

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparison of empagliflozin and dapagliflozin in the incidence of urinary tract infection in women with diabetes

#### Protocol summary

##### Study aim

To compare the incidence of urinary tract infections in women with diabetes treated with empagliflozin or dapagliflozin, in order to determine which drug has a better safety profile in this regard.

##### Design

Clinical trial with two parallel groups treated with diabetes drugs dapagliflozin and empagliflozin on 84 patients; randomized, double-blind study, analyzed using SPSS or SAS statistical software.

##### Settings and conduct

Convenience sampling will be used. Women with diabetes who refer to Imam Reza Hospital in Tehran will be identified and placed in study groups. Participants will be randomly divided into two groups treated for diabetes with dapagliflozin and empagliflozin. The study is a double-blind, randomized study, and patients and investigators will not be informed of the research.

##### Participants/Inclusion and exclusion criteria

Statistical population: Women with diabetes. Selection criteria: Women with diabetes (type 1 or 2). Agreement to participate in the study and take the study medications. No physical or psychological barriers to active participation in the study. Women over 18 years of age; Exclusion criteria: intolerance or negative reaction to the study medications; serious side effects from the medications; pregnancy.

##### Intervention groups

Women with diabetes will be divided into two groups. Participants will be prescribed the study drug (empagliflozin and dapagliflozin); periodic follow-ups will be conducted (after three months) to assess the effect of the drugs on the rate of urinary tract infections.

##### Main outcome variables

Incidence of confirmed urinary tract infection (UTI) in diabetic women treated with empagliflozin compared with dapagliflozin

#### General information

##### Reason for update

##### Acronym

TDS

##### IRCT registration information

IRCT registration number: **IRCT20250129064554N1**

Registration date: **2025-04-15, 1404/01/26**

Registration timing: **registered\_while\_recruiting**

Last update: **2025-04-15, 1404/01/26**

Update count: **0**

##### Registration date

2025-04-15, 1404/01/26

##### Registrant information

##### Name

sara kazm nadi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 4420 6090

##### Email address

saranadi1402@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2024-10-11, 1403/07/20

##### Expected recruitment end date

2025-06-26, 1404/04/05

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

## Scientific title

Comparison of empagliflozin and dapagliflozin in the incidence of urinary tract infection in women with diabetes

## Public title

Comparison of two drugs, empagliflozin and dapagliflozin, in the development of urinary tract infections in women with high blood sugar

## Purpose

Prevention

## Inclusion/Exclusion criteria

### Inclusion criteria:

Women with diabetes (type 1 or 2) Women over 18 years of age No physical or psychological barriers to active participation in the study. Consent to participate in the study and take the study medication.

### Exclusion criteria:

Intolerance or adverse reaction to the study drugs. Having serious side effects from the drugs. Being pregnant

## Age

From **18 years** old

## Gender

Female

## Phase

4

## Groups that have been masked

- Participant
- Care provider
- Data analyser

## Sample size

Target sample size: **84**

More than 1 sample in each individual

Number of samples in each individual: **2**

Necessary tests are performed to measure the variables under investigation. This includes urine test results to assess the level of urinary tract infection before and after receiving the medication.

## Randomization (investigator's opinion)

Randomized

## Randomization description

Participants are randomly assigned to different groups. For this purpose, patients referring to the treatment center are divided into two groups without knowledge: those treated for diabetes with the drug dapagliflozin and those treated with the drug empagliflozin. In order to be more confident in deducing the results of the randomized double-blind study, patients and investigators (those who perform the urine infection test, complications, and effectiveness of the drugs) are not informed of the research.

## Blinding (investigator's opinion)

Double blinded

## Blinding description

In order to be more confident in drawing conclusions from the results of a randomized double-blind study, patients and investigators (those who test for urinary tract infections, complications, and the effectiveness of medications) are not informed of the research.

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Islamic Republic of Iran Army University of Medical Sciences

##### Street address

AJA university of medical sciences, Etemad zadeh street, Fatemi Gharbi street

##### City

Tehran

##### Province

Tehran

##### Postal code

۱۴۱۱۷۱۸۵۴۱

#### Approval date

2024-10-02, 1403/07/11

#### Ethics committee reference number

IR.AJAUMS.REC.1403.153

## Health conditions studied

### 1

#### Description of health condition studied

Urinary tract infection

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

Percentage of people who get urinary tract infections.

#### Timepoint

Three months after taking the drug

#### Method of measurement

Urinalysis and urine culture test

## Secondary outcomes

### 1

#### Description

Percentage of people who experience drug side effects.

#### Timepoint

Three months after taking the medication

#### Method of measurement

Urinalysis and urine culture

## 2

### Description

Percentage of people whose blood sugar is controlled with the study drugs.

### Timepoint

Three months after taking the medication

### Method of measurement

Urinalysis and urine culture

## Intervention groups

### 1

#### Description

Intervention group:Empagliflozin.

#### Category

Prevention

### 2

#### Description

Intervention group:Dapagliflozin.

#### Category

Prevention

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Reza Hospital (AS) 501 Aja

##### Full name of responsible person

Sara kazemnadi

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AJA university of medical sciences, Etemad zadeh street, Fatemi Gharbi street

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##### Web page address

<https://imamreza.ajaums.ac.ir/>

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Artesh University of Medical Sciences

##### Full name of responsible person

Reza Mosaed

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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

Artesh University of Medical Sciences

#### Proportion provided by this source

5

#### 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

Artesh University of Medical Sciences

##### Full name of responsible person

Sarah Keshkari

##### Position

Assistant Professor, Army University of Medical Sciences

##### Latest degree

Subspecialist

##### Other areas of specialty/work

Internal Medicine

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## Person responsible for scientific inquiries

**Contact**

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Artesh University of Medical Sciences

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Assistant Professor, Army University of Medical Sciences

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## Person responsible for updating data

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Artesh University of Medical Sciences

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Sarah Kazem Nadi

**Position**

Internal Medicine Resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

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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