

 MASHnet	<p><i>A one day workshop</i></p> <p>MODELLING AND SIMULATION IN A CHANGING NHS</p> <p>Friday 12th Nov 2010 at Cavendish Conference Centre, Tower Hill, London</p>	<p>Health Services Research Network</p>
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“... [NHS] efficiencies can be driven and services redesigned to achieve the twin aims of improved quality and efficiency. Work has started on implementing what is required ...”

Equity and excellence: Liberating the NHS. Government White Paper. Dept of Health. July 2010

“.. modelling and simulation techniques are a powerful tool that can help managers and practitioners , plan, manage and find efficiencies.”

Nigel Edwards, Acting Chief Executive of NHS Confederation

The NHS is currently facing massive structural change coupled with increasing constraints in its use of resources. At this challenging time, modelling and simulation can play a pivotal role in shaping the service as it moves forward. These techniques can help improve both the efficiency and quality of services for a wide range of health service applications including waiting time reduction, scheduling, bed capacity management, workforce planning, service location, and commissioning. This has particular relevance in terms of the current QIPP agenda (Quality, Innovation, Productivity and Prevention).

This one day workshop will bring together key stakeholders to discuss how the effective use of modelling and simulation in healthcare can best be achieved given the current dynamic landscape of the NHS. Keynote presentations will address the core issues and through the use of case study examples show how these techniques can be effectively applied.

This event is hosted by the Health Service Research Network in collaboration with MASHnet (The UK Modelling and Simulation in Healthcare Network) established in 2005 with the aim of improving the application of these techniques in the health service. The MASHnet website: www.mashnet.info includes information and examples of how modelling and simulation has been applied in the NHS.

WHO SHOULD ATTEND?

This workshop is intended for anyone with an active interest in the application of modelling and simulation within healthcare. This will include health service managers at all levels, clinicians and nurses, researchers and academics, commercial consultants as well as software and system developers.

BOOKING AND PARTICIPATION:

Attendance at the workshop should be confirmed via booking through the HSRN. There will be no charge for HSRN and Operational Research Society members. Cost will be 30 pounds for anyone wishing to attend who is not a member of either of these organisations.

WORKSHOP PROGRAMME:

9.15	Welcome, Registration, Coffee	
10.00	<p>Plenary: Modelling in the Brave New World of the NHS</p> <p><i>A series of presentations covering the implications of the current NHS changes for modelling and simulation. Drawing on experience to suggest viable ways forward in the context of current challenges and raising the key issues and questions for consideration.</i></p>	
	<p>David Bensley Operational Research Programme Manager, Dept of Health.</p>	<p>Strategic challenges in a substantially transformed health landscape: Making a recognisable and valued impact</p> <p>The most extensive changes to the health system, arguably since the NHS was formed, were announced in a White Paper in July. The talk will describe these changes and some of the resulting challenges and opportunities. A patient led, outcome focussed, NHS with greater stress on local priorities, implies services will need to be more reactive. GP Consortia and more Foundation Trusts signify greater competition and tailored service delivery. Throughout there will be a need to 'do more with less' with an increased emphasis on evidence based practice. Opportunities include developments in methodologies (e.g generic approaches) and innovative and practical ways to ensure successful application.</p>

	Prof. Sally Brailsford Associate Dean & Prof. of Mgmt Science, University of Southampton	Modelling in turbulent times: why the NHS needs models more than ever Far from being a luxury item, computer modelling comes into its own in straitened times when resources are scarce and extremely difficult decisions have to be made. In the challenging times ahead, it is essential that such decisions are based on rational evidence and not political whim. Modelling has a key role to play here, and this talk shows how even very simple models can give insights to prevent potentially disastrous decisions being taken.
11.00	Short Break	
11.15	Plenary: <i>Learning from Experience</i> <i>Presentations building on case studies and practical examples, showing how modelling has been effectively used in the NHS to date, how capacity can be developed, and highlighting the key lessons to be learned from these experiences.</i>	
	Dr Nick Gaunt Chief Information & Knowledge Officer, NHS Institute	Simulating new models of care – lessons learnt from PCTs use of Scenario Generator Scenario Generator is a simulation tool for healthcare service planning developed jointly by the NHS Institute for Innovation and Improvement and SIMUL8 Corporation. It has been used in a large number of Primary Care Trusts where it supports strategic planning and the design of new models of care. In what is thought to be the largest deployment of a healthcare-specific simulation software tool, many challenges and benefits have been identified. Key lessons for software designers, implementation teams and potential healthcare users will be outlined based on these experiences set in the context of the wider application of modelling tools in the changing landscape of the NHS.
	Claire Cordeaux Lead for Healthcare at SIMUL8 Corporation	Effective Modelling in the NHS - Some case studies and lessons learned. This talk will cover the experience of strategic versus operational modelling in health - and focus particularly on the more operational models that NHS users seem to be most interested in, and how these are particularly relevant in times of efficiency drives.
	Jon Smith CEO MapPlace Ltd. Southampton UK.	The use of geographic modelling in healthcare planning An outline of the successful application of geographic analysis for planning in the NHS based on a case study example. The presentation will highlight the potential benefits and range of application of these techniques in health service planning and decision support.
	Dr Martin Pitt Senior Research Fellow, Peninsula Medical School.	The TORCH project - Building capacity for modelling and simulation within the NHS The TORCH project - Teaching Operational Research for Commissioning in Health was commissioned by the NHS Institute in 2009. This talk will draw from the TORCH experience to outline the steps required to build both capacity and capability for modelling and simulation within NHS organisations. It will identify the different levels of expertise relevant to different management roles and discuss the how this work can be taken forward to effectively develop the skills in the health service.
12.30	Lunch	
1.30	Prof. Martin Utley Dir. of the Clinical Operational Res. Unit, UCL. London	More for less: the modeller's dream or a rude awakening? Operational Research has huge potential for improving the efficiency with which healthcare services are delivered. This talk will discuss this potential in the context of some of the current challenges facing the health service and make a few comments on why this potential has not been realised to date.
2.00	Group Exercise <i>Identifying and prioritising the interventions that would be most effective in improving the use of modelling in the health service and in specifying MASHnet's role</i>	
2.45	Plenary Feedback and Panel discussion	
3.45	Depart	

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