

# Reckitt Benckiser

## 1 STUDY REPORT TITLE PAGE

|                                     |   |                       |                     |
|-------------------------------------|---|-----------------------|---------------------|
| <b>EudraCT Number:</b>              | 2012-000678-44  |                       |                     |
| <b>Study Number:</b>                | GA1116  | <b>Project Name:</b>  | 501                 |
| <b>Study Phase:</b>                 | II  | <b>Study Country:</b> | United Kingdom (UK) |
| <b>Indication:</b>                  | Not Applicable.   |                       |                     |
| <b>Test Product:</b>                | Gaviscon® Double Action Aniseed Liquid (PL 00063/0543)<br>Gaviscon® Advance Aniseed Liquid (PL 00063/0097)  |                       |                     |
| <b>Reference Product:</b>           | Placebo Aniseed Liquid  |                       |                     |
| <b>Date of First Subject Visit:</b> | 18 Sep 2012   |                       |                     |
| <b>Date of Last Subject Visit:</b>  | 08 May 2013   |                       |                     |
| <b>Principal Investigator:</b>      | Dr Simon Singer, BSc MB, ChB MRCS (from 01 Mar 2012 until 13 Mar 2013).<br>Dr Peter Dewland, BSc, MA, MBBS, FFPM, DCPSA (from 13 Mar 2013 until 17 Apr 2013).<br>Dr Pui Man Leung, MBChB, MRCP (UK), MFPM, DPM (from 17 Apr 2013 until 21 May 2013).<br>ICON Development Solutions, Skelton House, Lloyd Street North, Manchester, M15 6SH, UK. |                       |                     |
| <b>Study Title:</b>                 | A single-centre, randomised, four-way crossover study to investigate the measurement of the acid pocket and subsequent gastro-oesophageal reflux episodes using a novel pH/impedance catheter in subjects receiving Gaviscon® Double Action, Gaviscon® Advance and Placebo Liquid versus no treatment   |                       |                     |
| <b>Short Study Title:</b>           | Gaviscon® Double Action Acid Pocket Investigation   |                       |                     |
| <b>Report Date:</b>                 | 18 July 2014  |                       |                     |
| <b>Report Version:</b>              | Final   |                       |                     |
| <b>Study Conduct Statement:</b>     | This study was conducted in accordance with International Conference on Harmonisation (ICH) Good Clinical Practice (GCP) and the ethical principles contained within the Declaration of Helsinki, as referenced in European Union (EU) Directive 2001/20/EC.  |                       |                     |
| <b>Confidentiality Statement:</b>   | <b>The information contained in this document is privileged and confidential. Do not copy, circulate or otherwise distribute without written authority from the Reckitt Benckiser Clinical Project Manager function.</b>  |                       |                     |

## 2 REPORT APPROVAL

### Reviewed and Agreed by:

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**Statistical Manager:**



Dr Stacey V. Fergusson  
PhD

25 Jul - 2014

Date



Mr Gary Smith  
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22/JUL/2014

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ICON Development Solutions/ICON Clinical Research

**Statistician:**

**Report Author:**

Dr Colm Farrell, PhD

ICON Development Solutions

Date

Mr Leon Conradie, BA Hons

ICON Clinical Research

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### Reviewed and Approved by:

**R&D Senior Clinical Manager, Health:**

**RB Global Medical Director:**

Dr Sue Aspley  
PhD

Date

Dr Bernard Ng  
MD, MBA

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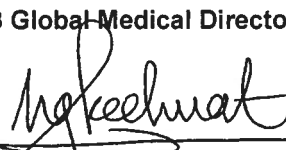
RB Global Medical Director:

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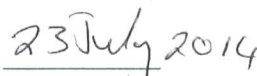
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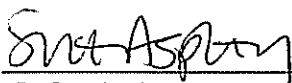
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R&D Senior Clinical Manager, Health:

RB Global Medical Director:

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Dr Sue Aspley  
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### 3 SYNOPSIS

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|---|--|---------------------------------|
| <b>Name of Sponsor/ Company:</b><br>Reckitt Benckiser Healthcare (UK) Ltd   | <b>Individual Trial Table Referring to Part of the Dossier</b><br><br><b>Volume:</b><br><br><b>Page:</b> | <b>(For Authority use only)</b> |
| <b>Name of Finished Products:</b><br>Gaviscon® Double Action Aniseed Liquid<br>Gaviscon® Advance Aniseed Liquid   |  |                                 |
| <b>Name of Active Ingredients:</b><br>Gaviscon® Double Action Aniseed Liquid: Sodium alginate, sodium hydrogen carbonate and calcium carbonate<br>Gaviscon® Advance Aniseed Liquid: Sodium alginate and potassium hydrogen carbonate  |  |                                 |
| <b>Title of Trial:</b> A single-centre, randomised, four-way crossover study to investigate the measurement of the acid pocket and subsequent gastro-oesophageal reflux episodes using a novel pH/impedance catheter in subjects receiving Gaviscon® Double Action, Gaviscon® Advance and Placebo Liquid versus no treatment  |  |                                 |
| <b>Investigator:</b><br><br>Dr Simon Singer, BSc MB, ChB MRCS (from 01 Mar 2012 until 13 Mar 2013).<br>Dr Peter Dewland, BSc, MA, MBBS, FFPM, DCPSA (from 13 Mar 2013 until 17 Apr 2013).<br>Dr Pui Man Leung, MBChB, MRCP (UK), MFPM, DPM (from 17 Apr 2013 until 21 May 2013).  |  |                                 |
| <b>Trial Site:</b> This study was conducted at the Phase 1 unit of ICON Development Solutions, Manchester Royal Infirmary Campus, Oxford Road, Manchester, M13 9WL, UK.   |  |                                 |
| <b>Publication (reference):</b> None  |  |                                 |
| <b>Studied Period:</b> The duration of the study was approximately 8 months.<br><b>Date first subject enrolled:</b> 18 Sep 2012<br><b>Date last subject completed:</b> 08 May 2013  |  | <b>Phase of Development:</b> II |
| <b>Objectives:</b> The objectives of this study were to assess the formation of the acid pocket, following a high fat test meal, and associated reflux episodes in subjects receiving no treatment and when dosed with Gaviscon® Advance Aniseed Liquid, Gaviscon® Double Action Aniseed Liquid or Placebo Aniseed Liquid.  |  |                                 |
| <b>Methodology:</b><br><br><b>Validation Phase:</b><br><br>Subjects in the Validation Phase of the study attended the ICON clinical pharmacology unit (CPU) on 3 separate occasions: a screening visit, one data collection visit (including 2 overnight stays) and a post-study visit. Subjects who took part in the Validation Phase were not able to participate in the Clinical Phase of the study.<br><br>After written informed consent had been given by the subjects, the following screening assessments took place to confirm subject eligibility: an assessment using High Resolution Manometry (HiRM) to determine the presence/absence of hiatus hernia. Subjects were also assessed for demographic |  |                                 |

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| <b>Name of Active Ingredients:</b><br>Gaviscon® Double Action Aniseed Liquid: Sodium alginate, sodium hydrogen carbonate and calcium carbonate<br>Gaviscon® Advance Aniseed Liquid: Sodium alginate and potassium hydrogen carbonate  | <b>Page:</b>   |  |
| <p>data, vital signs, medical history, medication and therapy history, physical examination, drugs of abuse test, alcohol breath test, pregnancy test and laboratory investigations.</p> <p>On Day 1 of the Validation Phase, subjects reported to the CPU, had vital signs recorded and were required to stay in the CPU and fast from approximately 22:00 until they were provided with a drink and meal the next day. The fasting period lasted approximately 12 to 14 hours (including sleep time).</p> <p>On the morning of Day 2, fasted subjects had the pH and impedance catheter inserted under endoscopic guidance. It was positioned in relation to the lower oesophageal sphincter and a fluoroscopic assessment was performed to confirm the position of the catheter for comparison later in the day. A minimum of 30 minutes after catheter insertion, pH and impedance monitoring commenced for 30 minutes to enable the pH readings to stabilise and a baseline dataset to be produced. Data recording was halted whilst subjects consumed a high fat meal, and data recording resumed immediately after completion of the meal and continued for 4 hours 15 minutes. Following implementation of non-substantial protocol amendment No. 4, dated 10 Jan 2013, data recording was continued whilst subjects consumed a high fat meal, with markers placed on the trace to identify the start and stop of eating.</p> <p>Following the recording period, the subjects were disconnected from the recording device, but the catheter was left in place. A repeat fluoroscopic assessment was performed to confirm catheter position. During the remainder of the day and night, subjects remained under the supervision of the CPU staff. Subjects were provided with food and drink (outside of the high fat meal administered during the treatment period, high fat food was avoided, i.e., total fat content of meals was less than 30% per meal and spicy food was avoided). From approximately 22:00 onwards, subjects were required to fast.</p> <p>On the morning of Day 3, the subjects were reconnected to the recording device and baseline readings were taken for 30 minutes. Subjects were then provided with the same high fat refluxogenic meal at approximately the same time of day as on Day 2.</p> <p>On completion of the recording period, a repeat fluoroscopic assessment was performed and the pH and impedance catheter was removed.</p> <p>The subjects were provided with a light meal and vital signs were assessed before the subjects were discharged. Subjects returned 3 to 7 days later for a follow-up visit.</p> <p><b>Clinical Phase:</b></p> <p>Subjects in the Clinical Phase of the study attended the CPU on a total of 4 separate occasions: a screening visit, 2 dosing visits (each including 2 overnight stays) and a post-study visit.</p> <p>The procedures described for the Validation Phase were repeated with the addition of a dosing step 15 minutes after completion of the meal. Fluoroscopic assessments were not performed in the Clinical Phase of the study.</p> |  |  |

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Subjects were dosed with Gaviscon® Advance Aniseed Liquid, Gaviscon® Double Action Aniseed Liquid, Placebo Aniseed Liquid or left untreated. After dosing, pH and impedance monitoring commenced for 4 hours. Data recording continued during dosing.

As with the Validation Phase, the subjects remained under the supervision of CPU staff. On Day 3, a second refluxogenic meal and an alternative treatment was given.

Following Treatment Period 1, subjects entered a minimum 5-day wash-out period before re-entering for repeat procedures with the remaining 2 treatments. Subjects returned 3 to 7 days after Treatment Period 2 for a follow-up visit.

Throughout the study, at various time-points, subjects were asked whether they had experienced any symptoms or complaints. Any spontaneously reported or observed adverse events (AEs) were recorded. Any concomitant medication taken by the subject during the study was recorded.

**Number of Subjects:**

**Planned:** Eight subjects were to be assessed in the Validation Phase. Sixteen subjects were considered to be sufficient to meet the objectives of the Clinical Phase of the study.

**Analysed:** Ten subjects were enrolled in the Validation Phase of the study, and 8 (80.0%) subjects completed the Validation Phase. Sixteen subjects were enrolled in the Clinical Phase of the study. The study was terminated early due to quality issues being identified across a number of RB studies and, as such, 14 (87.5%) subjects completed the Clinical Phase. One subject (Subject C011) completed Treatment Period 1, but was withdrawn from the study due to a positive drugs of abuse test in Treatment Period 2.

**Diagnosis and Main Criteria for Inclusion:** Male or female subjects, aged  $\geq 18$  to  $\leq 50$  years, who had used over-the-counter medication to treat for heartburn, typically at least twice a month for the previous 3 months and who gave written informed consent, were included in the study.

Main criteria for exclusion were:

- A history of gastro-oesophageal reflux disease or active gastrointestinal disease (gastroduodenal ulcer, gastrointestinal haemorrhage, mechanical obstruction or perforation) within the last year.
- Clinically significant allergic, pulmonary, neurological, renal, hepatic, cardiovascular, psychiatric, metabolic, endocrine or haematological disease.
- A hiatus hernia with a diameter which exceeded 3 cm at screening.
- A history of basal skull fracture or trans-sphenoidal surgery.
- Hospitalisation within the previous 3 months for major surgery or medical illness.

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| <ul style="list-style-type: none"> <li>• A clinically significant illness within the previous 4 weeks.</li> <li>• Use of any prescription medication or non-prescription medication (other than hormonal contraceptives) within the last 7 days, prior to the screening visit, which the Principal Investigator considered might interfere with the study.</li> <li>• Use of H<sub>2</sub> antagonists or motility stimulants 2 weeks prior to enrolment in the study and during the study.</li> <li>• Use of proton pump inhibitors 4 weeks prior to enrolment into the study and during the study.</li> <li>• A drug hypersensitivity, which in the opinion of the Principal Investigator might interfere with the study.</li> <li>• Evidence of columnar lined oesophagus or any other significant abnormality to the gastrointestinal tract (as determined during the endoscopy procedure to place the catheter).</li> <li>• Woman of childbearing potential, who were pregnant or lactating, seeking pregnancy or failing to take adequate contraceptive precautions. Adequate contraceptive precautions included oral or injectable contraceptives, approved hormonal implants or topical patches, intrauterine devices; barrier methods of contraception: condom or occlusive cap (diaphragm or cervical/vault caps) with spermicidal foam/gel/film/cream/suppository; true abstinence (true abstinence: when this was in line with the preferred and usual lifestyle of the subject. Periodic abstinence e.g., calendar, ovulation, symptothermal, post ovulation methods and withdrawal were not acceptable methods of contraception. Should the subject become sexually active whilst participating in the study, she and her partner agreed to use a double barrier method or condoms/diaphragms with spermicidal foam/gel/film/cream/ suppository). Subjects were to be informed verbally that a female condom and male condom should not have been used together as friction between the 2 can result in either product failing. A woman of childbearing potential was defined as any female who was less than 2 years postmenopausal or who had not undergone a hysterectomy or surgical sterilisation, e.g. bilateral tubal ligation, bilateral ovariectomy (oophorectomy).</li> </ul> |  |  |
| <b>Test Products:</b><br>Gaviscon® Advance Aniseed Liquid (300 ml bottles; batch number: 223085) and Gaviscon® Double Action Aniseed Liquid (300 ml bottles; batch number: 128471) were manufactured to Good Manufacturing Practice (GMP) standards by Reckitt Benckiser Healthcare (UK) Ltd, Dansom Lane, Hull, HU8 7DS, UK.   |  |  |
| <b>Duration of Treatment:</b><br>In the Validation Phase, approximately 3 weeks (from screening to post-study follow-up visit).<br>In the Clinical Phase, approximately 4 weeks (from screening to post-study follow-up visit).   |  |  |

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| <b>Reference Therapy:</b> Placebo Aniseed Liquid (150 ml bottles; batch number: PMBN12056) was manufactured to GMP standards by Pharmaterials Ltd, Unit B, 5 Bolton Road, Reading, RG2 0NH for Reckitt Benckiser Healthcare (UK) Ltd.  |  |  |
| <b>Criteria for Evaluation:</b><br><br><b>PH and Impedance:</b><br><br>The primary endpoint was the percentage of time that the electrode 5 cm above the squamocolumnar junction (SCJ) was pH < 4 over a period of 2 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid.<br><br>The secondary endpoints were:<br><br><b>pH Change:</b> <ul style="list-style-type: none"> <li>Percentage of time that the electrode 5 cm above the SCJ was pH &lt; 4 over a period of 2 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus the untreated state.</li> <li>Percentage of time that the electrode 5 cm above the SCJ was pH &lt; 4 over a period of 4 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>Percentage of time that the electrode 5 cm above the SCJ was pH &lt; 4 over a period of 2 hours following treatment with Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>Percentage of time that the electrode 5 cm above the SCJ was pH &lt; 4 over a period of 4 hours following treatment with Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>Percentage of time that each electrode was pH ≤ 4 at 15, 30, 45, 60, 75 and 90 minutes following ingestion of each test product at electrodes 4 to 11 inclusive.</li> <li>Mean percentage of time with pH &lt; 4 at electrodes 1, 2 and 3 during each of the four 1-hour periods for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>Mean percentage of time with pH &lt; 4 at electrodes 1, 2 and 3 during the 4-hour period for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>Mean percentage of time with pH &lt; 4 at the electrodes within the cardia (electrodes 4 to 7) during each of the four 1-hour periods for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance</li> </ul> |  |  |

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| <p>Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</p> <p><b>Reflux Events as Identified with Impedance Monitoring:</b></p> <ul style="list-style-type: none"> <li>• Total number of (i) liquid, (ii) gas and (iii) mixed reflux episodes occurring in the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>• Total number of (i) acid and (ii) weakly acidic reflux episodes occurring in the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>• Number of reflux episodes reaching 15 cm above the lower oesophageal sphincter (LOS) during the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> <li>• Oesophageal bolus exposure to reflux (percentage time with liquid or mixed reflux within the oesophageal lumen) for each test product versus the untreated state during the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.</li> </ul> <p><b>Safety:</b> Safety was assessed in terms of the proportion of subjects with AEs. Tolerability was evaluated using data obtained from vital signs and laboratory tests.</p> |  |                                 |
| <p><b>Statistical Methods:</b> For each of the pH and impedance endpoints, the relevant contrasts between treatments were compared using an analysis of variance (ANOVA) model incorporating all treatments which included fixed effects for treatment, baseline, treatment period (1 or 2), treatment day (2 or 3) and a random effect for subject.</p> <p>For the primary endpoint, separate models with added interaction terms for the effect of treatment by treatment period and treatment by treatment day were conducted.</p> <p>All AEs recorded during the study were coded to system organ class and preferred term using the Medical Dictionary for Regulatory Activities. Treatment-emergent AEs (TEAEs) are summarised and tabulated by treatment, indicating intensity and causal relationship to study treatment. Any serious adverse events (SAEs), AEs with outcome of death and AEs resulting in discontinuation of treatment are listed separately.</p> <p>The overall incidence of TEAEs (number and percentage of subjects) as well as the number of events are summarised by study treatment and overall for the following: categories of degree of intensity, SAEs, causally related TEAEs and SAEs, TEAEs leading to discontinuation of treatment, life-threatening SAEs and SAEs resulting in death.</p>   |  |                                 |

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**SUMMARY & CONCLUSIONS**

**PH AND IMPEDANCE RESULTS:**

**Primary pH and Impedance Analysis**

The primary pH and impedance endpoint was the percentage of time that the electrode 5 cm above the SCJ was pH < 4 over a period of 2 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid.

No statistically significant difference in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid for either the ITT or PP populations. For the PP population, a reduction in the time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid, with a LS mean difference of -2.1%.

**Secondary pH and Impedance Analysis**

**pH Change:**

No statistically significant difference in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with the untreated state for either the ITT or PP populations. For the PP population, a reduction in the percentage of time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with the untreated state, with a LS mean difference of -2.6%.

No statistically significant difference in the percentage of time that pH < 4 over a period of 4 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations. A reduction in the percentage of time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with the untreated state for the ITT population (LS mean difference of -1.8%) and the PP population (LS mean difference of -4.4%).

For both the ITT and PP populations, a reduction in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ of approximately 5% was observed for Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid or the untreated state. None of these differences was statistically significant.

For both the ITT and PP populations, a reduction in the percentage of time that pH < 4 over a period of 4 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid (approximate 2% reduction) or the untreated state (5% reduction). None of these differences was statistically significant.

For almost all combinations of electrode and timepoints, a reduction in the percentage of time that pH < 4 was observed for both Gaviscon® Double Action Aniseed Liquid and Gaviscon® Advance

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| <b>Name of Finished Products:</b><br>Gaviscon® Double Action Aniseed Liquid<br>Gaviscon® Advance Aniseed Liquid   | <b>Volume:</b>   |  |
| <b>Name of Active Ingredients:</b><br>Gaviscon® Double Action Aniseed Liquid: Sodium alginate, sodium hydrogen carbonate and calcium carbonate<br>Gaviscon® Advance Aniseed Liquid: Sodium alginate and potassium hydrogen carbonate  | <b>Page:</b>   |  |
| <p>Aniseed Liquid when compared with either the Placebo Aniseed Liquid or the untreated state for the ITT population. In the vast majority of cases, these reductions were not statistically significant nor was there any obvious trend as to which electrode/timepoint these reductions were observed.</p> <p>For both Gaviscon® Double Action Aniseed Liquid and Gaviscon® Advance Aniseed Liquid, there was a trend for a reduction in the mean percentage of time that pH &lt; 4 compared to both Placebo Aniseed Liquid and the untreated state during the 0 to 1-hour period and compared to untreated state during the 1 to 2-hour period for the ITT population, although none of these reductions achieved statistical significance. The greatest reductions of approximately 11% for Gaviscon® Double Action Aniseed Liquid and approximately 9% for Gaviscon® Advance Aniseed Liquid were observed during the 0 to 1-hour period.</p> <p>No statistically significant difference in the mean percentage of time that pH &lt; 4 at electrodes 1, 2 and 3 during the 4-hour period was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid or the untreated state for the ITT population. There was a trend for a reduction in the mean percentage of time that pH &lt; 4 for both Gaviscon® Double Action Aniseed Liquid (approximately 4%) and for Gaviscon® Advance Aniseed Liquid (approximately 3%) compared with the untreated state.</p> <p>No statistically significant difference in the mean percentage of time that pH &lt; 4 at electrodes 4 to 7 during four 1-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid or the untreated state for the ITT population. There was a trend for a reduction in the mean percentage of time that pH &lt; 4 during the 0 to 1-hour and 1 to 2-hour periods for both Gaviscon® Double Action Aniseed Liquid and Gaviscon® Advance Aniseed Liquid compared to both Placebo Aniseed Liquid and the untreated state. The greatest reductions of approximately 14% for Gaviscon® Double Action Aniseed Liquid and approximately 16% for Gaviscon® Advance Aniseed Liquid were observed during the 0 to 1-hour period.</p> <p><b>Reflux Events as Identified with Impedance Monitoring:</b></p> <p>No statistically significant differences in the number of (i) liquid, (ii) gas and (iii) mixed reflux episodes occurring during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid or the untreated state for either the ITT of the PP population. There was a trend for a slight reduction in the number of liquid reflux episodes.</p> <p>No statistically significant reduction in the total number of acid reflux episodes occurring during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations. There was a trend for a slight reduction in the number of acid reflux episodes.</p> <p>A statistically significant difference in the total number of weakly acidic reflux episodes occurring during the 2-hour period, but not during the 4-hour period, was observed for Gaviscon® Advance</p> |  |  |

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| <b>Name of Sponsor/ Company:</b><br>Reckitt Benckiser Healthcare (UK) Ltd   | <b>Individual Trial Table Referring to Part of the Dossier</b> | <b>(For National Authority use only)</b> |
| <b>Name of Finished Products:</b><br>Gaviscon® Double Action Aniseed Liquid<br>Gaviscon® Advance Aniseed Liquid   | <b>Volume:</b>   |  |
| <b>Name of Active Ingredients:</b><br>Gaviscon® Double Action Aniseed Liquid: Sodium alginate, sodium hydrogen carbonate and calcium carbonate<br>Gaviscon® Advance Aniseed Liquid: Sodium alginate and potassium hydrogen carbonate  | <b>Page:</b>   |  |
| <p>Aniseed Liquid when compared with the untreated state, but not when compared with Placebo Aniseed Liquid for both the ITT and PP populations.</p> <p>No statistically significant reduction in the number of reflux episodes reaching 15 cm above the LOS during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Liquid when compared with either Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations.</p> <p>No statistically significant reduction in the oesophageal bolus exposure to reflux during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Liquid when compared with either Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations.</p> <p><b>SAFETY RESULTS:</b></p> <p>No deaths, SAEs or withdrawals due to TEAEs were reported.</p> <p>Overall, 13 TEAEs were reported in 7 (46.7%) subjects (6 TEAEs in 5 [33.3%] subjects following administration of Gaviscon® Double Action Aniseed Liquid, 2 TEAEs in 2 [14.3%] subjects following administration of Gaviscon® Advance Aniseed Liquid, and 5 TEAEs in 5 [33.3%] subjects following administration of Placebo Aniseed Liquid).</p> <p>The majority of TEAEs (10 TEAEs) were mild in intensity and only 4 TEAEs (nasal discomfort, rhinorrhoea, medical device discomfort and oropharyngeal pain) were considered related (definite or probable) to the study treatment. The events of nasal discomfort, rhinorrhoea, medical device discomfort and oropharyngeal pain were all considered ADEs.</p> <p><b>CONCLUSION:</b></p> <p>Based on the results from this study, Gaviscon® Double Action Aniseed Liquid did not statistically significantly reduce the percentage of time that pH &lt; 4 over a period of 2 hours at the electrode 5 cm above the SCJ compared with Placebo Aniseed Liquid.</p> <p>Gaviscon® Double Action Aniseed Liquid (20 ml), Gaviscon® Advance Aniseed Liquid (10 ml) and the study procedures were well tolerated by all of the subjects.</p> <p>The method upon which this protocol was based was experimental and the first usage of this specific type of pH probe. Thus reproducibility and robustness were still unknowns, as was variability.</p> |  |  |
| <b>Date of the report:</b> 18 July 2014   |  |  |

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## 4.2 List of Abbreviations

| Abbreviation | Abbreviation in Full                      |
|--------------|---|
| ADE          | Adverse device event                      |
| AE           | Adverse event                             |
| ALT          | Alanine transaminase                      |
| ANOVA        | Analysis of variance                      |
| AR           | Adverse reaction                          |
| AST          | Aspartate transaminase                    |
| BUN          | Blood urea nitrogen                       |
| CI           | Confidence interval                       |
| CPU          | Clinical pharmacology unit                |
| CRF          | Case Report Form                          |
| CV%          | Coefficient of variation                  |
| EU           | European Union                            |
| GCP          | Good Clinical Practice                    |
| GMP          | Good Manufacturing Practice               |
| HiRM         | High Resolution Manometry                 |
| ICH          | International Conference on Harmonisation |
| IEC          | Independent Ethics Committee              |

| Abbreviation | Abbreviation in Full                                   |
|--------------|--|
| IMP          | Investigational Medicinal Product                      |
| IMSU         | Investigational Material Supply Unit                   |
| ITT          | Intention to treat                                     |
| LOS          | Lower oesophageal sphincter                            |
| LS mean      | Least squares mean                                     |
| MedDRA       | Medical Dictionary for Regulatory Activities           |
| MHRA         | Medicines and Healthcare products Regulatory Agency    |
| PI           | Principal Investigator                                 |
| PP           | Per protocol   |
| PT           | Preferred term   |
| QA           | Quality assurance                                      |
| SADE         | Serious adverse device event                           |
| SAE          | Serious adverse event                                  |
| SAP          | Statistical analysis plan                              |
| SCJ          | Squamocolumnar junction                                |
| SD           | Standard deviation                                     |
| SDV          | Source Data Verification                               |
| SE           | Standard error   |
| SOC          | System organ class                                     |
| SOP          | Standard Operating Procedure                           |
| TEAE         | Treatment-emergent adverse event                       |
| UK           | United Kingdom (of Great Britain and Northern Ireland) |

## 5 ETHICS

### 5.1 Independent Ethics Committee (IEC)

The name and full address of the IEC consulted is provided in Appendix 16.1.3.

The study protocol, together with subject information and consent documents were reviewed and approved on 04 Sep 2012 by the National Research Ethics Service Committee East Midlands - Northampton. The protocol amendments, together with updated subject information and consent documents were reviewed and approved on 06 Nov 2012 (Substantial Protocol Amendment No. 1), 13 Mar 2013 (Substantial Protocol Amendment No. 2) and 17 May 2013 (Substantial Protocol Amendment No. 3).

The protocol was submitted for consideration by the United Kingdom (UK) Medicines and Healthcare products Regulatory Agency (MHRA) and written approval from the MHRA was obtained on 20 Jul 2012, before clinical activities commenced. A Temporary Halt was put in place on 24 Apr 2013. An End of Trial decision was made on 04 Jun 2013 and the IEC was notified on 11 Jun 2013 (see Section 10.2 for details).

## **5.2 Ethical Conduct of the Study**

This study was conducted in accordance with the Declaration of Helsinki, as referenced in EU Directive 2001/20/EC. It complied with International Conference on Harmonisation (ICH) Good Clinical Practice (GCP) and applicable regulatory requirements.

Additional information on minor protocol deviations is included in a Note to File and the protocol deviations log, provided in Appendix 16.2.2. Following a review requested by the MHRA, ICON identified a total of 240 protocol deviations which were reported to RB. RB concluded that the majority (232) of the protocol deviations did not have significant impact on either the scientific value of the study or the safety of the subjects participating in the study. However, RB determined that there had been a significant impact on the safety of 8 subjects where there was no evidence of GP letters being sent to their GPs prior to screening (discovered by RB during a routine co-monitoring visit on 15 Jul 2013). RB reported this to the MHRA as being evidence of a serious breach of GCP. ICON performed a follow up and informed all subjects' GPs. There were no concerns raised by the GPs with regard to their patients' participation in the clinical study and as such ICON and RB determined that no safety issues related to patient safety had arisen.

## **5.3 Subject Information and Consent**

Copies of a representative subject information sheet and a blank informed consent form are provided in Appendix 16.1.3.

Subjects who were considered by the Investigator to be suitable for entry into the study were given the opportunity to read the subject information sheet and informed consent form, and to ask questions. If they understood and agreed with the information and instructions provided, they were asked to sign the informed consent form. The Investigator also signed the form.

The subject was given a copy of the information sheet and the signed informed consent form. No protocol-related procedures were performed prior to the subject signing the informed consent form.

## 6 INVESTIGATORS AND STUDY ADMINISTRATIVE STRUCTURE

Appendix 16.1.4 contains a table listing the names and affiliations of the individuals whose participation materially affected the conduct of the study, together with their roles. The Curriculum Vitae of the Principal Investigators (PIs) are also included in the appendix.

Dr Simon Singer, BSc MB, ChB MRCS (from 01 Mar 2012 until 13 Mar 2013), Dr Peter Dewland, BSc, MA, MBBS, FFPM, DCPSA (from 13 Mar 2013 until 17 Apr 2013) and Dr Pui Man Leung, MBChB, MRCP (UK), MFPM, DPM (from 17 Apr 2013 until 21 May 2013) were the PIs for this study. Dr Peter Dewland is the signatory for the clinical study report (see substantial protocol amendment No. 2 in Appendix 16.1.1). The PI signature page is presented in Appendix 16.1.5.

The clinical pathology and bioanalytical laboratories of ICON Development Solutions were used for this study. Statistical analysis and reporting was undertaken by ICON Development Solutions.

ICON Development Solutions was responsible for the project management, clinic (including ethics committee submission and pharmacy), CRF-design, data management, programming, statistical analysis and quality assurance. ICON Clinical Research was responsible for medical writing.

## 7 INTRODUCTION

The symptoms of reflux disease are among the most common gastroenterological complaints in the Western world<sup>1</sup>. Whilst there are regional differences, it has been suggested that in Western populations 25% had monthly symptoms, 12% had symptoms at least weekly and 5% had heartburn daily<sup>2</sup>. Post-prandially, it has been shown that intragastric pH is higher than oesophageal pH<sup>3</sup>, yet this post-prandial period is when patients report the majority of reflux symptoms<sup>4</sup>.

Recently, it was discovered a highly acidic layer on the top of the stomach contents exists. This phenomenon has been described as the “acid pocket”<sup>3,5,6</sup> and it is this acid that is thought to reflux in to the oesophagus during the post-prandial period<sup>4,5</sup>.

RB has undertaken this study to further understand the effect of Gaviscon<sup>®</sup> Double Action and Gaviscon<sup>®</sup> Advance on the acid pocket<sup>3,5,6</sup>. In this study, comparisons were made between the action of Gaviscon<sup>®</sup> Double Action, Gaviscon<sup>®</sup> Advance, and placebo liquid versus the untreated state. This study used a novel 11 electrode pH catheter to measure pH<sup>5</sup>, coupled to an impedance catheter to simultaneously detect reflux events. The catheters were fastened together and then inserted nasogastrically with the aid of endoscopy. The catheter was attached to the squamocolumnar junction (SCJ) using haemostatic clips. Measurements were taken at various positions through the oesophagus and stomach following ingestion of a high fat meal.

The Food Standards Agency<sup>7</sup> class a high fat meal as one containing more than 30% total fat. National Health Services<sup>8</sup> guidelines recommend that males should eat no more than 30 g of saturated fat per day and females no more than 20 g of saturated fat per day. NHS guidelines also quantify high levels of saturated fat as more than 5 g of saturated fat per 100 g and low levels of saturated fat as 1.5 g or less per 100 g. In this study the high fat meal which was provided contained 30% total fat. An alternative option was provided for vegetarians but also contained the same level of total fat.

The results of this study were also to provide a basis for sample size calculation for future studies.

Each subject received 2 active products, a liquid placebo and was also assessed in the untreated state in this randomised crossover study.

As this was a new technique, a Validation Phase was performed prior to the Clinical Phase of the study, to assess reproducibility and acceptability of the technique.

Subjects in the Validation Phase of the study had 3 fluoroscopic assessments performed in order to confirm that the catheters maintained a consistent position during procedures. Fluoroscopic assessments with as many radiation dose-reducing features as feasible were performed. Full details of information relating to the level of radiation and associated risk to the subject were provided in the subject information and consent forms.

The potential risks to subjects taking part in the present study were considered to be low. The adverse reactions that occur very rarely (<1/10,000) as a result of taking Gaviscon<sup>®</sup> 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 hydrogen carbonate/potassium hydrogen carbonate, and calcium carbonate) or any of the excipients (e.g. hydroxybenzoates [parabens]). Other adverse reactions include:

1. Sodium hydrogen carbonate/potassium hydrogen carbonate – increased plasma sodium or potassium levels especially for those with renal and cardiovascular conditions on a highly restricted salt diet.
2. Calcium carbonate – high doses of calcium may cause alkalosis, hypercalcaemia, acid rebound, milk alkali syndrome or constipation.

The upper gastrointestinal endoscopy procedure, electrode insertion, positioning and clipping may be associated with risks including: bleeding, perforation of the oesophagus, stomach or duodenum, and reactions to any drugs administered as part of the procedure, such as local anaesthetics. The use of endoscopy for placement of the pH and impedance catheter was essential to enable accurate placement. Clipping to the SCJ was required to ensure movement of the catheter was limited and therefore that the data collected were accurate. The procedure was performed by a consultant gastroenterologist at either the Manchester Royal Infirmary or the Spire Manchester Hospital.

Subjects were not expected to derive any benefit from participation in the study, however through their participation in this study they helped RB to better understand the effect of Gaviscon® on the acid pocket and to assess the efficiency of this research technique; this in turn might potentially lead to more effective targeted treatment for heartburn.

The study was conducted in accordance with the Declaration of Helsinki, as referenced in EU Directive 2001/20/EC. It complied with ICH GCP and applicable regulatory requirements.

## **8 STUDY OBJECTIVES**

The objectives of this study were to assess the formation of the acid pocket, following a high fat test meal and associated reflux episodes in subjects receiving no treatment and when dosed with Gaviscon® Advance Aniseed Liquid, Gaviscon® Double Action Aniseed Liquid or Placebo Aniseed Liquid.

## **9 INVESTIGATIONAL PLAN**

### **9.1 Overall Study Design and Plan – Description**

The study protocol and amendments are included as Appendix 16.1.1. The Case Report Form (CRF) is included as Appendix 16.1.2.

Prior to commencement of the Clinical Phase, a Validation Phase was performed to assess reproducibility of the method. In the Validation Phase, subjects were assessed in the untreated state on 2 occasions. This involved subjects undergoing catheter insertion followed by a 4-hour 15-minute data recording period. The catheter remained in place overnight and subjects remained in the clinical pharmacology unit (CPU). The following morning, data recording commenced as per the previous day.

Fluoroscopic studies were included in the Validation Phase of the study in order to demonstrate whether the ingestion of food caused the pH catheter's tethering to be dislodged and hence its migration over the course of the 2 days.

The Clinical Phase of the study was a single-centre, randomised, partially blind, 4-way crossover, placebo-controlled study to investigate the acid pocket via pH and impedance measurements. Subjects were assessed on 4 occasions over 2 visits, each visit with 2 overnight stays. During the treatment periods, subjects were assessed under each condition (i.e., treated with Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid or Placebo Aniseed Liquid, or were assessed in the untreated state), the sequence of treatment was allocated according to the randomisation schedule.

There was a minimum 5-day and a maximum 7-day wash-out period prior to the crossover treatment arm.

Follow-up was performed 3 to 7 days after the second dosing day in Treatment Period 2.

As this was a pilot study, no formal sample size calculation was performed because of the experimental nature of the study. Eight subjects were to be assessed in the Validation Phase. Sixteen subjects were considered to be sufficient to meet the objectives of the Clinical Phase of the study; therefore sufficient subjects were recruited and randomised to aim to have 24 subjects overall complete the study (8 subjects in the Validation Phase and 16 subjects in the Clinical Phase). Up to 2 subjects were assessed per day. Subjects who completed the Validation Phase were not permitted to participate in the Clinical Phase of the study.

The duration of each subject's participation in the Validation Phase of the study was approximately 3 weeks (from the screening visit to post-study follow-up visit). The duration of each subject's participation in the Clinical Phase of the study was approximately 4 weeks (from the screening visit to post-study follow-up visit).

The schedule of assessments is provided in Section 9.5.1 (Table 9-1 [Validation Phase], Table 9-2 [Clinical Phase: Treatment Period 1], and Table 9-3 [Clinical Phase: Treatment Period 2]).

## 9.2 Discussion of Study Design, Including the Choice of Control Groups

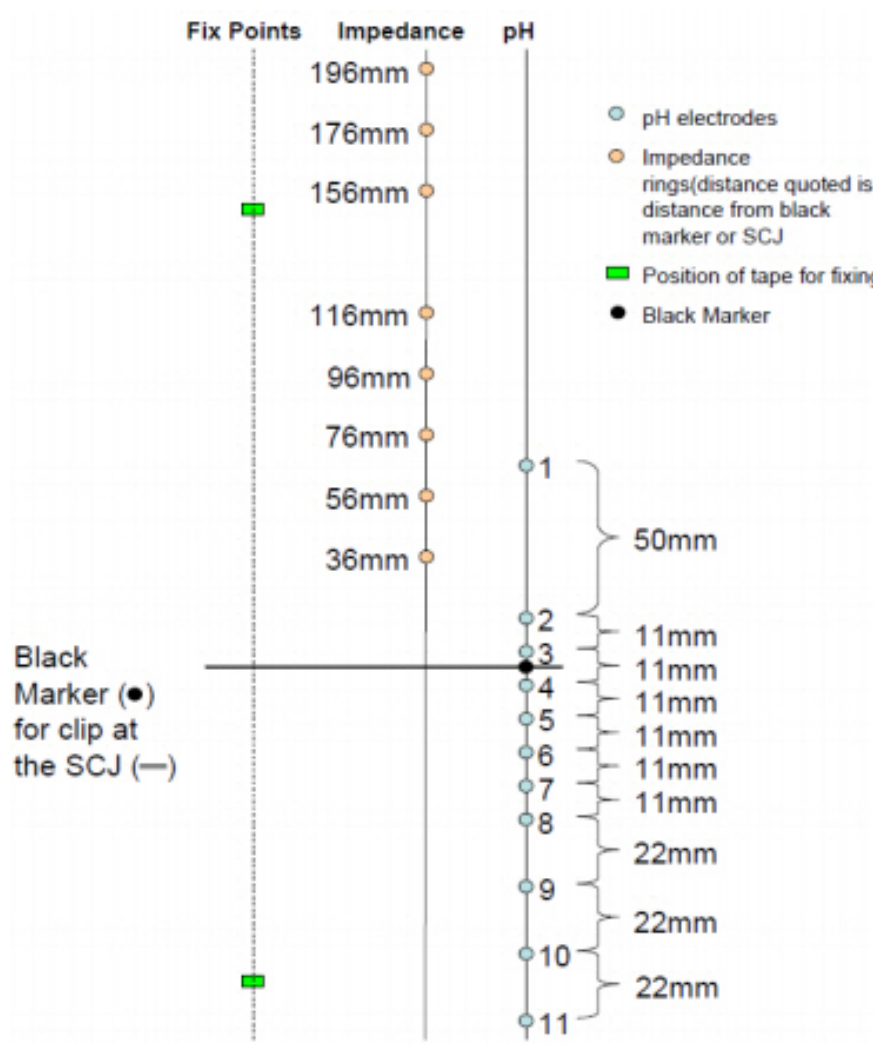
Gaviscon<sup>®</sup> Advance and Gaviscon<sup>®</sup> Double Action (Reckitt Benckiser Healthcare [UK] Ltd) are alginate-based formulations that rapidly form physical barriers on top of stomach contents in the form of floating gels, or rafts<sup>9,10</sup>. Gaviscon<sup>®</sup> Advance 10 ml has a minimal acid neutralising capacity of 6.0 mEq, whilst Gaviscon<sup>®</sup> Double Action 20 ml has an increased acid neutralising capacity of 18.1 mEq<sup>9,10</sup>. Kwiatek et al. demonstrated that Gaviscon<sup>®</sup> Double Action can eliminate, or displace, the acid pocket in symptomatic patients with gastro-oesophageal reflux disease 40 minutes after consuming a high fat meal<sup>11</sup>.

This study used a novel multi-channel pH catheter<sup>5</sup> coupled to a ZAN-BS-01 non-perfused, single-use impedance probe to allow the continuous recording of pH at 11 sites (7 in the SCJ and cardia, 4 in the oesophagus) and measurement of reflux episodes in the oesophagus.

The study also assessed the acid pocket in the untreated and post-dose state with alginate products and a placebo to allow an insight into the effect of alginate products on the acid pocket and post-prandial reflux episodes.

A schematic of the pH and impedance probes is provided in Figure 9–1.

**Figure 9–1 pH and Impedance Probe Specification**



Abbreviations: SCJ = squamocolumnar junction

## 9.3 Selection of Study Population

Subjects were recruited from the ICON Development Solutions' volunteer database.

### 9.3.1 Inclusion Criteria

To be eligible for inclusion into this study, each subject had to fulfil the following criteria:

- 1) Male or female subjects aged  $\geq 18$  years,  $\leq 50$  years.
- 2) Subjects who used over-the-counter medication to treat for heartburn, typically at least twice a month for the previous 3 months.

- 3) Those whose cigarette consumption was < 6 per day and who were willing to abstain from smoking whilst at the CPU.
- 4) Willingness to consume the refluxogenic meal.
- 5) Otherwise healthy subjects, in the opinion of the Investigator.
- 6) Those who were willing to volunteer and provided written informed consent.

