

The bioavailability of itopride hydrochloride extended release versus itopride hydrochloride immediate release

Submission date 03/09/2009	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 03/11/2009	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 03/11/2009	Condition category Digestive System	<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Protocol serial number

KORE-08-02

Study information

Scientific Title

A comparison of bioavailability of itopride hydrochloride extended release (once daily) with that of itopride hydrochloride immediate release (three times daily): a randomised, open-label, three treatment, three sequence crossover study

Study objectives

The objective of this study is to assess the bioavailability of a test formulation of itopride hydrochloride 150 mg extended release (ER) tablets (once daily for 4 days) given under fasting and fed conditions relative to itopride hydrochloride 50 mg immediate release (IR) tablets given three times daily for 4 days, in healthy human adult male subjects.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Seoul National University College of Medicine/Seoul National University Hospital Institutional Review Board approved on the 25th February 2009

Study design

Randomised open-label three-sequence three-period single centre crossover study

Primary study design

Interventional

Study type(s)

Quality of life

Health condition(s) or problem(s) studied

Gastrointestinal motility

Interventions

1. Study drug: itopride HCl, 150 mg, 3 times a day for 6 days, per oral
 2. Comparator: itopride HCl, 50 mg, 3 times a day for 6 days, per oral
- Total duration of treatment: 21 days (7 days per each regimen)

Regimen A: Administration of itopride HCl 150 mg ER tablet every 24 hours under fasting conditions for 4 days (test)

Regimen B: Administration of itopride HCl 150 mg ER tablet every 24 hours under fed condition for 4 days (test)

Regimen C: Administration of itopride HCl 50 mg IR tablet administration for 4 days, 30 minutes before meals (reference). Meals will be provided at approximately 9am, 2pm and 7pm.

Total duration of follow-up: 30 days (window period: +6 days)

Contact Details of Principal Investigator:

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South Korea

Intervention Type

Drug

Phase

Phase I

Drug/device/biological/vaccine name(s)

Itopride hydrochloride

Primary outcome(s)

Assess the rate and extent of absorption of itopride from itopride ER tablets under fasting and fed conditions compared to that of itopride IR tablets based on pharmacokinetic parameters.
Timepoint: study day 4 of each period.

Key secondary outcome(s)

Observe the safety of the formulations based on clinical and laboratory examinations during the study. Timepoint: at screening day, day -1 of study period 2, day 5 of study period 3.

Completion date

10/07/2009

Eligibility

Key inclusion criteria

1. Korean males aged between 22 and 55 years, inclusive (at time of informed consent)
2. Body mass index (BMI) 18 to 27 kg/m², inclusive. BMI is calculated as weight (kg) divided by the square of height (m).
3. A condition of general good health, based upon the results of a medical history, physical examination, vital signs, laboratory profile, and a 12-lead electrocardiogram (ECG)
4. Subjects who have given their written informed consent prior to participation in the study
5. Availability of subject for the entire study period, ability to understand and communicate with the investigators and staff, and willingness to adhere to protocol requirements including all the restrictions

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Upper age limit

55 years

Sex

Male

Key exclusion criteria

1. History or clinical evidence of significant respiratory, cardiovascular, pulmonary, hepatic, renal, hematological, gastrointestinal, endocrine, immunologic, dermatological, musculoskeletal, neurological or psychiatric disease
2. Alcohol dependence, alcohol abuse or drug abuse within the past one year
3. Moderate to heavy smoking (greater than 10 cigarettes/day)
4. Body weight is less than 50 kg
5. Subject who had clinically significant illness within 4 weeks before the start of the study
6. Present or previous significant drug allergy to any prescription or over-the-counter medication
7. Subjects who test positive in serological tests and drug tests (serological tests for hepatitis B surface [HBs] antigen, hepatitis C virus [HCV] antibody, and human immunodeficiency virus [HIV] antibody, and screening for drug abuse)
8. Any history of hypersensitivity to itopride and contraindications like gastrointestinal haemorrhage, mechanical obstruction or perforation
9. Subjects with active or a history of peptic ulceration
10. Subjects with any other clinical condition, which might affect the absorption, distribution, biotransformation or excretion of the study drug
11. Subject who has participated in any other clinical trial involving drug administration and collection of blood samples or has donated blood (or had bled more than 400 ml) in the preceding 12 weeks period of the study
12. Any prescription drug, over-the-counter medication, or herbal medications within 14 days prior to scheduled study drug administration
13. Consumption of alcohol within the 1-day period prior to study drug administration
14. Subjects who show the following vital signs results
 - 14.1. Systolic blood pressure less than or equal to 90 mmHg or greater than or equal to 150 mmHg
 - 14.2. Diastolic blood pressure less than or equal to 60 mmHg or greater than or equal to 100 mmHg
15. Subjects who have pulse rate below 50/minute or above 100/minute
16. Previous enrolment in this study
17. Otherwise judged by the investigator to be inappropriate for inclusion in the study

Date of first enrolment

10/03/2009

Date of final enrolment

10/07/2009

Locations**Countries of recruitment**

Korea, South

Study participating centre
Abbott Korea Limited
Seoul
Korea, South
135-735

Sponsor information

Organisation
Abbott Korea Limited (South Korea)

ROR
<https://ror.org/053evkn98>

Funder(s)

Funder type
Industry

Funder Name
Abbott Korea Limited (South Korea)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes