

A randomised, single dose, crossover, open label, placebo controlled confirmatory study in healthy volunteers to characterise the acid neutralisation activity of Gaviscon Double Action Liquid in the fasted state, using an intragastric and oesophageal pH catheter.

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The primary objective of this confirmatory study is to confirm the acid neutralisation action of Gaviscon Double Action Liquid versus placebo liquid, within the stomach.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Other condition
Study type	Interventional

Summary

ID

NL-OMON44533

Source

ToetsingOnline

Brief title

RB2-NL-1518 (CS0254)

Acid neutralisation confirmatory pH monitoring study

Condition

- Other condition
- Gastrointestinal disorders

Synonym

1 - A randomised, single dose, crossover, open label, placebo controlled confirmator ... 13-05-2025

gastric acid reflux, Healthy volunteers, heartburn

Health condition

GORD

Research involving

Human

Sponsors and support

Primary sponsor: Reckitt Benckiser Healthcare (UK) Ltd

Source(s) of monetary or material Support: Reckitt Benckiser Healthcare (UK) LTD

Intervention

Keyword: Acid neutralisation, Healthy volunteers, Placebo-controlled, Randomised

Outcome measures

Primary outcome

The primary endpoint will be the mean percentage of time that pH \leq 4 over 0-30 minutes post-dose across electrodes 5 to 10. The primary analysis will be the comparison of this endpoint between Gaviscon Double Action Liquid and placebo liquid.

Secondary outcome

The secondary endpoints are:

- * The mean percentage of time that pH \leq 4 over the interval 30-60 minutes post-dose across electrodes 5 to 10.
- * The mean percentage of time that pH \leq 3 over the intervals 0-30 minutes and 30-60 minutes post-dose across electrodes 5 to 10.
- * The mean percentage of time that pH \leq 3 and pH \leq 4 over the 10 minute intervals post-dose across electrodes 5 to 10.
- * The percentage of time that pH \leq 3 and pH \leq 4 over the 10 minute and 30

minute intervals at each electrode.

These endpoints will be compared between Gaviscon Double Action Liquid and placebo.

The following will be displayed non-comparatively:

* The pH value measured every 4 seconds during each monitoring period at each electrode.

Study description

Background summary

This confirmatory mode of action study is being conducted to characterise the acid neutralisation activity of Gaviscon Double Action Liquid by comparing antacid action with a liquid placebo. Data from this study will be used to support claims for Gaviscon Double Action formulations.

Study objective

The primary objective of this confirmatory study is to confirm the acid neutralisation action of Gaviscon Double Action Liquid versus placebo liquid, within the stomach.

Study design

The study will be a randomised, single dose, crossover, open-label, placebo controlled confirmatory study, to characterise the acid neutralisation activity of Gaviscon Double Action Liquid (20 ml) in fasted healthy volunteers, using an intragastric and oesophageal pH catheter.

Subjects, clinic staff and the consultant gastroenterologist, will remain un-blinded to medications administered.

Intervention

Subjects will attend the Clinical Unit on four occasions over approximately 7 weeks (one pre-study screening visit [within 21 days prior to the first treatment visit], two treatment visits [each including an overnight stay] and one post-study follow-up visit [3-7 days after end of the second treatment visit]). During each treatment period, subjects will stay in the Clinical Unit from the evening prior to dosing until approximately 2 h after dosing. Doses

during treatment periods are separated by a minimum washout period of 5 days and a maximum of 14 days.

Potential suitable subjects will be identified according to QPS standard procedures. Written informed consent will be obtained prior to any pre-study procedures.

Screening: The pre-study procedures will consist of medical history, physical examination, concomitant medication vital signs, electrocardiogram (ECG), haematology, clinical biochemistry, viral serology, serum pregnancy test for female subjects, urinalysis, urinary drugs of abuse and alcohol breath test assessments.

Treatment Periods (1 and 2): Subjects who fulfil all the pre-study eligibility criteria will return to the Clinical Unit for the first treatment period, where eligibility for entry onto the study will be confirmed. Upon entry into the Clinical Unit on Day -1 of each treatment, concomitant medications will be recorded, an alcohol breath test, urinary drugs of abuse test, urine pregnancy test (female subjects), vital signs. Eligibility will be checked against the inclusion/exclusion criteria. The subject will remain in the Clinical Unit overnight.

On Day 1, eligible subjects will be randomised to one of the two treatments.