### 9.3.2 Exclusion Criteria

A subject was excluded from the study if they met any of the following criteria:

- 1) Those with a history of gastro-oesophageal reflux disease or reflux symptoms typically requiring self-medication with over-the-counter or prescription medication more than twice a week on an ongoing basis.
- 2) Those who had a history or active gastrointestinal disease (gastroduodenal ulcer, gastrointestinal haemorrhage, mechanical obstruction or perforation) within the last year.
- 3) Those who showed clinically significant allergic, pulmonary, neurological, renal, hepatic, cardiovascular, psychiatric, metabolic, endocrine, or haematological disease.
- 4) Those who were observed at screening to have a hiatus hernia with a diameter which exceeded 3 cm.
- 5) Those who had a history of basal skull fracture or who had undergone trans-sphenoidal surgery.
- 6) Those who had been hospitalised within the previous 3 months for major surgery or medical illness.
- 7) Those who had had a clinically significant illness within the previous 4 weeks.
- 8) Those who had taken any prescription medication or non-prescription medication (other than hormonal contraceptives) within 7 days, prior to the screening visit, which the Investigator considered might interfere with the study.
- 9) Those who had taken H<sub>2</sub> antagonists or motility stimulants in the 2 weeks prior to enrolment in the study and during the study.
- 10) Those who had taken proton pump inhibitors 4 weeks prior to enrolment into the study and during the study.
- 11) Any previous history of allergy or known intolerance to any of the study drugs or the formulation constituents.
- 12) Those who had a current or recent (1 year) history of alcohol abuse or abuse of any legal or illegal drugs, substances, solvents.
- 13) Those who consumed abnormal quantities of coffee, tea or cola (e.g. more than 6 cups) according to the Investigator's judgement.
- 14) Those who had taken part in any clinical study within the previous 3 months, or had taken part in a total of 4 or more studies in the last 12 months.

- 15) Those who were unable to communicate well with the Investigator (i.e. language problem, poor mental development or impaired cerebral function) in the opinion of the Investigator.
- 16) Those who had evidence of columnar lined oesophagus or any other significant abnormality in the opinion of the endoscopist and Investigator (as determined during the endoscopy procedure to place the catheter).
- 17) Woman of childbearing potential, who were pregnant or lactating, seeking pregnancy or failing to take adequate contraceptive precautions. Adequate contraceptive precautions included oral or injectable contraceptives, approved hormonal implants or topical patches, intrauterine devices; barrier methods of contraception: condom or occlusive cap (diaphragm or cervical/vault caps) with spermicidal foam/gel/film/cream/suppository; true abstinence (true abstinence: when this was in line with the preferred and usual lifestyle of the subject. Periodic abstinence e.g., calendar, ovulation, symptothermal, post-ovulation methods and withdrawal were not acceptable methods of contraception. Should the subject become sexually active whilst participating in the study, she and her partner agreed to use a double barrier method or condoms/diaphragms with spermicidal foam/gel/film/cream/ suppository). Subjects were to be informed verbally that a female condom and male condom should not have been used together as friction between the 2 can result in either product failing. A woman of childbearing potential was defined as any female who was less than 2 years postmenopausal or who had not undergone a hysterectomy or surgical sterilisation, e.g. bilateral tubal ligation, bilateral ovariectomy (oophorectomy).
- 18) Those previously randomised into this study or those enrolled in the Validation Phase.
- 19) Those unable in the opinion of the Investigator to comply fully with the study requirements.

### **9.3.3 Removal of Subjects from Therapy or Assessment**

The Investigator could withdraw a subject from the study at any time. Reasons for removing a subject from the study included, but were not limited to:

- Adverse events (AEs) that in the judgement of the Investigator could cause severe or permanent harm (significant clinical deterioration was considered an AE).
- Violation of the study protocol.
- In the Investigator's judgement, it was in the subject's best interest.
- Subject declined further study participation.

The primary reason for withdrawal was to be documented as one of the following: AEs; lost to follow-up; protocol violation; death or other. The Investigator was to make reasonable attempts to contact subjects who were lost to follow-up; a minimum of 2 documented telephone calls or a letter was considered reasonable.

If a subject was withdrawn prematurely from the study, the following assessments were to be carried out:

- Vital signs (as for screening).
- Physical examination.
- Laboratory Investigations (as for screening with the exception that viral serology and urine drug screen were not necessary at follow-up).
- Review of concomitant medication and AEs.

## **9.4 Treatments**

### **9.4.1 Treatments Administered**

The following blinded medication was supplied:

Gaviscon<sup>®</sup> Double Action Aniseed Liquid in 300 ml bottles (PL 00063/0543) (Treatment A).  
Gaviscon<sup>®</sup> Advance Aniseed Liquid in 300 ml bottles (PL 00063/0097) (Treatment B).  
Placebo Aniseed Liquid in 150 ml bottles (Treatment C).

Supplies were provided to the ICON Pharmacy as bulk. Samples were dispensed, in amber syringes and labelled A or B or C, to study nurses to ensure that blind was maintained. The person administering the product was aware of the volume administered and hence was aware of which product was Gaviscon<sup>®</sup> Advance Aniseed Liquid. However, data collection in this study was automated and therefore it was not possible for an unblinded member of staff to influence the outcome of the study. The PI did not see the IMP prior to or during dosing and therefore remained blinded throughout the study.

#### **9.4.2 Identity of Investigational Medicinal Product(s)**

Gaviscon® Double Action Aniseed Liquid (300 ml; batch number: 128471) and Gaviscon® Advance Aniseed Liquid (300 ml; batch number: 223085) were manufactured to Good Manufacturing Practice (GMP) standards by Reckitt Benckiser Healthcare (UK) Ltd, Dansom Lane, Hull, HU8 7DS, UK.

The Placebo Aniseed Liquid (150 ml; batch number: PMBN12056) was manufactured to GMP standards by Pharmaterials Ltd, Unit B, 5 Bolton Road, Reading, RG2 0NH, UK for Reckitt Benckiser Healthcare (UK) Ltd.

All drug supplies were packed and labelled to GMP standards by the Investigational Material Supply Unit (IMSU), Reckitt Benckiser Healthcare (UK) Ltd, Dansom Lane, Hull HU8 7DS, UK. The Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid and Placebo Aniseed Liquid were supplied as double blind. Investigational medicinal product (IMP) was shipped directly from the Reckitt Benckiser Healthcare (UK) Ltd IMSU to ICON.

#### **9.4.3 Method of Assigning Subjects to Treatment Groups**

A detailed description of the randomisation method, including how it was executed, is provided in Appendix 16.1.7.

On entry into the Validation Phase, subjects were allocated a unique subject number in numerical sequence. A randomisation schedule for the Clinical Phase was produced by the RB statistician and provided to IMSU. Treatments were allocated so that subjects received Gaviscon® Double Action Aniseed Liquid and placebo within the same residential period. This was to account for potential minor variations in location of the probes due to the clipping procedure.

Subjects in the Clinical Phase of the study were randomised to one of the following 8 sequences:

| Treatment Sequence | Treatment |       |          |       |
|--------------------|-----------|-------|----------|-------|
|                    | Period 1  |       | Period 2 |       |
|                    | Day 2     | Day 3 | Day 2    | Day 3 |
| ACBD               | A         | C     | B        | D     |
| ACDB               | A         | C     | D        | B     |
| CABD               | C         | A     | B        | D     |
| CADB               | C         | A     | D        | B     |
| BDAC               | B         | D     | A        | C     |
| BDCA               | B         | D     | C        | A     |
| DBAC               | D         | B     | A        | C     |
| DBCA               | D         | B     | C        | A     |

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### 9.4.4 Selection of Doses in the Study

Subjects received one single oral dose of 10 ml suspension of Gaviscon® Advance Aniseed Liquid, 20 ml of Gaviscon® Double Action Aniseed Liquid or 20 ml of placebo or remained untreated as defined in the randomisation schedule. Dosing occurred on Day 2 and Day 3 of Treatment Period 1 and on Day 2 and Day 3 of Treatment Period 2. Dosing took place under the supervision of ICON staff.

#### 9.4.5 Selection and Timing of Dose for Each Subject

On the morning of Day 2 of each treatment period of the Clinical Phase, fasted subjects had the pH catheter inserted under endoscopic guidance. A minimum of 30 minutes after catheter insertion, baseline pH monitoring commenced for 30 minutes to enable the pH readings to stabilise and a baseline dataset to be produced. Following implementation of non-substantial protocol amendment No. 5, dated 27 Mar 2013, up to 5 minutes of additional recording was permitted. Subjects were then dosed with either Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid or Placebo Aniseed Liquid (as defined in the randomisation schedule) and pH was monitored for 4 hours. Subjects were required to fast from approximately 22:00 on Day 1. The fasting period lasted approximately 12 to 14 hours (including sleep time). There were operational issues in this study resulting in significant deviations in the timing of data collection (see Section 10.2 for details).

#### **9.4.6 Blinding**

Blinding of the study was maintained as follows: subjects were administered either 10 ml or 20 ml study treatment or placebo as indicated by the randomisation schedule. Subjects were not informed of which medication was administered as 10 ml or 20 ml. The person administering the product was aware of the volume administered and hence was aware of which product was Gaviscon® Advance Aniseed Liquid. However, data collection in this study was automated and therefore it was not possible for an unblinded member of staff to influence the outcome of the study. The PI did not see the IMP prior to or during dosing and therefore remained blinded throughout the study.

On entry into the Validation Phase, subjects were allocated a unique subject number in numerical sequence. A separate randomisation schedule was provided by the statistician for the Clinical Phase, those subjects in this phase were issued drug in the sequence defined in the randomisation schedule.

Treatments were allocated so that subjects received Gaviscon® Double Action Aniseed Liquid and Placebo Aniseed Liquid within the same residential period. This was to account for potential minor variations in location of the probes due to the clipping procedure.

The IMP was labelled in accordance with EudraLex - Volume 4 GMP guidelines, Annex 13 - Manufacture of IMP, parts 26 to 33 (labelling) and in accordance with EU Directive 2003/94/EC as amended and including any other applicable national/state legislation.

The RB IMSU held the master code for the randomisation schedule and supplied the Investigator (via the ICON Pharmacy department) with the randomisation code for each subject as sealed envelopes. The code was only to be broken for an individual subject in an emergency such as a serious adverse event (SAE) that required knowledge of what study treatment was taken in order that the SAE could be treated appropriately.

The study monitor checked the randomisation codes on a regular basis at monitoring visits, to ensure the above procedures were being followed at the study site. All codes, whether sealed or opened, were returned to RB at the end of the study.

#### **9.4.7 Prior and Concomitant Therapy**

Concomitant therapies were defined as prescribed medications, physical therapy, and over-the-counter preparations, including herbal preparations licensed for medicinal use, other than study treatment and supplementary medication that the subject received during the course of the study.

The Investigator recorded any medications given for the treatment of AEs on the concomitant medication page in the subject's CRF. Any medication taken by the subject during the course of the study was also recorded on this form. Any changes in concomitant therapy during the study were documented, including cessation of therapy, initiation of therapy and dose changes.

The use of the following treatments was not permitted:

Subjects were asked to withhold any medication that affected gastric acid secretion prior to and during monitoring (see also Section 9.3.2).

- H<sub>2</sub> antagonists or motility stimulants 2 weeks prior to enrolment in the study and during the study.
- Proton pump inhibitors 4 weeks prior to enrolment into the study and during the study.

If concomitant medication was taken the Investigator decided whether the subject should remain in the study or be withdrawn.

In addition, no drinking or eating, including caffeine-containing food and drinks were allowed other than what was provided by ICON during the Validation Phase and Clinical Phase. No alcohol was allowed 48 hours prior to each visit and the treatment visits. In addition, smoking was not permitted during each visit, nicotine replacement patches were not permitted during the study. Female subjects taking hormonal contraceptives were asked to continue.

#### **9.4.8 Treatment Compliance**

Study treatment was taken by the subject under supervision of appropriately trained ICON staff who conducted a mouth inspection to ensure compliance with dosing. Any subjects who did not take the study treatment as required were to be withdrawn from the study.

### **9.5 Study Variables and Methods of Assessment**

#### **9.5.1 Measurements Assessed and Schedule**

The schedule of assessments for the Validation Phase is presented in Table 9-1.

**Table 9-1 Schedule of Assessments: Validation Phase**

| Study Period                               | Screening<br>(up to<br>28 days<br>prior to<br>admission<br>to the CPU) | Admission<br>to the CPU<br>Treatment<br>Period 1:<br>Day 1 | Treatment<br>Period 1:<br>Day 2 | Treatment<br>Period 1:<br>Day 3 | Follow-up |
|--|--|--|---------------------------------|---------------------------------|-----------|
| Informed consent                           | X  |  |                                 |                                 |           |
| Demography                                 | X  |  |                                 |                                 |           |
| Medical history                            | X  |  |                                 |                                 |           |
| Concomitant medication                     | X  | X  | X                               |                                 |           |
| Vital signs                                | X  | X  |                                 | X                               | X         |
| Physical examination                       | X  |  |                                 |                                 | X         |
| Alcohol and drugs of abuse<br>test         | X  | X  |                                 |                                 |           |
| Pregnancy test (women only)                | X  | X  |                                 |                                 |           |
| Laboratory analysis                        | X  |  |                                 |                                 | X         |
| Eligibility<br>decision/confirmation       | X  |  | X                               |                                 |           |
| HiRM assessment                            | X  |  |                                 |                                 |           |
| Insertion of pH and<br>impedance catheters |  |  | X                               |                                 |           |
| Fluoroscopy assessment                     |  |  | X                               | X                               |           |
| pH and impedance<br>recordings             |  |  | X                               | X                               |           |
| Refluxogenic meal                          |  |  | X                               | X                               |           |
| Removal of pH and<br>impedance catheters   |  |  |                                 | X                               |           |
| Adverse events recorded                    |  | X  | X                               | X                               | X         |

Abbreviations: CPU = clinical pharmacology unit; HiRM = High Resolution Manometry

The schedule of assessments for the Clinical Phase (Treatment Period 1) is presented in Table 9-2.

**Table 9-2 Schedule of Assessments: Clinical Phase (Treatment Period 1)**

| Study Period                               | Screening<br>(up to<br>28 days<br>prior to<br>admission<br>to the CPU) | Admission<br>to the CPU<br>Treatment<br>Period 1:<br>Day 1 | Treatment<br>Period 1:<br>Day 2 | Treatment<br>Period 1:<br>Day 3 | Wash-out<br>period<br>(minimum of<br>5 days<br>following<br>previous<br>visit) |
|--|--|--|---------------------------------|---------------------------------|--|
| Informed consent                           | X  |  |                                 |                                 |  |
| Demography                                 | X  |  |                                 |                                 |  |
| Medical history                            | X  |  |                                 |                                 |  |
| Concomitant medication                     | X  | X  | X                               |                                 |  |
| Vital signs                                | X  | X  |                                 | X                               |  |
| Physical examination                       | X  |  |                                 |                                 |  |
| Alcohol and drugs of abuse<br>test         | X  | X  |                                 |                                 |  |
| Pregnancy test (women only)                | X  | X  |                                 |                                 |  |
| Laboratory analysis                        | X  |  |                                 |                                 |  |
| Eligibility<br>decision/confirmation       | X  |  | X                               |                                 |  |
| HiRM assessment                            | X  |  |                                 |                                 |  |
| Insertion of pH and<br>impedance catheters |  |  | X                               |                                 |  |
| pH and impedance<br>recordings             |  |  | X                               | X                               |  |
| Refluxogenic meal                          |  |  | X                               | X                               |  |
| Dosing                                     |  |  | X                               | X                               |  |
| Removal of pH and<br>impedance catheters   |  |  |                                 | X                               |  |
| Adverse events recorded                    |  | X  | X                               | X                               | X  |

Abbreviations: CPU = clinical pharmacology unit; HiRM = High Resolution Manometry

Following a minimum of a 5-day wash-out period, subjects returned to the CPU for Treatment Period 2.

The schedule of assessments for the Clinical Phase (Treatment Period 2) is presented in Table 9-3.

**Table 9-3 Schedule of Assessments: Clinical Phase (Treatment Period 2)**

| Study Period                            | Admission to the CPU<br>Treatment Period 2:<br>Day 1 | Treatment Period 2:<br>Day 2 | Treatment Period 2:<br>Day 3 | Follow-up<br>(3 to 7 days following previous visit) |
|---|--|------------------------------|------------------------------|---|
| Informed consent                        |  |                              |                              |   |
| Demography                              |  |                              |                              |   |
| Medical history                         |  |                              |                              |   |
| Concomitant medication                  | X  | X                            |                              | X   |
| Vital signs                             | X  |                              | X                            | X   |
| Physical examination                    |  |                              |                              | X   |
| Alcohol and drugs of abuse test         | X  |                              |                              |   |
| Pregnancy test (women only)             | X  |                              |                              |   |
| Laboratory analysis                     |  |                              |                              | X   |
| Eligibility decision/confirmation       | X  |                              |                              |   |
| Insertion of pH and impedance catheters |  | X                            |                              |   |
| pH and impedance recordings             |  | X                            | X                            |   |
| Refluxogenic meal                       |  | X                            | X                            |   |
| Dosing                                  |  | X                            | X                            |   |
| Removal of pH and impedance catheters   |  |                              | X                            |   |
| Adverse events recorded                 | X  | X                            | X                            | X   |

Abbreviations: CPU = clinical pharmacology unit

The pH and impedance and safety variables, and their methods of assessment, are described in Sections 9.5.3 and 9.5.4, respectively.

## 9.5.2 Baseline Assessments

### 9.5.2.1 Overview of Baseline Assessments

The following demographic assessments were determined:

- Sex.
- Race (categorised as: Caucasian, Asian, Afro-Caribbean and Other).
- Date of birth.
- Height (cm).

- Weight (kg).
- Body mass index (kg/m<sup>2</sup>).
- Smoking/alcohol/drugs of abuse history/use.
- Medical history and current status:
  - Primary diagnosis.
  - Duration of disease.
  - Medical history and current status.
- Medication and therapy history:
  - Current medication usage.
  - Therapy taken in the previous 28 days was recorded (as per the exclusion requirements in Section 9.3.2, subjects who had taken proton pump inhibitors in the previous 4 weeks were excluded).

The following baseline assessments were performed:

- Vital Signs:
  - Blood pressure (after sitting for 5 minutes with both feet flat on the floor; mmHg).
  - Heart rate (recorded using the blood pressure monitor, bpm).
  - Oral temperature (°C).
- Physical examination:
  - Standard physical examination.
- Pregnancy testing:
  - Women of childbearing potential underwent urine pregnancy testing.

Subjects who were otherwise eligible visited the Gastrointestinal Investigation Unit of Manchester Royal Infirmary. High resolution manometry (HiRM) was used to assess for the presence or absence of hiatus hernia. Xylocaine spray was available for use if required for the comfort of the subject. The data produced from the HiRM were sent to a RB appointed consultant for review and analysis. The presence or absence of a hiatus hernia was recorded in the subject's CRF. For those found to have a hiatus hernia, size was documented. Subjects were excluded from the study if the hiatus hernia exceeded 3 cm in size.

Safety-related baseline assessments are described in Section 9.5.4.

### **9.5.2.2 Methods of Baseline Assessment**

Standard methods at the study site(s) were used for evaluating subject baseline assessments. Assessments described in Section 9.5.2.1 were conducted at the ICON CPU.

### **9.5.3 PH and Impedance Variables**

#### **9.5.3.1 Overview of pH and Impedance Variables**

Oesophageal and intragastric pH monitoring was performed using a high definition 11 electrode pH catheter (custom made by Sandhill Scientific, Inc) and recorded using the Insight device from Sandhill. A new pH catheter was used per subject to record pH 4 times. Each pH catheter was used on 2 occasions for the same subject and clipped at the SCJ using a single clip on each occasion. In between uses, the catheter was cleaned as per the ICON instruction manual using disinfectant wipes.

The pH catheter was calibrated prior to each insertion procedure. The probe was first immersed in pH 4 buffer solution for 3 to 4 minutes, rinsed with water then immersed in pH 7 buffer solution for 3 to 4 minutes. Calibration data were then recorded by completing the following steps: The probe was immersed in pH 7 buffer for 4 minutes and subsequently recorded for 1 minute. The probe was then rinsed and immersed in the pH 4 buffer for 3 minutes, followed by 1 minute of recording. It was then removed and rinsed again and placed in pH 1 for 3 minutes followed by 1 minute of recording. Once rinsed, the probe was placed in the appropriate container to be taken to the Gastroscopy Unit where placement was performed. At the end of the study, the pH catheter was removed and this step (pH 7, followed by pH 4, followed by pH 1) repeated to see how much drift has occurred.

Impedance monitoring was performed using a ZAN-BS-01, non-perfused single-use catheter.

Following a 30-minute period of baseline recording, subjects were provided with a standardised high fat meal.

### **Clinical Phase**

During the Clinical Phase, 15 minutes after completion of the meal, subjects were dosed with Gaviscon® Double Action Aniseed Liquid (20 ml), Gaviscon® Advance Aniseed Liquid (10 ml), Placebo Aniseed Liquid (20 ml) or remained untreated as defined in the randomisation schedule.

## Validation Phase

For subjects in the Validation Phase or randomised to an untreated group in the Clinical Phase, changes in oesophageal and intragastric pH were continuously measured over a 4-hour 15-minute period using the pH catheter. For subjects who received one of the 3 test products (as defined in the randomisation schedule), changes in oesophageal and intragastric pH were continuously measured immediately after dosing over a 4-hour period using the pH catheter. Data were stored on a compact flash card and were downloaded onto a CPU computer.

For the Validation Phase, at the end of recording, subjects were then escorted to Manchester Royal Infirmary Radiology Department, to have a fluoroscopic procedure performed, to confirm that the catheter had not moved significantly during the study. On completion of the data monitoring period (Day 3 of each treatment period), the catheters were disconnected from the recording device and removed.

