

Logic model for Project Swallow

Goodfellow H¹, Balogh M², Hill A³, Konstantara E¹, Lennard D⁴, Lloyd-Dehler E⁴, Mughal M³, Pritchard-Jones K³, Robson C², Webb M¹, Williams A⁵, Murray E¹

¹ e-Health Unit, Department of Primary Care & Population Health, University College London, UK

² Living With, London, UK

³ University College London Hospitals, UK

⁴ Patient & Public Involvement Advisors

⁵ Macmillan Cancer Support, London, UK



Aim: To create a digital health intervention (DHI), to support cancer patients and their carers in the community setting.

Introduction: Oesophageal Cancer (OG) patients have challenging care needs including, physical, psychological, spiritual, practical and family needs. Supporting oesophageal cancer patients under going treatment in the community is difficult and these needs can be unmet. Currently, the main support system for these needs is through the holistic needs assessment (HNA) carried out by cancer nurse specialist (CNS). The HNA involves identifying the patients top cancer related concerns and then creating a care plan for them.

Methods:

- Literature review:** to determine current knowledge base of support needs
- Focus groups and interviews:** to determine end user care needs for nurses, patients and carers
- Iterative design of prototype:** design to incorporate end user care needs identified in part 2 and further end user feedback throughout.
- Small pilot:** Offline pilot of DHI prototype with 10 patients and 1 CNS to determine acceptability and feasibility

Project Swallow Logic Model

Interventions

Holistic needs Assessment

1. Identify patient concerns
2. Inform CNS of concerns
3. Provide support information for identified needs

Information

1. Administrative
2. Health
3. Practical
4. Emotional

Communication portal

1. Text communication
2. Shared patient recorded data
3. Reminders and notifications

Outputs

Empower patients

1. Improved Knowledge
2. Improved self care
3. Pt self refer
4. Patient centred decisions

Improved communication

1. Improved patient support in the community
2. Reduced administrative workload
3. Less clinics needed
4. Pt offered referrals to local support

Outcomes

Primary Outcome:

Improved Patient Quality of Life

Secondary Outcome:

Improved patient experience

Secondary Outcome:

1. Reduce healthcare inefficiencies
2. Reduced DNA rate
3. Reduced emergency admissions
4. Increased number of referrals to local support

Measures

Primary Outcome:

Quality of Life scores

Secondary Outcomes:

1. National CPES questions
2. Cost saving analysis

Moderators

1. Number of HNA completed
2. Patient activity measures
3. CNS time saved
4. Number of self referrals

Qualitative

1. Patient focus groups
2. CNS interviews

Logic model: The DHI will provide 3 main interventions, Holistic Needs Assessment (HNA), information support and Communication portal. These interventions will help detect cancer related concerns earlier making patients feel more supported and provide the relevant support information to empower patients and their carers to manage their concerns more effectively. By supporting and empowering patients in the community we believe this will improve their quality of life and the patient experience.

Next Steps: Our future plan is to implement the DHIs in the clinical setting and evaluate its performance with a RCT to determine if our intervention does increase the quality of life of patients compared to current practice. If the intervention shows benefits to patients we want to expand nationally to other OG cancer collaboratives and other cancers..

Our vision: Our vision is that every patient with cancer will have personalized support throughout their cancer journey provided by a digital health intervention. Different healthcare professionals including GPs will be able to see an overview of the cancer care in order to provide further support to patients in the community.

Supported by:



Royal Free London
NHS Foundation Trust

In collaboration with:



UCLH Cancer Collaborative
The Cancer Alliance for north and east London



Living with

Funded by:

