Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

In- Vivo Bioequivalence study of Ibuprofen tablet 800 mg Mofid Pharma (DRASTIFEN® ER. 800 mgTab, Mofid Pharma, Iran) with brand drugs (BRUFEN® ER. 800 mg Tab, Mylan, Germany) in Iranian healthy volunteers.

Protocol summary

Study aim

In- Vivo Bioequivalence study of Ibuprofen tablet 800 mg Mofid Pharma (DRASTIFEN® ER. 800 mgTab, Mofid Pharma, Iran) with brand drugs (BRUFEN® ER. 800 mg Tab, Mylan, Germany) in Iranian healthy volunteers.

Design

In-vivo bioequivalence study of Ibuprofen tablet 800 mg Mofid Pharma in comparison with reference drug (BRUFEN® ER. 800 mg Tab, Mylan, Germany). The single blind, Cross-over, two period, two groups (Intervention and control) and randomized (paper lottery randomization method) study with one week wash-out time.

Settings and conduct

This study is carried out in Simin Baspar Tayf-Gostar Company, Tabriz, Iran. The study population is 24 healthy Iranian volunteers.This study is a single blind study and by taking out the drugs from the existing packaging, the volunteers will not know the time of receiving the test drug and the brand. This study is a cross over study that is performed in two time periods of 72 hours with a two-week wash-out period.

Participants/Inclusion and exclusion criteria

Inclusion criteria: age between 18-60 years old; body mass index (BMI) in the range of 18-28. Exclusion criteria: history of heart, kidney and liver disease; pregnancy; drug addiction.

Intervention groups

Single dose Ibuprofen tablet 800 mg Mofid Pharma. Control group: Single dose BRUFEN® ER. 800 mg Tab, Mylan, Germany

Main outcome variables

Plasma drug concentration

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200105046010N67**
Registration date: **2022-09-04, 1401/06/13**
Registration timing: **registered_while_recruiting**

Last update: **2022-09-04, 1401/06/13**
Update count: **0**

Registration date

2022-09-04, 1401/06/13

Registrant information

Name

Javad Shokri

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 41 3661 4125

Email address

shokri.j@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-09-04, 1401/06/13

Expected recruitment end date

2023-05-05, 1402/02/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title
In- Vivo Bioequivalence study of Ibuprofen tablet 800 mg Mofid Pharma (DRASTIFEN® ER. 800 mgTab, Mofid Pharma, Iran) with brand drugs (BRUFEN® ER. 800 mg Tab, Mylan, Germany) in Iranian healthy volunteers.

Public title
In-vivo Bioequivalence Test of Ibuprofen tablet 800 mg Mofid Pharma with brand drug (BRUFEN® ER. 800 mg Tab, Mylan, Germany)

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
General health Body mass index between18-28 Informed consent Being at the age of 18-55 years old

Exclusion criteria:
Smoking A history of cardiovascular disease A history of liver & kidney disease Pregnancy Alcohol & Drug addiction Hypersensitivity to the drug

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

Gender
Both

Phase
Bioequivalence

Groups that have been masked

- Participant

Sample size
Target sample size: **24**

Randomization (investigator's opinion)
Randomized

Randomization description
For this purpose, A 24- persons group will be selected and divided to two 12-persons groups randomly. The names of all volunteers will be written on paper pieces and wrapped in aluminum foils. The first 12 papers will randomly be withdrawn from bottle will be selected as group A and others will be categorized in group B.

Blinding (investigator's opinion)
Single blinded

Blinding description
Candidates are not aware of receiving the test drug or brand one. In a single study, information that could distort the test result is hidden from the candidates, but the person in charge of the test is aware of it. Test and Brand drugs are removed from their packaging by the executor and placed in similar and coded cans. Volunteers will not be informed about receiving the brand or test drug.

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
Third floor; Central building; Tabriz University of Medical Sciences; Dneshgah St.

City
Tabriz

Province
East Azarbaijan

Postal code
5166614766

Approval date
2022-07-11, 1401/04/20

Ethics committee reference number
IR.TBZMED.REC.1401.326

Health conditions studied

1

Description of health condition studied
Bio equivalence test

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description
Plasma drug concentration

Timepoint
Sampling times in this study will be 0، 0.5، 1، 1.5، 2، 2.5، 3، 3.5، 4، 4.5، 5، 6، 10 .8، 12 , 24 hours after prescribing the tablet.

Method of measurement
High Performance Liquid Chromatography with tandem mass spectroscopy detector

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: One test tablet (Ibuprofen tablet 800 mg Mofid Pharma) will be received. Blood samples will be taken for 48 hours at the mentioned times after drug administration and the concentration of the drug in Plasma samples will be measured by liquid chromatography with mass spectroscopy detector

Category
Treatment - Other

2

Description
Control group: One Reference tablet BRUFEN® ER. 800 mg Tab, Mylan, Germany will be received. Blood samples will be taken for 24 hours at the mentioned times after drug administration and the concentration of drug in plasma samples will be measured by liquid chromatography with mass spectroscopy detector.
Category
Treatment - Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Simin Baspar Teyf Gostar Company
Full name of responsible person
Javad Shokri
Street address
No.48, Ferdos square
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Teb Mofid Nikan Pharmaceutical Co.
Full name of responsible person
Mohammad Reza Zargarzadeh
Street address
Tehran Shahid Beheshti Street Ahmad Qusayr Street, Pazhouheshgah(2) alley, fifth floor
City
Tehran
Province
Tehran
Postal code
3361658369
Phone
+98 21 8817 5119
Email
info@mofidpharma.com
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Teb Mofid Nikan Pharmaceutical Co.
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
Persons

Person responsible for general inquiries

Contact
Name of organization / entity
Simin Baspar Teyf Gostar Company
Full name of responsible person
Dariush Omidfar
Position
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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
All information and data of the study will remain secured based on the agreement established between researcher and drug producer.
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
Undecided - It is not yet known if there will be a plan to make this available