The Investigator compared the reports of the fluoroscopic studies performed before and after pH monitoring and noted any significant changes in the subject's CRF.

The pH and impedance endpoints assessed during the study are provided in Section 9.5.10.

### 9.5.3.2 Methods of pH and Impedance Assessment

#### 9.5.3.2.1 Catheter Insertion

On Day 2 (of each treatment period), following confirmation of negative test results for the alcohol, drugs of abuse and pregnancy tests, subjects were asked whether they had experienced any symptoms or complaints and were instructed to inform the Investigator during the treatment visit if they suffered any AEs or used any concomitant medication.

Subjects were escorted the short walking distance to the endoscopy suite at the appropriate hospital, by ICON nursing staff, where the pH and impedance catheter was inserted nasogastrically and positioned by a consultant gastroenterologist under endoscopic guidance.

Xylocaine throat spray was available for use if required for comfort.

A loop, which was pre-attached to both the nasogastric pH and impedance catheters, was fixed distal to the SCJ using standard haemostatic metal clips (HX-600-090, Olympus or similar) deployed by an endoscopic clip-fixing device (HX-5LR-1, Olympus or similar). The pH probe was placed so that 3 electrodes recorded pH proximal to the SCJ and 8 electrodes recorded pH distal to the SCJ. Catheters were positioned so that electrode 1 was 5 cm above the SCJ (i.e., in the middle of the lower oesophageal sphincter [LOS]) - electrodes 2 and 3 sat within the LOS.

Following the procedure, the endoscope was removed. The subjects in the Validation Phase then had a fluoroscopic assessment of the upper abdomen performed to demonstrate the position of the catheter. This involved the same procedure as a traditional dynamic X-ray but with the addition of a fluorescent screen between the subject and the instrument. Upon completion of the fluoroscopic assessment, subjects returned to the CPU accompanied by ICON nursing staff.

Prior to commencement of baseline data collection, subjects were allowed to rest for 30 minutes, in a sitting position (up to 5 minutes of additional recording was permitted). This period enabled readings to stabilise. During collection of data, subjects were required to remain seated at approximately 60 degrees. This position was standardised throughout and was therefore the same for all recording periods. After returning to the CPU, baseline readings were performed continuously over a period of 30 minutes (up to 5 minutes of additional recording was permitted).

Following the 30-minute (up to 5 minutes of additional recording was permitted [see protocol amendment, dated 27 Mar 2013, Appendix 16.1.1]) period of baseline data recording, a marker was placed on the recording trace to identify the end of the baseline period. For subjects in the Validation Phase of the study, data recording was halted whilst subjects consumed a high fat meal, and data recording resumed immediately after completion of the meal and continued for 4 hours 15 minutes. For subjects in the Clinical Phase of the study, data continued to be recorded (see protocol amendment, dated 10 Jan 2013, Appendix 16.1.1). Subjects were provided with a standardised high fat meal of a medium McDonalds Quarter Pounder with cheese meal (including fries) which contained 5.17 g/100 g of saturated fat and 820 calories. A pre-defined amount of food was provided to all subjects. To account for differences in subject size and sex, meals were weighed before and after eating, subjects were instructed to complete the meal, or if not possible, to eat until full.

Following completion of the meal, a marker was placed on the tracing to indicate the start of the post-meal recording period. pH and impedance data recording (continued throughout the consumption of the meal and then [see protocol amendment, dated 10 Jan 2013, Appendix 16.1.1]) for a period of 4 hours 15 minutes during the Validation Phase and for 4 hours during the Clinical Phase.

Fifteen minutes after completion of the meal, subjects in the Clinical Phase were dosed with Gaviscon® Double Action Aniseed Liquid (20 ml), Gaviscon® Advance Aniseed Liquid (10 ml), Placebo Aniseed Liquid (20 ml) or remained untreated as defined in the randomisation schedule.

## **9.5.4 Safety Variables**

### **9.5.4.1 Overview of Safety Variables**

Safety was assessed on the basis of the following variables:

- AEs.
- Clinical laboratory investigations.
- Vital signs.
- Physical examinations.

#### **9.5.4.2 Methods of Safety Assessment**

Methods of safety assessment are discussed for AEs (Section 9.5.5), clinical laboratory investigations (Section 9.5.6), vital signs (Section 9.5.7) and physical examinations (Section 9.5.8).

## **9.5.5 Adverse Events**

During the Validation Phase no study treatment was administered, however adverse device events (ADEs) were still recorded in order to monitor any untoward medical occurrence associated with catheter insertion and clipping.

An AE was defined as any untoward medical occurrence in a patient or clinical study subject administered a medicinal product or medical device and which did not necessarily have a causal relationship with this treatment. An AE could therefore be any unfavourable and unintended sign (including an abnormal laboratory finding), symptom, or disease temporally associated with the use of an IMP, whether or not considered related to the IMP.

An adverse reaction (AR) to an IMP was defined as all untoward and unintended responses to an IMP related to any dose administered. All AEs judged by either the reporting Investigator or the sponsor as having a reasonable causal relationship to a medicinal product qualified as ARs. The expression reasonable causal relationship meant to convey in general that there was evidence or argument to suggest causal relationship.

ADEs were defined as any untoward and unintended response to a medical device. This definition included any event resulting from insufficiencies or inadequacies in the instructions for use or the deployment of the device, the operation, or any malfunction of the investigational medical device, or any event that was a result of a user error.

Device deficiencies included malfunctions, misuse or user errors, labelling errors that did or could have led to an AE or ADE irrespective of whether the device was used or not.

Inadequacy of a medical device related to its identity, quality, durability, reliability, safety or performance, such as malfunction, misuse or use error and inadequate labelling.

SAEs were defined as any untoward medical occurrence that at any dose: resulted in death, was life-threatening, required hospitalisation or prolongation of existing hospitalisation, resulted in persistent or significant disability/incapacity, was a congenital anomaly/birth defect. Life-threatening in the definition of an SAE or serious AR referred to an event in which the subject was at risk of death at the time of the event; it did not refer to an event which hypothetically might have caused death if it were more severe.

Serious ADE (SADE) was defined as an ADE that resulted in any of the consequences characteristic of an SAE or that might have led to death or a serious deterioration in the health of a subject or any other person if suitable action had not been taken. The definition of SADE included incidents and near incidents.

Any untoward medical events that occurred after informed consent, but prior to administration of study treatment were recorded in the subject's medical history and were not reported as an AE. All AEs/ADEs that occurred after the subject had received study treatment were recorded in the subject's CRF. AEs/ADEs were reported spontaneously by the subject or in response to questioning or observation by the Investigator or were a significant laboratory abnormality.

The PI or designee asked the subject: "Are you experiencing any symptoms or complaints?" at the baseline visit and "Have you had any symptoms or complaints since the last visit?" during the study.

AEs/ADEs were recorded according to the criteria given in Table 9-4. Relationship to study treatment was determined by the Investigator.

Assessments of the relationship of AEs/ADEs to study treatment were made by the Investigator.

**Table 9-4 Rating Systems Used to Determine Adverse Event/Adverse Device Event Intensity and Relationship to IMP**

| Variable                                  | Category | Definition  |
|---|----------|---|
| Intensity                                 |          | Intensity was determined by the Investigator. For symptomatic AEs/ADEs the following definitions were applied, but medical experience and judgement were also to be used in the assessment of intensity.  |
|   | Mild     | The AE/ADE did not limit usual activities; the subject may have experienced slight discomfort.  |
|   | Moderate | The AE/ADE resulted in some limitation of usual activities; the subject may have experienced significant discomfort.  |
|   | Severe   | The AE/ADE resulted in an inability to carry out usual activities; the subject may have experienced intolerable discomfort or pain.   |
| Relationship to study treatment or device | Definite | An AE/ADE that followed an anticipated response to the study treatment; and that was confirmed by both improvement upon stopping the study treatment (dechallenge), and reappearance of the reaction on repeated exposure (rechallenge).<br><br>Strong evidence existed that the investigational device caused the AE. There was a temporal relationship between the event onset and administration of the investigational device. There was strong mechanistic evidence that the event was caused by the investigational device. The subject's clinical state and concomitant therapies had been ruled out as a cause. |
|   | Probable | An AE/ADE that followed a reasonable temporal sequence from administration of the study treatment, that was an anticipated response to the study treatment; and that could not be reasonably explained by the known characteristics of the subject's clinical state or concomitant therapy.<br><br>A temporal relationship existed between the event onset and administration of investigational device, and appeared with some degree of certainty to be related based on known mechanism of action of the device. It cannot be readily explained by the subject's clinical state or concomitant therapies.            |

**Table 9-4 Rating Systems used to Determine Adverse Event/Adverse Device Event Intensity and Relationship to IMP**

| Variable                                  | Category | Definition   |
|---|----------|--|
| Relationship to study treatment or device | Possible | An AE/ADE that followed a reasonable temporal sequence from administration of the study treatments; that may be an anticipated response to the study treatment; but that could have been produced by the subject's clinical state or concomitant therapy.<br><br>A temporal relationship existed between the event onset and administration of investigational device. Although the ADE appeared unlikely to be related to the investigational device, it cannot be ruled out with certainty; and or the event cannot be readily explained by the subject's clinical state or concomitant therapies. |
|   | Unlikely | An AE/ADE that did not follow an anticipated response to the study treatment or device; which may be attributable to other than the study treatment or device, and that was more likely to have been produced by the subject's clinical state or concomitant therapy.  |
| Relationship to study treatment or device | None     | An AE/ADE that was known beyond all reasonable doubt to be caused by the subject's state or concomitant therapy.<br><br>Evidence existed that the AE/ADE definitely had a cause other than the investigational device (e.g. pre-existing condition or underlying disease, intercurrent illness, or concomitant medication) and did not meet any other criteria listed.   |

The procedures for reporting AEs/ADEs and SAEs/SADEs are described in Sections 13.1.3 to 13.1.5 of the protocol and procedures for subjects who experienced onset of AEs after completion of the study are detailed in Section 13.1.6 of the protocol (Appendix 16.1.1).

All SAEs/SADEs, and all AEs/ADEs which caused premature withdrawal of the subject from the study, that had not resolved by the end of the study, were followed up by the Investigator until resolution or until the Investigator believed there was no further change. This could have involved the subject making additional visits to the CPU. All other AEs (including clinically significant laboratory abnormalities) were followed up wherever possible to resolution or until the Investigator believed there was no further change, whichever was the earlier.

## 9.5.6 Clinical Laboratory Investigations

Samples for haematology, biochemistry and urinalysis assessments were collected at screening and follow-up. Alcohol, drugs of abuse tests and pregnancy tests were performed at screening and on Day 1 of each treatment period.

The following haematology, biochemistry and urinalysis parameters were assessed:

### Haematology

- Haemoglobin (g/L).
- Red blood cell count ( $10^{12}/L$ ).
- White blood cells ( $10^9/L$ ).
- Platelets ( $10^9/L$ ).
- Differential white cell count ( $10^9/L$ ), neutrophils, lymphocytes, monocytes, basophils and eosinophils.

### Biochemistry

- Blood urea nitrogen (mmol/L).
- Creatinine ( $\mu\text{mol}/L$ ).
- Alanine transaminase (ALT) (IU/L or U/L).
- Aspartate transaminase (AST) (IU/L or U/L).

### Urinalysis

- Blood (positive or negative).
- Protein (positive or negative).
- Urine pregnancy test for females of childbearing potential.
- Drugs of abuse (positive or negative for: opiates, amphetamine, cannabinoids, cocaine, barbiturates, benzodiazepines, methadone).

Blood samples were collected and labelled in tubes provided by the ICON Clinical Pathology laboratory. Urine samples were collected and labelled in containers, provided by the CPU, at the screening as well as treatment visits. ICON's standard labelling was used.

The laboratory conducting the analysis in this study was accredited by the United Kingdom Accreditation Service and provided documented evidence of suitable accreditation for the laboratory to conduct testing. The Investigator reviewed the results and commented, on the laboratory results sheet, on all abnormal values, identifying those that were clinically significantly abnormal. The Investigator signed and dated the laboratory results sheet, to indicate that the review had taken place.

### **9.5.7 Vital Signs**

Standard methods at the CPU were used for evaluating vital signs. Vital signs (systolic blood pressure, diastolic blood pressure, heart rate and oral temperature) were measured at screening, on admission to the CPU, on Day 3 and follow-up.

### **9.5.8 Physical Examinations**

A standard physical examination (general appearance, ears, nose and throat, neck and thyroid, eyes, heart, lungs, abdomen, extremities, dermatological and neurological) was performed at screening and follow-up.

### **9.5.9 Appropriateness of Measurements**

Although assessment of pH is a standard method for the measurement of antacid effects, this study used a novel catheter containing 11 pH electrodes. More details of the catheter are provided in Appendix 1 of the study protocol (Appendix 16.1.1).

However, due to the high number of minor protocol deviations occurring during the clinical phase, RB decided to hold an additional data review meeting (following database lock and after the study had been unblinded) which included 2 key experts in the area of Gastroenterology to assess the appropriateness of measurements taken (see additional RB data analysis report).

### **9.5.10 PH and Impedance Variables**

PH and Impedance was assessed on the basis of the following variables:

Primary pH and impedance variable:

- The primary endpoint was the percentage of time that the electrode 5 cm above the SCJ was pH < 4 over a period of 2 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid.

Secondary pH and impedance variables:

pH change:

- Percentage of time that the electrode 5 cm above the SCJ was pH < 4 over a period of 2 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus the untreated state.
- Percentage of time that the electrode 5 cm above the SCJ was pH < 4 over a period of 4 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.
- Percentage of time that the electrode 5 cm above the SCJ was pH < 4 over a period of 2 hours following treatment with Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.
- Percentage of time that the electrode 5 cm above the SCJ was pH < 4 over a period of 4 hours following treatment with Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.
- Percentage of time that each electrode was pH ≤ 4 at 15, 30, 45, 60, 75 and 90 minutes following ingestion of each test product at electrodes 4 to 11 inclusive.
- Mean percentage of time with pH < 4 at electrodes 1, 2 and 3 during each of the four 1-hour periods for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.
- Mean percentage of time with pH < 4 at electrodes 1, 2 and 3 during the 4-hour period for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.
- Mean percentage of time with pH < 4 at the electrodes within the cardia (electrodes 4 to 7) during each of the four 1-hour periods for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.

Reflux events as identified with impedance monitoring:

- Total number of (i) liquid, (ii) gas and (iii) mixed reflux episodes occurring in the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.

- Total number of (i) acid and (ii) weakly acidic reflux episodes occurring in the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.
- Number of reflux episodes reaching 15 cm above the LOS during the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.
- Oesophageal bolus exposure to reflux (percentage time with liquid or mixed reflux within the oesophageal lumen) for each test product versus the untreated state during the 2- and 4-hour period following ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the untreated state.

### **9.5.11 Drug Concentration Measurements**

Drug concentrations were not measured in this study.

### **9.6 Data Quality Assurance**

The Investigator was responsible for the quality of the data recorded in the CRF. The data recorded were to be a complete and accurate account of the subject's record collected during the study. The Investigator and study monitor identified any data that were recorded directly on the CRF such that the CRF was considered the source document (i.e. no prior written or electronic record of the data). The study monitor documented this in the signed Source Data Verification (SDV) Plan.

The Investigator reviewed all entries for completeness and correctness. When changes or corrections were made on any CRF, the Investigator or authorised persons drew a single line through the error then initialled and dated the correction, as well as stating the reason for the error, except when due to a transcription error. The original entry was not to be obscured.

The Investigator completed and signed the CRFs in a timely fashion after completion of each subject and made them available to the study monitor for full inspection. In addition, any data queries prepared after the original CRF had been completed were answered promptly. Before acceptance, the study monitor reviewed the CRFs for completeness and adherence to the protocol.

On-site monitoring also included SDV. SDV is the procedure whereby the data contained in the CRFs are compared with the primary source data (e.g. patient notes, original recordings from automated instruments, X-ray films, electrocardiogram tracings, and laboratory results) contained in the subject records held at the investigational site, and thereby verified as accurate.

Data management was performed by ICON Development Solutions in accordance with internal Standard Operating Procedures (SOPs). The ICON Development Solutions data management system in SAS® (Version 9.1.3) was used to database study data necessary for the preparation of the final clinical study report<sup>12</sup>. A study-specific database specification document was produced and the study database set-up validated and approved ready for data entry by the director of data management. A validation plan was also produced that detailed what electronic checks were performed. Data were entered using double data entry, followed by electronic compare and validation. SAS programs were used to manipulate the data into the correct format for summarising and listing in Rich Text File (rtf) tables and listings.

ICON Development Solutions' activities were audited on both a study-specific and system basis. A risk assessment was conducted for this study to focus quality assurance (QA) activity appropriately. A study-specific QA audit program was developed for this study and involved the observation of study procedures and data collection, and the confirmation of accuracy of the final report to raw data. For all audits, comparison to national or international regulatory standards, SOPs and the study protocol was involved.

Audits were documented in a report, discussed with managers and actions closely followed up. Work not conducted at ICON Development Solutions that was subcontracted by ICON was not audited by the QA department, unless explicitly arranged in the contract.

The clinical study report was subject to a GCP compliance audit, conducted by ICON QA. The audit certificates are provided in Appendix 16.1.8.

## 9.7 Statistical Methods Planned in the Protocol and Determination of Sample Size

### 9.7.1 Statistical and Analytical Plans

Details of the statistical analyses are described in the final statistical analysis plan (SAP), which was approved before database lock on 23 Aug 2013. Inconsistencies were found between the database and the deviation log (see Appendix 16.2, Section 16.2.2). The database was opened on 09 Oct 2013 to add the additional comments and comments pages containing the missing protocol deviations, and was re-locked on 14 Oct 2013. A copy of the final SAP is available in Appendix 16.1.9. Changes in the planned analyses between the study protocol and the SAP are described in Section 9.8.2.

#### 9.7.1.1 General

All statistical analyses were performed using SAS<sup>®</sup> (Version 9.1.3). Unless otherwise specified, descriptive data summaries of continuous outcomes included number of subjects with observations (n), mean, standard deviation (SD), median, minimum, maximum and coefficient of variation (CV%). CV% was not presented for change from baseline data. Categorical outcomes are summarised by number and percent of subjects.

All hypothesis tests were performed using the 5% significance level unless otherwise specified. As this was an exploratory study, no adjustments for multiple comparisons were made.

All clinical data collected in CRFs are listed including data not presented in tables. As appropriate, missing values were marked and explained in individual data tables.

Missing data were not imputed and all analyses were based on observed cases. No subgroup analysis was planned.

#### 9.7.1.2 Study Populations

**All subjects population:** all subjects recruited on to the study were included in the all subjects population for presentation of information on subject disposition, withdrawals and protocol deviations.

**Safety population:** all subjects who were recruited on to the study and took part in the Clinical Phase or were subjected to any invasive study procedure were included in the safety population. This population was used for safety analyses and demographics.

**Intention to treat (ITT) population:** all subjects who were recruited on to the study and took part in the Clinical Phase and had any pH data were included in the ITT population.

**Per protocol (PP) population:** all subjects who were recruited on to the study, met the requirements of the ITT population, had adequate treatment compliance (where appropriate) and no major protocol deviations were included in the PP population. Exclusions from this population were decided during a blind data review meeting prior to database lock. This population was used for additional analysis of pH and impedance endpoints.

Unless otherwise specified, listings were produced for all subjects, including those from the Validation Phase.

### 9.7.1.3 Baseline, Screening and Compliance with Study Procedures

The following demographic data are listed and summarised descriptively:

- Age (in years, at time of signing informed consent).
- Sex.
- Race (categorised as: Caucasian, Asian, Afro-Caribbean and Other).
- Height (cm).
- Weight (kg).
- Body mass index ( $\text{kg/m}^2$ ).

Past and current medical history was coded using the Medical Dictionary for Regulatory Activities (MedDRA), Version 15.0 and listed for the safety population<sup>13</sup>.

Summaries of analysis populations, subject disposition and the number of subjects on study at each visit are provided. These data summaries are presented by study phase and contain the following information:

- Number of subjects randomised.
- Number and percent of subjects who received each treatment.
- Number and percent of subjects who completed the treatment, number and percent of subjects who completed the study.

- Number and percent of subjects who discontinued early and reason for early discontinuation.
- Number and percent of subjects in the all subjects, safety and PP analysis populations.
- Number and percent of subjects at each visit.

Excluded subjects are documented, together with the reason for exclusion.

All major protocol deviations that had an effect on the analysis populations are listed by subject, if applicable.

#### **9.7.1.4 Analysis of pH and Impedance Data**

##### **9.7.1.4.1 Analysis of pH and Reflux Data**

Subject pH levels at each electrode are available in SAS datasets. The calculated percentage of time endpoints described are listed. Results from the impedance monitoring (worksheet only) are listed.

The pH and impedance endpoints described in Section 9.5.10 are listed and summarised descriptively.

All hypothesis tests were performed using the 5% significance level. As this was an exploratory study, no adjustments were made for multiple comparisons.

Analyses of pH and reflux (impedance) data were performed using the ITT population and, if necessary, the PP population.

As a result of the high number of negative readings being observed upon review of pH measurements, ICON requested Synmed and Sandhill Scientific to conduct a review of pH data recorded during the Validation and Clinical Phases of the study. This was completed by Chris Blyth (Managing Director, Synmed Ltd) and Tom Stuebe (VP, Technology Development, Sandhill Scientific, Inc.).

