



Bwrdd Iechyd Prifysgol  
Aneurin Bevan  
University Health Board



SEWAHSP

Partnership for Health / Partneriaeth ar gyfer Iechyd



Aneurin Bevan  
Continuous Improvement

# Developing Mathematical Models in Healthcare

4-6pm, Monday 11<sup>th</sup> November 2013

Committee Rooms 1-2, Glamorgan Building, CF10 3WT

‘Parallels between PenCHORD & ABCi Modelling Unit’

**16:00-16:30: Welcome and Refreshments**

**16:30-17:30: PenCHORD – Making the Most of Modelling and Simulation in Healthcare**

The Peninsula Collaboration for Health Operational Research and Development (PenCHORD) in Exeter University Medical School works directly with health care trusts in Devon and Cornwall to apply modelling and simulation techniques to address important local service priorities. To date, the team has completed thirty projects working directly with NHS Trusts in areas including stroke pathway modelling, diabetic retinopathy screening, operating theatre scheduling and fractured neck of femur simulation. This presentation overviews the team’s experience of running the collaboration and showcases a range of key projects illustrating the considerable potential for service gains, more effective use of NHS resources and how they have already contributed to changes in patient management.

**17:30-18:00: ABCi Modelling Unit**

Aneurin Bevan Health Board and the School of Mathematics at Cardiff University have embarked on an innovative collaboration to bring modelling techniques to the design and delivery of health services to ultimately improve the quality of care for patients. Within its first year of operation the Unit has overseen the completion of five Masters dissertations, delivered training courses, been involved in a number of successful work streams e.g. the patient flow programme, developed bespoke tools for clinical teams, evaluated the impact of potential policy changes and developed a caseload management tool. This presentation summarises the team’s most notable outcomes to date and outlines intentions for further expansion.

To book your place, email: [Julie.Vile@wales.nhs.uk](mailto:Julie.Vile@wales.nhs.uk)