Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Effect of Vit D therapy on anti-Mullerian hormone (AMH) level in women with infertility

Protocol summary

Summary

Objectives: The aim of this study is to evaluate the effect of Vit D therapy on AMH level in infertile women older than 35 with deficient Vit D level; Design:30 patients suffering infertility with deficient Vit D level admitted in Firoozgar hospital in this before and after study will enroll.Sampling will be non randomized; Setting and conduct: Serum AMH level will measure before and 3 months after treatment with 50000 IU Vit D weekly for three months. Serum AMH level will compare with basal level after completion of treatment; Inclusion criteria : patients suffering infertility with insufficient Vit. D (lower than 30 ng/ml); Anti mullerian horman level less than 0.7 ng/ml. Exclusion criteria :Vit Duse contraindication; Vit D use during 4 months before study; use of OCP during 2 months before study; thyroid function disorder; hyper prolactinemia; diabetes melituse; cogenital adrenal hyperplasia; Use of drugs affect on adrenal and ovarian function and metabolism of carbohydrates and lipids; Pregnancy; Intervention:Mothers with Vit D deficiency, 50000 IU of Pearl of Vit D weekly for three months administered; main outcome measures: Anti Mullerian Hormone Level before and three months after intervention, Fertility up to one year after intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201604137917N2**
Registration date: **2016-05-30, 1395/03/10**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2016-05-30, 1395/03/10

Registrant information

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Hamed Aghdam
Name of organization / entity
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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Iran University of Medical Sciences

Expected recruitment start date

2015-03-21, 1394/01/01

Expected recruitment end date

2016-03-19, 1394/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Vit D therapy on anti-Mullerian hormone (AMH) level in women with infertility

Public title

Effect of Vit D therapy on anti-Mullerian hormone (AMH) level in women with infertility

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria : patients suffering infertility with insufficient Vit. D (lower than 30 ng/ml); Anti mullerian horman level less than 0.7 ng/ml. Exclusion criteria :Vit

Duse contraindication; Vit D use during 4 months before study; use of OCP during 2 months before study; thyroid function disorder; hyper prolactinemia; diabetes melituse; cogenital adrenal hyperplasia; Use of drugs affect on adrenal and ovarian function and metabolism of carbohydrates and lipids; Pregnancy.

Age
No age limit

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **30**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Iran University of Medical Sciences

Street address
Shahid Hemmat Highway,next to Milad Hospital

City
Tehran

Postal code

Approval date
2015-06-14, 1394/03/24

Ethics committee reference number
Ir.IUMS.REC.1394.9221290001

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
Anti Mullerian Hormone Level

Timepoint
before and three months after intervention

Method of measurement
Hospital Labratoary

Secondary outcomes

1

Description
Fertility

Timepoint
up to one year after intervention

Method of measurement
Birth Report of the participants

Intervention groups

1

Description
Mothers with Vit D deficiency, 50000 IU of Pearl of Vit D producted in Zahravi Pharmaceutical Company weekly for three months administered.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Tehran Firoozgar hospital

Full name of responsible person
Leily Chenari

Street address
Beh Afarin Hospital, Valiasr Sq.

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for research, Iran University of Medical Sciences

Full name of responsible person
Abbas Motavallian, MD

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Shahid Hemmat Highway,next to Milad Hospital

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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, Iran 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

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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