



University
of Victoria

School of Health Information Science Seminar Series



**Prof Jeremy Wyatt presents:
What makes CDSS trustable:
How can the developers of
Clinical Decision Support Systems
increase trust in their products?**

Tuesday, June 15th, 2021

10:00 am – 11:00 am Pacific

Online via [Zoom](#)

Abstract: Clinical decision support systems (CDSS) can be a highly effective tool to disseminate medical knowledge and implement practice guidelines, with a systematic review of over 120 RCTs showing improvements in both clinical practice and patient outcomes. However, clinicians have been slow to adopt CDSS partly due to trust issues, as suggested by a recent survey of senior UK clinicians and other studies eg.

To improve clinical trust in CDSS, we describe in a recent article how CDSS developers will need to become more trustworthy. In this article we used a theory of trustworthiness from the philosopher Onora O’Neill to develop a framework that can guide the developers of CDSS – and potentially other clinical information systems.

O’Neill’s theory suggests that trustworthiness originates from three kinds of evidence:

1. Empirical evidence that the developer produces high-quality products
2. Evidence that the developer is committed to delivering products of high quality
3. Evidence that the developer is capable of delivering on these commitments.

This seminar will outline how this framework can suggest specific actions for the developers of CDSS

Prof Jeremy Wyatt trained in medicine in Oxford and London and as a hospital physician there & Glasgow (MRCP 1983). He then discovered medical informatics and health technology assessment with doctoral training at the National Heart & Lung Institute and an MRC-funded postdoc at Stanford. He was the UK’s first elected Fellow of the American College of Medical Informatics in 1997, was ranked third in his discipline worldwide in 2009 and has given 40 invited overseas talks in the last decade, including the Amsterdam Spinoza lecture series.

Jeremy is Emeritus Professor of Digital Healthcare and former Director of Wessex Institute and Clinical Adviser on New Technologies to Royal College of Physicians. He currently leads the FCI’s Special Interest Group on AI, His research uses empirical methods to uncover scientific principles guiding the design of clinical information and eHealth systems, studying interactive tools to change the behaviour of clinicians (eg. decision support), patients (eg. apps, telehealth) and the public (eg. SMS msgs to promote healthy lifestyle), and of digital tools to support health research.

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