

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jun 2026

### Effect of olive oil in the treatment of small bowel obstruction due to adhesions

#### Protocol summary

##### Summary

Abdominal adhesions may be defined as abnormal connective tissues attachments between tissue, organ or both in the abdominal cavity that are normally separated. The adhesion bonds can be congenital that are infrequent causes of bowel obstruction or acquired that usually can be due to peritoneal injuries especially abdominal pelvic surgery. Post operative adhesion are the most common cause of small bowel obstruction and it happens in 93% to 100% of trans peritoneal surgery. Also adhesive small bowel obstruction is a common cause of hospital admission and its consequences have a significant burden socioeconomically and the treatment of adhesive small bowel obstruction used fundamental portion of national health care resources for any country. It is estimate that approximately 85% of all small bowel obstruction are secondary to adhesion, hernias, or tumors. In terms of management of small bowel obstruction two main method are advised, surgical and non surgical methods. The most important factor to management of adhesive small bowel obstruction is detection of the patients who need emergency surgical intervention. The patients with partial adhesive small bowel obstruction may be managed conservatively. This management must be focus on fluid resuscitation, electrolyte correction, nasogastric suction, intestinal decompression with nasointestinal tube and antibiotic therapy. Sometimes the patients have a long hospital stay(from 1 week to 3 weeks). Some studies have done to show efficacy of non-surgical management of adhesion small bowel obstruction by sesame oil, water – soluble contrast like gastrographin. In this study, we try to evaluate the effect of oral olive oil in the management of adhesive small bowel obstruction,that approved no need any surgical intervention.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201401059936N8**  
Registration date: **2014-04-15, 1393/01/26**  
Registration timing: **registered\_while\_recruiting**

Last update:  
Update count: **0**

##### Registration date

2014-04-15, 1393/01/26

##### Registrant information

###### Name

Leila Ghahramani

###### Name of organization / entity

Shiraz University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 71 1623 5586

###### Email address

lghahraman@sums.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Vice-Chancellery of Research and Technology, Shiraz University of Medical Sciences, Shiraz, Iran

##### Expected recruitment start date

2013-06-25, 1392/04/04

##### Expected recruitment end date

2014-06-25, 1393/04/04

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effect of olive oil in the treatment of small bowel obstruction due to adhesions

### Public title

Effect of olive oil in the treatment of small bowel obstruction

### Purpose

Treatment

### Inclusion/Exclusion criteria

Inclusion: Therefore inclusion criteria are: -age older than 18 years old -previous laparotomy (>4 weeks) -adhesive small bowel obstruction symptoms such as abdominal pain, vomiting, abdominal distention. -plain and upright abdominal radiography will taken from the patient which showed dilated loops in small intestine and rectum and air fluid levels in the colon. Exclusion: -clinical evidence of bowel strangulation including intractable pain, fever, leukocytosis -clinical evidence of peritonitis -previous abdominal and pelvic radiation -inflammatory bowel disease -past medical history of cancer(GI cancer, pancreas cancer) -patient who were under operation within first 24 hours after admission -patient who refused use of nasogastric tube decompression -strangulated hernia -non cooperative patients such as mental retardation -immune compromise patient, diabetic patient, history of familial hypertrigliciremia -unconscious patient that cannot evaluated perfectly.

### Age

From **18 years** old to **85 years** old

### Gender

Both

### Phase

N/A

### Groups that have been masked

*No information*

### Sample size

Target sample size: **57**

### Randomization (investigator's opinion)

Randomized

### Randomization description

### Blinding (investigator's opinion)

Double blinded

### Blinding description

### Placebo

Not used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Shiraz University of Medical Sciences

##### Street address

Shiraz University of Medical Sciences, Shiraz, Iran

### City

Shiraz

### Postal code

-

### Approval date

2013-06-25, 1392/04/04

### Ethics committee reference number

91-01-01-5543

## Health conditions studied

### 1

#### Description of health condition studied

bowel obstruction

#### ICD-10 code

K31.5

#### ICD-10 code description

Obstruction of duodenum

## Primary outcomes

### 1

#### Description

Time to bowel obstruction

#### Timepoint

Every 6 hours

#### Method of measurement

The patient reported

## Secondary outcomes

### 1

#### Description

Low Abdominal pain and distention

#### Timepoint

Every 6 hours

#### Method of measurement

Physical Examination

## Intervention groups

### 1

#### Description

Intervention: in this group after admission, 150cc olive oil will be give by NG Tube.

#### Category

Other

### 2

#### Description

Control: Treatment is done backing of small bowel obstruction.

#### Category

Other

## Recruitment centers

1

### Recruitment center

**Name of recruitment center**

Colorectal Surgery, Shahid Faghihi hospital, Shiraz  
University of Medical Sciences

**Full name of responsible person**

Dr Leila Ghahramani- Assistant professor of General  
Surgery

**Street address**

Colorectal Research Center, Faghihi hospital, Shiraz,  
Iran

**City**

Shiraz

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Shiraz University of Medical Sciences

**Full name of responsible person**

Seyed Basir Hashemi, MD

**Street address**

Shiraz University of Medical Sciences, Shiraz, Iran

**City**

Shiraz

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

Yes

**Title of funding source**

Shiraz 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**

Colorectal Research Center, Shiraz university of  
medical sciences

**Full name of responsible person**

Dr Leila Ghahramani

**Position**

Colorectal flowship-assistant professor

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

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## Person responsible for scientific inquiries

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## Person responsible for updating data

### Contact

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## **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*