Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Nov 2026

In-vivo bioequivalence study of Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical company in compared with the reference drug Namzaric 10-28 mg capsule

Protocol summary

Study aim

In-vivo bioequivalence study of Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical company in compared with the reference drug Namzaric 10-28 mg capsule

Design

Bioequivalence study, Cross-over design, Single dose, Single-blinded, 24 healthy volunteers, Two period, four week wash out period, Simple randomization method will be used.

Settings and conduct

This single-blind, two-period crossover study was conducted on two groups of healthy volunteers at Radin Shimi Company in Tabriz. Each period lasted 144hours, with a four -week washout interval between them. In the first period, based on computer-generated randomization, Group 1 received the reference drug while Group 2 received the test drug. In the second period, the treatments were switched. The study was single-blinded, meaning that participants were unaware whether they received the test or reference drug during either sampling period.

Participants/Inclusion and exclusion criteria

Inclusion criteria: No history of heart, kidney & liver disease. The ages and BMIs of participant should be in the range of 18-55 and 18-30 respectively. Exclusion criteria: Smoking, Alcohol and drug addiction, History of allergy to drug, Pregnancy.

Intervention groups

ntervention group one receives Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical company in the first round, and in the second round, after four-week washout period, the drug Vocinti 20 mg . Intervention group No.2 receives the drugs in the switched order.

Main outcome variables

The concentration of the drug in blood, Time to reach maximum blood concentration, Extent of absorption

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20240804062647N35**
Registration date: **2026-05-23, 1405/03/02**
Registration timing: **prospective**

Last update: **2026-05-23, 1405/03/02**
Update count: **0**

Registration date

2026-05-23, 1405/03/02

Registrant information

Name

Massoud Amanlou

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 6695 9067

Email address

amanlou@tums.ac.ir

Recruitment status

recruiting

Funding source

Expected recruitment start date

2026-06-20, 1405/03/30

Expected recruitment end date

2027-06-20, 1406/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

In-vivo bioequivalence study of Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical company in compared with the reference drug Namzaric 10-28 mg capsule

Public title

In-vivo bioequivalence study of Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

General health (liver, heart, kidney) of volunteers Informed consent form Body mass index range (18-30) Age between18-55

Exclusion criteria:

Smoking Having a history of cardiovascular disease Having a history of liver & kidney disease Having a Alcohol & Drug addiction Having a hypersensitivity to the drug Pregnancy

Age

From **18 years** old to **55 years** old

Gender

Both

Phase

Bioequivalence

Groups that have been masked

No information

Sample size

Target sample size: **24**

More than 1 sample in each individual

Number of samples in each individual: **42**

Blood sample

Randomization (investigator's opinion)

Randomized

Randomization description

At first, all of the volunteers are evaluated for meeting inclusion criteria, selecting the final participants. Each volunteer is randomly assigned to a number between 1 and 24 using simple randomization, receiving an identification card containing the assigned number. Next, at first study period, volunteers with even numbers will receive the reference drug and volunteers with odd numbers will receive the test drug. In the second period, the formulations are switched in a cross-over design. The formulation assignment to the subjects is done randomly, with the participants and the trial staff not aware the formulation administered, thus, providing the blinding situation for all stages of the study.

Blinding (investigator's opinion)

Single blinded

Blinding description

This study is a single-blind (participant) clinical trial Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical company and the original brand are removed from their packaging by the operator and placed in identical, coded cans. Volunteers are unaware of the type of drug or test they are receiving.

Placebo

Not used

Assignment

Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tabriz University of Medical Sciences ethics committe

Street address

International Relations Office, No 2 Central Building, Tabriz University of Medical Sciences, Golgasht Street,

City

Tabriz

Province

East Azarbaijan

Postal code

5174864471

Approval date

2026-05-11, 1405/02/21

Ethics committee reference number

IR.TBZMED.REC.1405.098

Health conditions studied

1

Description of health condition studied

This study is performed on healthy volunteers.

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The concentration of the drug in blood

Timepoint

0,1, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 48, 72, 144, 192, 240 h after drug

Method of measurement

Liquid Chromatography with Mass-Mass Detector

Secondary outcomes

1

Description
Time to reach maximum blood concentration
Timepoint
After intervention
Method of measurement
The time to reach the maximum drug concentration in blood is recorded. This is done after completing the device analysis of the samples and through the WinNonLine software developed by Phoenix Company.

2

Description
Extent of absorption
Timepoint
After intervention
Method of measurement
Calculation of area under curve of concentration -time

Intervention groups

1

Description
Intervention group: single dose of Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical company , in the first period. Cross-over design with four week wash out period.After four week in the second period, a single dose of Namzaric 28-10 mg
Category
Treatment - Drugs

2

Description
Intervention group: Single-dose of Namzaric 28-10 mg , in the first period. Cross-over design with four week wash out period.After four week in the second period, a single dose of Donepezil 10 mg - Memantine 28 mg capsule of the test drug manufactured by Actoverco pharmacutical company
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Radin laboratory
Full name of responsible person
Bahram Ataii
Street address
No.22, first floor, Moalem st., Abureihan St
City
Tabriz
Province
East Azarbaijan
Postal code
5154995671
Phone
+98 914 311 5717
Email
ataii.bahram@gmail.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Actoverco Pharmaceutical Company
Full name of responsible person
Reza Karimi Mostofi
Street address
No58,Eighth ST,Nasr Alley,Tehran
City
Tehran
Province
Tehran
Postal code
1998678111
Phone
+98 21 4163 7000
Email
INFO@ACTOVERCO.COM
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Actoverco 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
Other

Person responsible for general inquiries

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Massoud Amanlou
Position
Academic staff and full-time professor of the Faculty of Pharmacy
Latest degree
Ph.D.
Other areas of specialty/work
Medical Pharmacy
Street address
16 Azar Ave, Faculty of Pharmacy

City
Tehran
Province
Tehran
Postal code
1417614411
Phone
+98 21 6695 9067
Fax
Email
amanlou@tums.ac.ir

Person responsible for scientific inquiries

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Massoud Amanlou
Position
Academic staff and full-time professor of the Faculty of Pharmacy
Latest degree
Ph.D.
Other areas of specialty/work
Medical Pharmacy
Street address
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City
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Province
Tehran
Postal code
1417614411
Phone
+98 21 6695 9067
Fax
Email
amanlou@tums.ac.ir

Person responsible for updating data

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Massoud Amanlou
Position
Academic staff and full-time professor of the Faculty of Pharmacy
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Postal code
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Phone
+98 21 6695 9067
Fax
Email
amanlou@tums.ac.ir

Sharing plan

Deidentified Individual Participant Data Set (IPD)
No - There is not a plan to make this available
Justification/reason for indecision/not sharing IPD
These data are as secure between researchers and related industries.
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