Type 2 Diabetes Mellitus (T2DM)*

**Authors:** Michael Willis, Jianming He, Cheryl Neslusan, Pierre Johansen<sup>1</sup>

**Presentation 3:** *Correlating cost effectiveness output with patient level data input via the IMS Core Diabetes Model (CDM)*

**Authors:** Phil McEwan, Volker Foos, Adam Lloyd, James Palmer, Mark Lamotteand, David Grant

**Presentation 4:** *Development and Validation of a New Coronary Heart Disease Model for Type 2 Diabetes*

**Authors:** Wen Ye, Michael Brandle, Morton Brown, and William Herman

### SESSION 2

**Presentation 1** *Modelling the Effects of Gestational Diabetes Mellitus on Maternity Care and Costs in Ireland*

**Authors:** Paddy Gillespie, Ciaran O'Neill, John Cullinan, Fidelma Dunne, For the ALANTIC DIP Collaborators

**Presentation 2:** *The cost of diabetes complications in Belgium.*

**Authors:** Mark Lamotte, Pierre Chevalier, Volker Foos, Phil McEwan, Adam Lloyd, James Palmer, and David Grant

**Presentation 3:** *Inpatient costs for people with diabetes in England: An economic analysis*

**Authors:** Kerr M.

**Presentation 4:** *Estimating the costs of prescribed medicines attributable to people with diabetes in Scotland*

**Authors:** L Govan, O Wu, A Briggs, RS Lindsay on behalf of the Scottish Diabetes Research Network Epidemiology Group

### SESSION 3

**Presentation 1:** *Screening and treatment change for patients with monogenic diabetes: a two-stage decision model*

**Authors:** Jaime L Peters, Rob Anderson, Chris Hyde

**Presentation 2:** *Modelling decision-making for therapy for type 2 diabetes using the Analytic Hierarchy Process (AHP)*

**Authors:** Nisa M. Maruthur, John F. P. Bridges, Susan M. Joy, Emily Little, Sonal Singh

**Presentation 3:** *Impact of Delaying Blood Pressure Control in Patients with Type 2 Diabetes: Results of a Decision Analysis*

**Authors:** Neda Laiteerapong, Priya M. John, David O. Meltzer, Elbert S. Huang,

**Presentation 4:** *Modeling the cost-effectiveness of diabetes genetic testing*

**Authors** Priya M. John, Elbert S. Huang

### SESSION 4

**Presentation 1:** *Development and validation of a cost-utility model for type 1 diabetes mellitus*

**Authors:** Wolowacz S, Pearson I, Roskell N, Shannon P, Chubb B, Gundgaard J, Davies M, Briggs A

**Presentation 2:** *Cost-effectiveness of renal screening strategies and treatment options for patients with type 1 diabetes in the United Kingdom*

**Authors:** Thomas Lung,

**Presentation 3:** *The cost-effectiveness of screening and treatment of gestational diabetes including prevention of Type-2 Diabetes Mellitus: Application of a new model in India and Israel*

**Authors:** Elliot Marseille, Nicolai Lohse, Aliya Jiwani, Moshe Hod , V. Sheshiah, C.V. Yajnik, G. AroraV, Balaji, Ole Henriksen, Nicky Lieberman, Rony Chen, Peter Damm, Boyd Metzger, James G. Kahn

**Presentation 4:** *Inpatient and Outpatient resource utilization of type-2 diabetes patients*

**Authors:** Maria Alva , Alastair Gray PhD 1, Borislava Mihaylova DPhil 1, Rury R Holman FRCP

## SESSION 5

**Presentation 1:** *Implications of non-normality in cost distributions for health economic modelling in type 2 diabetes mellitus (T2dm)*

**Authors:** Anna Teschemaker, Michael Willis, Chyi-Hung Hsu, Cheryl Neslusan, Jianming He

**Presentation 2:** *Adapting and validating diabetes simulation models across settings: Accounting for mortality differences using administrative data from Australia*

**Authors:** Alison Hayes, Wendy Davis, Timothy Davis, and Philip Clarke

**Presentation 3:** *Minimum run-time requirements to reduce Monte Carlo error in stochastic simulations*

**Authors:** Volker Foos, Phil McEwan, Adam Lloyd, James Palmer, Mark Lamotte and David Grant

**Presentation 4:** *Using computing power to aid chronic disease modeling*

**Authors:** Jacob Barhak

## SESSION 6

**Presentation 1:** *Identifying the treatment preferences of patients with type 2 diabetes: A systematic review*

**Authors:** Susan M., Joy Sonal Singh, Nisa M. Maruthur, Emily Little, John F. P. Bridges

**Presentation 2:** *How to account for psychological determinants of treatment response in simulation models of behavioural interventions for diabetes*

**Authors:** J. Kruger and A. Brennan

**Presentation 3:** *Simulating Randomized Clinical Trials with the SimCare Patient Model*

**Authors:** Ryan M McCabe, Paul E Johnson, George Biltz, Patrick J O'Connor, JoAnn Sperl-Hillen, William A Rush, Autri Dutta, Mohamed Elidrisi, Georg Meyer

**Presentation 4:** *Expenditure variation in diabetes care in Danish general practice clinics*

**Authors:** Troels Kristensena, Kim Rose-Olsena, Camilla Sortsøa, Charlotte Ejerstedc, Anders Halling