

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Effects of oral ritodrine on infertility treatment

Protocol summary

Summary

The goal of the study is evaluating the effect of oral ritodrine in implantation rate in patients treated with IVF-ICSI/ET. Inclusion criteria: women having a normal uterus assessed with hysterosonography or hysteroscopy; infertility due to factors pipe; infertility due to male factor unexplained. Exclusion criteria: women having a systemic diseases; infertility due to advanced pelvic endometriosis; having endometriomas greater than 2 cm. Study population are women having fertility between 20 to 35 years old and are candidate for IVF/ICSI plan. 200 of these women which are referred to Alzahra hospital, infertility ward for treatment will be randomly assigned into two intervention and control groups (100 each). treatment will stimulation of ovaries with IVF method and after removing the ovocytes and getting them fertilized in lab, transferring the embryos will be done 48 to 72 hours after gathering the oocytes. Antibiotic prophylaxis will be done by using erythromycin tablets from the time of gathering for four days and oral ritodrine will be administered 10 mg, twice a day from one day before transferring for a week. Implantation rate was defined as the primary outcome.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201301146868N5**

Registration date: **2013-03-24, 1392/01/04**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-03-24, 1392/01/04

Registrant information

Name

Mahzad Sadaghiani

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1553 9161

Email address

sadaghianim@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of Medical Sciences

Expected recruitment start date

2013-01-29, 1391/11/10

Expected recruitment end date

2014-07-01, 1393/04/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of oral ritodrine on infertility treatment

Public title

Evaluation of the effect of oral ritodrine on implantation rate of in vitro fertilization – embryo transfer cycles

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: women having a normal uterus assessed with hysterosonography or hysteroscopy; infertility due to factors pipe; infertility due to male factor unexplained. Exclusion criteria: women having a systemic diseases; infertility due to advanced pelvic endometriosis; having endometriomas greater than 2 cm.

Age

From **20 years** old to **35 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **200**

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 institutional ethics review board

Street address

Azadi avenue, Golgasht street, Vice Chancellor for Research, Tabriz University of Medical Sciences

City

Tabriz

Postal code

Approval date

2012-06-13, 1391/03/24

Ethics committee reference number

2829/4/5

Health conditions studied

1

Description of health condition studied

infertility

ICD-10 code

N97

ICD-10 code description

Female Infertility

Primary outcomes

1

Description

Successful implantation

Timepoint

Two weeks after embryo transfer

Method of measurement

Increased hormone levels in the blood β HCG

Secondary outcomes

1

Description

The number and quality of oocytes and embryos, embryo transfer quality and results β HCG

Timepoint

Two weeks after embryo transfer

Method of measurement

Increased β HCG

Intervention groups

1

Description

In the intervention group Ritodrine pill 10mg, BID will be administered from the day before embryo transfer and continued for 6 days.

Category

Treatment - Drugs

2

Description

In control group no intervention will be done.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Dr. Mahzad Mehrzad Sadaghiani

Street address

Alzahra Hospital, Bagh-shomal, Arteshe-e-Jonoubi street

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Vice Chancellor of research

Street address

Tabriz University of Medical Sciences, Golgasht Street, Azadi Avenue

City
TABRIZ

Grant name

Grant code / Reference number

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

Title of funding source
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
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Full name of responsible person
Mahzad Mehrzad Sadaghiani

Position
Associate Professor

Other areas of specialty/work

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Position
Gynecologist, IVF fellowship

Other areas of specialty/work

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Position
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Other areas of specialty/work

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Fax

Email

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