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Will a preoperative video on anaesthesia better stick than a consultation with an anesthesiologist?

Submission date
16/08/2022

Recruitment status
No longer recruiting

Registration date
17/08/2022

Overall study status
Completed

Last Edited
17/08/2022

Condition category
Surgery

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[ ] Results
[ ] Individual participant data
[ ] Record updated in last year

Plain English summary of protocol

Background and study aims
Worldwide, there are many initiatives to improve preoperative patient education and subsequent level of knowledge of anesthesia, for example by using digital aids. The demand for such aids has increased significantly since the start of the COVID-19 pandemic to facilitate remote preoperative anesthesiological screening. Although many videos to educate patients on anesthesia have been developed and circulate on the internet, there has been little effort to compare this method of educating patients with the traditional one-on-one conversation between the anesthesiologist and the patient. The aim of this study is to establish if it is feasible to use video education in a larger trial, how large of an effect video eduction might have on participants remembering specific details of the video over time, and if participants are willing to keep participating over time.

Who can participate?
Adults visiting the preoperative anesthesia clinic who are scheduled for elective surgery

What does the study involve?
The study involves participants watching a video about general anaesthesia and filling out a questionnaire specifically directly after watching the video and after 14 and 42 days.

What are the possible benefits and risks of participating?
The positive benefits of participating are a possible better understanding of what anesthesia is and what its associated risks are. There are no risks involved in this study.

Where is the study run from?
Erasmus MC (Netherlands)

When is the study starting and how long is it expected to run for?
June 2020 to October 2021

Who is funding the study?
Health-Holland (Netherlands)

Who is the main contact?
Dr J.-W.H. Korstanje, j.korstanje@erasmusmc.nl

Contact information

Type(s)
Principal investigator

Contact name
Dr Jan-Wiebe Korstanje

ORCID ID
https://orcid.org/0000-0002-6269-9860

Contact details
Dr. Molenwaterplein 40
Rotterdam
Netherlands
3015 GD
+31 (0)107040704
j.korstanje@erasmusmc.nl

Additional identifiers

Protocol serial number
rakq_pilot

Study information

Scientific Title
Information retention after video (augmented) preoperative anesthesiological education: a pilot study

Study objectives
To compare short, mid-and long term retention of knowledge after education on anesthesia by watching a video to the traditional one-on-one explanation by the anaesthesiologist. However, effects size and loss-to-follow up remain unknown and need to be addressed before proceeding to a sufficiently powered large-scale randomized controlled trial (RCT).

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approved 16/11/2020, Erasmus MC Medical Ethical Committee (Erasmus Medical Center Rotterdam, Dr.Molewaterplein 40, 3015 GD Rotterdam, Netherlands; +31 (0)10 7033625, metc@erasmusmc.nl), ref: MEC-2020-0839

Primary study design
Interventional

Study design
Single-center interventional single-blinded randomized controlled trial

Study type(s)
Other

Health condition(s) or problem(s) studied
Information retention after preoperative assessment by anaesthesiologist or video education in patients scheduled for surgery

Interventions
Participants will be allocated by simple randomization (1:1:1:1) embedded in the trial software (E+POS by NovaCair) to one of four arms:

1. A control group that will only fill out the Rotterdam Anesthesia Knowledge Questionnaire (RAKQ) after the consultation by the anesthesiologist.
2. A baseline group that will fill out the RAKQ before and after the consultation to investigate the added value of a knowledge test to knowledge retention.

The intervention group is divided into two groups:
1. One group will see the educational video and fill out the RAKQ afterwards.
2. The other group will see the educational video and visit the anesthesiologist afterwards and take the knowledge test after the consultation.

All participants were presented with questionnaires on level of education, satisfaction, subjective knowledge and preoperative anxiety (APAIS) after filling out the RAKQ for the first time. Intermediate and long-term knowledge retention was measured by repeating the RAKQ in all groups except the baseline group, after 14 and 42 days.

Intervention Type
Behavioural

Primary outcome(s)
The effect size (Cohen's d) of video (augmented) preoperative anesthesiological education measured using the RAKQ at baseline, 14 and 42 days

Key secondary outcome(s)
1. Recruitment rate measured as the number of participants recruited per month of the study
2. Loss to follow-up measured as the number of participants lost at baseline, 14 and 42 days

Completion date
28/10/2021

Eligibility

Key inclusion criteria

1. Adults visiting the preoperative anesthesia clinic
2. Scheduled for elective surgery
3. Able to read, write and understand the Dutch language

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Total final enrolment
146

Key exclusion criteria
1. Cardiothoracic surgery
2. Caesarian sections

Date of first enrolment
01/04/2021

Date of final enrolment
16/09/2021

Locations

Countries of recruitment
Netherlands

Study participating centre
Erasmus MC
Dr.Molewaterplein 40
Rotterdam
Netherlands
3015 GD

Sponsor information

Organisation

Erasmus MC

ROR
https://ror.org/018906e22

Funder(s)

Funder type
Charity

Funder Name
Health~Holland

Alternative Name(s)
Top Sector Life Sciences & Health, Dutch Life Sciences & Health, Dutch LSH, Top Sector LSH, LSH

Funding Body Type
Private sector organisation

Funding Body Subtype
Trusts, charities, foundations (both public and private)

Location
Netherlands

Results and Publications

Individual participant data (IPD) sharing plan
The generated datasheet will most likely be made available through KNAW-DANS (Royal Dutch Academy of Sciences - Data Archiving and Network Services) accessible through https://dans.knaw.nl/ after verification both with KNAW-DANS and the principal investigator.

IPD sharing plan summary
Stored in publicly available repository