

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jul 2026

Evaluation the effect of Oestrigel and Estradiol valerate on clinical pregnancy rate on patient that candidate for freeze embryo transfer cycle.

Protocol summary

Summary

One of the major issues in frozen embryo transfer is coordination between endometrial growth and development of the fetus. The aim of this study is evaluation of Oestrigel effect on endometrial preparation for IVF. This is a randomized , single blind in ,3th of stage in trial and uni center study. One hundred patient that candidate for freeze embryo transfer were enrolled in this prospective, randomized, single blind, clinical trial. Patients who candidate for fresh cycles were excluded. Physician was not aware patient allocation. All Patients received GNRH agonist (triptoreline 0.1mg, SC) at 21th day of cycle and continued at least 14day , Then patients were divided in to two groups by a clinic nurse by the simple randomization , that group 1 (n=50) use of estradiol valerat tablet 8 mg per day from 1th day of menstrual until endometrial length greater than 8mm . In group 2 (n=50) , patients received transdermal oestrogel 8mg in the first day of menstrual cycle until endometrial length greater than 8 mm, Then embryo transfer were performed. Progesterone was given to all patients. Primary outcome is clinical pregnancy rate and secondary outcome was endometrial thickness.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016092429951N1**
Registration date: **2017-01-02, 1395/10/13**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-01-02, 1395/10/13

Registrant information

Name

Roya Kabodmehri

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6119 2049

Email address

rkabodmehri@razi.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Research and technology centerTehran University of medical sciences

Expected recruitment start date

2015-11-22, 1394/09/01

Expected recruitment end date

2016-10-22, 1395/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation the effect of Oestrigel and Estradiol valerate on clinical pregnancy rate on patient that candidate for freeze embryo transfer cycle.

Public title

Effect of transdermal Estradiol gel compare Estradiol valerat on endometrial preparation in freeze embryo transfer cycle cycle

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: hyperstimulation in previous cycle and non- transfer in fresh cycle; premature menu pose; menu pose; patients who candidate for embryo and egg donation
Exclusion criteria: hyper sensitivity to gonadotropin releasing hormone agonist; fresh cycle .

Age

From **18 years** old to **50 years** old

Gender

Female

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tehran University of Medical Sciences.

Street address

Central Building , Ghods Street.

City

Tehran

Postal code

Approval date

2015-11-10, 1394/08/19

Ethics committee reference number

IR.TUMS.VCR.REC.1395.1312

Health conditions studied

1

Description of health condition studied

freeze transfer embryo

ICD-10 code

XIV

ICD-10 code description

Disease of the genitourinary system

2

Description of health condition studied

preparation of Endometrium for freeze embryo transfer

ICD-10 code

XIV

ICD-10 code description

Disease of the genitourinary system

Primary outcomes

1

Description

Clinical Pregnancy

Timepoint

two week after embryo transfer

Method of measurement

Blood test for confirm of pregnancy with ELISA

Secondary outcomes

1

Description

Endometrial thickness

Timepoint

13 th day of menstrual cycle

Method of measurement

Transvaginal sonography

Intervention groups

1

Description

Intervention group:In group 2 (n=50) , patients received transdermal oestrogel 8mg in the first day of menstrual cycle until endometrial length greater than 8 mm, Then embryo transfer were performed. Progesterone was given to all patients.

Category

Treatment - Drugs

2

Description

Control group : group 1 (n=50) received of estradiol valerat tablet 8 mg per day from 1th day of menstrual until endometrial length greater than 8mm, Then embryo transfer were performed. Progesterone was given to all patients

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Health Reproductive Research Center

Full name of responsible person

Roya kabodmehri

Street addressValiasr Infertility Clinic , Imam Khomeini
Hospital,Keshavarz Blvd.**City**

Tehran

Email

rk@tums.razi.ac.ir

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Reproductive Health Research Center

Full name of responsible person

Ensieh Shahrokh Tehraninejad

Position

Infertility Fellowship

Other areas of specialty/work**Street address**

Valiasr Hospital,Keshavarz Blvd.

City

Tehran

Postal code**Phone**

+98 21 6119 2049

Fax**Email**

etehraninejad@sina.tums.ac.ir

Web page address**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**Vice Chancellor for Research, Tehran University of
Medical Sciences**Full name of responsible person**

Dr.Masoud Younesian

Street address

Floor N.6, Central Bulding , Ghods Street.

City

Tehran

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

Yes

Title of funding sourceVice Chancellor for Research, Tehran 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**

Reproductive Health Research Center

Full name of responsible person

Roya Kabodmehri

Position

Infertility Fellowship Assistant

Other areas of specialty/work**Street address**

Valiasr Hospital, keshavarz Blvd.

City

Tehran

Postal code

14194

Phone

+98 21 6119 2049

Fax

+98 21 6658 1616

Person responsible for updating data**Contact****Name of organization / entity**

Vali Asr Reproductive Health Research Center

Full name of responsible person

Fedyeh Haghollahi

Position

Expert in Research

Other areas of specialty/work**Street address**First floor,Valiasr Hospital 2,Imam Khomeini
Hospital,Keshavarz Blvd.**City**

Tehran

Postal code

14194

Phone

+98 21 6658 1616

Fax

+98 21 6658 1658

Email

fedyeh_hagh@yahoo.com

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