

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Predictive value of follicular fluid Vitamin D in pregnancy rate of ivf program

Protocol summary

Summary

Vitamin D deficiency can reduce fertility, impair neonatal growth and superimpose to preeclampsia. Inclusion criteria: The patients who received standard long protocol for ivf. Exclusion criteria: FSH>10. A prospective cohort study was undertaken at Yazd research and clinical center for infertility. One hundred eighty infertile women undergoing IVF were referred to this center between September 2010 and September 2011. All the patients received long protocol as starting OCP from the second day of menstruation and suprefact 1mg/day after consumption of 15 pills of OCP. After menstruation suprefact decreased to .25 mg/day and it is continued till the day of ovum pick up. Gonadotropin is initiated from the second day of menses. When follicular size is reached to 18-20 mm, HCG 10000 IU is recommended. After 34-36 hours ovum pick up is performed. In the day of ovum pick up, follicular fluid and serum are collected for assay of vitamin D. Samples are frozen at -80 °C and after all samples were gathered, vitamin D is assayed. After that Vitamin D will be compared between pregnant and no pregnant groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201107314339N3**
Registration date: **2011-08-09, 1390/05/18**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-08-09, 1390/05/18

Registrant information

Name

Elham Rahmani

Name of organization / entity

Bushehr University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 77125265914

Email address

rahmani@bpums.ac.ir

Recruitment status

Recruitment complete

Funding source

Yazd research and clinical center for infertility

Expected recruitment start date

2010-09-23, 1389/07/01

Expected recruitment end date

2011-09-23, 1390/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Predictive value of follicular fluid Vitamin D in pregnancy rate of ivf program

Public title

The effect of vitamin D in success of IVF

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria: The patients who received standard long protocol for ivf, FSH<10, age between 20 till 39.
Exclusion criteria: The patients who received other protocol for ivf, FSH>10, Age<20, age >39, liver disease, kidney disease, heart disease.

Age

From **20 years** old to **39 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample sizeTarget sample size: **180****Randomization (investigator's opinion)**

N/A

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Other

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Yazd research and clinical center for infertility

Street address

yazd-boali street- research and clinical center for infertility

City

Yazd

Postal code

8916877391

Approval date

2011-05-24, 1390/03/03

Ethics committee reference number

646

Health conditions studied**1****Description of health condition studied**

female infertility

ICD-10 code

N97

ICD-10 code description

female infertility

Primary outcomes**1****Description**

Chemical pregnancy

Timepoint

14 days after embryo transfer

Method of measurement

serum BHCG

Secondary outcomes**1****Description**

Vitamin D of serum and follicular fluid

Timepoint

The day of ovum retrieval

Method of measurement

Vitamin D of serum and follicular fluid

Intervention groups**1****Description**

All the patients received long protocol as starting OCP from the second day of menstruation and suprefact 1mg/day after consumption of 15 pills of OCP. After menstruation suprefact decreased to .25 mg/day and it is continued till the day of ovum pick up. Gonadotropin is initiated from the second day of menses. When follicular size is reached to 18-20 mm, HCG 10000 IU is recommended. After 34-36 hours ovum picks up is performed. In the day of ovum pick up, follicular fluid and serum are collected for assay of vitamin D. Samples are frozen at -80 °C and after all samples were gathered, vitamin D is assayed. After that Vitamin D will be compared between pregnant and no pregnant groups.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Yazd research and clinical center for infertility

Full name of responsible person

Dr. Elham Rahmani

Street address

Yazd research and clinical center for infertility, Boali Street, Safaieh, Yazd.

City

Yazd

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Yazd research and clinical center for infertility

Full name of responsible person

Dr. Razieh Dehghani Firoozabadi

Street address

Yazd research and clinical center for infertility, Booali Street, Safaieh, Yazd.

City

Yazd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Yazd research and clinical center for infertility

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

Full name of responsible person

Dr.Elham Rahmani

Position

Obestetrics and Gynecologist

Other areas of specialty/work

Street address

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rahmani@bpums.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Yazd research and clinical center for infertility

Full name of responsible person

Dr Razieh Dehghani Firoozabadi

Position

obestetrics and gynecologist-fellowship of infertility

Other areas of specialty/work

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Web page address

Person responsible for updating data

Contact

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