

# LSE-Roche WCLS Event

## Barriers and Enablers in Health System Reform *Learnings from a Case Study*

19<sup>th</sup> November 2025



Ms Caitlin Main

Medical Technology Research Group, LSE Health

# Project objectives & Methodology



Identify examples of transformation (**case studies**) across 3 key areas in OECD countries

- Highlight common policy **barriers & enablers**



*Service delivery decentralisation*



*Effective and early screening, diagnosis & treatment*



*Health workforce development*



Targeted literature review to identify examples of reform



Semi-structured interviews with key stakeholders

# Case Study Deep Dive



## ***Service delivery decentralisation***

A deliberate shift of healthcare services, decision-making, and resources from hospital-based systems toward primary and community care settings

## Telechemotherapy in Queensland

Triggers

Intervention

Implementation

Barriers

Enablers

Impact



Triggers

Intervention

Implementation

Barriers

Enablers

Impact

*Healthcare inaccessibility for rural populations reported as primary trigger*

- Access challenges in small rural and indigenous communities
  - Limited access to specialist cancer services due to:
    - Low patient volumes
    - Difficulty attracting skilled workers
    - Inadequate supportive care infrastructure
  - Patients required to travel long distances or relocate for chemotherapy
- Equity of Care
  - Telehealth models are seen as a solution to provide equitable access to safe, quality chemotherapy services **locally**



Triggers

Intervention

Implementation

Barriers

Enablers

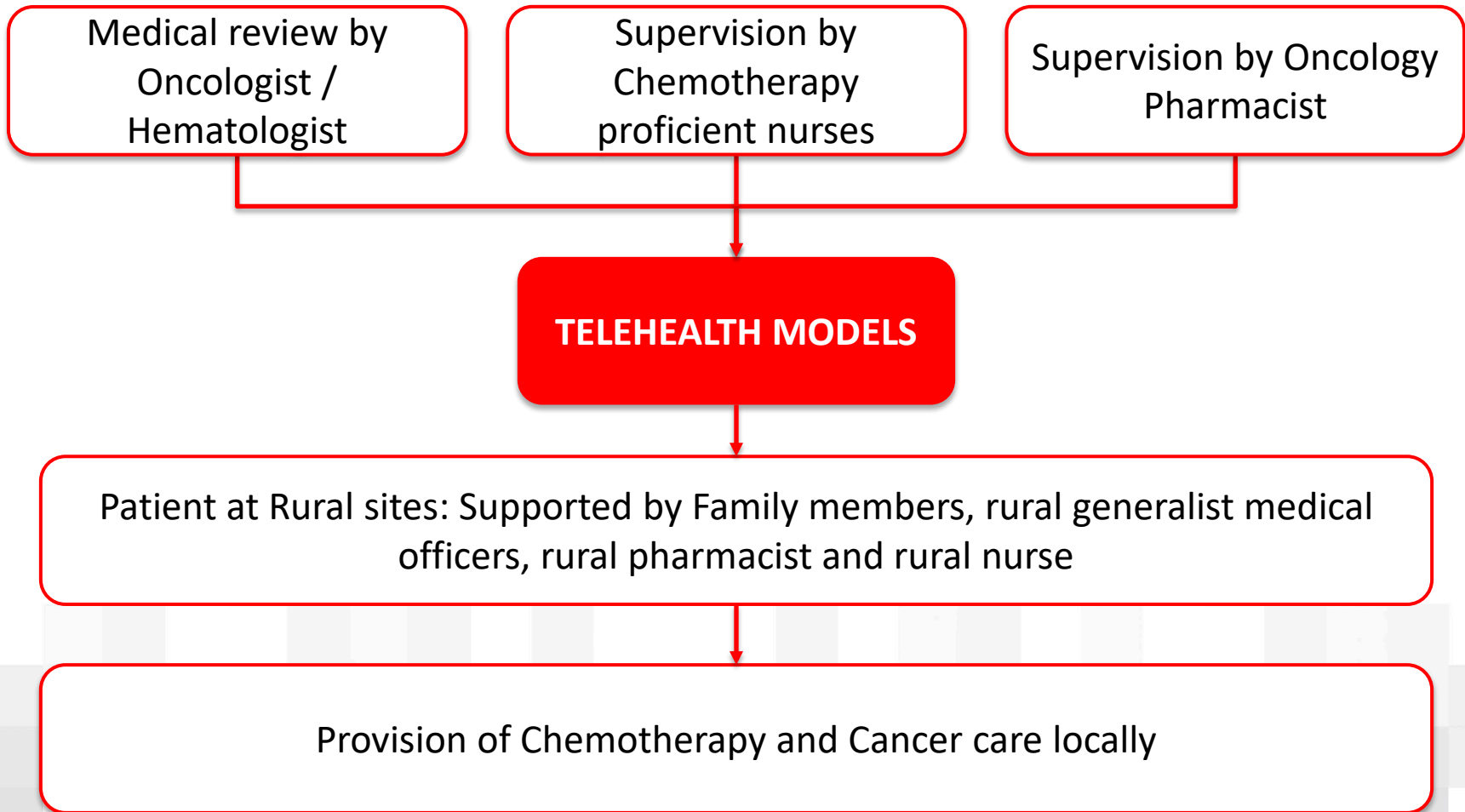
Impact

## Queensland Remote Chemotherapy Supervision (QReCS) Model

**Purpose:** Deliver safe, effective chemotherapy in small rural towns through remote supervision, improving access and equity of care

