Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Clinical trail of comparison of pregnancy outcome in women with history of repeated implantation failure after intrauterine infusion of autologous platelet rich plasma (PRP) and women without intervention undergoing frozen thawed cycles

Protocol summary

Summary

This is a phase 3 randomized clinical trial which is conducted in Yazd research and clinical center for infertility on two groups of 33 infertile women with history of minimum two repeated implantation failure or more between 18 to 42 years old after intrauterine infusion of autologous platelet rich plasma (PRP) and women without intervention undergoing frozen thawed cycles. In 2nd day of cycle the patients undergo a basic trans vaginal sonography. For all the women who enter in frozen thawed cycles, estradiol tablet 2mg three times daily is initiated. In 13th day of cycle trans vaginal sonograghy is done for the patients again. Those who have endometrial thickness above 8mm enter in the study. They are divided in 2 groups randomly with table of random numbers with computerized software. In interventional group PRP (plasma riches platelet) is infused intrauterine with(intra uterine insemination) IUI catheter. In both groups Progesterone vaginal suppository 400 mg twice daily is prescribed for 3 days then embryos in cleavage state are transferred. Chemical pregnancy is evaluated with checking Bhcg 2 weeks after embryo transfer and clinical pregnancy with trans vaginal sonography and observation of fetal heart 2 to 3 weeks after positive pregnancy test

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016090728950N3**
Registration date: **2016-11-26, 1395/09/06**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2016-11-26, 1395/09/06

Registrant information

Name
Nosrat Neghab
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Research and Clinical center for Infertility, Shahid Sadoughi University of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences, Vice chancellor for research

Expected recruitment start date

2016-09-22, 1395/07/01

Expected recruitment end date

2017-01-19, 1395/10/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical trail of comparison of pregnancy outcome in women with history of repeated implantation failure after intrauterine infusion of autologous platelet rich plasma (PRP) and women without intervention undergoing frozen

thawed cycles

Public title
Intrauterine infusion of autologous platelet rich plasma (PRP) on women with repeated frozen thawed cycles failure
Purpose
Treatment
Inclusion/Exclusion criteria
inclusion criteria: women undergoing frozen thawed cycles; history of 2 or more history of implantation failure; age between 18 to 42 exclusion criteria: hematological and immunological disorders; hormonal disorders; chromosomal and genetic abnormalities; uterine abnormalities (congenital or acquired)
Age
From **18 years** old to **42 years** old
Gender
Female

Phase
3
Groups that have been masked
No information
Sample size
Target sample size: **66**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
Randomized allocation with computerized program we divide the patients randomly in intervention and control groups with table of random numbers

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Shahid Sadoughi University of Medical Sciences
Street address
Bouali Avenue, Safayeh, Yazd, Iran
City
Yazd
Postal code
8916877391
Approval date
2016-09-22, 1395/07/01
Ethics committee reference number
IR.ssu.rsi.rec.1395.16

Health conditions studied

1

Description of health condition studied
female infertility
ICD-10 code
N97.9
ICD-10 code description
female infertility unspecified

Primary outcomes

1

Description
chemical pregnancy
Timepoint
2 weeks after embryo transfer
Method of measurement
serum pregnancy test

2

Description
clinical pregnancy
Timepoint
4 weeks after embryo transfer
Method of measurement
trans vaginal sonograghy

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group:In 2nd day of cycle the patients undergo a basic trans vaginal sonography. For all the women who enter in frozen thawed cycles, estradiol tablet 2mg three times daily is initiated. In 13th day of cycle trans vaginal sonograghy is done for the patients again. Those who have endometrial thickness above 8mm enter in the study .They are divided in 2 groups randomly. In interventional group PRP (plasma riches platelet) is infused intrauterine with IUI catheter. Then Progesterone vaginal suppository 400 mg twice daily is prescribed for 3 days and embryos in cleavage state are transferred. .
Category
Treatment - Drugs

2

Description
Control group: In 2nd day of cycle the patients undergo a basic trans vaginal sonography. For all the women who enter in frozen thawed cycles, estradiol tablet 2mg three times daily is initiated. In 13th day of cycle trans vaginal

sonograghy is done for the patients again. Those who have endometrial thickness above 8mm enter in the study .They are divided in 2 groups randomly. In control group, they continue routine protocol and Progesterone vaginal suppository 400 mg twice daily is prescribed for 3 days then embryos in cleavage state are transferred.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Yazd Research and Clinical Center for Infertility Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Dr Maryam Eftkhar

Street address

Bouali Avenue, Safayeh, Yazd, Iran

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Sadoughi University of Medical Sciences, Vice chancellor for research

Full name of responsible person

Dr Maryam Eftekhar

Street address

Bouali Avenue, Safayeh, Yazd, Iran

City

Yazd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahid Sadoughi University of Medical Sciences, Vice chancellor for research

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

Yazd Research and Clinical Center for Infertility Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Dr Nosrat Neghab

Position

Obstetrician &Gynecologist fellowship of infertility and IVF(studying)

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Yazd Research and Clinical Center for Infertility Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Dr Maryam Eftekhar

Position

Obstetrician&Gynecologist fellowship of infertility and IVF associated professor

Other areas of specialty/work

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Full name of responsible person

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Position

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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