

Simulation to Evaluate Great Care (SIMTEGR8) – Phase 2

Using facilitated simulation to support Better Care Fund interventions in reducing A&E referrals

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National Context



- Policy Implementation: Better Care Fund (BCF)
 - A pooled budget between NHS and Local Authority Partners
 - Mandated from 2015
 - Designed to promote joining up care pathways between health and social care.
 - Targeted to reducing hospital admissions, improving hospital discharge, and providing more integrated care in the community
 - Impact assessed against national metrics
 - > High level of political expectation and scrutiny









Local Context: Leicestershire



- Commitment to independent evaluation of BCF, one of the first places in the country to do so
- Aims to improve the provision of local health and social care services to become sustainable,
- In line with the NHS' five year vision for better health, better patient care and improved NHS efficiency.









Local Response to the National Context



- Phase 2 of an innovative local partnership
- Funded from national and regional BCF grants
- SIMTEGR8 findings have been used as one of the methods to inform commissioning intentions for integrated care for 2017/18.







- **Support** development of integrated care services in the community to avoid emergency admissions to hospitals
- Help Improve the patient journey through new integrated interventions
- To identify how performance can be improved.









Methodology Overview



Simple models are used in a facilitated workshop environment.



- Methodology revised following phase 1
- Adapted from: PartiSim (Tako & Kotiadis 2015) & SimLean Facilitate (Robinson et al 2014)









Aims of Methodology



- Generate discussion about
 - ≻ Model
 - Pathway
 - Reality
 - Metrics
- Identify issues
- Resolve issues













The 4 Services Evaluated in Phase 2

- Lightbulb Programme (LB)
- Intensive Community Support (ICS)
- Help to Live at Home (HTLAH) Service
- Glenfield's Clinical Decision Unit (CDU)









Project Governance



- Local Project Board, Partnership Collaboration Agreement
- Roles:
 - LU researcher resource, academic oversight, production of evaluation report, workshop facilitation
 - Healthwatch patient experience workshops, testing simulation models with users
 - LCC dedicated project management, SRO level project support, support to workshop facilitation and production of evaluation report
 - SIMUL8 simulation modelling support, resources and training
 - > All supported general, comms and dissemination.









Project Advisory Board:



- Professors from Loughborough University and the University of Leicester who were involved in phase 1 of the project;
- Director of Health and Care Integration at Leicestershire County Council
- Met with all members of the Project Board on a regular basis to oversee the work and suggest areas for improvement/further investigation











Simulation Models and Workshops











Example: Intensive Community Support Service (ICS)

- ≻What is ICS?
- ≻Aim of Evaluation
- ≻Workshop 1
- ➤The simulation model
- ≻Workshop 2
- >The Patient perspective







Intensive Community Support (ICS) Service

- Service provided by Leicestershire Partnership NHS Trust (LPT)
- Provides health support for patients in their own home; the team consists of Nurses, Physiotherapist, Occupational therapist and support staff.
- Medical oversight provided by advanced nurse practitioner (ANP).
- Service developed to respond to patients' wishes for care to be delivered in their own homes.
- Allows for patients to be discharged from acute/community hospital care in a more timely fashion
- Focus on the step up service patients referred to ICS by GPs or the East Midlands Ambulance Service.
- An established service evaluation forms part of its ongoing development.

Purpose of evaluation



- Evaluate how emergency admissions to hospitals can be reduced
- To identify how performance can be improved.









Workshop 1





A Conceptual Modelling workshop is carried out to discuss planned pathway of each intervention and reflect on its efficiency.

The discussion goes through the following phases:



Workshop 1 - Aims



- To identify ways to improve the pathway & service (delays/problems);
- To ascertain success of ICS service in reducing unplanned admissions to hospital. (indirectly)
- Improve patient and staff satisfaction;
- Timeliness and clarity of referral process;
- To ensure that the service is equitable across region;
- Review number of hand-offs and transfers from the ICS to other services and their appropriateness.









Workshop 1: Process Map













Workshop 1 - Outcomes



- Lively discussion & contributions from participants
- Better understanding of the ICS service achieved
- A commonly agreed on focus of evaluation
- Participants' aims met

The ICS Simulation Model













Workshop 2





A workshop with Project Leads is carried out <u>using the model to facilitate</u> <u>discussion</u> on each intervention and how it can be improved.

The discussion goes through the following phases:



Workshop 2 - Problem Scoping



The following scenarios were identified for testing through the model to see if they could result in improvements to the service:-

- Reducing the waiting time for first visits;
- Reducing the percentage of delayed discharges;
- Improving the quality of visits though being efficient and concentrated (this was shown in the model by a reduction in length of stay).
- A combination of the above.









