Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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

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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 interactable pain, fever, leukocytosis -clinical evidence of peritonitis -pervious 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 Siences
Street address
Shiraz University of Medical Siences, 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

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Colorectal Research Center, Faghihi hospital, Shiraz, Iran

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Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shiraz University of Medical Sciences

Full name of responsible person
Seyed Basir Hashemi, MD

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Shiraz University of Medical Sciences, Shiraz, Iran

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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
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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