

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of Nicotine Patch in reducing post Appendectomy Ileus

#### Protocol summary

##### Summary

The aim of this study was to determine the effect of nicotine patch on reducing postoperative ileus and consequently its use in the clinic to accelerate the return of gastrointestinal activity and to reduce hospitalization time, thereby saving hospital costs and reducing the risk of getting hospital infections due to Long-term admissions. The inclusion criteria for patients aged 15 to 45 years who were diagnosed with appendicitis with acute appendicitis and were excluded from the study of peripheral appendicitis and cardiovascular, respiratory, diabetes, hypothyroidism, hypoparathyroidism ; Electrolyte disturbances; neuromuscular diseases; Tyad to tobacco and drugs, according to the patients report. The study population consisted of 80 patients who referred to Fatemi Hospital in Ardabil in 2016 and 2017 who were diagnosed with appendicitis as an appendicitis candidate. These 80 patients were assigned to control and intervention groups. In an intervention group of 40, one hour Before the start of the operation, 15 mg nicotine patch was applied to the arm and after the initiation of intestinal sounds and gas and fecal excretion, and fluid and solids intake and duration of hospitalization, were examined and in the control group 40 patients were non nicotinic patches that were attached to the arm and examined for signs mentioned in above. 458/5000

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017082535889N1**

Registration date: **2017-10-04, 1396/07/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-10-04, 1396/07/12

#### Registrant information

##### Name

Javid Mansoori

##### Name of organization / entity

Ardebil University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 45 3375 0281

##### Email address

j.mansoori@stud.arums.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Vice Chancellor for Research, Ardabil University of Medical Sciences

#### Expected recruitment start date

2017-02-19, 1395/12/01

#### Expected recruitment end date

2017-09-16, 1396/06/25

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

The effect of Nicotine Patch in reducing post Appendectomy Ileus

#### Public title

Effect on nicotine glue in increasing gastric mucus movements after appendectomy surgery

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

Criteria for entering the study: Age over 15 years of age and under 45 years of age Applicant for appendectomy  
Exit criteria: Perforated appendicitis; Cardiovascular disease; respiratory disease; diabetes; hypothyroidism;

hypoparathyroidism; electrolyte disorders; neuromuscular diseases; addiction Cigarettes and hookahs and drugs are based on patients' reports

### **Age**

From **15 years** old to **45 years** old

### **Gender**

Both

### **Phase**

N/A

### **Groups that have been masked**

*No information*

### **Sample size**

Target sample size: **80**

### **Randomization (investigator's opinion)**

Randomized

### **Randomization description**

### **Blinding (investigator's opinion)**

Double blinded

### **Blinding description**

### **Placebo**

Used

### **Assignment**

Parallel

### **Other design features**

## **Secondary Ids**

empty

## **Ethics committees**

### **1**

#### **Ethics committee**

##### **Name of ethics committee**

Ethic Committee Of Ardabil University Of Medical Sciences

##### **Street address**

Ardabil Complex Univesity, Daneshgah st., Ardabil, Ardabil Province.

##### **City**

Ardabil

##### **Postal code**

##### **Approval date**

2016-10-30, 1395/08/09

##### **Ethics committee reference number**

IR. Arums.rec.1395.58

## **Health conditions studied**

### **1**

#### **Description of health condition studied**

Acute appendicitis

#### **ICD-10 code**

K35

#### **ICD-10 code description**

Acute appendicitis

## **Primary outcomes**

### **1**

#### **Description**

Bowel Sounds

#### **Timepoint**

Every 2 Hour

#### **Method of measurement**

Hearing of Bowel sound by stethoscope

### **2**

#### **Description**

Flatus passing

#### **Timepoint**

Each 2 hours

#### **Method of measurement**

Asking from patients

### **3**

#### **Description**

Defecation

#### **Timepoint**

Each 2 hours

#### **Method of measurement**

Asking from patients

### **4**

#### **Description**

Duration of admission

#### **Timepoint**

After hospital discharge of patients

#### **Method of measurement**

Hours of hospitalization

### **5**

#### **Description**

Tolerance of watery foods

#### **Timepoint**

start eating of watery foods

#### **Method of measurement**

Ask the patient about nausea and vomiting

### **6**

#### **Description**

Tolerance solid foods

#### **Timepoint**

Start solid foods

#### **Method of measurement**

Ask the patient about nausea and vomiting

## **Secondary outcomes**

empty

## **Intervention groups**

## 1

### Description

Nicotine patch is fasted 15 milligrams half an hour before appendectomy surgery and the variables are recorded 2 hours after the operation.

### Category

Treatment - Drugs

## 2

### Description

Non-nicotine patch is fastened to the arm for half an hour before surgery and measurement of variables is performed 2 hours after the operation

### Category

Placebo

## Recruitment centers

## 1

### Recruitment center

#### Name of recruitment center

The Fatemy Hospital OF Ardebil City

#### Full name of responsible person

Javid Mansoori

#### Street address

Ardebil, Sarein Station, Imam Khomeini Street (RA), not reaching Shariati Square, Fatemi Educational and Therapeutic Center

#### City

Ardebil

## Sponsors / Funding sources

## 1

### Sponsor

#### Name of organization / entity

Vice Chancellor for Research, Ardabil University of Medical Sciences

#### Full name of responsible person

Dr Hadi Piri Dogahe

#### Street address

Ardabil Complex Univesity, Daneshgah st., Ardabil, Ardabil Province.

#### City

Ardebil

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Vice Chancellor for Research, Ardabil University of Medical Sciences

#### Proportion provided by this source

100

#### Public or private sector

*empty*

#### Domestic or foreign origin

*empty*

#### Category of foreign source of funding

*empty*

#### Country of origin

#### Type of organization providing the funding

*empty*

## Person responsible for general inquiries

### Contact

#### Name of organization / entity

Ardabil University of Medical Sciences

#### Full name of responsible person

Javid Mansoori

#### Position

Medical student

#### Other areas of specialty/work

#### Street address

Ardebil

#### City

Ardebil

#### Postal code

#### Phone

+98 914 351 8741

#### Fax

#### Email

j.mansoori@stud.arums.ac.ir

#### Web page address

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Ardabil University of Medical Sciences

#### Full name of responsible person

Dr. Ahmad Arabzadeh

#### Position

Specialist in General Surgery

#### Other areas of specialty/work

#### Street address

Ardabil Complex Univesity, Daneshgah st., Ardabil, Ardabil Province

#### City

Ardebil

#### Postal code

#### Phone

+98 912 415 2242

#### Fax

#### Email

A.arabzade@arums.ac.ir

#### Web page address

## Person responsible for updating data

### Contact

#### Name of organization / entity

Ardabil University of Medical Sciences

#### Full name of responsible person

Javid Mansoori

#### Position

Medical Student

**Other areas of specialty/work****Street address**

Ardabil Complex Univesity, Daneshgah st., Ardabil,  
Ardabil Province

**City****Postal code****Phone**

+98 914 351 8741

**Fax****Email****Web page address****Sharing plan****Deidentified Individual Participant Data Set (IPD)**

*empty*

**Study Protocol**

*empty*

**Statistical Analysis Plan**

*empty*

**Informed Consent Form**

*empty*

**Clinical Study Report**

*empty*

**Analytic Code**

*empty*

**Data Dictionary**

*empty*