

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Sep 2026

Investigation the outcomes of hypogastric arterial ligation before hysterectomy in patients with placenta accreta compare to healthy control

Protocol summary

Study aim

Determination the outcomes of hypo gastric arterial ligation before hysterectomy in patients with placenta accreta compare with control group

Design

controlled single blind clinical trial

Settings and conduct

In this study, 35 patients in each group (intervention and control groups) and a total of 70 patients with placenta accreta candidate for hysterectomy referring to Isfahan Alzahra Hospital include in the study. The intervention is hypogastric artery ligation prior to hysterectomy for intervention group. Then, the amount of bleeding, frequency of deep vein thrombosis, amount of used blood products during surgery, time of surgery and the duration of hospitalization between two groups will compare. Data analysis will perform using the software SPSS (version 25).

Participants/Inclusion and exclusion criteria

Inclusion criteria: 1. Diagnosis of placenta accreta disease by two experienced gynecologists by Color Doppler Ultrasonography 2. Awareness of the patient and her/his family from the study and signing the consent form
Exclusion criteria: 1. Patient's dissatisfaction for participant in the study

Intervention groups

Intervention group is consist of pregnant women with placenta accreta disorder candidate for hysterectomy that undergo hypo-gastric arterial ligation before hysterectomy. Control group is consist of pregnant women with placenta accreta disorder candidate for hysterectomy that do not undergo hypo-gastric arterial ligation before hysterectomy.

Main outcome variables

The amount of blood loss during operation, frequency of deep vein thrombosis, amount of used blood products during operation, time of operation and hospitalization

time

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190123042467N1**

Registration date: **2019-06-14, 1398/03/24**

Registration timing: **registered_while_recruiting**

Last update: **2019-06-14, 1398/03/24**

Update count: **0**

Registration date

2019-06-14, 1398/03/24

Registrant information

Name

Minoo Movahedi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-22, 1397/10/01

Expected recruitment end date

2019-09-23, 1398/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigation the outcomes of hypogastric arterial ligation before hysterectomy in patients with placenta accreta compare to healthy control

Public title

Investigation of hypo gastric arterial ligation in placenta accreta disorders

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

Diagnosis of placenta accreta disease by two experienced gynecologists by Color Doppler Ultrasonography Awareness of the patient and her/his family from the study and signing the consent form

Exclusion criteria:

Patient's dissatisfaction for participating in the study

Age

From **15 years** old to **49 years** old

Gender

Female

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Not randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description

In this study the patients were kept blind, which means they did not know which surgery was received.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics commite of Isfahan university of medical sciences

Street address

Isfahan University of Medical Sciences, Hezarjerib Street

City

Isfahan

Province

Isfahan

Postal code

۸۱۷۴۶-۷۳۴۶۱

Approval date

2018-12-09, 1397/09/18

Ethics committee reference number

IR.MUI.MED.REC.1397.156

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

Placenta adherent disorder

ICD-10 code

O72.0

ICD-10 code description

Third-stage hemorrhage

Primary outcomes**1****Description**

Amount of blood loss during operation

Timepoint

Immediately after intervention

Method of measurement

The amount of blood inside the aspirator

2**Description**

Frequency of deep vein thrombosis

Timepoint

Seven days after operation

Method of measurement

Duplex ultrasonography

3**Description**

Amount of used blood products during operation

Timepoint

End of operation

Method of measurement

Direct counting

4**Description**

Operation time

Timepoint

End of operation

Method of measurement

Timer

5**Description**

Time of hospitalization
Timepoint
Seven days after operation
Method of measurement
Investigation of medical record

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group is consist of pregnant women with placenta accreta disorder who are candidate for hypo-gastric arterial ligation before hysterectomy.

Category

Treatment - Surgery

2

Description

Control group: Control group is consist of pregnant women with placenta accreta disorder who are not candidate for hypo-gastric arterial ligation before hysterectomy.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center
Alzahra hospital
Full name of responsible person
Minoo Movahedi
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Esfahan University of Medical Sciences
Full name of responsible person
Dr Shaghayegh Haghjoo javanmardi
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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
Esfahan 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
Esfahan University of Medical Sciences
Full name of responsible person
Zahra Niakan
Position
Student
Latest degree
Medical doctor
Other areas of specialty/work
Gynecology and Obstetrics
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Professor

Latest degree

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Person responsible for updating data

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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

"No more information"

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available