School of Health Information Science Seminar Series:

Primary Care Capacity Estimator Delphi Study Simulation:
How close is a Delph-AI study to human experts?

Speaker:

Morgan Price

Associate Professor, Department of Family Practice - Island Medical Program, University of British Columbia

Feb 6 on Zoom
12:00pm PT

DR. MORGAN PRICE, MD, PhD, CCFP, FCFP is an associate professor (University of British Columbia, Department of Family Practice, Island Medical Program) and family physician practicing in the inner city with under-served populations in Victoria. Dr. Price is an Affiliate Faculty in Computer Science and Health Information Science at the University of Victoria. His research areas include: application of systems approaches and design thinking in healthcare, action research, adoption of clinical information systems.

He is actively developing tools to support team-based primary care as the director of the BC Primary Care Innovation Support Unit (ISU). The ISU has developed and deployed several methods to support team-based primary care implementation and evaluation (Team Mapping, Primary and Community Care Mapping, TEAM Framework for evaluation). The ISU supports BC health system planning in primary care and runs and collaborates on several other provincial and national research projects.

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In this seminar, we will introduce CAPES (the Capacity Estimator), a system dynamics model developed at UBC to estimate primary care team visit capacity and match that to population need across acute, chronic, and preventive care domains. A key challenge in building the current version of CAPES was estimating shared care across team roles. 7 Delphi studies were completed to help build shared care evidence for modeling with expert clinicians. We then explored how closely large language models could simulate the activities of the Delphi study, creating "DelphAI".

This presentation will discuss our experience developing multi-agent DelphAI sub-study and reflect on the promises and limitations of AI-enhanced consensus methods in health services research.

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