

**7th IMA International Conference on Quantitative Modelling in the Management of Health and Social Care
Woburn House, London, Monday 25- Wednesday 27 March 2013**

Final Programme

Time	Monday 25 th March	Time	Tuesday 26 th March	Time	Wednesday 27 th March
		9:00	Keynote: Stephen Chick Chair: <i>Christos Vasilakis</i>		
10.00	Registration, Coffee	9.45	Transition Break	10:00	Plenary Session Chair: <i>Sally Brailsford</i>
10.30	Welcome by Conference Committee	9.50	Parallel Sessions 3 A-Chair: <i>Honora Smith</i> B-Chair: <i>John Blake</i>	11.30	Coffee Break
10.55	Keynote: Martin Utley Chair: <i>Martin Pitt</i>	11.10	Coffee Break	12.00	Keynote: Geoff Royston Chair: <i>Thierry Chausalet</i>
11.40	Parallel Sessions 1 A-Chair: <i>Salma Chahed</i> B-Chair: <i>Simon Jones</i>	11.40	Parallel Sessions 4 A-Chair: <i>Naoru Koizumi</i> B-Chair: <i>Eren Demir</i>	12.45	Closing Remarks etc
1.00	Lunch	1.00	Lunch	1.00	Lunch
2.00	Parallel Sessions 2 A-Chair: <i>Eren Demir</i> B-Chair: <i>Terry Mills</i>	2.00	Keynote: Peter Smith Chair: <i>Simon Jones</i>		
3.20	Coffee Break	2.45	Transition Break		
3:50	Posters Introduction Chair: <i>Christos Vasilakis</i>	2.50	Parallel Sessions 5 A-Chair: <i>Paulo Lisboa</i> B-Chair: <i>Adele Marshall</i>		
4.30	Keynote: Charles Alessi Chair: <i>Thierry Chausalet</i>	3.50	Coffee Break		
5.20	Transition Break	4.20	Keynote: David Paynton Chair: <i>Sally Brailsford</i>		
5.30	Drinks Reception with Posters	5.05-5:30	Plenary Discussion Chair: <i>Martin Pitt</i>		
7.30	Conclude	7.30	Reception and Dinner: Russell Hotel		

All contributed presentations within parallel sessions are allocated a 20 minute slot, including set-up and questions.

Keynote Speakers

Dr Charles Alessi
Professor Stephen E. Chick
Dr David Paynton

Dr Geoffrey Royston
Professor Peter Smith

Professor Martin Utley

**Implications of personalisation. The new health care
New challenges and opportunities for health modelers
Leading System Change - the Challenge facing Clinical
Commissioning Groups
Measures, models and management - who cares?
Quantitative modelling and health policy: mutual friends
or hard times?
Can numbers fill the empty words, the meaningless
diagrams?**

All keynote presentations are in the Main Hall.

Sponsors:



POSTER PRESENTATIONS

Special Poster session: 5:30-7:30pm: Monday 25 March, Main Hall

1	Samantha Husbands	What guidance currently exists for the process of decision-analytic model building?
2	Sophie Beale	Model to Estimate the Cost-Effectiveness of Venom Immunotherapy: A Chocolate Teapot?
3	Apostolos Fakis	Development and Testing of Scoring Systems for Quantifying Qualitative Data through Structural Equation Modelling: A Pilot Study
4	Narayanan C. Viswanath	A Markov Model Based Study of Viral Blip Characteristics in HIV Patients
5	Caroline Hosatte-Ducassy	Planning healthcare and social services for an aging population: simulation model for the continuum of care for elderly in Québec
6	Haniyeh Sadate Sajadi	Measuring the social responsibility of hospitals: an empirical study in the health sector
7	George Katharakis	SFA Towards DEA in Measuring Hospital Units' Efficiency
8	Thiago Magalhães Amaral	Integrating Multi-criteria Evaluation with the Theory of Constraints: An Application in the Emergency Department of a Brazilian hospital
9	Manisha Rathi	A novel fuzzy regression approach for modelling the risk of hospital admission
10	Mohamed Tadjer	Using Simulation for health system understanding: an application to urgent care
11	Debasree DasGupta	Analyzing Geographic Disparity in Cold Ischemia Time (CIT) in Deceased-donor Adult Kidney Transplantation in the US
12	Anthony Virtue	A Healthcare Planning A&E Modelling Tool
13	Jennifer Gillespie	Redistributing Staff for an Efficient Orthopaedic Service
14	Diane Lambert	Modelling the pathways of integrated care through simulation
15	Philip Worrall	A Structured Review of Demand Forecasting Methodologies in Long-Term Care
16	Jevgenija Pavlova	Blood Clot Formation: Mathematical Modeling and Numerical Simulations

