

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Efficiency of oral zinc sulphate supplement on clearance of cervical human papilloma virus

Protocol summary

Study aim

To assess the effect of oral zinc sulphate in clearance of cervical human papilloma virus (HPV). To assess the effect of oral zinc sulphate in clearance of cervical human papilloma virus (HPV) and age. To assess the effect of oral zinc sulphate in clearance of cervical human papilloma virus (HPV) and OCP. To assess the effect of oral zinc sulphate in clearance of cervical human papilloma virus (HPV) and smoking.

Design

Clinical trials with control group, non randomised with blinded postoperative care and outcome assessment.

Settings and conduct

Gynecology clinic of Motahari Hospital.

Participants/Inclusion and exclusion criteria

Inclusion criteria are the following: having a positive HPV DNA test and Pap smear cytology report of either ACUS or LSIL. Patients with abnormal serum zinc level, ongoing pregnancy, breast feeding, immune compromised state diagnosis and prior history of cone biopsy were excluded from study. Inclusion criteria are the following: having a positive HPV DNA test and Pap smear cytology report of either ACUS or LSIL. Patients with abnormal serum zinc level, ongoing pregnancy, breast feeding, immune compromised state diagnosis and prior history of cone biopsy were excluded from study.

Intervention groups

According to previous studies, based on the fact that zinc has a strengthening effect on the immune system, in some studies it has caused viral clearance and wart healing. In our study, patients who have an abnormal Pap smear or a positive viral genome and their serum levels are normal will be given oral zinc sulfate capsules and will have another Pap smear and viral genome re-examined three months later. We will not have therapeutic intervention in the control group and will be re-examined and compared with the intervention group three months later.

Main outcome variables

clearance of cervical human papilloma virus

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210407050882N1**

Registration date: **2021-04-15, 1400/01/26**

Registration timing: **registered_while_recruiting**

Last update: **2021-04-15, 1400/01/26**

Update count: **0**

Registration date

2021-04-15, 1400/01/26

Registrant information

Name

Naghme Zandvakili

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 44 3366 4468

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-04-09, 1400/01/20

Expected recruitment end date

2021-06-21, 1400/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
Efficiency of oral zinc sulphate supplement on clearance of cervical human papilloma virus

Public title
Effect of zinc sulphate in papilloma virus

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
positive HPV DNA test LSIL in pap smear Ascus in pap smear
Exclusion criteria:
Pregnancy Breast feeding Immunocompromised state deasie Perior history of cervical cone biopsy or LEEP

Age
From **21 years** old to **55 years** old

Gender
Female

Phase
1-2

Groups that have been masked

- Investigator

Sample size
Target sample size: **80**

Randomization (investigator's opinion)
Not randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description
Tha research is blind and given oral zinc sulphate tables by the clinical caregiver on even days,and the individual day patients place in the control group.

Placebo
Not used

Assignment
Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Urmia University of medical sciences

Street address

Urmia, Emergency Ave , Resalat Blvd

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Postal code

3457871437

Approval date

2018-12-12, 1397/09/21

Ethics committee reference number

IR.UMSU.REC.1397.366

Health conditions studied

1

Description of health condition studied

Abnormal papsmear and cervical cytology

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Effect of oral zinc sulphat(in department variable)in clearance of cervical human papilloma virus (dependent variable)

Timepoint

Both groups check their serum zinc levels at start and the end of study,which is before the star of zinc supplement and 30 days after the last dose of zinc for intervention group.Than in both groups do pap smear and cervical HPV typing.

Method of measurement

Repeat pap smear and HPV typing in same laborator

Secondary outcomes

empty

Intervention groups

1

Description

Control group:no medication

Category

Other

2

Description

Intervention group: Before starting the study, the subject of research on the relationship between serum zinc levels and the possibility of purification of cervical human papilloma virus and effect and probably side effects of zinc sulphate supplement explain to all patients and with knowledge and cosent enter the study.Than given zinc sulphate capsule 220 mg (zinc 50 mg) twice a day for three months.cap zinc sulphate 220 mg 7H20 made in iran.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid motahari hospital

Full name of responsible person

Naghme zandvakili

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

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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

Oroumia University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Naghme zandvakili

Position

Specialist

Latest degree

Specialist

Other areas of specialty/work

Gynecology and Obstetrics

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Person responsible for scientific inquiries

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Subspecialist

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Person responsible for updating data

Contact

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Latest degree

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available