

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Feb 2026

The effect of zinc supplementation on CD4+ lymphocyte cell count in HIV patients in Iranian research center: a randomized double blind controlled trial

Protocol summary

Summary

The objective of this randomized double blind trial is to investigate the effect of Zinc supplementation on the CD4+ lymphocyte cell count in HIV infected patients. In this study, 100 HIV Infected patients who meet eligibility criteria will be randomly assigned into intervention or control group. The patients in the intervention group will receive Zinc sulfate, 220 mg capsule (50 mg elemental zinc), daily for 6 months but in the control group will receive placebo. CD4+ lymphocyte cell count, blood hemoglobin level, body mass index, rate of opportunistic infections, and serum level of zinc will be measured and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138904244380N1**

Registration date: **2011-06-20, 1390/03/30**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-06-20, 1390/03/30

Registrant information

Name

Azar Haddadi

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6671 6546

Email address

haddadiaz@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2011-06-20, 1390/03/30

Expected recruitment end date

2012-12-20, 1391/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of zinc supplementation on CD4+ lymphocyte cell count in HIV patients in Iranian research center: a randomized double blind controlled trial

Public title

The effect of zinc supplementation on CD4+ lymphocyte cell count in HIV patients in Iranian research center: a randomized double blind controlled trial

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Age 18-60 years, Confirmed HIV-1 infection with western blot test, receiving HAART, CD4 between 200 and 350, signing informed consent
Exclusion criteria: Pregnancy, any other supplementation than zinc, history of hypersensitivity to Zinc, unwilling to cooperate, any plan to leave Tehran during the next 9 months after beginning of the study, History of chronic kidney diseases

Age

From **18 years** old to **60 years** old

Gender

Both

Phase

0

Groups that have been masked*No information***Sample size**Target sample size: **100****Randomization (investigator's opinion)**

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee of Tehran University of Medical Sciences

Street address

Medical Ethics Building, 16th Azar avenue, Tehran,

City

Tehran

Postal code**Approval date**

2010-06-10, 1389/03/20

Ethics committee reference number

130/403/89/ص

Health conditions studied**1****Description of health condition studied**

HIV infection

ICD-10 code

B24

ICD-10 code description

Unspecifidied immunodeficiency virus [hiv]disease

Primary outcomes**1****Description**

CD4+ lymphocyte cell count

Timepoint

Baseline, every 3 months up to the end of the study

Method of measurement

Flowcytometry

Secondary outcomes**1****Description**

Body mass index

Timepoint

Baseline and at the end of the study

Method of measurementweight(kg)/height(m) \times height(m)**2****Description**

Blood hemoglobin

Timepoint

Baseline and at the end of the study

Method of measurement

CBC TEST

3**Description**

Rate of opportunistic infections

Timepoint

Every month during the study

Method of measurement

Medical history and physical examination

4**Description**

Serum level of zinc

Timepoint

Baseline and at the end of the study

Method of measurement

atomic absorption spectrometry

Intervention groups**1****Description**

Control group: Placebo capsule (the same in taste and colour to zinc capsule) once daily during 6 months study intrvention

Category

Placebo

2**Description**

Intervention group: Zinc sulphate 220 mg capsule contains 50 mg elemental zinc once daily during 6 months study

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Iranian AIDS Research center

Full name of responsible person

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor For Research, Tehran University of Medical Sciences

Full name of responsible person

Dr Akbar Fotuhi

Street address

Tehran University of Medical Sciences, 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 For Research, Tehran 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

Tehran university of medical science, medical school

Full name of responsible person

Behnaz Edalatnoor

Position

Medical Student

Other areas of specialty/work

Street address

medical school, Tehran university of medical science,

City

Tehran

Postal code

Phone

+98 21 8474 2236

Fax

Email

edalatnoor.behnaz@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehran university of medical science, medical school

Full name of responsible person

Dr Azar Haddadi

Position

Infectious diseases Associate Professor

Other areas of specialty/work

Street address

Deputy of Research, Sina hospital, Hasanabad square, Imam Khomeini avenue

City

Tehran

Postal code

Phone

+98 21 6671 6545

Fax

Email

haddadiaz@tums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Tehran university of medical science, medical school

Full name of responsible person

Behnaz Edalatnoor

Position

Medical Student

Other areas of specialty/work

Street address

Medical school, Tehran university of medical science,

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Tehran

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Phone

+98 21 8474 2236

Fax

Email

edalatnoor.behnaz@gmail.com

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