Queensland Clinical Senate Research and Artificial Intelligence Recommendations
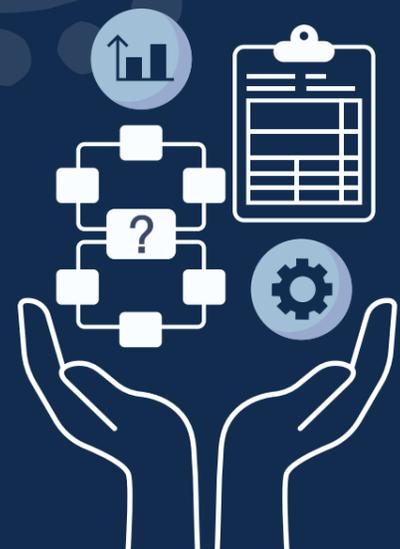
Research in healthcare

Research has made a significant contribution to healthcare, it has contributed to increased life expectancy among the overall population and improved outcomes for specific groups of people.

The conduct of research in healthcare facilities correlates with lower mortality rates and better-quality care.

Artificial Intelligence

The benefits of AI in delivering better health outcomes will only be realised with careful, safe and supported adoption that engages the community and reflects ethical values of equity, diversity and inclusion, protects human rights and fosters trust.

Research Recommendations

Partnerships

1 Develop a partnership framework for fostering a collaborative research culture with a federated approach across the state, codesigned with consumers, that also recognises the local context.

a. Facilitate and support standardised research partnerships across our HHSs to enable better visibility, collaboration and streamlining of research processes, and which are reflected in HHS Service Level Agreements.

b. Within research partnerships ensure that regional, rural and remote, along with primary care researchers are enabled, through capacity building, to play a significant and material role in research.

c. Ensure partnership and consultation with First Nations peoples at all stages of the research process.

d. Grow and sustain strategic partnerships with research organisations and industry, that deliver greater equity and better health outcomes for our community.

e. Support a state-wide approach to roles that enable partnership with research organisations, such as conjoint appointments and adjunct titles, where appropriate.

First Nations Leadership

2 Ensure First Nations considerations in the development of governance and processes, for all research, including leadership, consultation and data sovereignty.

3 Support equitable, First Nations led, First Nations researcher career pipelines and pathways.

Consumer participation

4 Support and facilitate processes to enable consumers and those with lived experience, to be meaningfully involved early in codesign of research. This includes support to be active and equal contributors across the research cycle, with lived experience valued as an essential skillset within the multidisciplinary research team.

5 Support and recognise consumer led research in policy-making and clinical care.

6 Enable access to information and outcomes from research for research participants.

Streamlined processes

7 Processes to enable research should be streamlined within a networked state-based approach, so that important research can be undertaken promptly and efficiently.

a. Multi-site study research governance processes should be supported, with mutual recognition of approval decisions by participating HHSs, whilst retaining the ability of HHSs to assess site specific factors.

b. Data access and approval processes should be streamlined, supported by mutual recognition or consolidation of approval decisions by participating HHSs, where appropriate.

c. Data custodians should be informed and supported to understand their roles and responsibilities and feel confident to enable sharing, where appropriate, in a consistent and timely way across the state.

d. Support and invest in digital systems and processes to facilitate a networked state-wide workflow for ethics and governance decisions.

Dynamic consent

8 Trial and evaluate dynamic consent models in Queensland to better support consumer choice and participation in research.

Synthetic data

9 Synthetic data should be supported as a preliminary tool within the data research pipeline, where appropriate, to better enable early research whilst preserving consumer privacy.

AI Recommendations

10 Develop an overarching AI framework for Queensland Health, with pathways for development and implementation, including a community advisory function.

a. Recognise the data and system requirements for AI development and implementation and define robust and streamlined data governance processes

b. Enable and ensure, locally relevant validation of AI algorithms, prior to implementation.

Queensland **Clinical Senate**

Queensland Government