Fasted subjects will undergo nasal endoscopy, in order to locate the Squamocolumnar Junction (SCJ) and will have the pH catheter inserted according to the measurements obtained during the nasal endoscopy.

Following catheter insertion, the subjects will rest for at least 60 minutes. Baseline pH readings will be taken every 4 seconds for 30 (up to 45) minutes to enable the pH readings to stabilise. Any subject whose pH recordings do not stabilise or who meet any of the withdrawal criteria will be withdrawn from the study.

Each subject will be dosed with either Gaviscon Double Action Liquid or placebo liquid and pH will be recorded for a further 65 minutes (+ 5 minutes) after which the pH catheter will be removed via simple traction.

Within 30 minutes of catheter removal, the subject will be given a drink and light snack after which the scheduling of Treatment Period 2 will be confirmed, the subject will be provided with a *Volunteer Participation Card* and the subjects may leave the Clinical Unit. Adverse Events will be solicited by non-leading questions throughout the study.

During the stay in the Clinical Unit subjects will receive standardized meals, and general/dietary restrictions will apply.

Post Study Follow-up Visit: The post-study follow-up visit will be conducted 3 to 7 days after the end of Treatment Period 2. Concomitant medication, physical examination, vital signs, ECG, haematology, clinical biochemistry, urine pregnancy test (for female subjects) and urinalysis will be recorded.

The total volume of blood drawn from each subject during the study will be approximately 16 ml.

Study burden and risks

The potential risks to subjects taking part in the present study are considered to be low. The adverse reactions that occur very rarely (<1/10,000) as a result of taking sodium alginate products are allergic manifestations such as urticaria or bronchospasm, anaphylactic or anaphylactoid reactions as a result of a subject being sensitive to any of the active substances (sodium alginate, sodium bicarbonate and calcium carbonate) or any of the excipients (e.g. hydroxybenzoates [parabens]). Other adverse reactions include increased plasma sodium levels especially for those with renal and cardiovascular conditions on a highly restricted salt diet and high doses of calcium may cause alkalosis, hypercalcaemia, acid rebound, milk alkali syndrome or constipation. However as the subjects in this study are healthy volunteers and the subjects are receiving only a single dose, the risk of these adverse reactions are considered very low.

The nasal endoscopy, guide wire and catheter insertion/positioning involves risks to the subjects including bleeding, perforation of the oesophagus, stomach or duodenum and reactions to any drugs administered as part of the procedure, such as local anaesthetics. In the GA1406 study, there were five subjects who experienced nasal mucus blood tinged/nose bleeding/nasal pain, which were related to the nasal endoscopy procedure, all of which were resolved. The risk of this occurring is considered low.

Healthy volunteers are not expected to derive any benefit from participation in the study, however through their participation in this trial they will provide further clinical data to help characterise the antacid action of Gaviscon Double Action Liquid. This will provide support for indications such hyperacidity and excess stomach acid and will better inform consumers about the action and potential benefits of sodium alginate formulations. For this reason, the risk benefit balance for the current study is considered to be acceptable.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

Only subjects to whom all of the following conditions apply will be included:

1. Male or female subjects who have given written informed consent.
2. Age: * 18 years * 50 years.
3. Body Mass Index (BMI): * 18.5 and * 24.9.
4. Height * 1.90 metres
5. Healthy as determined by past medical history, physical examination, vital signs, electrocardiogram, and laboratory tests at screening.

Exclusion criteria

excluded:

1. A history of gastro-oesophageal reflux or active gastrointestinal disease (gastroduodenal ulcer, gastrointestinal haemorrhage, mechanical obstruction or perforation) within the last year.
2. Clinically significant diseases of the body system.
3. A medical history that is associated with an increased risk in study procedures (e.g. basal skull fracture or those who have undergone trans-sphenoidal surgery).

