

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

Submission date 16/08/2022	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 17/08/2022	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 17/08/2022	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

Worldwide, there are many initiatives to improve preoperative patient education and subsequent level of knowledge of anaesthesia, 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 anaesthesiological screening. Although many videos to educate patients on anaesthesia 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 anaesthesiologist 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 education 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 anaesthesia 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 anaesthesia 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

Clinical Trials Information System (CTIS)

Nil known

Protocol serial number

rakq_pilot

Study information

Scientific Title

Information retention after video (augmented) preoperative anaesthesiological 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

Study design

Single-center interventional single-blinded randomized controlled trial

Primary study design

Interventional

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 anaesthesiologist.
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 anaesthesiologist 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 anaesthesiological 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