

BIOSTATISTICS SEMINAR

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Innovative Technologies Offer Complex Analytics and Ease and Efficiency of Creating and Updating Systematic Reviews

Craig Whittington, PhD FIScT

Global Head of Quality, Methodology and Innovation
Honorary Senior Lecturer, University College London
Doctor Evidence, Santa Monica, CA

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3:30pm - 4:30pm, CHS 33-105A

Refreshments served at 3:00 PM in room 51-254 CHS

ABSTRACT:

Evidence-based guidelines rely on expensive and time-intensive systematic reviews (SRs), which must be frequently updated at additional cost. To be reliable, each update is often a resource-intensive *de novo* review. Current technology solutions increase speed and efficiency without compromising integrity, comprehensiveness, or reliability. Furthermore, these technologies yield methodologically rigorous reviews that can be easily and efficiently updated as new evidence is published. Such products range from fabricated collages of assorted software products requiring importing and exporting between products to sleek integrated solutions for dynamically updatable SRs.

The Innovation and it's purpose:

This innovative set of integrated digital technologies offers sophisticated analytic and data visualization functionalities to curate, synthesize, and investigate clinical evidence from published studies. The transparency of both methods and data and the superior level of data quality mirror the highest standards of evidence-based medicine today, including those established by the Institute of Medicine.

How will this session be interactive and engaging?

This session will be a live Web-enabled demonstration of technology platforms used to extract and digitize evidence from published clinical studies, analyze the results employing sophisticated state-of-the-art programs and rigorous methodologies for meta-analyses and network meta-analyses, and processes for updating the evidence base as new research becomes available.