

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Effect of oxytocin infusion on reducing operative blood loss during abdominal myomectomy

Protocol summary

Summary

Uterine myomas are benign tumors of the uterus. Abdominal myomectomy, the surgical removal of myomas, is an important treatment option especially for women who wish to preserve their uteri. The major problem with myomectomy is excessive bleeding, which can be life threatening and prolong postoperative stay. The aim of this study, is to assess the effectiveness, and safety of oxytocin to reduce blood loss during myomectomy. In this double blind, randomized, and placebo-controlled clinical trial, 80 patients requiring surgical myomectomy by laparotomy will be study. Patients will be randomize to two groups. In the study group (40 patients) oxytocin 30 u in 1000 ml normal saline administer during myomectomy and in the placebo group (40 patients) normal saline alone will be administered. The main outcome measures are peri-operative blood loss and rates of blood transfusion.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201211217013N3**
Registration date: **2012-12-09, 1391/09/19**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-12-09, 1391/09/19

Registrant information

Name

Simin Atashkhoei

Name of organization / entity

Tabriz University of Medical Siences

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Recruitment status

Recruitment complete

Funding source

Women's Reproductive Research Center, Tabriz University of Medical Sciences

Expected recruitment start date

2012-11-05, 1391/08/15

Expected recruitment end date

2013-08-06, 1392/05/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of oxytocin infusion on reducing operative blood loss during abdominal myomectomy

Public title

Effect of oxytocin infusion on reducing operative blood loss during abdominal myomectomy

Purpose

Prevention

Inclusion/Exclusion criteria

Including criteria: Women undergoing abdominal myomectomy; over 35 years age Excluding criteria: Patients candidate for hysteroscopic myomectomy; Patients with preoperative GnRH agonist consumption; Patients with history of cardiopulmonary disease

Age

From **35 years** old to **60 years** old

Gender

Female

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**

Ethics committee of Vice chancellor for research,
Tabriz University of Medical Sciences

Street address

Vice chancellor for research, Tabriz University of
Medical Sciences, Daneshgah square, Tabriz

City

Tabriz

Postal code**Approval date**

2012-11-04, 1391/08/14

Ethics committee reference number

91126

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

Bleeding during abdominal myomectomy

ICD-10 code

D25

ICD-10 code description

Leiomyoma of uterus

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

The amount of bleeding

Timepoint

During myomectomy

Method of measurement

Count sponges and the amount of blood collected in the

suction device - according to ml

Secondary outcomes**1****Description**

The amount of blood transfusion

Timepoint

Intra and postoperative

Method of measurement

Observation, Physical examination- Blood unit according
to ml

2**Description**

Hb and HcT values

Timepoint

Prior to operation and 24 h after operation

Method of measurement

Elyza method-CBC[Hb(g/dl), HcT(%)]

Intervention groups**1****Description**

In the study group (n=40) oxytocin 30 u into 1000 ml
normal saline will be infused during myomectomy.

Category

Treatment - Drugs

2**Description**

In the placebo group (n=40) normal saline alone 1000 ml
will be infused during myomectomy.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Operating Room and Cesarean setting, Al Zahra
Hospital, Tabriz University of Medical Sciences,

Full name of responsible person

Dr. Simin Atashkhoei

Street address

Al Zahra hospital, Artesh Jonoubi Ave, Tabriz

City

Tabriz

Sponsors / Funding sources**1****Sponsor**

Name of organization / entity

Women's Reproductive Health Research Center,
Tabriz University of Medical Sciences

Full name of responsible person

Dr. Elahe Olade Saheb Madarek

Street address

Al Zahra hospital, Artesh Jonoubi Ave, Tabriz

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Tabriz

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

Yes

Title of funding source

Women's Reproductive Health Research Center, Tabriz
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**

Women's Reproductive Health Research Center,
Tabriz University of Medical Sciences

Full name of responsible person

Dr. Simin Atashkhoei

Position

Associate Professor, Specialist in Anesthesiology

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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