

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Effect of coenzyme Q10 in invitro fertilization results (IVF) in infertile women with poor ovarian response

Protocol summary

Summary

This study investigates the impact of using coenzyme Q10 in fertility outcome in "in vitro" fertilization ways. Patients include 30 women with poor ovarian response will be undergoing FLARE protocol who will be referred to Fatemeh hospital. The patients are divided into two equal groups randomly treated with Q10 and control group. Treatment group members receive 200 mg Q10 daily, eight weeks prior to ovulation induction and during performing IVF, in total, for 3 months and control group receive placebo. During the first two month serum level of LH, FSH and estradiol are measured monthly. At the same time 1 month before undergoing IVF patients will receive OCP daily from day 3 of period. And second day of next month period, LH, FSH and estradiol are measured. and two 0/1 mg Decapeptid Ampule are injected one per day and from the third day on, Gonadotropine injection with 300-450 IU dose is started and every 3-4 days, trans-vaginal sonography is conducted until the size of the follicle equals 18mm. Then 10000 units of HCG ampule is injection to the patient and 36 hours later, the processed sperm micro injection is conducted and 48-72 hours later, the transfer is accomplished and two weeks later, BHCG test is conducted in the laboratory of Fatemeh hospital.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012092810958N1**

Registration date: **2014-07-10, 1393/04/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-07-10, 1393/04/19

Registrant information

Name

Zhila Golmohammadi

Name of organization / entity

Hamedan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Hamedan University of Medical Sciences

Expected recruitment start date

2012-05-21, 1391/03/01

Expected recruitment end date

2013-05-22, 1392/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of coenzyme Q10 in invitro fertilization results (IVF) in infertile women with poor ovarian response

Public title

Effects of coenzyme Q10 in female infertility

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: primary infertility; age over 35 years; FSH > 10 on the third day of the cycle; ovarian volume < 3ml; oocyte < 3-5. Exclusion criteria: Lack of consent to the continuation of the treatment; Not referring the patient to continue treatment at designated

times; any current use of systemic steroid medication within 3 months of study enrollment; any contraindication to being pregnant and carrying a pregnancy to term; absence of one ovary; clinically relevant chronic systemic disease(diabet -HTN) and malignancies; use of insuline ,beta blocker,TCA,Estatine,comadine,warfarine,phenazopridine

Age

From **35 years** old to **50 years** old

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

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Hamedan University of Medical Sciences

Street address

Hamadan University of Medical Science, Mhdiye Blvd

City

Hamedan

Postal code

3519638686

Approval date

2012-07-03, 1391/04/13

Ethics committee reference number

/16/35/9/1216 /پ/د

Health conditions studied

1

Description of health condition studied

Infertility

ICD-10 code

N97

ICD-10 code description

Inability to achieve a pregnancy

Primary outcomes

1

Description

Pregnancy Rate

Timepoint

Every Cycle

Method of measurement

Pregnancy Test(BHCG)

Secondary outcomes

1

Description

Number of days induction

Timepoint

Daily

Method of measurement

Counting the days

2

Description

Number of gonadotropin ampules induction

Timepoint

Daily

Method of measurement

Counting ampoules

Intervention groups

1

Description

Intervention group:Patients receive 200 mg of coenzyme Q10 from 8 weeks before stimulates the egg agency to three months after .

Category

Treatment - Drugs

2

Description

Control group:Patients recieve placebo 8 weeks before stimulates the egg agency to three months after.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Fatemieh Hospital

Full name of responsible person

Marzieh Farimani

Street address

Fatemieh Hospital, Pasdaran avenue

City

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamadan University of Medical Sciences

Full name of responsible person

Heydar Tavillani

Street address

Mahdiye Blvd, Hamadan University of Medical Sciences

City

Hamadan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Hamadan 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

Hamadan University of Medical Sciences

Full name of responsible person

Zhila Golmohammadi

Position

Resident of Surgical Obstetrics and Gynecology

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