Model results



- Main Metrics used for the evaluation:
 - hospital admissions (%)
 - bed occupancy (%)
 - > average waiting time for a bed (hrs)
 - > Average length of stay (days).









Workshop 2 - Findings



- Positive effect of step up ICS service on hospital services including emergency department.
- Changes in practice can provide better outcomes:
 - Improving the quality of visits by being efficient and concentrated had the most positive impact on reducing hospital admissions, bed occupancy and reducing the average waiting time for a bed.
 - Improving efficiency of first visit i.e. reducing patients' waiting time, could bring further reduction in hospital admissions.









Workshop 2 - Improvements



- Actions identified by the service beyond the workshop:
 - Treat the first visit as a quick intervention/assessment and improve the quality of the second visit, making sure that it is made by the right specialty (i.e. nurse or therapist);
 - Spend longer with patients on follow up visits to meet patient needs;
 - Standardise the service across Leicester, Leicestershire & Rutland;
 - Use the model to refresh data and evaluate service on an ongoing basis;
 - Raise awareness of the outcome of the evaluation with GPs.









Workshop 2 - Outcomes



- Created awareness of service impact reduced pressure on hospital services and A&E.
- The findings also showed that the service is meeting its contractual targets.
- The project leads keen to share the findings of the model with members of the team and congratulate them on the service they provided.
- There was confidence in the model and that the findings would lead to changes and improvements in the service as it provides an evidence base and a rationale for change.

Workshop 3 – User Perspective





A workshop with Service users (Patients and Carers) is carried out <u>using the</u> <u>model to facilitate discussion</u> on how the service can be improved.

The discussion goes through the following phases:



The ICS User Perspective



What to measure

- •Simplicity of experience
- •Attention to patient comfort, physical and environmental
- •Timeliness
- •Times unable to access
- •Time with patient
- •Reliability of attendance
- Quantity of referrals
- •Quantity of points of access
- Confidence in clinicians
- •Respect for dignity of patient
- •Clarity of information
- •Patient satisfaction with outcomes
- •Possible choices for patient

- Treatment at home
- Experience & care at home
- Standard of care at home
- What could be improved based on your experience?
- Consistency in quality of care









Reflections



- Availability of data and data quality; significant data cleansing required to understand the service (referrals, staff types attending to patient cases, etc.) and to build a useful model.
- Due to the complexity and accessibility of patients using this service it has not been possible to gather evidence relating the patient experience as part of a workshop; metrics identified from the evaluation for the service to use in its ongoing feedback processes (in progress)
- Due to lack of available data it wasn't possible to use the model to test every issue that participants were interested in, for example the number of hand-offs for each patient or whether some patients were inappropriately admitted to hospital when they could have been managed by the ICS service.









Lessons Learnt



- Engaging with service users can be challenging due to patients being elderly and frail; Use of questionnaire survey instead of workshops (plan B).
- Good communication between the SIMTEGR8 team and the project leads really helps make the model useful.
- Don't under-estimate the amount of time that collecting and cleansing data in order to build the model will take.
- Involving the right stakeholders in the workshops important to create an appropriate understanding of the service.









How have the findings been applied to the models of care and commissioning intentions



- Findings and recommendations by pathway shared with Integration Executive, which includes representatives from across Health and Social Care;
- Findings from the Lightbulb Evaluation used to inform the development of the business case;
- Findings from the Help to Live at Home evaluation used to inform business continuity arrangements for the services;
- Findings from the Intensive Community Support service used to inform service development i.e. effectiveness and efficient use of capacity in supporting prevention of hospital admissions.
- Findings from the Glenfield CDU evaluation used to inform a business case regarding future workforce needs and spatial requirements for the CDU;
- Medium term changes will be considered as part of the ongoing review of schemes within the Better Care Fund.











What next?

- We've had two phases of the SIMTEGR8 project to date; demonstrating the effectiveness of facilitated simulation modelling as an evaluation tool.
- No further external funding for the SIMTEGR8 project.
- Leicestershire County Council is looking at ways in which simulation modelling is embedded into current ways of working.
- Findings will be taken into account when making future decisions about funding for these services.









Website, Handbooks and Support



For more information & to review the models and findings from the evaluations of SIMTEGR8 (phases 1 & 2) visit our websites:

- SIMTEGR8.org
- Health and Care Integration webpages on the Leicestershire County Council's website
- Our findings and learning can inform decisions for similar integrated health and care services across the UK or abroad
- Use our approach to undertake a similar evaluation through facilitated workshops & simulation for your service
- For Enquiries and Support contact us at: <u>simtegr8@lboro.ac.uk</u>









SIMTEGR8 Project Board Contacts





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Continue the discussion

Linked in SIMUL8 in Health