PARALLEL SESSIONS MONDAY

Parallel Session 1: 11.40am-1.00pm : Monday 25 March					
A [Main Hall]: Supply and Distribution			B [Board Room]: Risk Assessment and Classification		
17	Honora Smith	Blood matters!	21	Eren Demir	A Decision Support Tool for Predicting Patients at Risk of Readmission: A Comparison of Classification Trees, Logistic Regression, Generalized Additive Models, And Multivariate Adaptive Regression Splines
18	John Blake	Developing a Generic Simulation Model to Represent a Blood Distribution Network	22	Rene Gaudoin	Classifier calibration using splined empirical probabilities
19	Naoru Koizumi	Forming optimal organ allocation boundaries for liver transplantation: Integer programming and simulation approaches	23	Norman Poh	Inferring diseases from routinely collected data: A probabilistic ontology- and data-driven approach
20	Frank Y. Chen	Inefficiency in the Influenza Vaccine Supply Chain and Interventions: a Two Period Model	24	Alex Bottle	Comparison of classification algorithms for mortality and readmission

Parallel Session 2: 2.00pm-3.20pm : Monday 25 March					
A [Tavistock]: Quality, Performance and Assessment			B [Board Room]: Workforce Planning		
25	Sandra Suelz	Treatment speed and high load in the Emergency Department – Does staff quality matter?	29	John R Ansah (for Sean R. Love)	Projecting the effects of long-term care policy on labour market participation of unpaid primary caregivers of older adults: Insights from a dynamic simulation model
26	Adolf Stepan	Efficiency and Technology and Their Impact on Hospital Performance – Evidence From Austrian Hospitals	30	John Bowers	Call which midwife?
27	Pelham Barton	Adapting a national policy model to local contexts: the case of transient ischaemic attack	31	Thérèse A. Stukel	Multispecialty Physician Networks in Ontario
28	Mark Strong	Fast efficient computation of Value of Information from a Probabilistic Sensitivity Analysis sample: a non-parametric regression approach	32	Janneke A. Wilschut	Reallocating professionals in mental health care: a cost function model approach

PARALLEL SESSIONS TUESDAY

Parallel Session 3: 9.50-11.10am : Tuesday 26 March					
A [Main Hall]: Forecasting and Data Analysis			B [Board Room]: Scheduling, Pathways, Planning		
33	Terry Mills	Methods for forecasting the incidence of cancer	37	Thu Ba T. Nguyen	An Approach for reducing access time to outpatient clinic
34	Francesca Ieva	Risk Prediction for Acute Myocardial Infarction via Generalized Functional Regression Models	38	Sally Brailsford	A hybrid simulation model for age-related macular degeneration
35	Christina Pagel	Forecasting short term demand for beds on the cardiac intensive care unit at Great Ormond Street Hospital: building a new software tool with the clinical team	39	Louis-Martin Rousseau	Online Optimization of Radiotherapy Patient Booking
36	Mark Joy	An Application of a Novel Clustering Algorithm to Healthcare Data	40	Adele Marshall	Introducing Survival Planes to represent patient length of stay in hospital

Parallel Session 4: 11:40-1.00pm : Tuesday 26 March					
A [Main Hall]: Community Care & Public Health			B [Board Room]: Cost Analysis and optimization		
41	Jessica Richardson	Why a Quality and Outcomes Research Unit (QuORU)?	45	Daniel Chalk	Can the retinal screening interval be safely increased to 2 years for Type 2 diabetic patients without retinopathy?
42	Will Sullivan	Drinking and Smoking: Two Health Behaviours That Should Be Considered Together?	46	Sally McClean	Using Phase-type Models to Cost Stroke Patient Care across an integrated care system
43	Muhammad Saiful Islam	Impact of Climate Change on emergency hospital admissions: a case study for Greater London	47	Adam Wagner	Capturing the Costs of 'Interventions' in Community Services: The feasibility and acceptability of an extended methodology for costing community services
44	P.J.G. Lisboa	Quantitative Modelling to Guide the Commissioning of Multi-Sectoral Interventions	48	Zalihe Yarkiner	Application of Linear Mixed Models on General Practice Data: A Case Study in Chronic Kidney Disease (CKD) in The UK

Parallel Session 5: 2.50am-3.50pm : Tuesday 26 March

<i>A [Main Hall]: Community and International</i>			<i>B [Board Room]: Scheduling, Pathways, Planning</i>		
49	N. Hussaini	Modelling the Impact of Voluntary Counselling and Testing on HIV/AIDS With Particular Reference to Nigeria	52	Pan Chong	Patient Flow Improvement for a Specialist Outpatient Clinic with Variations of Pre-Consult and Post-Consult Services in the Singapore National Eye Centre
50	Gerhart Knerer	Potential impact of combined vector-control and vaccination strategies on transmission dynamics of dengue fever	53	Nathan Huynh	Unbundled versus Bundled Nurse Medication Administration Process: Preliminary Findings of a Pilot Field Study
51	E Mushota Kabaso	Long-Term Survival Estimates and Economic Costs of Antiretroviral Therapy (ART) in Zambia: A simulation model	54	Sarah Dalton	What constitutes a normal patient pathway?

PLENARY SESSION WEDNESDAY**Plenary Session 6: 10.00-11.30am :
Wednesday 27 March, Main Hall**

<i>Policy and Implementation</i>		
55	Sonya Crowe	Use of modelling to inform public health policy: a case study on the blood-borne transmission of variant-CJD
56	Simon Jones	Does reducing length of stay result in an increase in readmissions?
57	Michael Pidd	Some important challenges for healthcare systems modelling
58	Martin Pitt	Making An Impact – How Can We Get Our Models Working For The Nhs?