

Effect of 2-D animation information given before surgery on anxiety and knowledge retention in patients undergoing bowel surgery: A randomised pilot study

Submission date 18/11/2012	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 28/11/2012	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 28/11/2012	Condition category Surgery	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims:

Being in hospital can increase stress levels for patients and we want to reduce the anxiety of patients who are undergoing surgery. Other studies, have looked into improving patients experience using information about the surgical treatment. This includes booklets and videos which have shown to reduce anxiety. Our aim was to investigate the effect of 2-D animation to provide information to patients undergoing bowel surgery, given to patients before surgery, on anxiety levels (before and after surgery). We also investigated if this improved patient knowledge retention.

Who can participate?

Patients, aged 18 and above who were due to undergo bowel surgery.

What does the study involve?

There were two groups of patients that were undergoing bowel surgery, one group watched a 13 minute cartoon video showing the steps of treatment in hospital from the time of admission to discharge and the other group did not. All were given the usual level of information and treatment. Anxiety score was obtained at different stages (at pre-assessment clinic, on the day of surgery, after surgery and before discharge) for both groups of patients. In addition a simple short questionnaire to assess patients knowledge about treatment (covered in information leaflet and in cartoon video) was given to both groups and an evaluation questionnaire to the patients who watched the video.

What are the possible benefits and risks of participating?

The possible benefit of the study is the development of a prototype to build upon in which patients and hospital staff can access a resource that will both inform them of the treatment of bowel surgery and help to reduce the level of anxiety. There are no known risks of associated with taking part in this trial.

Where is the study run from?
Queen Elizabeth Hospital, Adelaide, South Australia

When is the study starting and how long is it expected to run for?
The study started recruiting in August 2011 and finished recruiting patients in January 2012.

Who is funding the study?
Queen Elizabeth Hospital, Adelaide, Australia

Who is the main contact?
Mr Samson Tou
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Contact information

Type(s)
Scientific

Contact name
Mr Samson Tou

Contact details
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Additional identifiers

Protocol serial number
N/A

Study information

Scientific Title
Effect of pre-operative 2-D animation information on peri-operative anxiety and knowledge retention in patients undergoing bowel surgery: A randomised pilot study

Study objectives
Pre-operative 2-D information can reduce anxiety experienced by patients undergoing bowel surgery and improve the ability for patients to retain information during the preparation for surgery.

Ethics approval required
Old ethics approval format

Ethics approval(s)

Human Research Ethics Committee, SA Health, Australia, 5 August 2011, ref: 201111

Study design

Pilot randomised study

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Multi-media information for surgical intervention

Interventions

The intervention group watched a 2-D animation video depicting the in hospital journey whereas the control group received standard information that contained in the video but in a written format.

Intervention Type

Procedure/Surgery

Phase

Not Applicable

Primary outcome(s)

Anxiety score

Key secondary outcome(s)

1. Knowledge retention scores
2. Feedback questionnaire response
3. Clinical outcomes (30 days mortality/morbidity, length of hospital stay)

Completion date

10/01/2012

Eligibility**Key inclusion criteria**

1. Patients undergoing elective bowel surgery either through open or laparoscopic approach
2. Age 18 and above
3. With ASA grade 1-3
4. Able to understand English with no major visual and/or hearing impairments

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Patients cannot understand English
2. Visual or hearing impairment
3. Unable to give informed consent

Date of first enrolment

09/08/2011

Date of final enrolment

10/01/2012

Locations

Countries of recruitment

United Kingdom

England

Australia

Study participating centre

Locum Consultant Colorectal Surgeon

Derby

United Kingdom

DE22 3NE

Sponsor information

Organisation

Queen Elizabeth Hospital (Australia)

ROR

<https://ror.org/00x362k69>

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

Queen Elizabeth Hospital, Adelaide (Australia)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes