

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jul 2026

A study to compare the relative bioavailability of Jaber and Novartis formulations of valsartan 160 mg tablets in 24 healthy adult volunteers under fasting conditions

Protocol summary

Study aim

Bioequivalence evaluation of two formulations of valsartan 160 mg tablets in healthy subjects under fasting conditions

Design

This randomized, single-dose, two-way, crossover study is conducted to compare the pharmacokinetics of Valsartan and Diovan® tablets in 24 healthy adult volunteers. Volunteers will be sorted and receive a number from 1 to 24. In the first phase of the study, 12 volunteers will receive Valsartan manufactured by Jaber and the remaining 12 volunteers will receive Diovan® produced by Novartis company. The administered drugs will be replaced to another group in the second phase of the study.

Settings and conduct

The dose administration and subsequent sample collection will be performed in Motahhari hospital (Gonbade Kavous, Iran).

Participants/Inclusion and exclusion criteria

Inclusion criteria: aged 18-55 years old; subject available for the entire study period; willingness to adhere to protocol requirements as evidenced by written informed consent; good health at screening. Exclusion criteria: History of use of any drug; hypersensitivity or intolerance; significant history or current evidence of chronic disease; receipt of any drug as part of a research study within 30 days prior to the present study.

Intervention groups

First intervention group: A single 160 mg oral dose of valsartan (1 tablet) manufactured by Jaberh company to 12 subjects. Second intervention group: A single 160 mg oral dose of Diovan (1 tablet) manufactured by Novartis company to 12 subjects. Since in this study, the volunteers will receive both test and reference drugs, each volunteer will act as his own control.

Main outcome variables

Drug plasma concentration; Area under the plasma concentration-time curve

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20130626013776N112**

Registration date: **2023-09-15, 1402/06/24**

Registration timing: **prospective**

Last update: **2023-09-15, 1402/06/24**

Update count: **0**

Registration date

2023-09-15, 1402/06/24

Registrant information

Name

Hossein Amini

Name of organization / entity

Golestan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-10-23, 1402/08/01

Expected recruitment end date

2024-10-22, 1403/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A study to compare the relative bioavailability of Jaber and Novartis formulations of valsartan 160 mg tablets in 24 healthy adult volunteers under fasting conditions

Public title

Bioequivalence study of valsartan 160 mg tablets

Purpose

Basic science

Inclusion/Exclusion criteria**Inclusion criteria:**

18-55 years of age The subject is able and willing to provide signed informed consent Willing to adhere to protocol requirements as evidenced by written informed consent The subject has a stable residence and telephone Good health as determined by lack of clinically significant abnormalities in health assessments performed at screening

Exclusion criteria:

History of allergy or sensitivity to valsartan History of any drug hypersensitivity or intolerance which, in the opinion of the investigator, would compromise the safety of the subject of the study Significant history or current evidence of chronic infectious disease, system disorder or organ dysfunction Presence of gastrointestinal disease or history of malabsorption within the last year History of a medical disorders occurring within the last year that required hospitalization or medication Use of pharmacologic agents known to significantly induce or inhibit drug-metabolizing enzymes within 30 days prior to dosing Receipt of any drug as part of a research study within 30 days prior to the present study Donation or significant loss of whole blood (480 ml or more) within 30 days prior to the present study

Age

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

Gender

Male

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: **2**

In a crossover design, each person is its own control and receives two different interventions

Randomization (investigator's opinion)

Randomized

Randomization description

A pot randomization method will be used in this study. 12 papers are labeled "Reference Product" and 12 papers are written as "Test Product". The papers are then placed in sealed envelopes, and participants randomly select a paper and will be placed in the Reference or Test groups.

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 Golestan University of Medical Sciences

Street address

Falsafi Building, Sari Road Km 2

City

Gorgan

Province

Golestan

Postal code

4934174515

Approval date

2023-08-22, 1402/05/31

Ethics committee reference number

IR.GOUMS.REC.1402.190

Health conditions studied**1****Description of health condition studied****ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

Maximum drug plasma concentration

Timepoint

At time zero and 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12 and 24 h after drug administration

Method of measurement

Blood sampling and measurement of drug concentrations by high-performance liquid chromatography

2**Description**

Area under plasma concentration-time curve

Timepoint

At time zero and 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12

and 24 h after drug administration

Method of measurement

Blood sampling and measurement of drug concentrations by high-performance liquid chromatography

Secondary outcomes

1

Description

Time to reach the maximum plasma concentration

Timepoint

At time zero and 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12 and 24 h after drug administration
Method of measurement فا نمونه گير measurement

Method of measurement

Time to reach the maximum plasma concentration is used

2

Description

Plasma half-life

Timepoint

From the terminal 16 hours of plasma concentration-time profile

Method of measurement

Blood sampling and drug analysis by high-performance liquid chromatography method

Intervention groups

1

Description

Intervention group: Oral administration of a single 160 mg dose of valsartan (1 tablet) manufactured by Jaber to healthy volunteers under fasting condition in the morning of the experiment day

Category

Treatment - Drugs

2

Description

Intervention group: Oral administration of a single 160 mg dose of Diovan (1 tablet) manufactured by Novartis to healthy volunteers under fasting condition in the morning of the experiment day

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Dialysis Center, S. Motahhari Hospital

Full name of responsible person

Yahya Naserifard

Street address

Taleghani Street

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Golestan

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Jaber Pharmaceuticals

Full name of responsible person

Mehdi Bakhshayesh

Street address

Km 4 Karaj road

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Tehran

Province

Isfahan

Postal code

13185-1739

Phone

+98 21 4450 3323

Fax

+98 21 4450 3530

Email

headoffice@jaber-pharma.com

Web page address

<http://jaber-pharma.com/home>

Grant name

Bioequivalence Study of Valsartan

Grant code / Reference number

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

Yes

Title of funding source

Jaber Pharmaceuticals

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

Gorgan University of Medical Sciences

Full name of responsible person

Hossein Amini

Position

Assistant Prof of Pharmacology dept, Ph.D

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

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Position

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Other areas of specialty/work

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Phone

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

There is not 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