

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

Evaluation of the effects of vitamin E on the treatment and prevention of relapse in women with lower urinary tract infection

Protocol summary

Study aim

Determination of the effect of vitamin E on the treatment and prevention of relapse in women with lower urinary tract infection

Design

Clinical trial with control group, double-blind, randomized, phase 3 on 80 women with lower urinary tract infection. In this study, individuals will be assigned to intervention and control groups by lottery randomization method.

Settings and conduct

This clinical trial will be performed on 80 women with lower urinary tract infections over 18 years of age referred to the Infectious Clinic of Vali-e-Asr Hospital in Birjand. All of the steps will be covered by the patient, physician and evaluators.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Women over 18 years, At least three symptoms including frequency, urgency (urgent need to urinate), dysuria, hematuria, and suprapubic pain
Exclusion criteria: History of allergy or intolerance to vitamin E, Peptic ulcer bleeding, Hemophilia, Use of antiplatelet and anticoagulant drugs, Urinary tract obstruction and urological abnormalities, History of renal abscess, Diabetes mellitus, Taking antibiotics in the previous two days, Catheterization two weeks ago, History of hospitalization or catheter in two weeks ago, Kidney stones, Pregnancy and lactation, Immune deficiency (Patients with HIV, etc), Vitamin K deficiency, Liver and renal failure, Candidate for surgery, Flank pain, fever above 37.7 ° C, fever and chills, feeling ill and tired or other evidence of systemic infection, CVA tenderness, symptoms of vaginitis (itching and vaginal discharge)

Intervention groups

Intervention group: Vitamin E softgel 100 units daily for 6 months
Control group: Vitamin E softgel placebo 100 units daily for 6 months

Main outcome variables

Frequency, Dysuria, Urgency, Recurrence rate of urinary

tract infection, Mean recovery time

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210617051604N1**

Registration date: **2021-07-11, 1400/04/20**

Registration timing: **prospective**

Last update: **2021-07-11, 1400/04/20**

Update count: **0**

Registration date

2021-07-11, 1400/04/20

Registrant information

Name

Razieh Avan

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 56 3238 1925

Email address

avanrazieh@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-07-23, 1400/05/01

Expected recruitment end date

2022-07-23, 1401/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effects of vitamin E on the treatment and prevention of relapse in women with lower urinary tract infection

Public title

Evaluation of the effect of vitamin E in women with urinary tract infection

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Women over 18 years At least three symptoms including frequency, urgency (urgent need to urinate), dysuria, hematuria, and suprapubic pain

Exclusion criteria:

History of allergy or intolerance to vitamin E Peptic ulcer bleeding Hemophilia Use of antiplatelet and anticoagulant drugs Urinary tract obstruction and urological abnormalities History of renal abscess Diabetes mellitus Taking antibiotics in the previous two days Catheterization two weeks ago History of hospitalization or catheter in two weeks ago Kidney stones Pregnancy and lactation Immune deficiency (Patients with HIV, etc) Vitamin K deficiency Liver and renal failure Candidate for surgery Flank pain, fever above 37.7 ° C, fever and chills, feeling ill and tired or other evidence of systemic infection, CVA tenderness, symptoms of vaginitis (itching and vaginal discharge)

Age

From **18 years** old

Gender

Female

Phase

3

Groups that have been masked

- Participant
- Care provider
- Outcome assessor

Sample size

Target sample size: **80**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be randomly divided into two groups using a random number table. First, we create a variable from 1 to 80 in Excel software. Then we create another variable in another column and generate 40 random numbers one and 40 random numbers two with the randomization command. The numbers of one and two are intervention and placebo groups, respectively.

Blinding (investigator's opinion)

Double blinded

Blinding description

All of the steps will be covered by the patient, physician and evaluators.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Birjand University of Medical Sciences

Street address

Birjand University of Medical Sciences, Ghaffari Street

City

Birjand

Province

South Khorasan

Postal code

9717853577

Approval date

2020-09-28, 1399/07/07

Ethics committee reference number

IR.BUMS.REC.1399.303

Health conditions studied

1

Description of health condition studied

Lower urinary tract infection

ICD-10 code

N39.0

ICD-10 code description

Urinary tract infection, site not specified

Primary outcomes

1

Description

Frequency

Timepoint

3 to 5 days after starting treatment

Method of measurement

Questionnaire

2

Description

Dysuria

Timepoint

3 to 5 days after starting treatment

Method of measurement

Questionnaire

3

Description

Urgency
Timepoint
3 to 5 days after starting treatment
Method of measurement
Questionnaire

4

Description
Recurrence rate of urinary tract infection
Timepoint
3 and 6 months after starting treatment
Method of measurement
Questionnaire

5

Description
Mean recovery time
Timepoint
During study
Method of measurement
Questionnaire

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Vitamin E softgel 100 units daily for 6 months
Category
Treatment - Drugs

2

Description
Control group: Vitamin E softgel placebo 100 units daily for 6 months
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Vali-e-Asr Educational and Medical Center affiliated to Birjand University of Medical Sciences
Full name of responsible person
Azadeh Ebrahimzadeh
Street address
Ghaffari Street, Vali-e-Asr Hospital
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Birjand University of Medical Sciences
Full name of responsible person
Deputy of research and technology, Birjand University of Medical Sciences
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Birjand University of Medical Sciences, Ghaffari Street
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Email
research@bums.ac.ir
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Birjand 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
Birjand University of Medical Sciences
Full name of responsible person
Hajar Mafakher
Position
Medical student
Latest degree
Medical doctor
Other areas of specialty/work
General Practitioner
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Person responsible for scientific inquiries

Contact**Name of organization / entity**

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Full name of responsible person

Razieh Avan

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Clinical Pharmacy

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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

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

Statistical Analysis Plan

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

Informed Consent Form

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

Clinical Study Report

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

Analytic Code

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

Data Dictionary

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