The main issues noted during the review were temperature compensation not being applied (user error), power loss (due to the computer being turned off in error) and calibration data not corresponding exactly to pH values recorded at the start of the recording (pH values had not stabilized during the initial calibration).

Tom Stuebe performed repairs to the affected pH data files. These are outlined in the Note to File in Appendix 16.1.1.

The pH data repairs resulted in changes in the numbers of acid and weakly acid reflux episodes in a small number of subjects and are also summarised in a Note to File in Appendix 16.1.1.

### **9.7.1.5 Statistical Analysis of pH and Impedance Endpoints**

#### **9.7.1.5.1 Primary pH and Impedance Analysis**

For the primary endpoint, the contrast between treatments was compared using an analysis of variance (ANOVA) model, incorporating all treatments and including fixed effects for baseline (the parameter calculated over the last 30 minutes of the defined baseline period), treatment, treatment period (1 or 2) and treatment day (2 or 3) and a random effect for subject. The difference between Gaviscon® Double Action Aniseed Liquid and Placebo Aniseed Liquid was estimated from this model using least squares means (LS means), and is presented along with the 95% confidence interval (CI) for this estimate.

#### **9.7.1.5.2 Secondary pH and Impedance Analysis**

For each secondary endpoint, the relevant contrasts between treatments were compared using an ANOVA model incorporating all treatments and including fixed effects for baseline (the parameter calculated over the last 30 minutes of the defined baseline period), treatment, treatment period (1 or 2), treatment day (2 or 3) and a random effect for subject. The difference between Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid and Placebo Aniseed Liquid or the untreated state was estimated from this model using LS means, and presented along with the 95% CI for the estimate.

#### **9.7.1.5.3 Exploratory pH and Impedance Analyses**

As an exploratory analysis, 2 separate models were fitted as for the primary analysis with added interaction terms for, firstly, treatment by treatment period and, secondly, treatment by treatment day. The estimates for the Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid were presented overall and by treatment period (or treatment day) and the p-values for each model term also presented. This analysis was performed using both populations.

Results from further exploratory analyses of the data are not reported within this clinical study report.

### 9.7.1.6 Analysis of Safety Data

Unless otherwise specified, repeated measurements and unscheduled assessments are included in the data listings but are not included in data summaries.

#### 9.7.1.6.1 Adverse Events

All AEs and ADEs recorded on the CRF during the study were coded to system organ class (SOC) and preferred terms (PT) using MedDRA, Version 15.0.

All AEs were classified as treatment-emergent (TEAE) if the AE was not present prior to administration of study treatment in the first study period of the Clinical Phase and started at or after the time of the first administration of study treatment, or if the AE presented prior to first administration of study treatment, continued, and increased in intensity after administration of study treatment.

TEAEs were allocated to the last treatment received (Gaviscon<sup>®</sup> Double Action Aniseed Liquid, Gaviscon<sup>®</sup> Advance Aniseed Liquid or Placebo Aniseed Liquid), or else were classified as an ADE.

AEs occurring whilst the subject had been randomised to the untreated state were classified as either emergent to the previous treatment or, if prior to Day 3 of Period 1, as an ADE.

TEAEs are listed by treatment. These listings detail the MedDRA SOC and PT, CRF description, onset and resolution dates and times, duration of AE, time of onset relative to last dose of study treatment, intensity, outcome, serious or not serious including serious criteria, relationship to study treatment and any action taken.

TEAEs are summarised and tabulated by treatment, giving intensity and causal relationship to study treatment. Any SAEs, AEs with outcome of death and AEs that resulted in discontinuation of treatment were to be listed separately.

The overall incidence of TEAEs (number and percentage of subjects) as well as the number of events are summarised by study treatment and overall, categories of degree of intensity, SAEs, causally related TEAEs and SAEs, TEAEs leading to discontinuation of treatment, life-threatening SAEs and SAEs resulting in death.

TEAEs are summarised and tabulated at both the subject (number [%] of subjects) and event (number of events) level:

- By treatment, SOC and PT.

- By treatment, SOC, PT and maximum reported intensity.
- By treatment, SOC, PT and causal relationship to study drug.

For the incidence at the subject level by SOC and PT, if a subject experienced more than one event within the same SOC and PT during a treatment period, only one occurrence was included in the incidence for that treatment.

For the incidence at the subject level by SOC, PT and intensity, if a subject experienced more than one event within the same SOC and PT, only the most severe occurrence was included in the incidence.

AEs reported during the Validation Phase, AEs that were not treatment-emergent, and ADEs are listed.

#### **9.7.1.6.2 Clinical Laboratory Assessments**

Clinical laboratory values (haematology, biochemistry and urinalysis) are listed for each subject by study phase. Each pre-study screening baseline laboratory value was classified as low, normal, or high, based on the reference range. All low and high values are listed separately, together with associated repeats, giving an assessment of clinical significance. Any clinical laboratory comments are also included in the data listings.

Alcohol, drugs of abuse, virology and urine pregnancy test results are also listed.

#### **9.7.1.6.3 Vital Signs**

Vital signs data are listed by study phase and subject at each timepoint. Out of range vital signs values are flagged in the data listings.

For the Clinical Phase, at each post-dose measurement of vital signs, summary statistics for the absolute vital sign value are presented by treatment and overall.

#### **9.7.1.6.4 Physical Examination**

Abnormalities in physical examination findings are listed by subject and visit.

#### **9.7.1.6.5 Concomitant Medication**

Pre-study and concomitant medications were classified according to the World Health Organisation Drug Dictionary (Version Mar2012) Anatomical Therapeutic Chemical code levels 2 to 4 and summarised overall.

## 9.7.2 Determination of Sample Size

As this was a pilot study, no formal sample size calculation was performed due to the experimental nature of the study. Eight subjects were considered to be sufficient for the Validation Phase. Sixteen subjects were considered to be sufficient to meet the objectives of the Clinical Phase of the study. Therefore approximately 32 subjects were to be recruited and randomised to aim to have 16 complete. Up to 2 subjects were assessed per day. This was a pilot study intended to provide estimates of effect size and variance for use in later studies.

## 9.8 Changes in the Conduct of the Study or Planned Analysis

### 9.8.1 Changes in the Conduct of the Study

Three substantial and 5 non-substantial protocol amendments were issued during the course of the study. No amendments were implemented prior to documented ethics approval being received. The study protocol and amendments are included as Appendix 16.1.1.

#### Substantial Protocol Amendment No. 1 (dated 19 Oct 2012)

The protocol amendment was implemented to incorporate changes to the protocol template within the RB SOP (D0365585 Protocol and CRFs for Investigational Studies), to add additional investigational sites, to update the PL number of product and to correct a number of minor typographical errors in the final study protocol (dated 01 Jun 2012).

The following changes were made:

- Section 5.2 (Investigational Sites): The Spire Manchester Hospital and BMI Alexandra Hospital were added as sites where the HiRM, pH and impedance catheter insertion and clipping could be performed.
- Section 10.2 (Exclusion criterion No. 17): The definition of adequate contraceptive precautions was added to the exclusion criterion.
- Section 11.2.2 (Schedule of Assessments): The schedule of assessments was updated to indicate that pH and impedance recordings were performed on Day 3 as well.
- Section 11.5.1 (Catheter Insertion): The text was adjusted to make provision for the additional hospitals where the endoscopic procedures could be performed.
- Section 11.9 (Study-specific Supplies): The text was adjusted to make provision for the additional hospitals where the endoscopic procedures could be performed.

- Section 12.4 (Packaging): The text was corrected to indicate that sufficient drug supplies were packaged for 32 subjects (16 subjects and 16 replacements).
- Section 13.1.2 (Information to be Collected on Adverse Events/Adverse Device Events): Text was added to clarify that any untoward medical events that occurred after informed consent but prior to IMP administration was to be recorded in the subject's medical history and not reported as an AE.
- Section 13.2 (Overdose/Medication Errors): The procedures around overdose and medication errors were clarified.
- Section 13.3 (Pregnancy): It was clarified that pregnancy should be reported to RB as an AE.
- Product Licence Number Clarification: It was clarified that the Gaviscon<sup>®</sup> Advance Aniseed Liquid provided to ICON Development Solutions for this study was PL00063/0097.

#### Substantial Protocol Amendment No. 2 (dated 01 Feb 2013)

The protocol amendment was implemented to include the change of PI, provide flexibility in which clips were used during the study, the addition of the use of xylocaine spray during the HiRM, replacement of the diagram in Appendix 1 and to correct a number of minor typographical errors in the final study protocol (dated 01 Jun 2012).

The following changes were made:

- Section 5.2 (Investigational Sites): The PI for the study was changed to Dr Peter Dewland.
- Section 11.5.1 (Catheter Insertion): It was clarified that the standard haemostatic metal clips to be used during the study could be either HX-600-090, Olympus, or similar and that the endoscopic clip-fixing device could be either HX-5LR-1, Olympus, or similar.
- Section 11.3.2 (Assessment of Hiatus Hernia using HiRM): It was added that xylocaine spray was available for use if required for the comfort of subjects.
- Section 14.2 (Data to be Analysed): It was clarified that data from subjects in the Validation Phase of the study were not being analysed according to the study endpoints and the typographical error (inclusion of the words 'Validation Phase') was corrected.

- Section 14.5.4.1 (Subjects who are Withdrawn from the Study): It was clarified that data from subjects in the Validation Phase of the study were not included in the safety population and the typographical error (inclusion of the words 'Validation Phase') was corrected.
- Appendix 1: The diagram was replaced with a version drawn to scale to clarify (and aid) taping of the catheter.

#### Substantial Protocol Amendment No. 3 (dated 17 Apr 2013)

The following change was made:

- Section 5.2 (Investigational Sites): The PI for the study was changed to Dr Pui Leung.

#### Non-substantial Protocol Amendment No. 1 (dated 03 Aug 2012)

The protocol amendment was implemented to clarify a minor typographical error in the final study protocol (dated 01 Jun 2012).

The following changes were made:

- Section 6 (Introduction): It was clarified that subjects in the Validation Phase of the study will undergo 3 fluoroscopic assessments.

#### Non-substantial Protocol Amendment No. 2 (dated 25 Sep 2012)

This protocol amendment was initially implemented to cover some of the topics described for the substantial amendment (dated 19 Oct 2012) described above.

#### Non-substantial Protocol Amendment No. 3 (dated 14 Dec 2012)

The protocol amendment was implemented to clarify minor typographical errors in the final study protocol (dated 01 Jun 2012).

The following changes were made:

- Section 12.6 (Accountability of IMP): It was clarified that the study treatment should be stored below 25°C and that the sponsor was to be notified if the temperature fell outside of the specified range of 15°C to 25°C.

#### Non-substantial Protocol Amendment No. 4 (dated 10 Jan 2013)

The protocol amendment was implemented to clarify details surrounding the recording of data during the refluxogenic meal as described in the final study protocol (dated 01 Jun 2012).

The following changes were made:

- Section 11.5.3 (Refluxogenic Meal): It was clarified that the recording of data continued in order to gain an understanding of pH and impedance readings during meal consumption. The study endpoints were not changed, however, this data would be available if required for an ad hoc analysis at the end of the study.

#### Non-substantial Protocol Amendment No. 5 (dated 27 Mar 2013)

The protocol amendment was implemented to include the change in RB medical officer and to clarify details surrounding the recording of data during the refluxogenic meal as described in the final study protocol (dated 01 Jun 2012).

The following changes were made:

- Section 5.1 (Reckitt Benckiser Details): The medical officer for RB was changed to Dr Richard Littlewood.
- Section 9.5.2 (Clinical Phase): It was clarified that up to 5 minutes of additional recording would be permitted.
- Section 11.5.2 (Baseline Assessments): It was clarified that up to 5 minutes of additional recording would be permitted.
- Section 11.5.3 (Refluxogenic Meal): It was clarified that up to 5 minutes of additional recording would be permitted.

- Section 11.6.1 (Clinical Assessments): It was clarified that up to 5 minutes of additional recording would be permitted.
- Section 14.4 (pH and Reflux Analysis): It was clarified that for all parameters, a baseline value would be calculated prior to each treatment, and would be the equivalent parameter calculated over the last 30 minutes of the defined baseline period. It was also clarified that all hypothesis tests would be performed using the 5% significance level.
- Section 14.4.3 (Statistical Methods for pH and impedance Analysis): It was clarified that “for baseline” refers to the parameter calculated over the last 30 minutes of the defined baseline period.

## 9.8.2 Changes in the Planned Statistical Analysis of the Study

There were no changes to the conduct of the study as described in the protocol (Version 5, 17 April 2013). The ITT population described in the final SAP (Version 1.3, 23 August 2013) is additional to the populations planned in the protocol and the Data Complete population has been decided as not required due to the amount of missing data.

## 10 STUDY SUBJECTS

The locations of all tables, figures, and listings pertinent to Section 10 are provided in Table 10-1.

**Table 10-1 Location of Tables and Listings for Subject Disposition and Protocol Deviation Data**

| Data                             | Location           |                   |
|----------------------------------|--------------------|-------------------|
|                                  | Tables and Figures | Listings          |
| Disposition of Subjects          | Table 14.1.1       | Appendix 16.2.1.1 |
| Visit Dates                      | -                  | Appendix 16.2.1.2 |
| Protocol Deviations              | -                  | Appendix 16.2.2.1 |
| Number of Subjects at Each Visit | Table 14.1.3       | Appendix 16.2.1.2 |
| Eligibility Criteria             | -                  | Appendix 16.2.4.2 |
| Consent Information              | -                  | Appendix 16.2.5.1 |
| Screening Outcome                | -                  | Appendix 16.2.5.2 |
| Randomisation Number Allocation  | -                  | Appendix 16.2.5.8 |

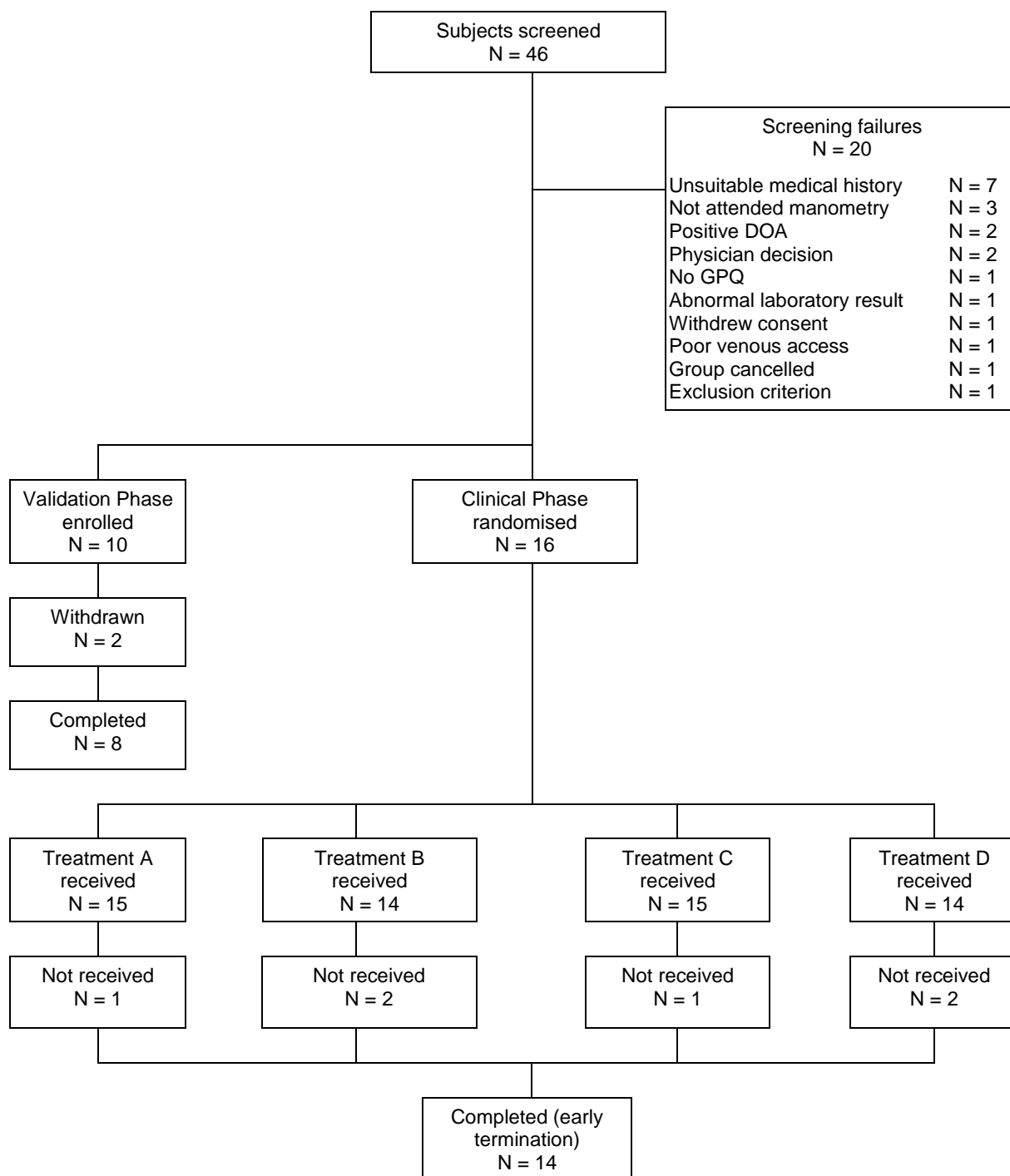
## 10.1 Disposition of Subjects

A listing of the consent information and screening outcome of all subjects is presented in Appendix 16.2.5, Listing 16.2.5.1 and Listing 16.2.5.2, respectively. A listing of all subjects discontinued from the study after enrolment is presented in Appendix 16.2.1, Listing 16.2.1.1. A listing of visit dates for all subjects is presented in Appendix 16.2.1, Listing 16.2.1.2. A summary of the number of subjects at each visit is presented in Section 14, Table 14.1.3.

Ten subjects were enrolled into the Validation Phase of the study, and 8 (80.0%) subjects completed the Validation Phase. Sixteen subjects were randomised onto the Clinical Phase of the study, and 14 (87.5%) subjects completed the Clinical Phase per protocol. Subject C012 was unable to tolerate the tube insertion and was withdrawn from the study prior to dosing. One subject (Subject C011) completed Treatment Period 1, but was withdrawn from the study due to a positive drugs of abuse test on admission to Treatment Period 2 (Day 1) (see Section 11.2.3). The study was terminated early due to quality issues being identified across a number of RB studies and the IEC informed on 11 Jun 2013.

Disposition of subjects is presented in Figure 10–1.

**Figure 10–1 Disposition of Subjects**



Source: Section 14, Table 14.1.1, Appendix 16.2.5, Listing 16.2.5.2

Abbreviations: DOA = drugs of abuse; GPQ = general practitioner's questionnaire; N = number of subjects

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

## 10.2 Protocol Deviations

A listing of individual subjects who deviated from the protocol, and were excluded from study populations, is presented in Appendix 16.2.2, Listing 16.2.2.1. Two protocol deviations were noted that resulted in subjects being excluded from study populations. Subject C011 was excluded from the PP population as the subject failed exclusion criterion number 19. Subject C012 was excluded from the ITT and PP populations as the subject was withdrawn from the study following an AE and received no study treatment (see Section 11.1).

Additional information on minor protocol deviations is included in a Note to File and the protocol deviations log, provided in Appendix 16.2.2. Following a review requested by the MHRA, ICON identified a total of 240 protocol deviations which were reported to RB. RB concluded that the majority (232) of the protocol deviations did not have significant impact on either the scientific value of the study or the safety of the subjects participating in the study. However, RB determined that there had been a significant impact on the safety of 8 subjects where there was no evidence of GP letters being sent to their GPs prior to screening (discovered by RB during a routine co-monitoring visit on 15 Jul 2013). RB reported this to the MHRA as being evidence of a serious breach of GCP. ICON performed a follow up and informed all subjects' GPs. There were no concerns raised by the GPs with regard to their patients' participation in the clinical study and as such ICON and RB determined that no safety issues related to patient safety had arisen.

## 11 PH AND IMPEDANCE EVALUATION

The locations of all tables, figures, and listings pertinent to Section 11 are provided in Table 11-1.

