Development of Learning Health System Data Hubs stimulating partnerships across academic, clinician, community, primary care and industry stakeholders for health impact

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Abstract Title:

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Oral and poster abstract text (Arial, size 10 font, left aligned, maximum 250 words)

Background
Learning Health Systems (LHS) Data Hubs use health-related data, analyse it to generate new knowledge, and provide this knowledge to inform and improve health services and practice, and patient outcomes. Data hubs require integrated and relevant workforce capacities (informaticians, frontline clinicians, researchers and community members), infrastructure, and governance. Across clinical and health service research, small data hubs have evolved in various settings, with exemplars, but lack sustainability and are not scaled.

Objectives
To synthesize available evidence and create a framework to support a national network of sustainable LHS data hubs.

Method
A systematic literature review, mapping of international exemplar data hubs and semi-structured interviews with stakeholders (2-3 international and 10-20 national) from data hubs, health services and research. Workshop to engage stakeholders and obtain feedback on the framework.

Results
Systematic review, mapping and interviews are underway. The literature shows LHS is a growing discipline with <10 mentions in peer-reviewed publications in 2007 and over 1,000 in 2017. Preliminary results suggest investments in workforce capacity are needed to support LHS hub development, with existing LHSs still new and evolving towards sustainable and effective informed decision-making.

Conclusions
We will present the results from this framework development project. This offers learnings for a system for co-developed sustainable LHS data hubs with inter-disciplinary members that are anticipated to provide the necessary environments to generate new knowledge, which are needed to shape and deliver the healthcare of the future.