

Sponsored by the Program in Health Services and Systems Research, Duke-NUS Graduate Medical School through an NMRC grant awarded to develop capacity in Singapore

***Using modeling to prepare for changing health care needs***

**14-15 April 2014**

**Amphitheatre, Level 2**

**Duke-NUS Graduate Medical School**

**Host – Dr. David Matchar**

**Director, Health Services and Systems Research Program**

**Duke-NUS Graduate Medical School**

**Monday 14 April 2014**

0900-0930

**Introduction**

***Changing needs and growing challenges***

**Dr. David Matchar**

Professor and Director

HSSR, Duke-NUS Graduate Medical School Singapore

0930-1000

**Keynote address**

***Future of healthcare 2030***

**Dr. Gabriel Leung**

Dean, Li Ka Shing Faculty of Medicine

University of Hong Kong

1000-1030

***Complexity in healthcare: what can modeling do?***

**Dr. Peter Sloot**

Professor and Director Complexity Institute, NTU

Distinguished Research Professor, University of Amsterdam

1030-1100

**Tea/coffee break**

Atrium

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1100-1230      **Modeling for Health Policy**

*Workforce planning*

**Mr. Peter Lacey**

Founding partner

Whole Systems Partnership

*Re-designing health care*

**Dr. Bert Vrijhoef**

Professor and Head, Health Systems & Policy domain

Saw Swee Hock, School of Public Health

National University of Singapore

1230-1330      **Lunch**  
Atrium

1330-1630      **Panel**

*What do we hope and fear? Healthcare in Singapore 2030*

**Panel moderator: Dr. Peter Hovmand**

Director, Social System Design Lab, Brown School

Washington University

**Speakers:**

**Dr. Alex Cook**

Assistant Professor

Saw Swee Hock School of Public Health

National University of Singapore

**Dr. Kelvin Tan**

Director

Policy Research and Economics Office

Ministry of Health Singapore

**Dr. Joanne Su-Yin Yoong**

Assistant Professor

Saw Swee Hock School of Public Health

National University of Singapore

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## Tuesday 15 April 2014

0900-1100      **Assessing service innovations**

*Renovating screening programmes*

**Dr. Jon Karnon**

Professor in Health Economics  
University of Adelaide

*Designing complex intervention and treatment strategies*

**Dr. Nathaniel Osgood**

Associate Professor  
University of Saskatchewan

1100-1130      **Tea/coffee break**  
Atrium

1130-1300      **Modeling approaches in health services**

*DES application related to health services*

**Dr. Jaime Caro**

Chief Scientist  
Evidera

*New models of care*

**Dr. David Rees**

Senior Consultant  
Synergia

1300-1400      **Lunch**  
Atrium

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1400-1530      **Simulation modeling in Singapore**

- Ongoing work incl. HSSR, MOH, SGH, AIC

*Prehospital and ED simulation modeling*

**Dr. Sean Lam**

Manager, Health Services Research  
Singapore General Hospital

1530-1615      **Introduction to modeling approaches – overview of next day's workshops**

- Peter Hovmand, System Dynamics: analyzing how the whole system works
- Nathaniel Osgood, Agent-based modeling: investigating how the parts work together
- Jaime Caro, Discrete-event simulation: understanding resource use and delays in a system

1615-1630      **Summary and closing**

**Dr. David Matchar**

Professor and Director  
HSSR, Duke-NUS Graduate Medical School Singapore

1630-1730      **Reception**

Atrium