**Table 11-1 Location of Tables and Listings for pH and Impedance Data**

| Topic  | Location           |                   |
|--|--------------------|-------------------|
|  | Tables and Figures | Listings          |
| Data Sets Analysed   | Table 14.1.2       | Appendix 16.2.3.1 |
| Subjects at Each Visit   | Table 14.1.3       | Appendix 16.2.1.2 |
| Demographic and Baseline Characteristics   | Table 14.1.4       | Appendix 16.2.4.1 |
| Medical History  | -                  | Appendix 16.2.4.3 |
| Urine Pregnancy Test   | -                  | Appendix 16.2.4.4 |
| Smoking Status   | -                  | Appendix 16.2.4.5 |
| Hiatus Hernia Assessment   | -                  | Appendix 16.2.4.6 |
| Alcohol Breath Test and Drugs of Abuse Test  | -                  | Appendix 16.2.4.7 |
| Pre-study Medication   | -                  | Appendix 16.2.4.8 |
| Concomitant Medication   | -                  | Appendix 16.2.4.9 |
| Study Treatment Dosing Record  | -                  | Appendix 16.2.5.3 |
| Meal Time and Fasting  | -                  | Appendix 16.2.5.4 |
| Catheter Insertion and Removal   | -                  | Appendix 16.2.5.5 |
| Fluoroscopy  | -                  | Appendix 16.2.5.6 |
| pH and impedance Start and Stop Times  | -                  | Appendix 16.2.5.7 |
| Individual pH Endpoints  | -                  | Appendix 16.2.6.3 |
| Individual Missing pH Response Data  | -                  | Appendix 16.2.6.4 |
| Summary of Primary and Secondary Endpoints (ITT population)  | Table 14.2.1.1     | -                 |
| Summary of Primary and Secondary Endpoints (PP population)   | Table 14.2.1.2     | -                 |
| Statistical Analysis of Primary Endpoint   | Table 14.2.2.1     | -                 |
| Exploratory Analysis 1 of Primary Endpoint   | Table 14.2.2.2     | -                 |
| Exploratory Analysis 2 of Primary Endpoint   | Table 14.2.2.3     | -                 |
| Statistical Analysis of % of Time that Electrode is pH < 4 Over 2 Hours                                | Table 14.2.2.4     | -                 |
| Statistical Analysis of % of Time that Electrode is pH < 4 Over 4 Hours                                | Table 14.2.2.5     | -                 |
| Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Times                     | Table 14.2.2.6     | -                 |
| Statistical Analysis of Mean % of Time with pH < 4 at Electrodes 1, 2 and 3 during four 1-Hour Periods | Table 14.2.2.7     | -                 |
| Statistical Analysis of Mean % of Time with pH < 4 at Electrodes 1, 2 and 3 Over 4 Hours               | Table 14.2.2.8     | -                 |
| Statistical Analysis of Mean % of Time with pH < 4 at Electrodes 4 to 7 during four 1-Hour Periods     | Table 14.2.2.9     | -                 |
| Individual Reflux Response Data  | -                  | Appendix 16.2.6.2 |

**Table 11-1 Location of Tables and Listings for pH and Impedance Data (Continued)**

| Topic   | Location           |                    |
|---|--------------------|--------------------|
|   | Tables and Figures | Listings           |
| Individual Reflux Endpoints   | -                  | Appendix 16.2.6.5  |
| Statistical Analysis of Number of Liquid, Gas and Mixed Reflux Episodes Occurring in the 2- and 4-Hour Periods  | Table 14.2.2.10    | Appendix 16.1.9.9  |
| Statistical Analysis of Number of Acid and Weakly Acidic Reflux Episodes Occurring in the 2- and 4-Hour Periods | Table 14.2.2.11    | Appendix 16.1.9.10 |
| Statistical Analysis of Number of Reflux Episodes Reaching 15 cm Above the LOS during the 2- and 4-Hour Periods | Table 14.2.2.12    | Appendix 16.1.9.11 |
| Statistical Analysis of Oesophageal Bolus Exposure to Reflux during the 2- and 4-Hour Periods                   | Table 14.2.2.13    | Appendix 16.1.9.12 |

## 11.1 Data Sets Analysed

Appendix 16.2.3, Listing 16.2.3.1 contains a tabular listing of all subjects excluded from the analyses. One (6.3%) subject was excluded from the ITT population and 1 (6.3%) subject was excluded from the ITT and PP populations (Section 14, Table 14.1.2).

The strategy for the inclusion/exclusion criteria for each of the datasets analysed was included in the SAP for the study and finalised following discussions of evaluability held before the database had been locked and prior to the blind being broken.

As a result of the high number of negative readings being observed upon review of pH measurements, ICON requested Synmed and Sandhill Scientific to conduct a review of pH data recorded during the Validation and Clinical Phases of the study. This was completed by Chris Blyth (Managing Director, Synmed Ltd) and Tom Stuebe (VP, Technology Development, Sandhill Scientific, Inc.).

The main issues noted during the review were temperature compensation not being applied (user error), power loss (due to the computer being turned off in error) and calibration data not corresponding exactly to pH values recorded at the start of the recording (pH values had not stabilized during the initial calibration).

Tom Stuebe performed repairs to the affected pH data files. These are outlined in the Note to File in Appendix 16.1.1.

The pH data repairs resulted in changes in the numbers of acid and weakly acid reflux episodes in a small number of subjects and are also summarised in a Note to File in Appendix 16.1.1 for more information.

The number of subjects in each of the study populations is shown in Table 11-2.

**Table 11-2 Study Populations**

| <b>Criterion</b>                              | <b>Overall N (%)</b> |
|---|----------------------|
| Number of subjects randomised                 | 16                   |
| Number of subjects in all subjects population | 16 (100.0)           |
| Number of subjects in safety population       | 16 (100.0)           |
| Number of subjects in ITT population          | 15 (93.8)            |
| Number of subjects in PP population           | 14 (87.5)            |

Source: Section 14, Table 14.1.2

Abbreviations: ITT = intention to treat; N = number of subjects; PP = per protocol

## **11.2 Demographic and Other Baseline Assessments**

### **11.2.1 Demographics**

Subject demographics and other baseline characteristics are listed by subject in Appendix 16.2.4, Listing 16.2.4.1 and summarised in Section 14, Table 14.1.4.

Eleven (68.8%) subjects were male and 5 (31.3%) subjects were female, with a mean age of 33.5 years (SD=8.63 years). The range in age for subjects was 20 to 47 years. All but 2 subjects were Caucasian; the race of the remaining subjects was Afro-Caribbean and Asian, respectively (Section 14, Table 14.1.4).

### **11.2.2 Medical History**

Medical history was reported in 4 (40.0%) subjects in the Validation Phase and by 11 (68.8%) subjects in the Clinical Phase of the study (Appendix 16.2.4, Listing 16.2.4.3). Hiatus hernia assessment results are listed by subject in Appendix 16.2.4, Listing 16.2.4.6.

### **11.2.3 Pre-study Medication**

Pre-study medication is listed by subject in Appendix 16.2.4, Listing 16.2.4.8.

Three (30.0%) subjects had used pre-study medication prior to the start of the Validation Phase of the study. All 3 (30.0%) subjects were female, who took hormonal contraceptives.

Six (37.5%) subjects had used pre-study medication prior to the start of the Clinical Phase of the study. Three (18.8%) subjects were female, who took hormonal contraceptives. One (6.3%) subject used a topical application for eczema and 3 (18.8%) subjects used paracetamol.

No subjects had positive drugs of abuse or alcohol breath tests at screening (Appendix 16.2.4, Listing 16.2.4.7). One subject (Subject C011) had a positive drugs of abuse test (cocaine) on admission to Treatment Period 2 (Day 1).

#### **11.2.4 Concomitant Medication**

Concomitant medication is listed by subject in Appendix 16.2.4, Listing 16.2.4.9.

One (10.0%) subject used concomitant medication during the Validation Phase of the study. Subject V003 used 1000 mg of paracetamol for headache.

Six (37.5%) subjects used concomitant medication during the Clinical Phase of the study:

- Subject C007 used 1000 mg of paracetamol for headache during Treatment Period 1. The subject used 1000 mg of paracetamol (on 2 occasions), codeine (unknown dose) and 400 mg of ibuprofen for headache during Treatment Period 2.
- Subject C008 used 500 mg of paracetamol for headache during Treatment Period 1.
- Subject C009 used 1000 mg of paracetamol on 2 occasions for headache during Treatment Periods 1 and 2.
- Subject C011 took 2 tablets of T5 fat burners for weight loss after withdrawal due to a protocol deviation.
- Subject C014 used 1000 mg of paracetamol for headache during Treatment Period 1.
- Subject C015 used 1000 mg of paracetamol for worsening headache and used 400 mg of ibuprofen for lower backache during Treatment Period 2.

#### **11.3 Measurements of Treatment Compliance**

Compliance was not an issue in this study as study treatment was taken by subjects under supervision of appropriately trained staff who conducted a mouth inspection to ensure compliance with dosing. The study treatment dosing record is presented in Appendix 16.2.5, Listing 16.2.5.3 and discussed in Section 12.1.

## **11.4 PH and Impedance Results and Tabulations of Individual Subject Data**

### **11.4.1 Analysis of pH and Impedance**

PH and Impedance analysis data are presented in Appendix 16.2, Listing 16.2.5.5 (catheter insertion and removal record), Listing 16.2.5.6 (fluoroscopy) and Listing 16.2.5.7 (pH and impedance start and stop times). Individual missing pH response data are listed in Appendix 16.2.6, Listing 16.2.6.4. Individual pH endpoints are listed in Appendix 16.2.6, Listing 16.2.6.3 and summarised for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Summaries and statistical assessments of the pH endpoints are presented in Section 14, Table 14.2.2.1 (primary endpoint), Table 14.2.2.2 (exploratory analysis 1 of primary endpoint), Table 14.2.2.3 (exploratory analysis 2 of primary endpoint), Table 14.2.2.4 (% of time that electrode is pH < 4 over 2 hours), Table 14.2.2.5 (% of time that electrode is pH < 4 over 4 hours), Table 14.2.2.6 (% of time that electrode is pH < 4 over various times), Table 14.2.2.7 (mean % of time with pH < 4 at electrodes 1, 2, and 3 during 4 x 1 hour periods), Table 14.2.2.8 (mean % of time with pH < 4 at electrodes 1, 2, and 3 over 4 hours), and Table 14.2.2.9 (mean % of time with pH < 4 at electrodes 4 to 7 during 4 x 1 hour periods).

Individual reflux response data are listed in Appendix 16.2.6, Listing 16.2.6.2. Individual reflux endpoints are listed in Appendix 16.2.6, Listing 16.2.6.5.

Statistical assessments of the reflux endpoints are presented in Section 14, Table 14.2.2.10 (number of liquid, gas and mixed reflux episodes occurring in the 2- and 4-hour periods), Table 14.2.2.11 (number of acid and weakly acidic reflux episodes occurring in the 2- and 4-hour periods), Table 14.2.2.12 (number of reflux episodes reaching 15 cm above the LOS during the 2- and 4-hour periods), and Table 14.2.2.13 (oesophageal bolus exposure to reflux during the 2- and 4-hour periods).

#### **11.4.1.1 Primary pH and Impedance Analysis - Percentage of Time that the Electrode 5 cm above the SCJ was pH < 4 over a Period of 2 Hours Following Treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid**

The primary pH and impedance endpoint was the percentage of time that the electrode 5 cm above the SCJ was pH < 4 over a period of 2 hours following treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid.

The primary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

The statistical assessment of percentage of time that pH < 4 over a period of 2 hours by treatment and study population for the electrode 5 cm above the SCJ is summarised in Table 14.2.2.1 and presented in Table 11-3.

No statistically significant difference in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid for either the ITT or PP populations. For the PP population, a reduction in the time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid, with a LS mean difference of -2.1%.

**Table 11-3 Statistical Assessment of Percentage of Time that pH < 4 over a Period of 2 Hours by Treatment and Study Population for the Electrode 5 cm above the SCJ for Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid**

| Pop | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-----|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|     | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| ITT | A          | C   | 15                | 15  | 9.7 (3.50)   | 8.6 (3.50) | 1.1 (-8.9, 11.1)            | 0.821   |
| PP  | A          | C   | 14                | 14  | 6.5 (3.25)   | 8.6 (3.25) | -2.1 (-11.5, 7.2)           | 0.646   |

Source: Section 14, Table 14.2.2.1

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Pop = population; PP = per protocol; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

#### 11.4.1.1.1 Exploratory Analysis 1 of Primary Endpoint - Treatment by Treatment Period Interaction

As an exploratory analysis, a separate model was fitted as for the primary analysis with added interaction terms for treatment by treatment period interaction. The estimates for the Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid were presented overall and by treatment period and the p-values for each model term also presented. This analysis was performed using both populations.

The exploratory analysis 1 of percentage of time that pH < 4 over a period of 2 hours by treatment and study population for the electrode 5 cm above the SCJ is summarised for treatment by treatment period interaction in Table 14.2.2.2 and presented in Table 11-4.

No statistically significant difference in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid during either Treatment Period 1 or 2 for either the ITT or PP populations. For the ITT population, a reduction in the percentage of time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid during Treatment Period 2, with a LS mean difference of -1.2%. For the PP population, reductions in the percentage of time that pH < 4 were observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid during both Treatment Period 1, 2, and overall with LS mean differences of -3.1%, -1.4% and -2.3%, respectively.

**Table 11-4 Statistical Assessment of Percentage of Time that pH < 4 over a Period of 2 Hours by Treatment and Study Population for the Electrode 5 cm above the SCJ for Treatment by Treatment Period Interaction for Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid**

| Pop | N        |         | TP | LS mean (SE) |            | Test - Reference            |         | Model p-values |       |       |       |
|-----|----------|---------|----|--------------|------------|-----------------------------|---------|----------------|-------|-------|-------|
|     | Test (A) | Ref (C) |    | Test         | Ref        | LS mean Difference (95% CI) | p-value | T              | P     | D     | TPI   |
| ITT | 8        | 8       | 1  | 11.2 (4.91)  | 8.1 (4.82) | 3.2 (-10.8, 17.1)           | 0.650   | -              | -     | -     | -     |
|     | 7        | 7       | 2  | 7.8 (5.15)   | 9.0 (5.15) | -1.2 (-15.8, 13.4)          | 0.870   | -              | -     | -     | -     |
|     | 15       | 15      | O  | 9.5 (3.53)   | 8.5 (3.54) | 1.0 (-9.1, 11.1)            | 0.845   | 0.626          | 0.724 | 0.097 | 0.554 |
| PP  | 7        | 7       | 1  | 4.9 (4.74)   | 8.0 (4.62) | -3.1 (-16.6, 10.3)          | 0.642   | -              | -     | -     | -     |
|     | 7        | 7       | 2  | 7.9 (4.62)   | 9.3 (4.62) | -1.4 (-14.6, 11.7)          | 0.827   | -              | -     | -     | -     |
|     | 14       | 14      | O  | 6.4 (3.28)   | 8.7 (3.29) | -2.3 (-11.7, 7.2)           | 0.629   | 0.597          | 0.385 | 0.183 | 0.584 |

Source: Section 14, Table 14.2.2.2

Abbreviations: CI = confidence interval; D = day; ITT = intention to treat; LS = least squares; N = number of subjects; O = overall; P = period; Pop = population; PP = per protocol; Ref = reference; SE = standard error; T = treatment; TP = treatment period; TPI = treatment by period interaction

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period, treatment period x treatment interaction and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

### 11.4.1.1.2 Exploratory Analysis 2 of Primary Endpoint - Treatment by Treatment Day Interaction

As an exploratory analysis, a separate model was fitted as for the primary analysis with added interaction terms for treatment by treatment day interaction. The estimates for the Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid were presented overall and by treatment day and the p-values for each model term also presented. This analysis was performed using both populations.

The exploratory analysis 2 of percentage of time that pH < 4 over a period of 2 hours by treatment and study population for the electrode 5 cm above the SCJ is summarised for treatment by treatment day interaction in Table 14.2.2.3 and presented in Table 11-5.

No statistically significant difference in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid during either Day 2 or Day 3 for either the ITT or PP populations. For the PP population, a reduction in the percentage of time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid on Day 2, with a LS mean difference of -4.8%, and overall (Day 2 and Day 3) of -2.3%.

**Table 11-5 Statistical Assessment of Percentage of Time that pH < 4 over a Period of 2 Hours by Treatment and Study Population for the Electrode 5 cm above the SCJ for Treatment by Treatment Day Interaction for Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid**

| Pop | N        |         | TD | LS mean (SE) |             | Test - Reference            |         | Model p-values |       |       |       |
|-----|----------|---------|----|--------------|-------------|-----------------------------|---------|----------------|-------|-------|-------|
|     | Test (A) | Ref (C) |    | Test         | Ref         | LS mean Difference (95% CI) | p-value | T              | P     | D     | TDI   |
| ITT | 7        | 8       | 2  | 14.1 (5.34)  | 11.4 (4.89) | 2.8 (-11.9, 17.5)           | 0.705   | -              | -     | -     | -     |
|     | 8        | 7       | 3  | 5.5 (4.88)   | 5.6 (5.23)  | -0.1 (-14.5, 14.2)          | 0.985   | -              | -     | -     | -     |
|     | 15       | 15      | O  | 9.8 (3.60)   | 8.5 (3.59)  | 1.3 (-9.0, 11.6)            | 0.797   | 0.593          | 0.735 | 0.100 | 0.903 |
| PP  | 6        | 8       | 2  | 6.8 (5.17)   | 11.6 (4.37) | -4.8 (-18.6, 8.9)           | 0.485   | -              | -     | -     | -     |
|     | 8        | 6       | 3  | 5.7 (4.36)   | 5.5 (5.05)  | 0.2 (-13.2, 13.6)           | 0.975   | -              | -     | -     | -     |
|     | 14       | 14      | O  | 6.2 (3.36)   | 8.5 (3.35)  | -2.3 (-11.9, 7.3)           | 0.632   | 0.623          | 0.392 | 0.188 | 0.843 |

Source: Section 14, Table 14.2.2.3

Abbreviations: CI = confidence interval; D = day; ITT = intention to treat; LS = least squares; N = number of subjects; O = overall; P = period; Pop = population; PP = per protocol; Ref = reference; SE = standard error; T = treatment; TD = treatment day; TDI = treatment by day interaction

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period, treatment day x treatment interaction and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

## 11.4.1.2 Secondary pH and Impedance Analyses

### 11.4.1.2.1 Percentage of Time that the Electrode 5 cm above the SCJ was pH < 4 over a Period of 2 Hours Following Treatment with Gaviscon® Double Action Aniseed Liquid versus the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

The statistical assessment of percentage of time that pH < 4 over a period of 2 hours by treatment and study population for the electrode 5 cm above the SCJ is summarised in Table 14.2.2.4 and presented in Table 11-6.

No statistically significant difference in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with the untreated state for either the ITT or PP populations. For the PP population, a reduction in the percentage of time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with the untreated state, with a LS mean difference of -2.6%.

**Table 11-6 Statistical Assessment of Percentage of Time that pH < 4 over a Period of 2 Hours by Treatment and Study Population for the Electrode 5 cm above the SCJ for Gaviscon® Double Action Aniseed Liquid versus the Untreated State**

| Pop | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-----|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|     | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| ITT | A          | D   | 15                | 14  | 9.7 (3.50)   | 8.8 (3.62) | 0.9 (-9.3, 11.0)            | 0.862   |
| PP  | A          | D   | 14                | 14  | 6.5 (3.25)   | 9.0 (3.24) | -2.6 (-11.8, 6.7)           | 0.582   |

Source: Section 14, Table 14.2.2.4

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Pop = population; PP = per protocol; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment D: Untreated state

### 11.4.1.2.2 Percentage of Time that the Electrode 5 cm above the SCJ was pH < 4 over a Period of 4 Hours Following Treatment with Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

The statistical assessment of percentage of time that pH < 4 over a period of 4 hours by treatment and study population for the electrode 5 cm above the SCJ is summarised in Table 14.2.2.5 and presented in Table 11-7.

No statistically significant difference in the percentage of time that pH < 4 over a period of 4 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations. A reduction in the percentage of time that pH < 4 was observed for Gaviscon® Double Action Aniseed Liquid when compared with the untreated state for the ITT population (LS mean difference of -1.8%) and the PP population (LS mean difference of -4.4%).

**Table 11-7 Statistical Assessment of Percentage of Time that pH < 4 over a Period of 4 Hours by Treatment and Study Population for the Electrode 5 cm above the SCJ for Gaviscon® Double Action Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State**

| Pop | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-----|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|     | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| ITT | A          | C   | 15                | 15  | 7.8 (3.40)   | 6.6 (3.40) | 1.2 (-8.5, 10.9)            | 0.803   |
|     | A          | D   | 15                | 14  | 7.8 (3.40)   | 9.6 (3.52) | -1.8 (-11.7, 8.1)           | 0.716   |
| PP  | A          | C   | 14                | 14  | 5.4 (3.33)   | 6.6 (3.33) | -1.2 (-10.7, 8.4)           | 0.808   |
|     | A          | D   | 14                | 14  | 5.4 (3.33)   | 9.8 (3.33) | -4.4 (-13.9, 5.1)           | 0.357   |

Source: Section 14, Table 14.2.2.5

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Pop = population; PP = per protocol; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

### 11.4.1.2.3 Percentage of Time that the Electrode 5 cm above the SCJ was pH < 4 over a Period of 2 Hours Following Treatment with Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

The statistical assessment of percentage of time that pH < 4 over a period of 2 hours by treatment and study population for the electrode 5 cm above the SCJ is summarised in Table 14.2.2.4 and presented in Table 11-8.

For both populations, a reduction in the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ of approximately 5% was observed for Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid or the untreated state. None of these differences was statistically significant.

**Table 11-8 Statistical Assessment of Percentage of Time that pH < 4 over a Period of 2 Hours by Treatment and Study Population for the Electrode 5 cm above the SCJ for Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State**

| Pop | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-----|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|     | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| ITT | B          | C   | 14                | 15  | 3.5 (3.62)   | 8.6 (3.50) | -5.1 (-15.3, 5.1)           | 0.320   |
|     | B          | D   | 14                | 14  | 3.5 (3.62)   | 8.8 (3.62) | -5.3 (-15.7, 5.0)           | 0.305   |
| PP  | B          | C   | 14                | 14  | 3.4 (3.24)   | 8.6 (3.25) | -5.2 (-14.5, 4.0)           | 0.262   |
|     | B          | D   | 14                | 14  | 3.4 (3.24)   | 9.0 (3.24) | -5.7 (-14.9, 3.6)           | 0.226   |

Source: Section 14, Table 14.2.2.4

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Pop = population; PP = per protocol; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### 11.4.1.2.4 Percentage of Time that the Electrode 5 cm above the SCJ was pH < 4 over a Period of 4 Hours Following Treatment with Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

The statistical assessment of percentage of time that pH < 4 over a period of 4 hours by treatment and study population for the electrode 5 cm above the SCJ is summarised in Table 14.2.2.5 and presented in Table 11-9.

