

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The effect of tranexamic acid on blood loss during and after cesarean in women who candidate for cesarean section delivery by clinical trial study

Protocol summary

2014-09-09, 1393/06/18

Summary

The purpose of this study was evaluation the prophylactic effect of tranexamic acid in blood loss during and after cesarean section. Primiparas and multiparas females with singleton pregnancy during the gestational ages of 37 to 40 weeks who are going to be delivered by cesarean section through Pfannenstiel's incision and spinal anesthesia are enrolled to the study. Patients with problem of heart, liver, kidney, hematologic or rheumatologic problems, history of thyroid disease, abnormal placental, severe preeclampsia, macrosomia, severe anemia and problematic obstetric history are not enrolled to the study. Patients who have allergy to Tranexamic acid are excluding from study. Patients are randomly placed in two groups equally. First group is receiving 1g intra venous tranexamic acid diluted with 20cc dextrose water 5% in operation room 15min before skin incision. Second group is receiving distilled water as placebo like this method. Total blood loss during the surgery and two hours later were measured through the amount of blood in suction machine and the weight of bloody pads, gauze and cloths. Variables include the effect of tranexamic acid on reducing blood loss during and after cesarean section, the need for blood transfusion, hysterectomy and evaluation of drug's side effects in mothers.

Registrant information

Name

Forozan Milani

Name of organization / entity

Guilan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

milani@gums.ac.ir

Recruitment status

Recruitment complete

Funding source

Guilan University of Medical Sciences

Expected recruitment start date

2014-08-23, 1393/06/01

Expected recruitment end date

2015-08-23, 1394/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201405313485N4**

Registration date: **2014-09-09, 1393/06/18**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

Scientific title

The effect of tranexamic acid on blood loss during and after cesarean in women who candidate for cesarean section delivery by clinical trial study

Public title

The effect of tranexamic acid on blood loss during and after cesarean in women who candidate for cesarean section delivery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Primiparas and multiparas females with singleton pregnancy during the gestational ages of 37 to 40 weeks who are going to be delivered by cesarean section through fannenstiel's incision and spinal anesthesia Non-inclusion criteria: Patients with problem of heart, liver and kidney; hematologic or rheumatologic problems; history of thyroid disease; abnormal placental; severe preeclampsia; macrosomia; severe anemia; problematic obstetric history Exclusion criteria: allergy to Tranexamic acid

Age

From **135 years** old to **137 years** old

Gender

Female

Phase

2

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**

Vice Chancellor for Research, Guilan University of
Medical Sciences

Street address

Vice Chancellor for Research, Namjoo Street

City

Rasht

Postal code**Approval date**

2014-08-19, 1393/05/28

Ethics committee reference number

1930231608

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

Labour and delivery complicated by intrapartum haemorrhage, not elsewhere classified

ICD-10 code

0.72

ICD-10 code description

postpartum-haemorrhage

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

Blood loss during and two hours after surgery

Timepoint

During surgery until two hours

Method of measurement

Measuring the weight of bloody gauzes, pads and cloths during and two hours after the surgery and the amount of blood from the suction machine during the surgery

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

The need of blood transfusion

Timepoint

To 48 hours after a cesarean section

Method of measurement

Checking of hemoglobin and hematocrit during 12 to 24 hours after the surgery and checking vital signs every 4 hours

2**Description**

The need of hysterectomy

Timepoint

To 48 hours after a cesarean section

Method of measurement

Checking vital signs and examination for Atonic uterus and abnormal vaginal bleeding every 4 hours

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

Giving 1g intra venous tranexamic acid diluted with 20cc dextrose water 5% in 15min before skin incision

Category

Treatment - Drugs

2**Description**

Giving 1g intravenous distilled water as placebo diluted with 20cc dextrose water 5% in 15min before skin incision

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra hospital

Full name of responsible person

Dr. Roya Faraji

Street address

Alzahra hospital, Namjoo street

City

Rasht

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research, Guilan University of Medical Sciences, Rasht, Iran

Full name of responsible person

Dr. Abtin Heidarzadeh

Street address

Vice Chancellor for Research, Guilan University of Medical Sciences, Namjoo street

City

Rasht

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, Guilan University of Medical Sciences, Rasht, Iran

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

Guilan University of Medical Sciences

Full name of responsible person

Dr. Forozan Milani

Position

Assistant Professor of Obstetrics and Gynecology of Guilan University of Medical Sciences

Other areas of specialty/work

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Person responsible for updating data

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Full name of responsible person

Seyedeh Fatemeh Dalil Heirati

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B.S of Midwifery

Other areas of specialty/work

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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