Embedding Quality Improvement in Critical Care

A Service-Based Approach to Cultural Change and Collaborative Leadership

Martin Calise, Deputy Lead for Nursing, Midwifery and AHP Research Cambridge University Hospitals NHS Foundation Trust

GI QUALITY IMPROVEMENT

WHAT IS QI and why is it so important?

- Systematic approach to continuous improvement
- □ Valuable opportunity for staff to be involved in leading and delivering change

THE PROBLEM

- 1. Clinical acuity
- 2. Time pressure
- 3. Workforce fatigue

QI is often perceived as an adjunct activity, driven by a few individuals and lacking the infrastructure necessary for long-term impact.





Aim and Methods

Main Aim

To evaluate the implementation of QI as a service within an adult critical care unit during its first 12 months (September 2024 to August 2025)



Aim and Methods

Methods used:

- 1. Single-site case study
- 2. Service design process
- 3. Service evaluation



SERVICE DESIGN

Service Design

Approach to understanding and redesigning the service from planning to implementation with a strong focus on user experience

- Strength: Human Factors
- Framework for implementation: NHS IMPACT

Building a
Shared Purpose
& Vision

Embedding
Improvement
into Systems &
Processes

NHS IMPACT

Investing in People & Culture

Building Improvement Capability & Capacity

Developing Leadership Behaviours

Overview

One-Year Roadmap for QI in Critical Care

Phase 1 (Months 1-3)

Baseline assessment, goal setting and stakeholder engagement

Phase 2 (Months 4-6)

Pilot QI initiatives, collect data, and refine strategies

Phase 3 (Months 7-9)

Scale successful initiatives, continuous monitoring, adjustments

Phase 4 (Months 10-12)

Evaluate outcomes, consolidate gains, plan for sustainability



Time constraints consistently cited as #1 top barrier

Local pre-intervention survey in 2024 (n=47)

Service Design

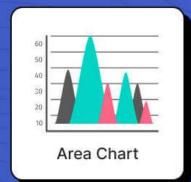
- Protected Time

 Total of 144 link role hours in each month
- 2 Champions Network
 18 champion or link teams across critical care
- Appointed QI Lead

 To oversee QI change process for 12 months

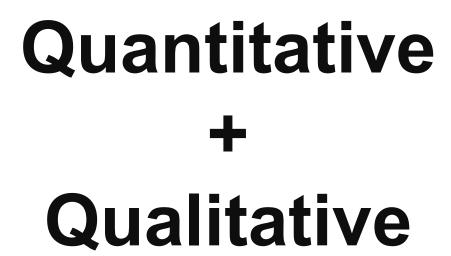
SERVICE EVALUATION



















Data Collection

- Cross-sectional survey design
- ☐ Likert scale, 15-item questionnaire
- 2 open-ended qualitative questions
- □ Census sampling approach
- □ Total respondents of 49



Improvement Cultures in Health and Adult Social Care settings

A Rapid Literature Review for the Care Quality Commission



CQC has produced a literature review on what improvement culture is and what the indicators are

The questions for this service evaluation have also been strongly linked to the 5 themes derived from this review

SQW



- Time and Workload Pressures
- 2 Resistance to Change
- **3** Gaps in Communication
- 4 Access to Support

"I experienced resistance from other MDT members particularly ones with strong characters,

...the difficulty to be heard especially when you're in a room full of senior members that refuse to hear out your proposal.

Not a nice feeling especially when you're quite junior."



- Leadership as a Driver for Improvement
- 2 Building a Culture of Change
- Investing in Capacity and Capability



CULTURE

Recommendations

- Ql requires careful planning
- ☐ Think about human factors in QI
- Consider distributive leadership model
- □ Changing culture takes time

Embedding Quality Improvement in Critical Care

A Service-Based Approach to Cultural Change and Collaborative Leadership

Martin Calise, Deputy Lead for Nursing, Midwifery and AHP Research Cambridge University Hospitals NHS Foundation Trust

REFERENCES

- Care Quality Commission. (2023). Improvement Cultures in Health and Adult Social Care Settings: Rapid Literature Review. SQW & Kings Fund Library Service.
- The Health Foundation. (2019). The improvement journey: A practical guide to developing an organisation-wide approach to improvement. The Health Foundation.
- NHS England. (2023). **NHS IMPACT: A single improvement** approach. https://www.england.nhs.uk/publication/nhs-impact/
- Salinas, L., Grimaldi, S., Lujan Escalante, M. A., Ali, H., Lagedamont, M., & Prendiville, A. (2023). *Teaching Service Design: pedagogical reflections*. Service Design Network, University of the Arts London Research Online.
- Shah, A. (2021). *Building a culture of improvement at scale: The role of executive leaders*. BMJ Leader, 5(3), 199–203. https://doi.org/10.1136/leader-2020-000368
- West, M., Eckert, R., Collins, B., & Chowla, R. (2017). Caring to change: How
 compassionate leadership can stimulate innovation in health care. The King's Fund.

Acknowledgements

- Lisa Enoch, CC Education Lead, Cambridge University Hospitals
- Dr. Amar Shah, National Director for Improvement, NHS IMPACT
- Will Warburton, Director of Life Sciences Policy at NHS England
- Dr. James Varley, CC Clinical Director, Cambridge University Hospitals
- Jane Olds, CC Matron, Cambridge University Hospitals
- Dan Harris, CC Matron, Cambridge University Hospitals
- Celeste Formenton, Senior PD Sister, Cambridge University Hospitals
- Karen Morfill, CC Senior Sister, Cambridge University Hospitals
- Marcella Dangleben, CC Senior Sister, Cambridge University Hospitals





For enquiries, kindly contact:

Martin Calise Deputy Lead, Nursing, Midwifery and AHP Research at CUH

martin.calise@nhs.net