

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

26 May 2026

### Effect of 2% dill (*Anethum graveolens* L.) vaginal suppositories and clotrimazole 100 vaginal suppositories for the treatment of vulvovaginal Candidiasis

#### Protocol summary

##### Summary

Objective: comparing the effect of 2% dill (*Anethum graveolens* L.) vaginal suppositories and clotrimazole 100 vaginal suppositories for the treatment of vulvovaginal Candidiasis. This study was a single-blind, randomized, placebo-controlled trial, single center, in which sixty women with confirmed vulvovaginal candidiasis were selected and then randomly assigned to *Anethum graveolens* L and clotrimazole groups. Patient was assessed clinically and mycology by same gynecology in both first and final visit. Inclusion criteria consisted of married women aged 15- 49 years; have received a clinical diagnosis of vaginal candidiasis; have had a positive culture for vaginal candidiasis. Exclusion criteria: were pregnancy or breast-feeding; received antibiotic drugs and topical and systemic anti-fungal drugs within one month before; had three or more episode of VVC per year; missed more than one suppositories or vaginal tablet uses within seven consecutive days; had hypersensitivity to clotrimazole or *Anethum graveolens* .

#### General information

##### Acronym

vulvovaginal Candidiasis

##### IRCT registration information

IRCT registration number: **IRCT2016101828789N4**

Registration date: **2017-03-01, 1395/12/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-03-01, 1395/12/11

##### Registrant information

Name

Masumeh Ghazanfarpour

##### Name of organization / entity

Mashhad University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 34 4230 9487

##### Email address

ghazanfarpm901@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Mashhad University of Medical Sciences

##### Expected recruitment start date

2015-11-11, 1394/08/20

##### Expected recruitment end date

2016-06-28, 1395/04/08

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effect of 2% dill (*Anethum graveolens* L.) vaginal suppositories and clotrimazole 100 vaginal suppositories for the treatment of vulvovaginal Candidiasis

##### Public title

Effect of *Anethum graveolens* on vulvovaginal Candidiasis

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria consisted of married women aged 15-49 years; have received a clinical diagnosis of vaginal candidiasis; have had a positive culture for vaginal candidiasis. Exclusion criteria: were pregnancy or breast-

feeding; received antibiotic drugs and topical and systemic anti-fungal drugs within one month before; had three or more episode of VVC per year; missed more than one suppositories or vaginal tablet uses within seven consecutive days; had hypersensitivity to clotrimazole or Anethum graveolens.

**Age**

From **17 years** old to **45 years** old

**Gender**

Female

**Phase**

2-3

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **60**

**Randomization (investigator's opinion)**

Randomized

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

Single blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

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

Ethics Committee of Biomedical research, Mashhad  
University of Medical Sciences-

**Street address**

Ghoreishi building Daneshgah street Mashhad  
Khorasan Razavi Iran, Islamic Republic Of

**City**

Korsan razavi

**Postal code****Approval date**

2012-09-07, 1391/06/17

**Ethics committee reference number**

IR.mums.res.1391.802

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

vulvovaginal Candidiasis

**ICD-10 code**

N77.1

**ICD-10 code description**

Candidiasis of vulva and vagina

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

itching

**Timepoint**

before intervention and 7 days after intervention

**Method of measurement**

4-point likert-type scale

**2****Description**

burning

**Timepoint**

before intervention and 7 days after intervention

**Method of measurement**

4-point likert-type scale

**3****Description**

vaginal discharge

**Timepoint**

before intervention and 7 days after intervention

**Method of measurement**

4-point likert-type scale

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

Improve Of Vulvovaginal Candidiasis

**Timepoint**

before intervention and 7 days after intervention

**Method of measurement**

Microscopic evaluation

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

one clotrimazole 100 mg vaginal Tablet every night for 7 nights.

**Category**

Treatment - Drugs

**2****Description**

one 2% dill (Anethum graveolens L.) vaginal suppositories every night for 7 nights

**Category**

Treatment - Drugs

**Recruitment centers**

1

#### Recruitment center

**Name of recruitment center**

Gynecology Clinic of Emam Reza Hospital

**Full name of responsible person**

**Street address**

**City**

Mashhad

#### Sponsors / Funding sources

1

#### Sponsor

**Name of organization / entity**

Mashhad University of Medical Sciences, Vice  
chancellor for research

**Full name of responsible person**

Mohsen Tafaghodi

**Street address**

Ghoreishi building, Daneshgah street, Khorasan  
Razavi , Mashhad, Islamic Republic Of Iran

**City**

Mashhad

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Mashhad University of Medical Sciences, Vice chancellor  
for research

**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**

Mashhad University of Medical Sciences

**Full name of responsible person**

Mohsen Tafaghodi

**Position**

Vice chancellor for research

**Other areas of specialty/work**

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#### Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

Mashhad University of Medical Science

**Full name of responsible person**

Masumeh Ghazanfarpour

**Position**

Phd student in Reproductive Health

**Other areas of specialty/work**

**Street address**

Department of Midwifery, School of Nursing and  
Midwifery, Mashhad University of Medical Sciences,  
Ebn-e Sina St., Mashhad, Iran

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#### Person responsible for updating data

#### Contact

**Name of organization / entity**

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**Full name of responsible person**

Masumeh Ghazanfarpour

**Position**

Phd Student in Reproductive Health

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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*