

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jul 2026

Study of injection of follicular fluid into uterine cavity on implantation rate in IVF cycle

Protocol summary

Summary

The main objective of this study is injection of follicular fluid into uterine cavity on implantation rate in IVF cycle. In a randomized unit-central clinical trial, 68 patients with recurrent implantation failure referring to infertility clinic of Alzahra Hospital, Tabriz, Iran, will be randomly assigned to two groups' case and control. The main inclusion criterion are: FSH levels below mIU / ml 10 and age between 20 to 40 years and the main exclusion criterion are have history of two or more implantation failure in in-vitro fertilization and having endometriosis. Patients were randomly placed in two groups of 55 people. From day 2 or 3 cycles 150 to 300 IU FSH injection and ovulation induction will start. After 6 or 7 cycles, antagonist of GnRH injections administered at a dose of 250 mg daily and 75 to 150 units monogon will be added to the diet 1 to 2 Tablets. After see at least three follicles larger than 18 mm HCG will be injected and then 34 to 36 hours after that, will be done the puncture of ovarian follicles. The follicular fluid of 2 or 3 follicular puncture obtained If that is not tinged with blood, after removal of the oocyte will be centrifuge and collected in a separate tube. After puncture2, ml of the liquid will be injected into the uterus using catheters IUI. In this study, the primary outcome of successful implantation and clinical pregnancy is considered to be a secondary consequence. In the control group method is the same of case without injected follicular liquid.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015021713566N3**

Registration date: **2015-05-29, 1394/03/08**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-05-29, 1394/03/08

Registrant information

Name

Kobra Hamdi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1554 1221

Email address

hamdik@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for Research, Tabriz University of Medical Sciences

Expected recruitment start date

2015-04-19, 1394/01/30

Expected recruitment end date

2016-07-20, 1395/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study of injection of follicular fluid into uterine cavity on implantation rate in IVF cycle

Public title

Study of injection of follicular fluid into uterine cavity on implantation rate in IVF cycle

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients aged 20 to 40 years old; FSH levels below mIU / mL 10; BMI less than 35 kg /m²; transfer 2 or 3 embryos Grade A or B; Exclusion criteria: patients with endometriosis; hydrosalpinx; uterine anatomical abnormalities such as myoma; polyps; mullerian anomalies like two horns of the uterus; endocrine disorders such as thyroid disease; PCO and have a history of two or more implantation failure.

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **110**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tabriz University of Medical Sciences

Street address

Golgasht Street ,Tabriz University Of Medical Sciences

City

Tabriz

Postal code

Approval date

2015-05-16, 1394/02/26

Ethics committee reference number

TBZMED.REC.1394.129

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N97.0

ICD-10 code description

Female infertility associated with anovulation

Primary outcomes

1

Description

Chemical Pregnancy

Timepoint

Measure B-HCG Sixteen days after injection of HCG

Method of measurement

BhCG test

2

Description

Clinical pregnancy (gestational sac seen by viewing the fetal heart rate and fetal pole

Timepoint

After positive β hCG

Method of measurement

Ultrasound

3

Description

Implantation rates

Timepoint

Two weeks after a positive pregnancy test

Method of measurement

Ultrasound

Secondary outcomes

empty

Intervention groups

1

Description

In the control group: Antagonist protocol GnRH will be used to stimulate ovulation, HCG may be used to seeing at least three follicles larger than 18 mm. After 34 to 36 hours will puncture of ovarian follicles

Category

Treatment - Drugs

2

Description

In the intervention group: Antagonist protocol GnRH will be used to stimulate ovulation, HCG may be used to seeing at least three follicles larger than 18 mm. After 34 to 36 hours will puncture of ovarian follicles. After isolation of the oocyte Part of follicular fluid from the puncture. Will be injected by intrauterine 2 cc of liquid by using IUI catheter after follicle puncture embryo transfer will take place two days after ovarian puncture.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Dr. Kobra Hamdi

Street address

Alzahra Hospital, South Artesh Ave

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Research,Tabriz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Rashidi

Street address

Third Floor, Central Building of Number2, Golgasht Street

City

Tabriz

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,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

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Kobra Hamdi

Position

Associate professor

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