The ePOCS study: electronic Patient-reported **Outcomes from Cancer Survivors**

Understanding the experiences of people living with and beyond cancer

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Improving understanding of cancer survivorship

- There are 2 million people living with and beyond cancer in the UK
- comprehensive understanding of survivorship is limited
- Research studies have examined a narrow range of patient outcomes, in the immediate years post-diagnosis and treatment, and have been mostly conducted in the US and Europe
- health and quality of life domains, for many years after treatment ends
- Large-scale, long-term data collection requires a solid, scalable and sustainable system
- In the UK there is no system in place for routinely and regularly collecting PRO data from cancer survivors in

The ePOCS study aims to develop a PRO data collection system

PRO measures (PROMs) are completed cheaply and conveniently via the internet

Via a patient-reported data collection system

- Clinical care teams identify eligible patients and consent them into the system
- Linked-up with the National Cancer Data Repository (NCDR) PRO data is stored in the NCDR and is linkable with clinical and registry data

ePOCS Stage 1: System Design (Oct 2009 - Sept 2010)

- Process mapping the system using MS Visio™ 2007
- Securing the support and cooperation of clinical care teams
- · Obtaining clinicians' and patients' input into system design
- Writing and user testing patient information materials
- Determining the timing of patient consent into the system
- · Selecting the battery of PROMs
- Enabling the NCDR for ePOCS patient-tracking and data storage

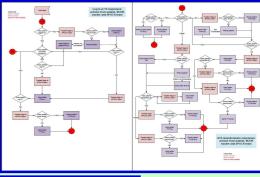


Figure 1: An excerpt from the system process map



Figure 2: A screenshot of the ePOCS study website



ePOCS Stage 2: System Testing (Oct 2010 - Sept 2012)

Testing the resulting system involves:

- For 18 months in 2 local NHS Trusts
- Recruiting a cohort of breast, prostate and colorectal cancer patients
 Patient recruitment and retention rates
- Completing ePROMS at 3 time-points
- - Efficiency and practicality of recruitment standard operating procedures
- PRO data completeness, quality and timeliness

System development: Progress to date

- Mapped the system and determined its many steps and their interrelationships (Figure 1)
- Secured clinical teams' role in patient consent, and funding from WYCLRN to support this
- Consulted over 30 clinicians , and run 3 patient focus groups, to obtain user input into system design
- Written, designed and user tested patient information materials
- · Selected PROMS assessing quality of life, social difficulties, depression and illness perceptions
- Begun work with the NCIN to develop the NCDR informatics infrastructure

The future: Benefits of system success

- Clinician and patient feedback indicates the planned ePOCS system is necessary and important, and likely to
- A wide-scale, long-term PRO data collection system is the route to generating a dataset sufficiently large and longitudinal to indicate which survivors experience what problems and when
- - Cancer patients to receive detailed, individualised information about the symptoms and challenges they
 - Effective, tailored and timely interventions to be developed, for the physical, emotional and social difficulties experienced by many UK-based cancer survivors







