

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

07 Jun 2026

### EFFECT OF OCCLUSAL REDUCTION ON POSTOPERATIVE PAIN IN TEETH WITH SYMPTOMATIC APICAL PERIODONTITIS FOLLOWING ENDODONTIC INSTRUMENTATION

#### Protocol summary

##### Study aim

The aim of this study was to determine if occlusal reduction can reduce post-operative pain to increase the comfort of the patient.

##### Design

In this clinical trial once informed consent was taken each subject was allotted a group with the help of lottery method randomization. This was non concealed and non blinded from the subject. Sample collection was done on non- probability consecutive technique. Subjects were asked to record their pain perceived on the visual analogue scale at 24 th hour in both groups. Which was explained to them before hand.

##### Settings and conduct

Operative dentistry and Endodontic department Rehmat Memorial Dental Teaching Hospital Abbottabad. It was a non blinded study and sample collected on non probability consecutive sampling.

##### Participants/Inclusion and exclusion criteria

INCLUSION ; Patients having maxillary and mandibular posterior teeth with symptomatic apical periodontitis, teeth that tender to percussion, having moderate to severe pre-operative both gender and age 18 and above are included in the study. EXCLUSION ; Teeth with no opposing tooth, and patients presenting with swelling and sinus were excluded.

##### Intervention groups

In the intervention group 2mm of occlusal reduction of the tooth will be done after first visit of endodontic treatment i.e. cleaning and shaping of canals

##### Main outcome variables

Pain perceived by the subject at the 24 th hour.  
Recorded on the visual analogue scale .

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20171123037603N1**  
Registration date: **2023-07-28, 1402/05/06**  
Registration timing: **retrospective**

Last update: **2023-07-28, 1402/05/06**

Update count: **0**

##### Registration date

2023-07-28, 1402/05/06

##### Registrant information

##### Name

Asim qureshi Qureshi

##### Name of organization / entity

Ayub medical and dental college

##### Country

Pakistan

##### Phone

+92 340 9053423

##### Email address

asimovtm@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2021-07-01, 1400/04/10

##### Expected recruitment end date

2021-12-30, 1400/10/09

##### Actual recruitment start date

2022-02-01, 1400/11/12

##### Actual recruitment end date

2022-10-30, 1401/08/08

##### Trial completion date

2022-10-30, 1401/08/08

##### Scientific title

EFFECT OF OCCLUSAL REDUCTION ON POSTOPERATIVE PAIN IN TEETH WITH SYMPTOMATIC APICAL PERIODONTITIS FOLLOWING ENDODONTIC INSTRUMENTATION

## Public title

Effect of occlusal reduction on postoperative pain in teeth with symptomatic apical periodontitis following endodontic treatment.

## Purpose

Prevention

## Inclusion/Exclusion criteria

### Inclusion criteria:

Mandibular and maxillary posterior teeth with symptomatic apical periodontitis Teeth that and tender to percussion

### Exclusion criteria:

Teeth without an opposing tooth Teeth associated with facial swelling Teeth associated with sinus

## Age

From **18 years** old

## Gender

Both

## Phase

1-2

## Groups that have been masked

*No information*

## Sample size

Target sample size: **60**

Actual sample size reached: **60**

## Randomization (investigator's opinion)

Randomized

## Randomization description

After informed consent taken from the subjects . Each individual was allotted an intervention group with the help of lottery method. This lottery method was conducted with the help of computer software. No concealment was done from the participant.

## Blinding (investigator's opinion)

Not blinded

## Blinding description

## Placebo

Not used

## Assignment

Single

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

The ethical committee at Rehmat Memorial Post graduate Dental Teaching Hospital

##### Street address

Supply Bazar , Main road

##### City

Abbottabad

##### Postal code

224400

##### Approval date

2021-05-20, 1400/02/30

##### Ethics committee reference number

REF.NO.WMC/RMDTH/EC/2083

## Health conditions studied

### 1

#### Description of health condition studied

Patients with mandibular or maxillary posterior teeth with symptomatic apical periodontitis.

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

Pain perceived by subject

#### Timepoint

24 hours after the procedure.

#### Method of measurement

Visual analogue scale (VAS) printed and handed to subject.

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: Occlusal reduction

#### Category

Prevention

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Operative and Endodontic department Rehmat Memorial Dental Teaching Hospital

##### Full name of responsible person

Dr. Khadija Jahanzeb

##### Street address

Supply Bazar , Main road

##### City

Abbottabad

##### Postal code

224400

##### Phone

+92 992 390337

**Email**

jahanzeb.khadija@gmail.com

**Phone**

+92 340 9053423

**Email**

asimovtm@gmail.com

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Rehmat Memorial Dental Teaching Hospital.

**Full name of responsible person**

Dr. Khadija Jahanzeb.

**Street address**

Supply Bazar , Main road

**City**

Abbottabad

**Postal code**

224400

**Phone**

+92 992 390337

**Email**

jahanzeb.khadija@gmail.com

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Rehmat Memorial Dental Teaching Hospital.

**Proportion provided by this source**

15

**Public or private sector**

Private

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding***empty***Country of origin****Type of organization providing the funding**

Academic

**Person responsible for general inquiries****Contact****Name of organization / entity**

Ayub medical college

**Full name of responsible person**

Asim qureshi Qureshi

**Position**

Assistant Professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Dentistry

**Street address**

Riaz house hill street opposite hotel one

**City**

Abbottabad

**Province**

Khyber Pakhtunkhwa

**Postal code**

224400

**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Ayub medical and dental college

**Full name of responsible person**

Asim qureshi Qureshi

**Position**

Assistant Professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Dentistry

**Street address**

Main manshera road Abbottabad

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224400

**Phone**

+92 340 9053423

**Fax****Email**

asimovtm@gmail.com

**Person responsible for updating data****Contact****Name of organization / entity**

Ayub medical and dental college

**Full name of responsible person**

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**Position**

Assistant Professor

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**Other areas of specialty/work**

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asimovtm@gmail.com

## Sharing plan

### **Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

### **Study Protocol**

Yes - There is a plan to make this available

### **Statistical Analysis Plan**

Yes - There is a plan to make this available

### **Informed Consent Form**

Yes - There is a plan to make this available

### **Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

### **Analytic Code**

Not applicable

### **Data Dictionary**

Undecided - It is not yet known if there will be a plan to make this available

### **Title and more details about the data/document**

Only data entered in SPSS/ Excel sheets will be shared not individual sheets.

### **When the data will become available and for how long**

After publication of data it will be available.

### **To whom data/document is available**

Whoever requests the corresponding author with justification for the requirement

### **Under which criteria data/document could be used**

Corresponding author will decided depending on the request. Keeping in mind the best interest of the participants.

### **From where data/document is obtainable**

asimovtm@gmail.com

### **What processes are involved for a request to access data/document**

A informal request to the corresponding authors

### **Comments**