### Core components:

- Rural generalist nurses complete a 3-day clinical training and administer chemotherapy and biologics locally
- Supervision is provided remotely by chemotherapy-proficient nurses from larger centres via a telenursing platform
- Local support from rural generalist medical officers and pharmacists
- First doses are provided in primary centers to test for adverse effects and reactions



Triggers

Intervention

Implementation

Barriers

Enablers

Impact

### **Pilot Launch in Ingham:**

- Initiated in Ingham to identify challenges and refine the model before broader rollout

### **Stakeholder Engagement:**

- Doctors, nurses, and pharmacists actively lobbied health service executives and senior managers to support implementation

### **Securing Funding**

- \$2.4M AUD secured from Queensland Health
- Funded key roles: Telechemotherapy Coordinator, part-time Medical Oncologist, and two full-time nurses
- Additional infrastructure funding obtained by some rural towns

### **Implementation Management**

- A 20-member team of health professionals and managers from five hospital and health services was formed
- Oversaw implementation, managed funds, and developed a detailed project plan
- Monthly virtual meetings held to monitor progress and address barriers

Triggers

Intervention

Implementation

Barriers

Enablers

Impact

- **Supply and logistics:**
  - Delays in medication transport due to weather disruption in rural areas
- **Workforce challenges:**
  - High turnover of senior management and nursing staff in smaller health services
  - Loss of continuity and increased burden of training new staff
- **Technology limitations:**
  - Unreliable internet connectivity between primary and satellite sites
- **Training gaps:**
  - Limited chemotherapy-specific skills among nurses at satellite centres
- **Governance constraints:**
  - Lack of formal authority among clinical team members over rural site staff
  - Difficulty maintaining momentum and accountability across sites



Triggers

Intervention

Implementation

Barriers

Enablers

Impact

- **Strong leadership and multidisciplinary collaboration:**
  - Engagement of health professionals and managers across Queensland
  - Inclusive forums enabled diverse expertise from project conception to rollout
- **Executive support & funding:**
  - Backing from health service chief executives
  - \$2.4M AUD secured from Queensland Health Innovation Fund
- **Integrated digital infrastructure:**
  - Common EHRs and telehealth systems across primary and satellite systems
  - Shared oncology information systems with synchronized protocols and care plans
- **Government incentives:**
  - Financial incentives for doctors participating in telehealth
  - Endorsement of a Queensland health guide for consistent methodology across the sites



Triggers

Intervention

Implementation

Barriers

Enablers

Impact

- Successfully implemented in 6 rural towns (2014-2016)
  - 62 patients received 327 cycles of chemo
- Now integrated into routine chemotherapy services across North Queensland
- Other subspeciality departments used system set-up for different types of medication
- The Clinical Oncology Society of Australia developed the Australasian Teletrial Model on the basis of the experience of QReCS
- System impacts: nurses 'upskilled' as a result of additional training and responsibilities; fostered collaboration; patients experienced less crowding, shorter wait times, reduced travel

# The Path Forward: From Pilot to Policy



- QReCS proves that decentralised, technology-enabled care models can deliver safe, effective chemotherapy in rural settings
- Its expansion from 6 pilot sites to statewide adoption offers a scalable blueprint for health systems tackling:
  - Geographic inequity
  - Rising healthcare costs
  - Hospital capacity constraints
- Success was driven by:
  - Executive support and funding
  - Strong stakeholder engagement across all system levels
  - Robust digital infrastructure
- QReCS exemplifies how transformative health policy can translate into measurable improvements in access, quality, and system sustainability

# Thank You



Jennifer Gill: [J.Gill7@lse.ac.uk](mailto:J.Gill7@lse.ac.uk)

Caitlin Main: [C.A.Main@lse.ac.uk](mailto:C.A.Main@lse.ac.uk)

Kavyashree Satish: [K.Satish1@lse.ac.uk](mailto:K.Satish1@lse.ac.uk)

Danitza Chavez-Montoya: [D.L.Chavez-Montoya@lse.ac.uk](mailto:D.L.Chavez-Montoya@lse.ac.uk)

Panos Kanavos: [P.G.Kanavos@lse.ac.uk](mailto:P.G.Kanavos@lse.ac.uk)