

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jul 2026

Evaluation The Efficacy of Platelet Rich Plasma in Wound Healing on Women Undergoing Elective Cesarean Section Surgery in Arash Women Hospital

Protocol summary

Summary

The aim of this study is to evaluation the efficacy of platelet rich plasma in wound healing on women undergoing elective Cesarean Section Surgery. This is a non-randomized clinical trial, without using placebo or blinding the procedures. This study is in Arash hospital center (one center).The intervention arm receives autologous Platelet Rich Plasma. The control arm do not receive any wound treatment. All pregnant women candidate for elective Cesarean Section with Hemoglobin over 12 and without Diabetes or Gestational Diabetes are included in this study. The sample size of both arms in this study is 30 women. Fifteen patients candidates for elective Cesarean Section will receive autologous Platelet Rich Plasma (PRP) as intervention, only once during surgery on wound area. Platelet Rich Plasma (PRP) is produced from 60 cc of women autologous blood in surgery ward. The other patients are in control arm. The primary outcome is wound healing. Wound healing was checked in 5, 56 and 90 days after surgery by observational QUARTILE GRADING SCALE (QRS) method.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014041317251N1**

Registration date: **2014-04-30, 1393/02/10**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-04-30, 1393/02/10

Registrant information

Name

Negar Rezaei

Name of organization / entity

High Institute for Research and Education in Transfusion Medicine

Country

Iran (Islamic Republic of)

Phone

+98 21 8860 1564

Email address

n.rezaei@ibto.ir

Recruitment status

Recruitment complete

Funding source

High Institute for Research and Education in Transfusion Medicine

Expected recruitment start date

2011-11-22, 1390/09/01

Expected recruitment end date

2013-03-20, 1391/12/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation The Efficacy of Platelet Rich Plasma in Wound Healing on Women Undergoing Elective Cesarean Section Surgery in Arash Women Hospital

Public title

Efficacy of Platelet Rich Plasma in Wound Healing on Women Undergoing Elective Cesarean Section Surgery

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion:all candidate women for elective surgery

referred to Arash Women Hospital exclusion: Positive history of diabetes; Gestational Diabetes in this pregnancy; Gestational Diabetes in previous pregnancies;Twin pregnancies; Hemoglobin under 12;Body Mass Index over 25; Smokers.

Age

No age limit

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 30

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

This is a pilot study .

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

High Institute for Research and Education in Transfusion Medicine

Street address

IBTO Building, Next to Milad Tower, Hemmat Exp.way

City

Tehran

Postal code

14665-1157

Approval date

2011-05-02, 1390/02/12

Ethics committee reference number

24/2/90 مورخ 103/ب

Health conditions studied

1

Description of health condition studied

wound healing

ICD-10 code

O90.0

ICD-10 code description

Disruption of caesarean section wound

Primary outcomes

1

Description

wound healing

Timepoint

5 days- 8 weeks-3 months

Method of measurement

QUARTILE GRADING SCALE(QRS) which is an observational method

Secondary outcomes

empty

Intervention groups

1

Description

intervention: After receiving 50- 60 CC of women blood in surgery ward, Platelet Rich plasma will be produce by Centrifuging the blood. Platelet Rich plasma is using once during the surgery on wound area .

Category

Treatment - Other

2

Description

control: there is no additional treatment for wound healing in this group.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Arash Women Hospital

Full name of responsible person

Dr Rezaei

Street address

Next to Police Station Code:126, Shahid Baghdarnia St., Resalat Highway

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

High Institute for Research and Education in Transfusion Medicine

Full name of responsible person

DR krimi

Street address

IBTO Building, Next to the Milad Tower, Hemat
Exp.way

City

Tehran

Grant name

Grant code / Reference number

**Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

High Institute for Research and Education in Transfusion
Medicine

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

High Institute for Research and Education in
Transfusion Medicine

Full name of responsible person

Dr Negar Rezaei

Position

Research Assistant In Charge, Medical Doctor

Other areas of specialty/work

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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