For both populations, a reduction in the percentage of time that pH < 4 over a period of 4 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid (approximate 2% reduction) or the untreated state (5% reduction). None of these differences was statistically significant.

**Table 11-9 Statistical Assessment of Percentage of Time that pH < 4 over a Period of 4 Hours by Treatment and Study Population for the Electrode 5 cm above the SCJ for Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State**

| Pop | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-----|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|     | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| ITT | B          | C   | 14                | 15  | 4.6 (3.52)   | 6.6 (3.40) | -2.0 (-11.9, 7.9)           | 0.683   |
|     | B          | D   | 14                | 14  | 4.6 (3.52)   | 9.6 (3.52) | -5.0 (-15.1, 5.0)           | 0.319   |
| PP  | B          | C   | 14                | 14  | 4.5 (3.33)   | 6.6 (3.33) | -2.0 (-11.6, 7.5)           | 0.672   |
|     | B          | D   | 14                | 14  | 4.5 (3.33)   | 9.8 (3.33) | -5.3 (-14.8, 4.2)           | 0.270   |

Source: Section 14, Table 14.2.2.5

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Pop = population; PP = per protocol; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### **11.4.1.2.5 Percentage of Time that each Electrode was $\text{pH} \leq 4$ at 15, 30, 45, 60, 75 and 90 Minutes Following Ingestion of each Test Product at Electrodes 4 to 11 Inclusive**

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of percentage of time that each electrode (4 to 11 inclusive) was  $\text{pH} \leq 4$  at 15, 30, 45, 60, 75 and 90 minutes following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.6.

For almost all combinations of electrode and timepoints, a reduction in the percentage of time that  $\text{pH} < 4$  was observed for both Gaviscon<sup>®</sup> Double Action Aniseed Liquid and Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with either the Placebo Aniseed Liquid or the untreated state for the ITT population. In the vast majority of cases, these reductions were not statistically significant nor was there any obvious trend as to which electrode/timepoint these reductions were observed.

Similar findings were observed for the PP population (Section 14, Table 14.2.2.6).

#### **11.4.1.2.6 Mean Percentage of Time with $\text{pH} < 4$ at Electrodes 1, 2 and 3 during each of the Four 1-hour Periods for Gaviscon<sup>®</sup> Double Action Aniseed Liquid, Gaviscon<sup>®</sup> Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State**

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of the mean percentage of time that  $\text{pH} < 4$  at electrodes 1, 2 and 3 during four 1-hour periods following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.7 and summarised in Table 11-10.

For both Gaviscon® Double Action Aniseed Liquid and Gaviscon® Advance Aniseed Liquid, there was a trend for a reduction in the mean percentage of time that pH < 4 compared to both Placebo Aniseed Liquid and the untreated state during the 0 to 1-hour period and compared to untreated state during the 1 to 2-hour period for the ITT population, although none of these reductions achieved statistical significance. The greatest reductions of approximately 11% for Gaviscon® Double Action Aniseed Liquid and approximately 9% for Gaviscon® Advance Aniseed Liquid were observed during the 0 to 1-hour period.

Similar findings were observed for the per protocol population (Section 14, Table 14.2.2.7).

**Table 11-10 Statistical Assessments of Mean Percentage of Time that pH < 4 at Electrodes 1, 2 and 3 during Four 1-hour Periods Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| E     | Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |             | Test - Reference            |         |
|-------|-------------|------------|-----|-------------------|-----|--------------|-------------|-----------------------------|---------|
|       |             | Test       | Ref | Test              | Ref | Test         | Ref         | LS mean Difference (95% CI) | p-value |
| 1 - 3 | 0 - 1       | A          | C   | 15                | 15  | 14.0 (5.13)  | 16.3 (5.14) | -2.2 (-16.1, 11.6)          | 0.745   |
|       |             | A          | D   | 15                | 14  | 14.0 (5.13)  | 24.5 (5.32) | -10.5 (-24.7, 3.7)          | 0.143   |
|       |             | B          | C   | 14                | 15  | 15.6 (5.37)  | 16.3 (5.14) | -0.7 (-15.0, 13.7)          | 0.926   |
|       |             | B          | D   | 14                | 14  | 15.6 (5.37)  | 24.5 (5.32) | -8.9 (-23.3, 5.5)           | 0.217   |
|       | 1 - 2       | A          | C   | 15                | 15  | 21.5 (5.47)  | 18.7 (5.48) | 2.9 (-12.0, 17.7)           | 0.694   |
|       |             | A          | D   | 15                | 14  | 21.5 (5.47)  | 24.4 (5.68) | -2.9 (-18.1, 12.4)          | 0.703   |
|       |             | B          | C   | 14                | 15  | 23.3 (5.72)  | 18.7 (5.48) | 4.6 (-10.8, 20.0)           | 0.544   |
|       |             | B          | D   | 14                | 14  | 23.3 (5.72)  | 24.4 (5.68) | -1.1 (-16.6, 14.3)          | 0.881   |
|       | 2 - 3       | A          | C   | 15                | 15  | 22.8 (5.47)  | 12.5 (5.47) | 10.3 (-5.3, 25.9)           | 0.188   |
|       |             | A          | D   | 15                | 14  | 22.8 (5.47)  | 22.5 (5.67) | 0.3 (-15.7, 16.2)           | 0.973   |
|       |             | B          | C   | 14                | 15  | 23.6 (5.71)  | 12.5 (5.47) | 11.2 (-4.9, 27.3)           | 0.168   |
|       |             | B          | D   | 14                | 14  | 23.6 (5.71)  | 22.5 (5.67) | 1.1 (-15.2, 17.4)           | 0.891   |
|       | 3 - 4       | A          | C   | 15                | 15  | 17.9 (4.94)  | 8.8 (4.95)  | 9.1 (-4.8, 23.0)            | 0.192   |
|       |             | A          | D   | 15                | 14  | 17.9 (4.94)  | 21.0 (5.12) | -3.1 (-17.3, 11.1)          | 0.658   |
|       |             | B          | C   | 14                | 15  | 16.4 (5.16)  | 8.8 (4.95)  | 7.6 (-6.7, 21.9)            | 0.289   |
|       |             | B          | D   | 14                | 14  | 16.4 (5.16)  | 21.0 (5.12) | -4.6 (-19.1, 9.8)           | 0.519   |

Source: Section 14, Table 14.2.2.7

Abbreviations: CI = confidence interval; E = electrodes; ITT = intention to treat; LS = least squares; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

### 11.4.1.2.7 Mean Percentage of Time with pH < 4 at Electrodes 1, 2 and 3 during the 4-hour Period for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of the mean percentage of time that pH < 4 at electrodes 1, 2 and 3 during the 4-hour period following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.8 and summarised in Table 11-11.

No statistically significant difference in the mean percentage of time that pH < 4 at electrodes 1, 2 and 3 during the 4-hour period was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid or the untreated state for the ITT population. There was a trend for a reduction in the mean percentage of time that pH < 4 for both Gaviscon® Double Action Aniseed Liquid (approximately 4%) and for Gaviscon® Advance Aniseed Liquid (approximately 3%) compared with the untreated state.

Similar findings were observed for the PP population (Section 14, Table 14.2.2.8).

**Table 11-11 Statistical Assessments of Mean Percentage of Time that pH < 4 at Electrodes 1, 2 and 3 during the 4-hour Period Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| E     | Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |             | Test - Reference            |         |
|-------|-------------|------------|-----|-------------------|-----|--------------|-------------|-----------------------------|---------|
|       |             | Test       | Ref | Test              | Ref | Test         | Ref         | LS mean Difference (95% CI) | p-value |
| 1 - 3 | 0 - 4       | A          | C   | 15                | 15  | 19.1 (4.95)  | 14.1 (4.96) | 5.0 (-8.9, 18.9)            | 0.469   |
|       |             | A          | D   | 15                | 14  | 19.1 (4.95)  | 23.0 (5.14) | -3.9 (-18.1, 10.3)          | 0.577   |
|       |             | B          | C   | 14                | 15  | 19.6 (5.18)  | 14.1 (4.96) | 5.5 (-8.8, 19.8)            | 0.440   |
|       |             | B          | D   | 14                | 14  | 19.6 (5.18)  | 23.0 (5.14) | -3.4 (-17.8, 11.0)          | 0.633   |

Source: Section 14, Table 14.2.2.8

Abbreviations: CI = confidence interval; E = electrodes; ITT = intention to treat; LS = least squares; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### **11.4.1.2.8 Mean Percentage of Time with pH < 4 at the Electrodes within the Cardia (Electrodes 4 to 7) during each of the Four 1-hour Periods for Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State**

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of the mean percentage of time that pH < 4 at electrodes 4 to 7 during four 1-hour periods following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.9 and summarised in Table 11-12.

No statistically significant difference in the mean percentage of time that pH < 4 at electrodes 4 to 7 was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid when compared with either Placebo Aniseed Liquid or the untreated state for the ITT population. There was a trend for a reduction in the mean percentage of time that pH < 4 during the 0 to 1-hour and 1 to 2-hour periods for both Gaviscon® Double Action Aniseed Liquid and Gaviscon® Advance Aniseed Liquid compared to both Placebo Aniseed Liquid and the untreated state. The greatest reductions of approximately 14% for Gaviscon® Double Action Aniseed Liquid and approximately 16% for Gaviscon® Advance Aniseed Liquid were observed during the 0 to 1-hour period.

This trend was not observed for the PP population (Section 14, Table 14.2.2.9).

**Table 11-12 Statistical Assessments of Mean Percentage of Time that pH < 4 at Electrodes 4 to 7 during Four 1-hour Periods Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| E     | Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |             | Test - Reference            |         |
|-------|-------------|------------|-----|-------------------|-----|--------------|-------------|-----------------------------|---------|
|       |             | Test       | Ref | Test              | Ref | Test         | Ref         | LS mean Difference (95% CI) | p-value |
| 4 - 7 | 0 - 1       | A          | C   | 15                | 15  | 25.9 (8.46)  | 39.4 (8.49) | -13.5 (-32.6, 5.6)          | 0.161   |
|       |             | A          | D   | 15                | 14  | 25.9 (8.46)  | 33.5 (8.76) | -7.6 (-27.4, 12.1)          | 0.438   |
|       |             | B          | C   | 14                | 15  | 23.2 (8.72)  | 39.4 (8.49) | -16.2 (-35.9, 3.5)          | 0.104   |
|       |             | B          | D   | 14                | 14  | 23.2 (8.72)  | 33.5 (8.76) | -10.3 (-30.2, 9.5)          | 0.299   |
|       | 1 - 2       | A          | C   | 15                | 15  | 41.2 (8.81)  | 54.7 (8.84) | -13.5 (-34.2, 7.2)          | 0.196   |
|       |             | A          | D   | 15                | 14  | 41.2 (8.81)  | 43.2 (9.14) | -2.1 (-23.5, 19.3)          | 0.845   |
|       |             | B          | C   | 14                | 15  | 45.5 (9.09)  | 54.7 (8.84) | -9.2 (-30.5, 12.2)          | 0.391   |
|       |             | B          | D   | 14                | 14  | 45.5 (9.09)  | 43.2 (9.14) | 2.2 (-19.3, 23.8)           | 0.834   |
|       | 2 - 3       | A          | C   | 15                | 15  | 49.3 (7.52)  | 52.6 (7.55) | -3.3 (-24.2, 17.6)          | 0.750   |
|       |             | A          | D   | 15                | 14  | 49.3 (7.52)  | 45.4 (7.84) | 4.0 (-17.4, 25.4)           | 0.710   |
|       |             | B          | C   | 14                | 15  | 51.4 (7.81)  | 52.6 (7.55) | -1.3 (-22.6, 20.1)          | 0.906   |
|       |             | B          | D   | 14                | 14  | 51.4 (7.81)  | 45.4 (7.84) | 6.0 (-15.7, 27.7)           | 0.578   |
|       | 3 - 4       | A          | C   | 15                | 15  | 52.3 (7.20)  | 45.0 (7.22) | 7.3 (-13.2, 27.7)           | 0.480   |
|       |             | A          | D   | 15                | 14  | 52.3 (7.20)  | 49.9 (7.49) | 2.4 (-18.5, 23.3)           | 0.819   |
|       |             | B          | C   | 14                | 15  | 50.7 (7.46)  | 45.0 (7.22) | 5.6 (-15.3, 26.5)           | 0.591   |
|       |             | B          | D   | 14                | 14  | 50.7 (7.46)  | 49.9 (7.49) | 0.8 (-20.5, 22.0)           | 0.942   |

Source: Section 14, Table 14.2.2.9

Abbreviations: CI = confidence interval; E = electrodes; ITT = intention to treat; LS = least squares; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### 11.4.1.2.9 Total Number of (i) Liquid, (ii) Gas and (iii) Mixed Reflux Episodes Occurring During the 2- and 4-Hour Period Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid Versus Placebo Aniseed Liquid and the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of total number of (i) liquid, (ii) gas and (iii) mixed reflux episodes occurring during the 2- and 4-hour periods following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.10 and summarised in Table 11-13.

No statistically significant differences in the number of (i) liquid, (ii) gas and (iii) mixed reflux episodes occurring during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Liquid when compared with either Placebo Aniseed Liquid or the untreated state for either the ITT of the PP population. There was a trend for a slight reduction in the number of liquid reflux episodes (Section 14, Table 14.2.2.10).

**Table 11-13 Statistical Assessments of Total Number of (i) Liquid, (ii) Gas and (iii) Mixed Reflux Episodes Occurring during the 2- and 4-hour Periods Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| Reflux Episode | Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|----------------|-------------|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|                |             | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| Liquid         | 2           | A          | C   | 14                | 14  | 2.5 (0.90)   | 3.5 (0.93) | -1.0 (-3.1, 1.2)            | 0.378   |
|                |             | A          | D   | 14                | 13  | 2.5 (0.90)   | 2.8 (0.92) | -0.3 (-2.4, 1.9)            | 0.810   |
|                |             | B          | C   | 13                | 14  | 2.9 (0.93)   | 3.5 (0.93) | -0.5 (-2.8, 1.7)            | 0.620   |
|                |             | B          | D   | 13                | 13  | 2.9 (0.93)   | 2.8 (0.92) | 0.1 (-2.0, 2.3)             | 0.893   |
|                | 4           | A          | C   | 14                | 14  | 3.4 (1.25)   | 5.0 (1.28) | -1.5 (-4.2, 1.2)            | 0.259   |
|                |             | A          | D   | 14                | 13  | 3.4 (1.25)   | 4.1 (1.28) | -0.6 (-3.3, 2.1)            | 0.643   |
|                |             | B          | C   | 13                | 14  | 4.5 (1.29)   | 5.0 (1.28) | -0.5 (-3.3, 2.3)            | 0.708   |
|                |             | B          | D   | 13                | 13  | 4.5 (1.29)   | 4.1 (1.28) | 0.4 (-2.3, 3.1)             | 0.775   |
| Gas            | 2           | A          | C   | 14                | 14  | 0.6 (0.20)   | 0.6 (0.21) | -0.1 (-0.6, 0.4)            | 0.728   |
|                |             | A          | D   | 14                | 13  | 0.6 (0.20)   | 0.3 (0.21) | 0.2 (-0.3, 0.8)             | 0.344   |
|                |             | B          | C   | 13                | 14  | 0.4 (0.21)   | 0.6 (0.21) | -0.2 (-0.8, 0.3)            | 0.366   |
|                |             | B          | D   | 13                | 13  | 0.4 (0.21)   | 0.3 (0.21) | 0.1 (-0.4, 0.6)             | 0.721   |
|                | 4           | A          | C   | 14                | 14  | 1.5 (0.38)   | 1.2 (0.39) | 0.3 (-0.7, 1.2)             | 0.563   |
|                |             | A          | D   | 14                | 13  | 1.5 (0.38)   | 0.6 (0.39) | 0.8 (-0.1, 1.8)             | 0.094   |
|                |             | B          | C   | 13                | 14  | 1.2 (0.39)   | 1.2 (0.39) | 0.1 (-0.9, 1.0)             | 0.900   |
|                |             | B          | D   | 13                | 13  | 1.2 (0.39)   | 0.6 (0.39) | 0.6 (-0.4, 1.6)             | 0.221   |

**Table 11-13 Statistical Assessments of Total Number of (i) Liquid, (ii) Gas and (iii) Mixed Reflux Episodes Occurring during the 2- and 4-hour Periods Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| Reflux Episode | Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|----------------|-------------|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|                |             | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| Mixed          | 2           | A          | C   | 14                | 14  | 1.5 (0.62)   | 2.0 (0.65) | -0.5 (-2.1, 1.1)            | 0.513   |
|                |             | A          | D   | 14                | 13  | 1.5 (0.62)   | 1.7 (0.69) | -0.2 (-1.9, 1.5)            | 0.815   |
|                |             | B          | C   | 13                | 14  | 2.4 (0.65)   | 2.0 (0.65) | 0.4 (-1.3, 2.0)             | 0.647   |
|                |             | B          | D   | 13                | 13  | 2.4 (0.65)   | 1.7 (0.69) | 0.7 (-1.1, 2.5)             | 0.424   |
|                | 4           | A          | C   | 14                | 14  | 2.5 (0.92)   | 2.4 (0.96) | 0.1 (-2.2, 2.4)             | 0.949   |
|                |             | A          | D   | 14                | 13  | 2.5 (0.92)   | 3.0 (1.03) | -0.5 (-3.0, 2.0)            | 0.692   |
|                |             | B          | C   | 13                | 14  | 3.6 (0.97)   | 2.4 (0.96) | 1.1 (-1.3, 3.5)             | 0.341   |
|                |             | B          | D   | 13                | 13  | 3.6 (0.97)   | 3.0 (1.03) | 0.6 (-2.0, 3.1)             | 0.647   |

Source: Section 14, Table 14.2.2.10

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### 11.4.1.2.10 Total Number of (i) Acid and (ii) Weakly Acidic Reflux Episodes Occurring During the 2- and 4-Hour Period Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid Versus Placebo Aniseed Liquid and the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of total number of (i) acid and (ii) weakly acidic reflux episodes occurring during the 2- and 4-hour periods following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.11 and summarised in Table 11-14.

No statistically significant reduction in the total number of acid reflux episodes occurring during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations. There was a trend for a slight reduction in the number of acid reflux episodes.

A statistically significant difference in the total number of weakly acidic reflux episodes occurring during the 2-hour period, but not during the 4-hour period, was observed for Gaviscon® Advance Aniseed Liquid when compared with the untreated state, but not when compared with Placebo Aniseed Liquid for both the ITT and PP populations (Section 14, Table 14.2.2.11).

**Table 11-14 Statistical Assessments of Total Number of (i) Acid and (ii) Weakly Acidic Reflux Episodes Occurring during the 2- and 4-hour Periods Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| Reflux Episodes | Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-----------------|-------------|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|                 |             | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| Acid            | 2           | A          | C   | 14                | 14  | 1.9 (0.62)   | 2.5 (0.65) | -0.6 (-2.4, 1.1)            | 0.478   |
|                 |             | A          | D   | 14                | 13  | 1.9 (0.62)   | 2.6 (0.65) | -0.8 (-2.5, 1.0)            | 0.386   |
|                 |             | B          | C   | 13                | 14  | 2.4 (0.65)   | 2.5 (0.65) | -0.1 (-1.9, 1.7)            | 0.917   |
|                 |             | B          | D   | 13                | 13  | 2.4 (0.65)   | 2.6 (0.65) | -0.2 (-2.0, 1.6)            | 0.794   |
|                 | 4           | A          | C   | 14                | 14  | 3.0 (1.02)   | 3.4 (1.06) | -0.4 (-3.2, 2.4)            | 0.796   |
|                 |             | A          | D   | 14                | 13  | 3.0 (1.02)   | 4.1 (1.06) | -1.1 (-3.9, 1.7)            | 0.440   |
|                 |             | B          | C   | 13                | 14  | 4.0 (1.07)   | 3.4 (1.06) | 0.6 (-2.3, 3.5)             | 0.676   |
|                 |             | B          | D   | 13                | 13  | 4.0 (1.07)   | 4.1 (1.06) | -0.1 (-3.0, 2.8)            | 0.935   |
| Weakly Acidic   | 2           | A          | C   | 14                | 14  | 2.2 (0.73)   | 2.7 (0.75) | -0.5 (-2.2, 1.2)            | 0.541   |
|                 |             | A          | D   | 14                | 13  | 2.2 (0.73)   | 1.3 (0.76) | 0.9 (-0.8, 2.6)             | 0.278   |
|                 |             | B          | C   | 13                | 14  | 3.3 (0.76)   | 2.7 (0.75) | 0.6 (-1.2, 2.3)             | 0.505   |
|                 |             | B          | D   | 13                | 13  | 3.3 (0.76)   | 1.3 (0.76) | 2.0 (0.3, 3.8)              | 0.025   |
|                 | 4           | A          | C   | 14                | 14  | 3.1 (1.08)   | 3.7 (1.11) | -0.6 (-2.9, 1.7)            | 0.616   |
|                 |             | A          | D   | 14                | 13  | 3.1 (1.08)   | 2.2 (1.12) | 0.9 (-1.4, 3.2)             | 0.441   |
|                 |             | B          | C   | 13                | 14  | 4.5 (1.12)   | 3.7 (1.11) | 0.8 (-1.5, 3.2)             | 0.483   |
|                 |             | B          | D   | 13                | 13  | 4.5 (1.12)   | 2.2 (1.12) | 2.3 (-0.1, 4.7)             | 0.059   |

Source: Section 14, Table 14.2.2.11

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### **11.4.1.2.11      Number of Reflux Episodes Reaching 15 cm Above the LOS During the 2- and 4-Hour Period Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid Versus Placebo Aniseed Liquid and the Untreated State**

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of total number of reflux episodes reaching 15 cm above the LOS during the 2- and 4-hour periods following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.12 and summarised in Table 11-15.

