

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jul 2026

Comparison of the analgesic effect of Anahil Plus and ibuprofen on pain after root canal treatment: a clinical trial study

Protocol summary

Study aim

Evaluation of analgesic effect of ibuprofen and Anahil Plus on postendodontic pain

Design

A clinical trial with parallel, single-blind, randomized, phase 2-3 groups on 78 patients. The process of randomization is done by Random allocation software.

Settings and conduct

the control group receives ibuprofen tablets and the intervention group receives Anahil Plus capsules. infra alveolar nerve block is done by injection of 1.8ml of lidocaine. After tooth isolation, tooth preparation will be done. Length determination is performed with the help of periapical radiography. Cleaning and shaping are done using the passive step-back technique. Saline and hypochlorite 2% are used as a cleanser. The canals are then dried with a paper cone and gutted laterally with gutta-percha and AH26 sealer. Patients are asked to record the pain score before drug use, 6, 12, and 24 hours after endo treatment. all steps are done in a private clinic.

Participants/Inclusion and exclusion criteria

inclusion criteria: Healthy patients aged 20 to 50 years with posterior teeth with irreversible pulpitis, radiographically normal teeth without any lesions
exclusion criteria: Patients using a drug that interferes with NSAIDs or lidocaine, systemic disease, pregnancy or lactation, allergy to Pineapple, celery, carrot, and fennel, aggressive periodontal disease, irreparable teeth

Intervention groups

control group includes 39 patients receiving ibuprofen 400mg tablets, saponin company, single-dose before endodontic treatment; intervention group includes 39 patients receiving Anahil Plus capsules containing 150 mg of bromelain and 300 mg of turmeric, Permon Amin Health Company, single-dose before endodontic treatment

Main outcome variables

Pain intensity after treatment

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200905048627N1**

Registration date: **2020-10-16, 1399/07/25**

Registration timing: **registered_while_recruiting**

Last update: **2020-10-16, 1399/07/25**

Update count: **0**

Registration date

2020-10-16, 1399/07/25

Registrant information

Name

Fateme Keshvaridoost

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 11 3340 5474

Email address

f.keshvaridoost@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-09-19, 1399/06/29

Expected recruitment end date

2020-10-20, 1399/07/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the analgesic effect of Anahil Plus and ibuprofen on pain after root canal treatment: a clinical trial study		Secondary Ids	
Public title		empty	
effect of Anahil Plus and Ibuprofen on pain after root canal treatment		Ethics committees	
Purpose		1	
Supportive		Ethics committee	
Inclusion/Exclusion criteria		Name of ethics committee	
Inclusion criteria:		Ethics committee of Mazandaran University of Medical Sciences	
Healthy patients aged 20 to 50 years Posterior teeth with irreversible pulpitis Spontaneous pain with at least 30mm on Visual Analogue Scale Radiographically normal teeth, without any lesions, without sinus tract and without acute periapical abscess Normal patients according to the Hospital Anxiety and Depression Scale Prolonged tooth response to pulp electrical test and Endo-ice test Fill in and sign the consent form		Street address	
Exclusion criteria:		Mazandaran University of Medical Sciences, Vali-asr Highway, Imam Square, Sari	
Taking medication that interferes with Non Steroid Anti Inflammatory Drugs or Lidocaine Existence of systemic disease Pregnancy or breastfeeding allergy to pineapple, celery, carrot and fennel Consumers of anticoagulants Existence of aggressive periodontal disease unable to restore the tooth pain in more than one tooth		City	
Age		Sari	
From 20 years old to 50 years old		Province	
Gender		Mazandaran	
Both		Postal code	
Phase		۴۸۱۵۷۳۳۹۷۱	
2-3		Approval date	
Groups that have been masked		2020-09-06, 1399/06/16	
• Outcome assessor		Ethics committee reference number	
Sample size		IR.MAZUMS.REC.1399.601	
Target sample size: 78		Health conditions studied	
Randomization (investigator's opinion)		1	
Randomized		Description of health condition studied	
Randomization description		Post endodontic pain	
The sampling method is 2-step. In the first step, using a simple random sampling method, samples with inclusion criteria will be selected. In the second stage, the blocked randomization method will be used for random allocation. Using blocked randomization, samples are assigned to two groups. The blocked randomization process is done with random allocation software. The samples will be placed in thirteen hexagonal blocks as mentioned.		ICD-10 code	
Blinding (investigator's opinion)		ICD-10 code description	
Single blinded		Primary outcomes	
Blinding description		1	
Due to the type of medication, there is no possibility of double-blinding, so the person who records the pain score is blinded without knowing the type of medication.		Description	
Placebo		Pain after endodontic treatment	
Not used		Timepoint	
Assignment		6, 12 and 24 hours after endodontic treatment	
Parallel		Method of measurement	
Other design features		Visual Analogue Scale questionnaire	
		Secondary outcomes	
		empty	
		Intervention groups	
		1	
		Description	
		Intervention group: Anahil Plus capsules containing 150 mg of bromelain and 300 mg of turmeric, Permon Amin Health Company, single dose before endodontic treatment	
		Category	
		Treatment - Drugs	

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Description

Control group: Ibuprofen 400 mg tablet Saponin company single dose before endodontic treatment

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

private dental office

Full name of responsible person

Dr Narges Hoshyari

Street address

Ghoo medical complex, gharan St, Sari

City

Sari

Province

Mazandaran

Postal code

4816895475

Phone

+98 11 3331 5114

Email

narjeshoshyari@rocketmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Dr Majid Saeedi

Street address

Research and Technology Center, Moallem SQ, Sari

City

Sari

Province

Mazandaran

Postal code

۴۸۱۵۷۳۳۹۷۱

Phone

+98 11 3326 1244

Email

pajoheshi@mazums.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Mazandaran University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

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

Mazandaran University of Medical Sciences

Full name of responsible person

Fateme Keshvaridoost

Position

dental student

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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City

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Dr Narges Hoshyari

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Position

dental student

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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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

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

Statistical Analysis Plan

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

Informed Consent Form

Undecided - It is not yet known if there will be 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

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

Data Dictionary

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