

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

29 May 2026

### Comparing the efficacy of hydroalcoholic extract of Iranian oak (germ and seed coat) with proton pump inhibitor (PPI) treatment in improving the symptoms of patients with gastroesophageal reflux

#### Protocol summary

##### Study aim

Comparing the efficacy of hydroalcoholic extract of Iranian oak (germ and seed coat) with proton pump inhibitor (PPI) treatment in improving the symptoms of patients with gastroesophageal reflux

##### Design

A randomized clinical trial with a control group, with parallel group design, double-blind, will be conducted on 90 patients. Randomization will be done through a block randomization method using blocks of size 4

##### Settings and conduct

This research is a randomized, double-blind controlled clinical trial that will be conducted on patients with gastroesophageal reflux disease (GERD) referred to the gastroenterology clinics of Imam Khomeini Hospital and Golestan Hospital in Ahvaz. To prevent bias until the end of the research, all members of the treatment and research team will be unaware of the codes (drug type) and after the end of the treatment, the codes will be opened

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: patients between 20 and 60 years old; diagnosed with gastroesophageal reflux (GERD) based on clinical symptoms (reflux at least twice a week) and diagnostic endoscopy (esophagogastroduodenoscopy) and according to the Los Angeles classification (grades A to D). Non-inclusion criteria: Patients who are infected with H. pylori in the initial diagnostic examinations and before the start of the intervention, based on stomach biopsy or stool test; presence of coagulation disorders or GI bleeding.

##### Intervention groups

Intervention group 1: There are patients who are treated with a medicinal product prepared from Iranian oak.  
Control group 1: As a positive control group, they will take pantoprazole. Control group 2: As a negative control group, they will take a placebo

#### Main outcome variables

Gastroesophageal reflux score in the health-related quality of life questionnaire

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20230304057615N1**

Registration date: **2023-07-02, 1402/04/11**

Registration timing: **prospective**

Last update: **2023-07-02, 1402/04/11**

Update count: **0**

##### Registration date

2023-07-02, 1402/04/11

##### Registrant information

##### Name

Amir Mohammad Zamani

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 61 3444 3748

##### Email address

zamani.am@ajums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2023-09-01, 1402/06/10

##### Expected recruitment end date

2024-10-01, 1403/07/10

##### Actual recruitment start date

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Comparing the efficacy of hydroalcoholic extract of Iranian oak (germ and seed coat) with proton pump inhibitor (PPI) treatment in improving the symptoms of patients with gastroesophageal reflux

**Public title**

Evaluation of the effect of hydroalcoholic extract of oak in patients with gastroesophageal reflux disease (GERD)

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

Patients who are between 20 and 60 years old Diagnosed with gastroesophageal reflux (GERD) based on clinical symptoms (having reflux at least twice a week), diagnostic endoscopy (esophagogastroduodenoscopy) and the Los Angeles classification (grades A to D) Not taking PPI for at least 1 week before entering the study

**Exclusion criteria:**

Patients who are infected with H. pylori in the initial diagnostic examinations and before the intervention, based on stomach biopsy or stool test Patients with coagulation disorders or GI bleeding Patients who have a history of upper GI surgery or suffer from other digestive diseases such as irritable bowel syndrome, peptic ulcer, obstructive disease, etc Patients with Zollinger-Ellison syndrome, primary motility disorders, Barrett's esophagus, esophageal stricture, and any severe disease with reflux and malignancy of the upper gastrointestinal tract, as well as pregnant or lactating women Patients who take PPIs from 28 days before diagnostic endoscopy or H2 receptor antagonists from 14 days before diagnostic endoscopy Patients who take NSAIDs or other drugs that may interfere with the interpretation of the study result. (diazepam, quinidine, Dilantin, warfarin, anticholinergics, prostaglandin analogs, or sucralfate) Patients with chronic kidney, lung, and liver diseases and ... Patients who have a history of sensitivity to pantoprazole or seasonal allergies or asthma Patients who consume alcohol or drugs

**Age**

From **20 years** old to **60 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

- Participant
- Care provider
- Investigator
- Outcome assessor

**Sample size**

Target sample size: **90**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Patients will be randomized using block randomization method and using blocks of size 4. And the patients are divided into three groups of 30 people and blocked randomization is for the purpose of making sure that exactly equal number of participants are included in the intervention and control groups in consecutive but equal time intervals

**Blinding (investigator's opinion)**

Double blinded

**Blinding description**

Placebo ingredients will be filled in capsules of the same color and similar to the original drug, and then the drug, placebo and pantoprazole capsules (pantoprazole 40 mg capsule produced by Dorsa Daru Company) will be coded by the pharmacist and to prevent bias, all members of the treatment and research team will be unaware of the codes until the end of the research, and after the end of the treatment, the codes will be opened.

**Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics Committee of Ahvaz Jundi Shapur University of Medical Sciences

**Street address**

Jundishapur University of Medical Sciences., Esfand St., Golestan Blvd., Ahvaz

**City**

Ahvaz

**Province**

Khuzestan

**Postal code**

6135715794

**Approval date**

2023-03-12, 1401/12/21

**Ethics committee reference number**

IR.AJUMS.REC.1401.530

**Health conditions studied****1****Description of health condition studied**

Gastroesophageal reflux

**ICD-10 code**

K21.9

**ICD-10 code description**

Gastro-esophageal reflux disease without esophagitis

## Primary outcomes

### 1

#### Description

Gastroesophageal reflux score in the health-related quality of life questionnaire

#### Timepoint

All patients are evaluated at the beginning of the study (before the intervention) and at the end of the first, second and fourth week

#### Method of measurement

Health-related quality of life questionnaire (related to GERD)

## Secondary outcomes

### 1

#### Description

Gastroesophageal reflux score in frequency scale questionnaire for symptoms

#### Timepoint

All patients are evaluated at the beginning of the study (before the intervention) and at the end of the first, second and fourth week

#### Method of measurement

The frequency scale for the symptoms questionnaire

## Intervention groups

### 1

#### Description

Intervention group :First, the oaks of the Quercus Persica species will be collected from the forests of the Zagros mountains in Mal Agha village, Baghmelk city, Khuzestan province, and a sample of them will be handed over to the pharmacognosy group to determine the genus and species and obtain the herbarium code. After that, the oaks are peeled and screened for quality, and then they are dried in a suitable environment at a temperature of 30 to 40 degrees and away from sunlight. After that, the dried oak fruits are crushed and ground by a grinder machine and sent to Ibn Masowayeh plant processing plant to produce hydroalcoholic extract, and in standard and hygienic conditions, the desired extract is prepared by spray drying. and then its tannin and polyphenol percentage will be determined. For the formulation of 200 mg capsules, which will be done in the pharmaceutical growth center under the supervision of a pharmaceutical specialist, first the powder is mixed with the permitted auxiliary substances such as Avicel and magnesium stearate homogeneously and uniformly by the Eruka machine, and then in empty capsules of zero size and They will be filled with Iran gelatin brand by filling machine. Finally, the capsules are controlled by weight and ready for using. Capsules prepared from oak fruit extract are prepared in doses of 200 mg and patients take the medicine for 1 month in two times, morning and evening.

#### Category

Treatment - Drugs

### 2

#### Description

Control group 1: There are patients who will take pantoprazole 40 mg for 1 month , daily and before eating breakfast.

#### Category

Treatment - Drugs

### 3

#### Description

Control group2: There are patients who will take a placebo for 1 month in two times, morning and evening.

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Ahvaz Imam Khomeini Hospital

##### Full name of responsible person

Ali Akbar Shayesteh

##### Street address

24 metry street, East sahely highway, Ahvaz

##### City

Ahvaz

##### Province

Khuzestan

##### Postal code

6193673166

##### Phone

+98 61 3444 3748

##### Email

shayeste-a@ajums.ac.ir

### 2

#### Recruitment center

##### Name of recruitment center

Ahvaz Golestan Hospital

##### Full name of responsible person

Ali Akbar Shayesteh

##### Street address

Golestan Hospital; Golestan alley

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Ahvaz

##### Province

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6193673166

##### Phone

+98 61 3311 4134

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shayeste-a@ajums.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Ahvaz University of Medical Sciences

**Full name of responsible person**

Mehrnoosh Zakerkish

**Street address**

24 metery street, East sahely highway, ahvaz

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+98 61 3373 8383

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zakerkish-m@ajums.ac.ir

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

Yes

**Title of funding source**

Ahvaz 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**

Ahvaz University of Medical Sciences

**Full name of responsible person**

Ali Akbar Shayesteh

**Position**

Associate Professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Internal Medicine

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## Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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**Position**

Associate Professor

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**Other areas of specialty/work**

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## Person responsible for updating data

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**Position**

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**Other areas of specialty/work**

Internal Medicine

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## Sharing plan

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

No - There is not a plan to make this available

**Justification/reason for indecision/not sharing IPD**

there is no more information

**Study Protocol**

No - There is not a plan to make this available

**Statistical Analysis Plan**

No - There is not a plan to make this available

**Informed Consent Form**

No - There is not a plan to make this available

**Clinical Study Report**

No - There is not a plan to make this available

**Analytic Code**

No - There is not a plan to make this available

**Data Dictionary**

No - There is not a plan to make this available