Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The effect of Nicotine Patch in reducing post Appendectomy Illeus

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 Illeus

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 stetoscope

2

Description
Flatus passing

Timepoint
Each 2 hours

Method of measurement
Asking from patients

3

Description
Defication

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
Ardabil
City
Ardabil
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
Ardabil
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