

Assessing Stakeholders' Perspectives on how Evidence Based

Design in Healthcare could Improve Healthcare Service Delivery



in Canada to Inform New Mixed-use Hospital Building Design

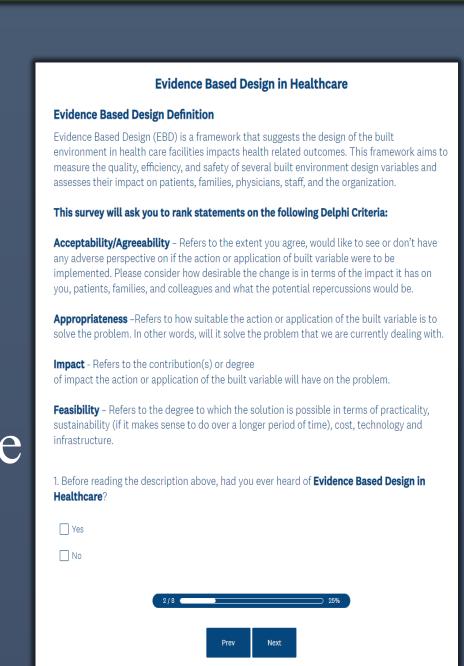
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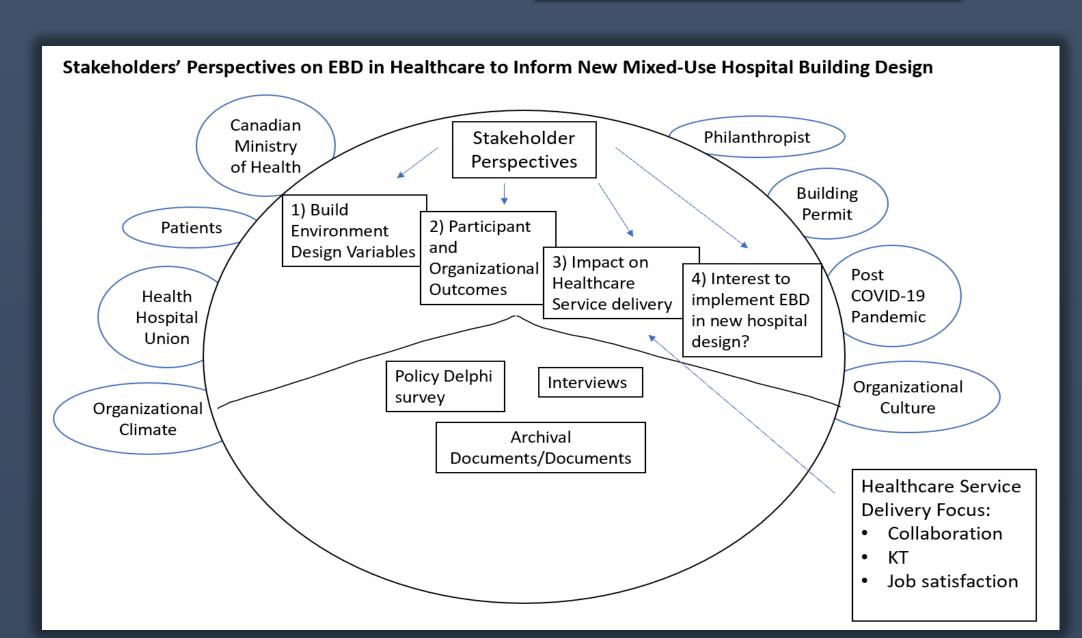
1. Introduction

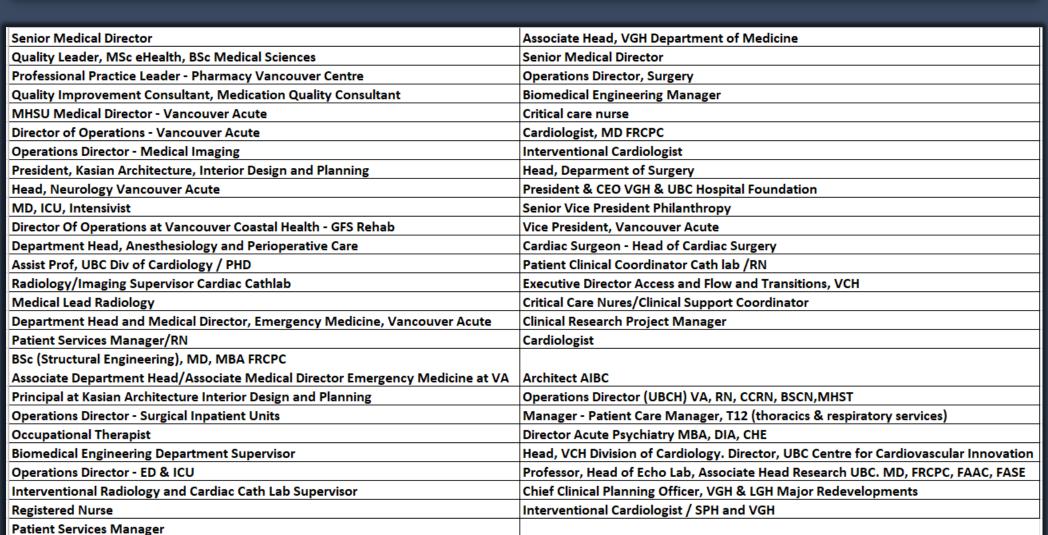
- The Covid-19 pandemic reinforced the existing healthcare paradigm is often inadequate.
- The division of acute and subspecialties in hospitals can result in a lack of patient centeredness, poor quality, decreased safety, and unsustainable costs.
- Evidence Based Design (EBD) aims to measure the quality, efficiency, and safety of several built environment design variables to assess their impact on families, physicians, and staff outcomes as well as the organization.

