

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

07 Jun 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

##### Name

Hamed Aghdam

##### Name of organization / entity

Tehran University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

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##### Email address

h-aghdam@razi.tums.ac.ir

#### 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 mellituse; 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 Labratory

**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

### Contact

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Iran University of Medical Sciences  
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Zahra Naderi, MD  
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## Person responsible for scientific inquiries

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## Person responsible for updating data

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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*