

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jul 2026

Study of effects of vitamin D on IL2,IL4, IL-6 ,IL-17A,CYP27A1 and CYP27B1 genes expression in multiple sclerosis patients

Protocol summary

Summary

The aim of this research is to investigate vitamin D effects on the expression of IL2,IL4,IL6,IL17A,CYP27A1 and CYP27B1 in multiple sclerosis patients . Therefore,45 relapsing-remitting multiple sclerosis patients with serum level vitamin D (80NG/ML) are selected and after taking their blood samples ,are administrated to the patients 50000IU of vitamin D per week for 8 weeks .The patients' blood samples are taken after 8 weeks again .The expression of target genes will measure before and after treatment at mRNA level by Real Time PCR . Inclusion criteria: relapsing-remitting multiple sclerosis patients; MS patients with vitamin D deficiency (<80ng/ml). Exclusion criteria: patients treated with vitamin D supplements; progressive MS; relapsed patients, psychiatric patients and the patients who are taken steroid drugs.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014081818840N1**

Registration date: **2014-09-28, 1393/07/06**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-09-28, 1393/07/06

Registrant information

Name

Bahar Naghavi Gargari

Name of organization / entity

Modares University

Country

Iran (Islamic Republic of)

Phone

+98 21 8288 4477

Email address

bahar.naghavigargari@modares.ac.ir

Recruitment status

Recruitment complete

Funding source

Tarbiat Modares university

Expected recruitment start date

2012-09-23, 1391/07/02

Expected recruitment end date

2013-09-24, 1392/07/02

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study of effects of vitamin D on IL2,IL4, IL-6 ,IL-17A,CYP27A1 and CYP27B1 genes expression in multiple sclerosis patients

Public title

Study of effects of vitamin D on some genes expression in multiple sclerosis patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: relapsing-remitting multiple sclerosis patients; MS patients with vitamin D deficiency (<80ng/ml). Exclusion criteria: patients treated with vitamin D supplements; progressive MS; relapsed patients, psychiatric patients and the patients who are taken steroid drugs.

Age

From **22 years** old to **52 years** old

Gender

Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **45**

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 Tarbiat Modares University

Street address
school of Medicine, Tarbiat Modares University,
Nasrbrigs, Tehran, Islamic Republic of Iran

City
Tehran

Postal code

Approval date
2014-05-31, 1393/03/10

Ethics committee reference number
52/1632/d

Health conditions studied

1

Description of health condition studied

Multiple sclerosis

ICD-10 code
G35

ICD-10 code description
Multiple sclerosis

Primary outcomes

1

Description
expression of IL2 gene

Timepoint
before vitamin D treatment and two month after
treatment

Method of measurement
taking of blood from patients and measurment of mRNA

level

Secondary outcomes

1

Description
expression of IL4 ,IL6,IL17A,CYP27A1 and CYP27B1

Timepoint
before vitamin D treatment and two month after
treatment

Method of measurement
taking of blood from patients and measurement of mRNA
level

Intervention groups

1

Description
vitamin D, 50000 IU /a week , 8 weeks

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
MS Research Center

Full name of responsible person
Dr. Roozita Doosti

Street address

City
Terhran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor forTarbiat Modares University of
Tehran

Full name of responsible person
Dr. Mehrdad Behmanesh

Street address
Genetic Department, Faculty of biological Science,
Tarbiat Modares University, Tehran, Iran

City
Tehran

Grant name

Grant code / Reference number

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

Title of funding source

Vice Chancellor forTarbiat Modares University of Tehran

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

Tarbiat Modares University, Tehran, Iran

City

Tehran

Postal code**Phone**

+98 21 8288 4451

Fax**Email**

behmanesh@modares.ac.ir

Web page address**Person responsible for general inquiries****Contact****Name of organization / entity**

Tarbiat Modares University

Full name of responsible person

Bahar Naghavi Gargari

Position

phd student

Other areas of specialty/work**Street address**

Genetic Department, Faculty of Biological Science,
Tarbiat Modares university

City

Tehran

Postal code**Phone**

+98 21 8288 4477

Fax

+98 21 8288 4478

Email

bahar.naghavigargari@modares.ac.ir

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Tarbiat Modares University of Tehran

Full name of responsible person

Dr.Mehrdad Behmanesh

Position

Associate

Other areas of specialty/work**Street address**

Genetic Department, Faculty of Biological Science,

Person responsible for updating data**Contact****Name of organization / entity**

Tehran University of Medical Sciences

Full name of responsible person

Dr.Mohamad Ali Sahraian

Position

Specialist

Other areas of specialty/work**Street address**

MS Research Center, Sina hospital

City

Tehran

Postal code**Phone**

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Fax**Email****Web page address****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