RECOVER²Support

Protocol for 2 Randomized Controlled Trials

Background & Aims

- International 'Enhanced Recovery From Surgery' (ERAS) guidelines can reduce complications and length of stay after surgery
- ERAS guidelines include clinician-led and patient-led behaviours (eg. doing physio & breathing exercises)
- Adherence rates in patients are low and variable
- Patients need support to do these things A digital health intervention (DHI) may be an
- effective, cost-effective, and scalable solution.
- the RecoverEsupport intervention was designed to support patients adhere to the ERAS guidelines

AIMS: This poster outlines the protocol for 2 RCTs targeting colorectal and breast cancer patients. Both trials aim to evaluate the effectiveness and costeffectiveness of the RecoverEsupport intervention.

Methods

We are conducting 2 separate RCTs

- · Patients recruited from pre-operative appointments across 3 hospitals
- randomized (1:1 ratio)
- Control group receives usual perioperative care
- Intervention group receives access to the
- RecoverEsupport program Pre-admission

 - During hospital stay

 Post discharge
Trial registration: Bowel: ACTRN12621001533886 Trial registration: Breast: ACTRN12624000417583

Figure 2. Screenshot: Breast website landing page





For more info:



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Intervention Strategies

RecoverEsupport is a digital health intervention to help patients prepare for and recover from their surgery.

The intervention consists of a website and SMS/email prompts to encourage adherence to ERAS guidelines. It uses evidence-based behaviour change strategies:

- information provision (clinician videos)
- goal setting
- skills training
- behavioural self-monitoring and feedback Completed by patients

• Early mobilization (Get up, Get moving) *+

Minimizing opioid use (Ease your pain) *+

• Psychosocial support (Emotional self-care)

• Physiotherapy exercises (Exercises) *

- Fed-back to clinicians prompts and cues
- For patients
- For clinician

Digital health interventions to support colorectal and breast cancer patients prepare for and recover from surgery







Outcomes & Conclusions

Data will be collected from medical records and from patient online surveys. Outcomes include:

- Quality of Life (EORTC)

ERAS guidelines for Breast *



ERAS guidelines – Intervention Targets

Rapid return to oral feeding & fluids (Eat & Drink) *+

• Breathing exercises (coughing / huffing & puffing) +

Length of Stay (primary outcome)

- Quality of Recovery (QoR15)
- ED admissions
- Health service use / costs
- Adherence to ERAS guidelines
- Data is collected at baseline, 2 days post-surgery, 1-& 3-months post-surgery

Conclusions

- If effective, the RecoverEsupport intervention could be rapidly scaled up and/or adapted for other surgical patient groups.
- With 2.2 million elective surgical procedures undertaken annually in Australia alone, there is a significant opportunity to improve recovery outcomes while improving the cost-effectiveness of care



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ERAS guidelines for Bowel *