# **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

Day 1	Thursday 7th June 2012		
8:30-9:00am	REGISTRATION		
9:00-9:10am	Welcome – Prof Philip Clarke		
	Location: Pullen Plaza		
9:10-11:00am	Mt Hood Five: Validat	_	
	Chair: Dr Elbert Huang, University of Chicago		
	<ul> <li>7 Groups presenting a (very brief) overview of their model &amp; interpretation of major validation results (15 minutes per model)</li> <li>1. CORE Diabetes Model</li> <li>2. IHE Model</li> <li>3. UKPDS Outcomes Model</li> </ul>		
	4. Cardiff Model		
	5. Reference Model		
	<ul> <li>6. CDC-RTI Diabetes Cost-Effectiveness Model</li> <li>7. MICADO: Modelling Integrated Care for Diabetes based on</li> </ul>		
	Observational		
	Location: Pullen Plaza		
11:00-11:30am	Tea and Coffee		
11:30am-12:30pm	Discussion of Validation	on Results	
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11:30am-12:30pm 12:30-1:30 pm 1:30-3:00pm	Chair: Prof Louis W. N. Location: Pullen Plaze  Conference session 1  4 Abstracts	Lunch Conference session 2 4 Abstracts (20 Minutes each)	4 Abstracts
11:30am-12:30pm 12:30-1:30 pm 1:30-3:00pm	Chair: Prof Louis W. N. Location: Pullen Plaze  Conference session 1  4 Abstracts (20 minutes each)	Lunch Conference session 2 4 Abstracts (20 Minutes each)  Tea and Coffee	4 Abstracts (20 Minutes each)
11:30am-12:30pm 12:30-1:30 pm 1:30-3:00pm	Conference session 1 4 Abstracts (20 minutes each)  Conference session 4	Lunch Conference session 2 4 Abstracts (20 Minutes each)  Tea and Coffee Conference session 5	4 Abstracts (20 Minutes each)  Conference session 6
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# Mt Hood 2012 Challenge

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

# 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 Johansen1

**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