4. Hospitalisation within the previous three months for major surgery or medical illness.
5. A clinically significant illness within the 4 weeks prior to screening.
6. Ingestion of any prescription medication or non-prescription medication within the seven days, prior to the screening visit, which the Principal Investigator considers may interfere with the study.
7. Ingestion of antacids, H2 antagonists, motility stimulants (e.g. prokinetics, macrolide antibiotics such as erythromycin and azithromycin, and 5-hydroxytryptamine [5HT] agonists such as sumatriptan) or other medicines for relief of symptoms of acid reflux disease 2 weeks prior to enrolment in the study and during the study and/or have taken proton pump inhibitors in the 4 weeks prior to enrolment into the study and during the study. Enrolment is defined as the date of informed consent signature.
8. Those who are currently taking any of the following medications: antihistamines, tetracyclines, digoxin, quinolones including fluoroquinolone, iron salts, neuroleptics, thyroxine and levothyroxine, penicillamine, beta-blockers (e.g. atenolol, metoprolol, propranolol), glucocorticoid, chloroquine, biphosphonates, ketoconazole, eltrombopag and Thiazide diuretics.
9. A history of drug hypersensitivity, which in the opinion of the Principal Investigator might interfere with the study.
10. A history of allergy or intolerance to either IMP or the following formulation constituents: e.g. sodium alginate, parabens (methyl and propyl), glucose syrup, carbomer, xanthan gum.
11. A current or recent history (within one year of the screening visit) of alcohol abuse or significant abuse/misuse of any legal or illegal drugs, substances and solvents.
12. Those with a positive screen/test for drugs of abuse and/or alcohol.
13. Those who regularly (weekly) consume excessive amounts of alcohol (> 8 units for men and > 6 units for women in one consumption, excessive amounts as defined by the UK National Office of Statistics).
14. Those who have consumed more than 2 units of alcohol per day in the 7 days prior to the screening visit and from the screening visit up to 48 hours before admission to the Clinical Unit for Treatment Period 1.
15. Those who have consumed alcohol within the 48 hours before admission to the Clinical Unit for Treatment Period 1 and there is insufficient time for the visit to be rescheduled.
16. Those who regularly consume excessive quantities of caffeine (> 6 cups of tea, coffee or cola per day), according to the Investigator*s judgement.
17. Those who have consumed caffeine-containing food and drinks within the 48 hours before admission to the Clinical Unit for Treatment Period 1 and there is insufficient time for the visit to be rescheduled.
18. Those who are either unable to refrain from using tobacco/nicotine during the study treatment periods or unable to smoke less than 6 cigarettes (or equivalent) per day.
19. Those with any clinically significant abnormal laboratory result, in the opinion of the Principal Investigator.
20. Known human immune deficiency virus (HIV) positive status, or a positive viral serology screen.
21. Female subjects of child bearing potential who are unwilling to use an effective method of contraception unless they are abstaining from sexual intercourse in line with the preferred and usual lifestyle of the subject, for the entire study duration. Effective forms of contraception and the definition of non-child bearing potential for the purpose of this study is defined within section 4.4.

22. Male subjects who are not willing to use an effective method of contraception for the entire study duration, unless anatomically sterile or where abstaining from sexual intercourse in line with the preferred and usual lifestyle of the subject (see section 4.4).
23. Females who are pregnant or lactating.
24. Those who are unable to communicate well with the Investigator (i.e. language or neurodevelopmental disorders) in the opinion of the Investigator.
25. Those previously randomised into this study.
26. Those who are an employee at the study site.
27. Those who are a partner or first-degree relative of the Investigator.
28. Those who have participated in a clinical study in the 12 weeks prior to the screening visit.
29. Those who have participated in 4 (or more) clinical studies in the 10 months prior to the screening visit.
30. Those who have donated more than 1.5 litres of blood in the 10 months prior to the screening visit
31. Those who are unable, in the opinion of the Investigator, to comply fully with the study requirements.

Study design

Design

Study phase:	3
Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Placebo
Primary purpose:	Treatment

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	10-05-2016
Enrollment:	12
Type:	Actual

Medical products/devices used

Generic name:	PH catheter
Registration:	Yes - CE intended use
Product type:	Medicine
Brand name:	Gaviscon Dual 500 Mg / 213 Mg /325 Mg Oral suspension in sachet
Generic name:	-
Registration:	Yes - NL intended use

Ethics review

Approved WMO	
Date:	10-03-2016
Application type:	First submission
Review commission:	BEBO: Stichting Beoordeling Ethiek Bio-Medisch Onderzoek (Assen)
Approved WMO	
Date:	15-04-2016
Application type:	First submission
Review commission:	BEBO: Stichting Beoordeling Ethiek Bio-Medisch Onderzoek (Assen)
Approved WMO	
Date:	22-04-2016
Application type:	Amendment
Review commission:	BEBO: Stichting Beoordeling Ethiek Bio-Medisch Onderzoek (Assen)
Approved WMO	
Date:	04-05-2016
Application type:	Amendment
Review commission:	BEBO: Stichting Beoordeling Ethiek Bio-Medisch Onderzoek (Assen)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
EudraCT	EUCTR2016-000539-42-NL
CCMO	NL56645.056.16