Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Effect of addition of L –Carnitine in Polycystic Ovary Syndrome (PCOS) Patients With Resistant Clomiphene Citrate and Gonodotropin Treatment

Protocol summary

Summary

In this study, 50 Women aged 20-35 years with PCOS normal ovarian reserve and randomly checked. If the patient have received clomiphene citrate (150-100) and gonadotropin, but the dominant follicle Not formed will be studied and if the patient is allergic to L-Carnitine, not wanting , family history of infertility, If have heart disease and lung be excluded. The research method in this case is In IUI cycles The induction of ovulation with clomiphene citrate (100-150 mg) and gonadotropin injections (3-5 pieces) is done L - carnitine from day 3 starting clomiphene citrate every 12 hours 2 vials (each vial, 1 g). until hcg injections, that Coincide with the sighting of a dominant follicle will be added to the diet, and Number of dominant follicles and endometrial thickness will be recorded and 36 hours after injection HCG, IUI Will be doing. Luteal phase support with progesterone products will be done. Treatment Outcome included number of Dominant follicles and pregnancy achievement Before and after receipt of L- carnitine in patients will be compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014030213566N2**
Registration date: **2014-04-23, 1393/02/03**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-04-23, 1393/02/03

Registrant information

Name

Kobra Hamdi

Name of organization / entity

Tabriz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice chancellor of research, Tabriz University of Medical Sciences

Expected recruitment start date

2014-04-05, 1393/01/16

Expected recruitment end date

2016-09-10, 1395/06/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of addition of L –Carnitine in Polycystic Ovary Syndrome (PCOS) Patients With Resistant Clomiphene Citrate and Gonodotropin Treatment

Public title

Effect of addition of L –Carnitine in Polycystic Ovary Syndrome (PCOS) Patients With Resistant Clomiphene Citrate and Gonodotropin Treatment

Purpose

Treatment

Inclusion/Exclusion criteria

Encloses Criteria: Patients with infertility resistant to clomiphene citrate and gonadotropin regimens in age from 20-35 years with normal FSH and LH and AMH and estradiol Exclusion criteria:patient is allergic to L-

Carnitine, not wanting , family history of infertility, If have heart disease and lung

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: **50**

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
vice chancellor of research, Tabriz University of Medical Sciences

Street address
Third Floor, Central Building of Number2, Golgasht Street

City
Tabriz

Postal code

Approval date
2013-03-18, 1391/12/28

Ethics committee reference number
91225

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
Growth of the dominant follicle

Timepoint
The first 15 day menstrual cycle

Method of measurement
Ultrasound

Secondary outcomes

1

Description
Achieving pregnancy

Timepoint
16 days after injection of Hcg

Method of measurement
Blood tests

Intervention groups

1

Description
L - carnitine from day 3 starting clomiphene citrate every 12 hours 2 vials (each vial, 1 g)

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Alzahra Hospital

Full name of responsible person
Dr.Kobra Hamdi

Street address
Alzahra Hospital, bagh-shomal; Artesh Street South

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor of research, Tabriz University of Medical

Full name of responsible person
Dr. Mohammad Reza Rashidi

Street address
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Tabriz

Grant name

Grant code / Reference number

Is the source of funding the same sponsor

organization/entity?
Yes
Title of funding source
Vice chancellor of research, Tabriz University of Medical
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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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