Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Comparative bioequivalence study of the extended release tamsulosin hydrochloride 0.4 mg/ Immediate release solifenacin 6 mg, tablet manufactured by Anousha Pharmaceutical Company VS. Vesomni® tablet manufactured by Astellas

Protocol summary

Study aim
Examining the bioequivalency of domestically produced Tamsulosin hydrochloride / Solifenacin tablet formulations with brand Vesomni®

Design
A cross over, not blinded, randomized, bioequivalence clinical trial on 24 healthy volunteers.

Settings and conduct
Study place: Drug Applied Research Center affiliated to Tabriz University of Medical Science. The number of 24 volunteers in the age range of 18-50 years and the Body Mass Index range of 18-30, who are voluntarily selected through public notification. One tablet is taken fasting and blood is taken at 17 time points. three weeks later, the process is repeated for the brand medicine

Participants/Inclusion and exclusion criteria
The weight range of 60-100 kg; being a non-smoker; being healthy in terms of physical examination, ECG, and the laboratory tests; and Volunteers who have agreed to an informed consent form. Exclusion criteria: History of allergic or adverse reaction to Tamsulosin hydrochloride / Solifenacin or any similar product; blood pressure less than 60/90 mm Hg or higher than 90/140 mm Hg; Individuals who have donated whole blood during the previous 2 months of the study or donated blood components within 2 weeks before taking the first dose of the drug.

Intervention groups
Intervention group 1: Tamsulosin hydrochloride 0.4mg/ Solifenacin 6mg tablet manufactured by Anousha Pharmaceutical Company is the test product.
Intervention group 2: Vesomni® Tablets manufactured by Astellas company is the reference product. In each period, 12 of 24 subjects will be given single dose of this product and for up to 72 hours, 3 ml of blood will be collected from the volunteer at 17 time points each time. After the washout period, the volunteers are placed in the opposite group

Main outcome variables
Plasma concentration of the drug

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20130313012810N83**
Registration date: **2026-04-29, 1405/02/09**
Registration timing: **prospective**

Last update: **2026-04-29, 1405/02/09**
Update count: **0**

Registration date
2026-04-29, 1405/02/09

Registrant information

Name
Hamed Hamishehkar

Name of organization / entity
Drug Applied Research Center, Tabriz University of Medical Sciences

Country
Iran (Islamic Republic of)

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+98 41 1336 3311

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date

2026-05-10, 1405/02/20

Expected recruitment end date

2026-05-16, 1405/02/26

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative bioequivalence study of the extended release tamsulosin hydrochloride 0.4 mg/ Immediate release solifenacin 6 mg, tablet manufactured by Anousha Pharmaceutical Company VS. Vesomni® tablet manufactured by Astellas

Public title

tamsulosin hydrochloride / solifenacin tablet Bioequivalence

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

The weight range of participating candidates should be between 60-100 kg. All candidates must be non-smokers. Candidates should be healthy in terms of physical examination, ECG and the following laboratory tests: Hemoglobin, Hematocrit, Red and White Blood Count, MCV (Mean Body Volume), MCH (Mean Body Hemoglobin), Routine Urinalysis, Total Cholesterol, Triglyceride, Total Proteins, albumin, uric acid, total bilirubin, alkaline phosphatase, gamma glutamyl transpeptidase (γ-GT), aspartate aminotransferase (AST), alanine aminotransferase (ALT), urea, creatinine and fasting blood glucose. Volunteers who have agreed to an informed consent form. All candidates should not consume caffeine-containing drinks and chocolate during two days before the prescription, and this restriction must be followed until the last blood draw.

Exclusion criteria:

History of allergic or adverse reaction to tamsulosin hydrochloride / solifenacin or any similar product Volunteers with blood pressure less than 60/90 mm Hg or higher than 90/140 mm Hg Individuals who have donated whole blood during the last 2 months from the study Individuals who have donated blood components within 2 weeks before taking the first dose of the drug.

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

Bioequivalence

Groups that have been masked

No information

Sample size

Target sample size: **24**

Randomization (investigator's opinion)

Randomized

Randomization description

To randomly assign people in two groups, 24 cards with numbers 1 to 24 will be used in closed envelopes arranged irregularly. Each candidate will pick up an envelope after entering the study, and numbers 1-12 will be in group A and numbers 13-24 will be in group B. Group A will receive intervention 1, and group B will receive intervention 2, and after the first period, the interventions of both groups will change for the second period.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, Daneshgah Street, Tabriz

City

Tabriz

Province

East Azarbaijan

Postal code

5165665811

Approval date

2026-04-13, 1405/01/24

Ethics committee reference number

IR.TBZMED.REC.1405.022

Health conditions studied

1

Description of health condition studied

Bioequivalence study in healthy volunteers

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Plasma concentration of the drug

Timepoint

16 sampling time included pre-dose (time 0) and at the following hours post-dose: 1، 2، 3، 3.5، 4، 4.5، 5، 5.5، 6، 6.5، 7، 8، 12، 24، 48 and 72 hours after drug

administration

Method of measurement

Liquid Chromatography with tandem mass spectrometry (LC-MS-MS)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: In this group, volunteers are given a single oral dose of Tamsulosin hydrochloride 0.4mg/ Solifenacin 6mg tablets manufactured by Anousha Pharmaceutical Company. In each period, 12 of 24 subjects will be given a single oral dose of this product. After the washout period, the volunteers are placed in the Intervention group 2.

Category

Treatment - Drugs

2

Description

Intervention group 2: In this group, volunteers are given a single oral dose of Tamsulosin hydrochloride 0.4mg/ Solifenacin 6mg tablets manufactured by Astellas Company. In each period, 12 of 24 subjects will be given a single oral dose of this product. After the washout period, the volunteers are placed in the Intervention group 1.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Drug Applied Research Center, Tabriz University of Medical Sciences

Full name of responsible person

Hamed Hamishehkar

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Drug Applied Research Center, Tabriz University of Medical Sciences, Daneshgah Street, Tabriz

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Anosha pharmaceutical Company

Full name of responsible person

Nazanin Nami Moghaddam

Street address

Tasnim Building, No. 3, 14th East Street, Beyhaghi Street, Argentina Square, Tehran

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Tehran

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Tehran

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1515667911

Phone

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Email

info@tasnimpharma.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Anosha pharmaceutical Company

Proportion provided by this source

100

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Industry

Person responsible for general inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Hamed Hamishehkar

Position

Professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

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Person responsible for scientific inquiries

Contact

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Professor

Latest degree
Ph.D.

Other areas of specialty/work
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Position
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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