

# The efficacy of using animated videos as an educational tool about root canal treatment

<b>Submission date</b> 09/05/2023	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 15/05/2023	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 30/07/2024	<b>Condition category</b> Oral Health	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

Most patients are unaware of the root canal treatment process; they fear it because they think or hear it is unpleasant. This ignorance may influence the patient's decision hence trying to avoid the treatment. Written pamphlets, films, face-to-face counselling, and web-based apps are all examples of educational tools that may be used to provide health information. The use of video as a teaching tool has several potential benefits. It can be less expensive, eliminate educator discrepancies, be delivered in various formats and reach a large audience via social media. However, it is unknown what is the best educational tool to use for increasing population awareness about root canal treatment. For this reason, a randomized controlled trial study aims to evaluate the patients' knowledge and awareness of endodontic therapy. As well as their worries and expectations by comparing two delivery methods: educational animation and leaflets.

### Who can participate?

Adult patients recruited from Umm Al-Qura University (UQU) who can speak and read Arabic, live in Saudi Arabia, know how to use Whatsapp and approve to participate in the trial and did sign the consent form.

### What does the study involve?

The participants' knowledge was assessed at the baseline then they were randomized into a study group (SG) and a control group (CG).

The SG received an educational animation followed by the assessment questionnaire, which evaluated the knowledge, attitude, perception, experience and challenges toward the endodontic treatment. The CG received a leaflet followed by the same assessment.

### What are the possible benefits and risks of participating?

The main benefit is to improve the patient's knowledge about root canal treatment.

No risk

### Where is the study run from?

Umm Al-Qura University (UQU), Faculty of Dentistry, Makkah, Saudi Arabia, is where participants were recruited. After gaining their approval, an online questionnaire was sent via Whats app.

When is the study starting and how long is it expected to run for?  
December 2021 to March 2023

Who is funding the study?  
Investigator initiated and funded

Who is the main contact?  
Dr Afnan Nassar, aanassar@uqu.edu.sa

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Afnan Nassar

**ORCID ID**  
<http://orcid.org/0000-0002-2723-3395>

**Contact details**  
Umm Al-Qura University  
Makkah  
Saudi Arabia  
24352  
+966 (0)506378234  
aanassar@uqu.edu.sa

## Additional identifiers

**EudraCT/CTIS number**  
Nil known

**IRAS number**

**ClinicalTrials.gov number**  
Nil known

**Secondary identifying numbers**  
HAPO-02-K-012

## Study information

**Scientific Title**  
The effect of educational animation compared to leaflets on patient's knowledge and attitude regarding root canal treatment: a randomized control trial

**Study objectives**

Using educational animation improves patients' knowledge and awareness about root canal treatment compared to leaflets.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Approved 04/01/2022, Umm Al-Qura University Institutional Review Board (Umm Al-Qura University, Makkah, 24352, Saudi Arabia; +966 (0)125270000; irb.uqudent@uqu.edu.sa), ref: HAPO-02-K-012

### **Study design**

Single-blinded randomized controlled trial

### **Primary study design**

Interventional

### **Secondary study design**

Randomised controlled trial

### **Study setting(s)**

Community, Internet/virtual

### **Study type(s)**

Other

### **Participant information sheet**

Not available in web format, please use contact details to request participant information sheet.

### **Health condition(s) or problem(s) studied**

Knowledge about root canal treatment in dental patients

### **Interventions**

Study group (SG):

In this group, the participants were selected from UQU Dental Clinics. They were contacted via WhatsApp (a social media platform) and given a demonstration video on how the dentist performs endodontic treatment and the benefits of this procedure. WhatsApp was used because of the end-to-end encryption, so it is highly secure and preserves patient confidentiality. Participants received a self-reported questionnaire to assess their knowledge, attitude, perception and challenges toward endodontic treatment and impression from the educational animation experience.

Control group (CG):

This group received the same information, except it was delivered in a leaflet.

Evaluation at different periods: (T1) before the intervention, (T2) immediately after the intervention and (T3) one month after the intervention, using a questionnaire.

Randomisation: Computer software was used (<https://www.randomizer.org>). Two Sets of 66 unique numbers per set ranging from 1 to 133 were generated.

## **Intervention Type**

Behavioural

### **Primary outcome measure**

Evaluation at different periods: (T1) before the intervention, (T2) immediately after the intervention and (T3) one month after the intervention, using a questionnaire.

The questionnaire is composed of three sections.

Section one contains questions about demographic variables: including gender, educational level, age, occupation, and nationality.

Section two assessed the participant's knowledge of root canal treatment (RCT) and his previous experience with RCT.

The third section determined the participant's attitudes toward RCT.

### **Secondary outcome measures**

There is no secondary outcome measure.

### **Overall study start date**

02/12/2021

### **Completion date**

23/03/2023

## **Eligibility**

### **Key inclusion criteria**

1. Adult (18 years and older).
2. Arabic speakers living in Saudi Arabia.
3. Able to read and use WhatsApp social media platform.

### **Participant type(s)**

Other

### **Age group**

Adult

### **Lower age limit**

18 Years

### **Sex**

Both

### **Target number of participants**

133

### **Total final enrolment**

70

### **Key exclusion criteria**

1. Did not complete the three questionnaires.
2. Did not approve to participate in the trial and did not sign the consent form.

**Date of first enrolment**

04/01/2022

**Date of final enrolment**

01/12/2022

## **Locations**

**Countries of recruitment**

Saudi Arabia

**Study participating centre****Online**

Umm Al-Qura University  
Makkah  
Saudi Arabia  
24382

## **Sponsor information**

**Organisation**

Umm al-Qura University

**Sponsor details**

Al Abdeyah  
Makkah al Mukarramah  
Saudi Arabia  
21955  
+966 125501000  
dentistry@uqu.edu.sa

**Sponsor type**

University/education

**Website**

<https://uqu.edu.sa/english>

**ROR**

<https://ror.org/01xjqrm90>

# Funder(s)

Funder type  
Other

Funder Name  
Investigator initiated and funded

## Results and Publications

Publication and dissemination plan  
Planned publication in a high-impact peer-reviewed journal

Intention to publish date  
26/08/2023

Individual participant data (IPD) sharing plan  
The datasets generated during and/or analysed during the current study are available from the corresponding author on reasonable request.  
Dr. Afnan Nassar, Umm Al-Qura University, Faculty of Dentistry, Saudi Arabia.  
SPSS file (unidentified).  
The data will be available upon request for two years.  
Data can be accessed by the journal to which we will submit our article, any Saudi Governmental authority and researchers after careful consideration of their scientific intention to use.  
All data are anonymous, with no identification.

IPD sharing plan summary  
Available on request

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>		29/07/2024	30/07/2024	Yes	No