Using a State-wide Learning Health System for the Rapid Deployment, Evaluation and Translation of New Models of Care in South Australia to Reduce Pressure on Emergency Departments and Acute Care

Pre Hospital Care Safe hospital avoidance for chest pain

By integrating novel high sensitivity point of care cardiac biomarker technologies with machine learning models to enable earlier clinical decision-making and support shared decision-making with consumers, we will implement and evaluate a model of care for chest pain assessment in the prehospital environment (ambulance services and general practice) where consumers in the prehospital setting who are determined to be at very low risk of having heart attack will be provided the option to be taken to a priority care centre for further assessment

versus the ED as per standard practice.

SA Acute Care Consortium

Creating sustainable at scale solutions to acute care hospital overcrowding in South Australia.



Inpatient Care

Reducing unwanted variation in care in general medicine wards

Through clinical community engagement, embedding of machine-learning based decision support in real-time practice coupled continuous evaluation, a closed feedback loop will be designed with the acute care workforce to standardise clinical pathways for frequently encountered conditions and create safe cultures of continuous feedback.



Transition to Community Care Enhancing transition of care to the community

Through evaluation of the economic consequences of incomplete support in the transition to community care for frail and elderly patients and implementation and evaluation of the effectiveness of care bundles and service navigators, we will inform service design and health funding policy change.



Evolution of existing statewide digital health platform

Enhancing the digital architecture within the health system to support digital phenotyping of clinical conditions, embedded decision analytic models and implement measures for routine variation in care within and health economic evaluation of clinical pathways and processes.