4. Methods

- Policy Delphi Case Study
- Delphi Panel 51
 Stakeholders
- Delphi Questionnaire
- Interviews/Emails
- Archival Sources

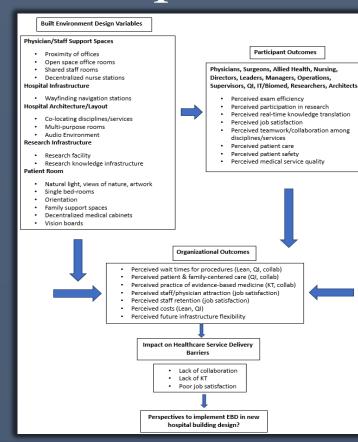






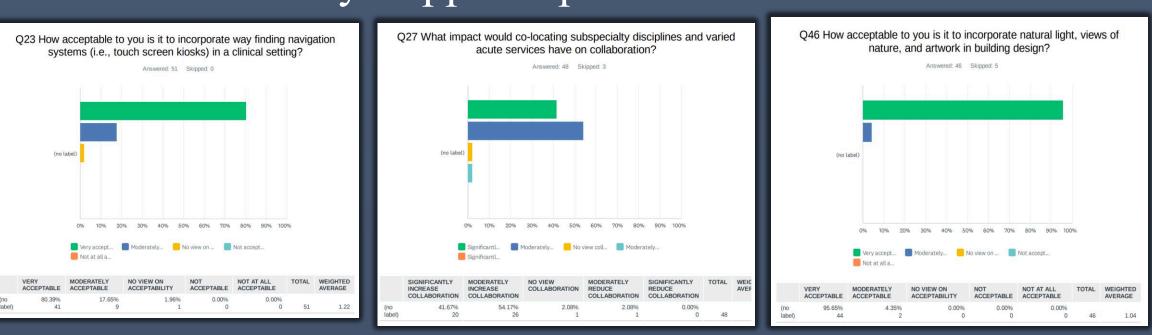
2. Research Aim/Conceptual Framework

• Obtain stakeholders' perspectives on a range of Built Environment Design variables, perceived barriers and opportunities for incorporating variables in new hospital building design, and perceptions of EBD potential impacts.

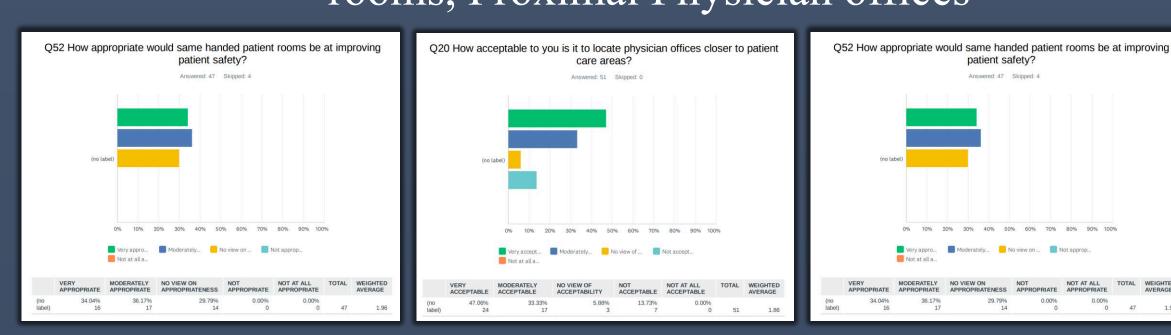


5. Results

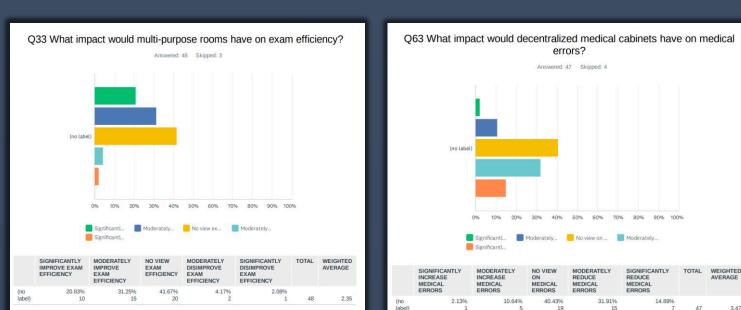
Greatest Impact: Open office spaces, Way-finding, Colocating, Noise reduction measures, Natural light/artwork/views of nature, Single bedrooms, Friends & Family Support Spaces & Vision Boards



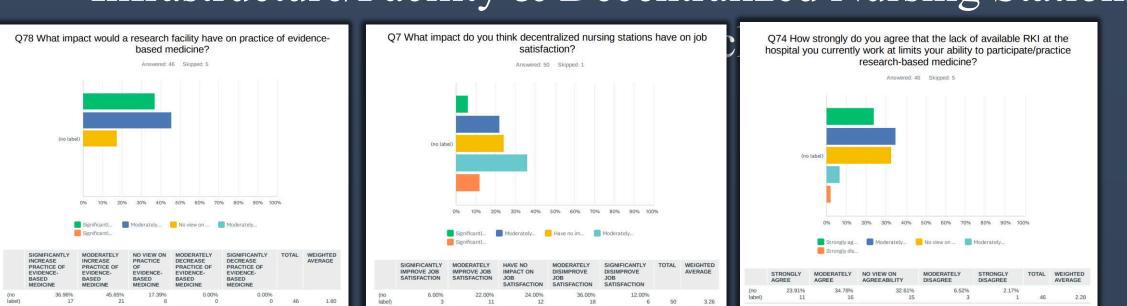
Less Impact: Shared staff rooms, Same-handed rooms, Proximal Physician offices



"No View": Multi-purpose Rooms, Decentralized Medical Cabinets

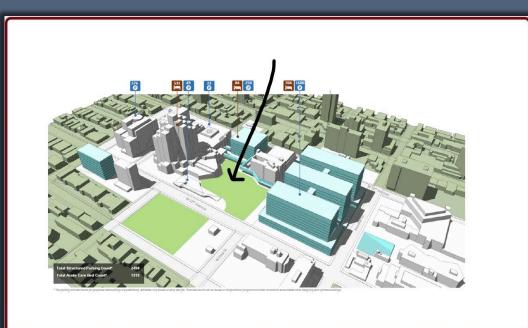


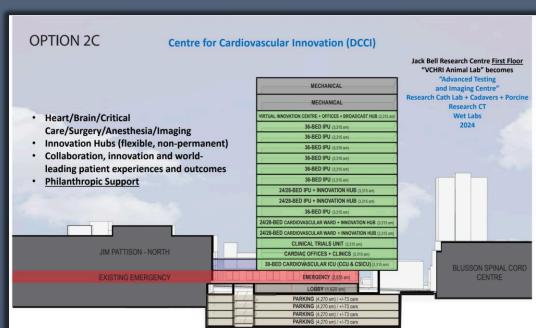
Most Controversial: Research Knowledge Infrastructure/Facility & Decentralized Nursing Stations



3. Case Context/Significance

- Restructuring of Vancouver Coastal Health (VCH) Campus in Vancouver, British Columbia, Canada.
- New VCH Master Plan will guide development over next 10 years.





- EBD is in its infancy and its effectiveness in improving participant and organizational outcomes is heavily debated in the literature.
- The importance of support for the application of EBD principles among stakeholders is critical for its success.

6. Discussion

- Most controversial built design variables could have the greatest impact on all three identified healthcare barriers.
- Barriers to implementing built design variables consist of reduced clinical bed and office space, the trade-off between flexibility/efficiency and natural light, patient and staff confidentiality/privacy breaches, the need for increased human resources, costs, public funding and decreasing social interactions among staff.
- Most stakeholders (80.43%) perceive EBD concepts as improving healthcare service delivery and acknowledge that they have a once in a generation opportunity to design a novel and potentially better building design.

7. Acknowledgements and Sources

I am sincerely grateful for my supervisor, Justin Keogan for his invaluable guidance and feedback on my research. Additionally, this endeavour would have not been possible without the generous support from the VCH Leadership and the VCH Master Planning Committee.

Contextual Conceptual and Empirical