No statistically significant reduction in the number of reflux episodes reaching 15 cm above the LOS during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Liquid when compared with either Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations (Section 14, Table 14.2.2.12).

**Table 11-15 Statistical Assessments of Total Number of Reflux Episodes Reaching 15 cm Above the LOS during the 2- and 4-hour Periods Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-------------|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|             | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| 2           | A          | C   | 14                | 14  | 0.9 (0.56)   | 1.2 (0.57) | -0.2 (-1.2, 0.8)            | 0.634   |
|             | A          | D   | 14                | 13  | 0.9 (0.56)   | 0.8 (0.57) | 0.1 (-0.9, 1.1)             | 0.835   |
|             | B          | C   | 13                | 14  | 1.2 (0.57)   | 1.2 (0.57) | 0.1 (-1.0, 1.1)             | 0.902   |
|             | B          | D   | 13                | 13  | 1.2 (0.57)   | 0.8 (0.57) | 0.4 (-0.6, 1.4)             | 0.420   |
| 4           | A          | C   | 14                | 14  | 1.0 (0.62)   | 1.2 (0.64) | -0.2 (-1.3, 0.9)            | 0.724   |
|             | A          | D   | 14                | 13  | 1.0 (0.62)   | 1.1 (0.64) | -0.2 (-1.3, 1.0)            | 0.777   |
|             | B          | C   | 13                | 14  | 1.6 (0.64)   | 1.2 (0.64) | 0.4 (-0.7, 1.6)             | 0.445   |
|             | B          | D   | 13                | 13  | 1.6 (0.64)   | 1.1 (0.64) | 0.5 (-0.6, 1.6)             | 0.395   |

Source: Section 14, Table 14.2.2.12

Abbreviations: CI = confidence interval; ITT = intention to treat; LOS = lower oesophageal sphincter; LS = least squares; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

#### 11.4.1.2.12 Oesophageal Bolus Exposure to Reflux (Percentage Time with Liquid or Mixed Reflux within the Oesophageal Lumen) for Each Test Product Versus the Untreated State During the 2- and 4-Hour Period Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid versus Placebo Aniseed Liquid and the Untreated State

The secondary pH and impedance endpoint is summarised by treatment for the ITT population in Section 14, Table 14.2.1.1 and for the PP population in Section 14, Table 14.2.1.2.

Statistical assessments of oesophageal bolus exposure to reflux during the 2- and 4-hour periods following ingestion of each test product are presented for the ITT population in Section 14, Table 14.2.2.13 and summarised in Table 11-16.

No statistically significant reduction in the oesophageal bolus exposure to reflux during the 2- and 4-hour periods was observed for either Gaviscon® Double Action Aniseed Liquid or Gaviscon® Advance Liquid when compared with either Placebo Aniseed Liquid or the untreated state for either the ITT or PP populations (Section 14, Table 14.2.2.13).

**Table 11-16 Statistical Assessments of Oesophageal Bolus Exposure to Reflux during the 2- and 4-hour Periods Following Ingestion of Gaviscon® Double Action Aniseed Liquid, Gaviscon® Advance Aniseed Liquid, Placebo Aniseed Liquid and the Untreated State (ITT Population, N = 15)**

| Time (hour) | Comparison |     | Number of Subject |     | LS mean (SE) |            | Test - Reference            |         |
|-------------|------------|-----|-------------------|-----|--------------|------------|-----------------------------|---------|
|             | Test       | Ref | Test              | Ref | Test         | Ref        | LS mean Difference (95% CI) | p-value |
| 2           | A          | C   | 14                | 14  | 0.6 (0.19)   | 1.1 (0.20) | -0.4 (-0.9, 0.0)            | 0.055   |
|             | A          | D   | 14                | 13  | 0.6 (0.19)   | 0.8 (0.20) | -0.2 (-0.7, 0.2)            | 0.332   |
|             | B          | C   | 13                | 14  | 1.2 (0.20)   | 1.1 (0.20) | 0.1 (-0.4, 0.6)             | 0.711   |
|             | B          | D   | 13                | 13  | 1.2 (0.20)   | 0.8 (0.20) | 0.3 (-0.2, 0.8)             | 0.193   |
| 4           | A          | C   | 14                | 14  | 0.4 (0.14)   | 0.7 (0.15) | -0.2 (-0.5, 0.1)            | 0.143   |
|             | A          | D   | 14                | 13  | 0.4 (0.14)   | 0.6 (0.15) | -0.2 (-0.5, 0.1)            | 0.186   |
|             | B          | C   | 13                | 14  | 0.8 (0.15)   | 0.7 (0.15) | 0.2 (-0.2, 0.5)             | 0.329   |
|             | B          | D   | 13                | 13  | 0.8 (0.15)   | 0.6 (0.15) | 0.2 (-0.2, 0.5)             | 0.276   |

Source: Section 14, Table 14.2.2.13

Abbreviations: CI = confidence interval; ITT = intention to treat; LS = least squares; Ref = reference; SE = standard error

Note: LS means were obtained from a mixed model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

## 11.4.2 Statistical/Analytical Issues

Detailed documentation of statistical methods, as the final SAP, is presented in Appendix 16.1.9.

### 11.4.2.1 Adjustments for Covariates

No adjustments were made for covariates, therefore this section is not applicable.

#### **11.4.2.2 Handling of Withdrawals or Missing Data**

Missing data were not imputed. All analyses were based on observed cases. For AEs/ADEs, if the severity or relationship to the AE/ADE was missing, a worst-case scenario was assumed (i.e., it was set to severe or probable/definite relationship).

Completed treatment periods for subjects who withdrew from the study were used in the analyses due to the mixed modelling approach.

#### **11.4.2.3 Interim Analyses and Data Monitoring**

No interim analyses were performed and there was no data monitoring, therefore this section is not applicable.

#### **11.4.2.4 Multi-site Studies**

This was a single-site study, therefore this section is not applicable.

#### **11.4.2.5 Multiple Comparison/Multiplicity**

As this was an exploratory study, no adjustments for the multiple comparisons across endpoints, treatments and timepoints have been made, therefore this section is not applicable.

#### **11.4.2.6 Use of an “pH and Impedance Subset” of Subjects**

No pH and impedance subsets of subjects were analysed, therefore this section is not applicable.

#### **11.4.2.7 Active-control Studies Intended to Show Equivalence**

This study was not designed to test equivalence, therefore this section is not applicable.

#### **11.4.2.8 Examination of Sub-groups**

No sub-groups were examined in this study, therefore this section is not applicable.

#### **11.4.3 Tabulation of Individual Response Data**

In addition to tables providing group data for pH and impedance variables, relevant individual subject data are presented in by-subject tabular listings in Appendix 16.2.6.

No individual response data are included in the body of the report.

#### **11.4.4 Drug Dose, Drug Concentration and Relationships to Response**

##### **11.4.4.1 Drug Dose and Relationships to Response**

This was not a dose response study and fixed doses of study treatment were used, therefore this section is not applicable.

##### **11.4.4.2 Drug Concentration, Pharmacokinetics, and Relationships to Response**

Drug concentrations were not measured; therefore this section is not applicable.

#### **11.4.5 Drug-drug and Drug-disease Interactions**

Drug-drug or drug-disease interactions were not measured; therefore this section is not applicable.

#### **11.4.6 By-subject Displays**

Group mean data represent the principal analysis in this study and so this section is not applicable.

#### **11.4.7 pH and Impedance Conclusions**

The results from the study are summarised below:

##### **Gaviscon® Double Action Aniseed Liquid**

- A reduction of approximately 2% in the time that  $\text{pH} < 4$  over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid. This reduction was not statistically significant. Neither the first nor second exploratory analyses of the primary endpoint resulted in any statistically significant treatment effect, period effect or day effect and there was no evidence of a treatment by period interaction or treatment by day interaction.
- A reduction of approximately 5% in the time that  $\text{pH} < 4$  over a period of 4 hours at the electrode 5 cm above the SCJ was observed for Gaviscon® Double Action Aniseed Liquid when compared with the untreated state. No statistically significant reductions were observed.

- A reduction of approximately 11% in the time that  $\text{pH} < 4$  during the first 1-hour period (0 to 1-hour) at the electrode 5 cm above the SCJ was observed for Gaviscon<sup>®</sup> Double Action Aniseed Liquid when compared with the untreated state. This reduction was not statistically significant.
- A reduction of approximately 4% in the time that  $\text{pH} < 4$  at electrodes 1, 2 and 3 during the 4-hour period was observed for Gaviscon<sup>®</sup> Double Action Aniseed Liquid when compared with the untreated state. This reduction was not statistically significant.
- A reduction of approximately 14% in the time that  $\text{pH} < 4$  at electrodes 4 to 7 during the first 1-hour period (0 to 1-hour) was observed for Gaviscon<sup>®</sup> Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid. A reduction in the percentage of time that  $\text{pH} < 4$  at electrodes 4 to 7 during first 1-hour period (0 to 1-hour) was also observed compared to the untreated state (approximately 8%). These reductions were not statistically significant.

#### **Gaviscon<sup>®</sup> Advance Aniseed Liquid**

- A reduction of approximately 5% in the time that  $\text{pH} < 4$  over a period of 2 hours at the electrode 5 cm above the SCJ was observed for Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with both Placebo Aniseed Liquid and the untreated state. No statistically significant reductions were observed.
- Reduction of approximately 2% and 5% in the time that  $\text{pH} < 4$  over a period of 4 hours at the electrode 5 cm above the SCJ was observed for Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with Placebo Aniseed Liquid and the untreated state, respectively. No statistically significant reductions were observed.
- A reduction of approximately 9% in the time that  $\text{pH} < 4$  during the first 1-hour period (0 to 1-hour) at the electrode 5 cm above the SCJ was observed for Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with the untreated state. This reduction was not statistically significant.
- A reduction of approximately 3% in the time that  $\text{pH} < 4$  at electrodes 1, 2 and 3 during the 4-hour period was observed for Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with the untreated state. This reduction was not statistically significant.

- A reduction of approximately 16% in the time that  $\text{pH} < 4$  at electrodes 4 to 7 during the first 1-hour period (0 to 1-hour) was observed for Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with Placebo Aniseed Liquid. A reduction in the percentage of time that  $\text{pH} < 4$  at electrodes 4 to 7 during first 1-hour period (0 to 1-hour) was also observed compared to the untreated state (approximately 10%). These reductions were not statistically significant.

## Reflux Episodes

- A trend for a slight reduction in the number of liquid reflux episodes was observed. No statistically significant difference in the total number of (i) liquid, (ii) gas and (iii) mixed reflux episodes occurring during the 2- and 4-hour periods was observed for Gaviscon<sup>®</sup> Double Action Aniseed Liquid or Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state.
- A trend for a slight reduction in the number of acid reflux episodes was observed. No statistically significant difference in the total number of acid reflux episodes occurring during the 2- and 4-hour periods was observed for Gaviscon<sup>®</sup> Double Action Aniseed Liquid or Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state.
- A statistically significant difference in the total number of weakly acidic reflux episodes occurring during the 2-hour period, but not during the 4-hour period, was observed for Gaviscon<sup>®</sup> Advance Aniseed Liquid, when compared with the untreated state, nor for Gaviscon<sup>®</sup> Double Action Aniseed Liquid, when compared with the untreated state. No statistically significant difference was observed for Gaviscon<sup>®</sup> Advance Aniseed Liquid or Gaviscon<sup>®</sup> Double Action Aniseed Liquid when compared with Placebo Aniseed Liquid.
- No statistically significant difference in the total number of reflux episodes reaching 15 cm above the LOS during the 2- and 4-hour periods was observed for Gaviscon<sup>®</sup> Double Action Aniseed Liquid or Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state.
- No statistically significant difference in the oesophageal bolus exposure to reflux during the 2- and 4-hour periods was observed for Gaviscon<sup>®</sup> Double Action Aniseed Liquid or Gaviscon<sup>®</sup> Advance Aniseed Liquid when compared with Placebo Aniseed Liquid or the untreated state.

## 12 SAFETY EVALUATION

All subjects who were recruited on to the study and took part in the Clinical Phase or were subjected to any invasive study procedure were included in the safety population.

The locations of all tables, figures, and listings pertinent to Section 12 are provided in Table 12-1.

**Table 12-1 Location of Tables and Listings for Safety Data**

| Topic  | Location           |                    |
|--|--------------------|--------------------|
|  | Tables and Figures | Listings           |
| Study Treatment Dosing Record  | -                  | Appendix 16.2.5.3  |
| Summary of TEAEs   | Table 14.3.1.1     | Appendix 16.2.7.1  |
| Summary of TEAEs by SOC, PT and Treatment                                  | Table 14.3.1.2     | Appendix 16.2.7.1  |
| Summary of TEAEs by SOC, PT, Intensity and Treatment                       | Table 14.3.1.3     | Appendix 16.2.7.1  |
| Summary of TEAEs by SOC, PT, Relationship to Study treatment and Treatment | Table 14.3.1.4     | Appendix 16.2.7.1  |
| Listing of Deaths, Other SAEs and Other Significant AEs                    | Table 14.3.2.1     | Appendix 16.2.7.1  |
| Summary of ADEs by Subject   | -                  | Appendix 16.2.7.2  |
| Normal Ranges for Laboratory Data  | -                  | Appendix 16.2.8.1  |
| Clinical Laboratory Data by Category                                       | -                  | Appendix 16.2.8.2  |
| Abnormal Laboratory Results  | -                  | Appendix 16.2.8.3  |
| Virology   | -                  | Appendix 16.2.8.4  |
| Summary of Vital Signs   | Table 14.3.5.1     | Appendix 16.2.9.1  |
| Abnormal Physical Examination Findings                                     | -                  | Appendix 16.2.9.2  |
| Investigator Comments  | -                  | Appendix 16.2.10.1 |

### 12.1 Extent of Exposure

Study treatment dosing record is listed by subject in Appendix 16.2.5, Listing 16.2.5.3.

The number of subjects who received study treatment is presented in Table 12-2.

**Table 12-2 Extent of Exposure (Safety Population)**

| Disposition  | Overall<br>N (%) |
|--|------------------|
| Subjects who received all 4 randomised treatments                    | 14 (87.5)        |
| Subjects who received Gaviscon® Double Action Aniseed Liquid (20 ml) | 15 (93.8)        |
| Subjects who received Gaviscon® Advance Aniseed Liquid (10 ml)       | 14 (87.5)        |
| Subjects who received Placebo Aniseed Liquid (20 ml)                 | 15 (93.8)        |
| Subjects who were assessed in the randomised untreated state         | 14 (87.5)        |

Source: Section 14, Table 14.1.1

Abbreviations: N = number of subjects exposed

## 12.2 Adverse Events

An overview of the locations of tables, figures, and listings reporting AE data is provided in Table 12-1.

All AEs for each subject, including the same event on several occasions are listed in Appendix 16.2.7, Listing 16.2.7.1, giving both PT according to MedDRA, Version 15.0 and the original term used by the Investigator. All ADEs for each subject are listed in Appendix 16.2.7, Listing 16.2.7.2, giving both PTs according to MedDRA, Version 15.0 and the original term used by the Investigator.

The sections that follow describe AEs occurring after the initiation of treatment with IMP. Full tables are included in Section 14.3.

### 12.2.1 Brief Summary of Adverse Events

Overall, there were no deaths or SAEs during the study and no subjects were withdrawn due to a TEAE. There were 13 TEAEs in 7 (46.7%) subjects (6 TEAEs in 5 [33.3%] subjects following administration of Gaviscon® Double Action Aniseed Liquid, 2 TEAEs in 2 [14.3%] subjects following administration of Gaviscon® Advance Aniseed Liquid, and 5 TEAEs in 5 [33.3%] subjects following administration of Placebo Aniseed Liquid).

A summary of TEAEs is presented in Table 12-3.

**Table 12-3 Summary of Treatment-emergent Adverse Events (Safety Population)**

| AE Category                          | Treatment                |                          |                          | Overall<br>(N=15)<br>n (%) [E] |
|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|
|                                      | A<br>(N=15)<br>n (%) [E] | B<br>(N=14)<br>n (%) [E] | C<br>(N=15)<br>n (%) [E] |                                |
| Any TEAEs                            | 5 (33.3) [6]             | 2 (14.3) [2]             | 5 (33.3) [5]             | 7 (46.7) [13]                  |
| Intensity in TEAEs                   |                          |                          |                          |                                |
| Mild                                 | 4 (26.7) [4]             | 2 (14.3) [2]             | 4 (26.7) [4]             | 7 (46.7) [10]                  |
| Moderate                             | 2 (13.3) [2]             | 0 (0.0) [0]              | 1 (6.7) [1]              | 2 (13.3) [3]                   |
| Severe                               | 0 (0.0) [0]              | 0 (0.0) [0]              | 0 (0.0) [0]              | 0 (0.0) [0]                    |
| Causality in TEAEs                   |                          |                          |                          |                                |
| Definite                             | 1 (6.7) [2]              | 1 (7.1) [1]              | 0 (0.0) [0]              | 2 (13.3) [3]                   |
| Probable                             | 0 (0.0) [0]              | 0 (0.0) [0]              | 1 (6.7) [1]              | 1 (6.7) [1]                    |
| Unlikely                             | 3 (20.0) [3]             | 1 (7.1) [1]              | 4 (26.7) [4]             | 4 (26.7) [8]                   |
| None                                 | 1 (6.7) [1]              | 0 (0.0) [0]              | 0 (0.0) [0]              | 0 (0.0) [1]                    |
| Any SAEs                             | 0 (0.0) [0]              | 0 (0.0) [0]              | 0 (0.0) [0]              | 0 (0.0) [0]                    |
| Any TEAEs leading to discontinuation | 0 (0.0) [0]              | 0 (0.0) [0]              | 0 (0.0) [0]              | 0 (0.0) [0]                    |

Source: Section 14, Table 14.3.1.1 and Table 14.3.1.4

Abbreviations: E = number of events; n = number of subjects with an event; N = number of subjects; SAE = serious adverse event; TEAE = treatment-emergent adverse event

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

## 12.2.2 Display of Adverse Events

All AEs for each subject, including the same event on several occasions are listed in Appendix 16.2.7, Listing 16.2.7.1, giving both PTs according to MedDRA, Version 15.0 and the original term used by the Investigator. All ADEs for each subject are listed in Appendix 16.2.7, Listing 16.2.7.2, giving both PTs according to MedDRA, Version 15.0 and the original term used by the Investigator.

An overview of the locations of tables, figures, and listings reporting AE data is provided in Table 12-1.

One subject (Subject V002) reported an ADE of retching during the Validation Phase. The tube was removed and the subject discontinued from the study.

## 12.2.3 Analysis of Adverse Events

### 12.2.3.1 Analysis of Treatment-emergent Adverse Events

Treatment-emergent AEs by SOC, PT and treatment are summarised in Section 14, Table 14.3.1.2 and presented in Table 12-4.

The only TEAE that was reported in more than 1 subject was headache. All other TEAEs were reported by individual subjects.

**Table 12-4 Treatment-emergent Adverse Events Reported by System Organ Class, Preferred Term and Treatment (Safety Population)**

| System organ class<br>Preferred Term                        | Treatment                |                          |                          | Overall<br>(N=15)<br>n (%) [E] |
|---|--------------------------|--------------------------|--------------------------|--------------------------------|
|   | A<br>(N=15)<br>n (%) [E] | B<br>(N=14)<br>n (%) [E] | C<br>(N=15)<br>n (%) [E] |                                |
| Subjects with any TEAEs                                     | 5 (33.3) [6]             | 2 (14.3) [2]             | 5 (33.3) [5]             | 7 (46.7) [13]                  |
| <b>General disorders and administration site conditions</b> | <b>1 (6.7) [1]</b>       | <b>2 (14.3) [2]</b>      | <b>0 (0.0) [0]</b>       | <b>2 (13.3) [3]</b>            |
| Fatigue   | 1 (6.7) [1]              | 1 (7.1) [1]              | 0 (0.0) [0]              | 1 (6.7) [2]                    |
| Medical device discomfort                                   | 0 (0.0) [0]              | 1 (7.1) [1]              | 0 (0.0) [0]              | 1 (6.7) [1]                    |
| <b>Musculoskeletal and connective tissue disorders</b>      | <b>1 (6.7) [1]</b>       | <b>0 (0.0) [0]</b>       | <b>0 (0.0) [0]</b>       | <b>1 (6.7) [1]</b>             |
| Back pain   | 1 (6.7) [1]              | 0 (0.0) [0]              | 0 (0.0) [0]              | 1 (6.7) [1]                    |
| <b>Nervous system disorders</b>                             | <b>2 (13.3) [2]</b>      | <b>0 (0.0) [0]</b>       | <b>4 (26.7) [4]</b>      | <b>4 (26.7) [6]</b>            |
| Headache  | 2 (13.3) [2]             | 0 (0.0) [0]              | 4 (26.7) [4]             | 4 (26.7) [6]                   |
| <b>Respiratory, thoracic and mediastinal disorders</b>      | <b>1 (6.7) [2]</b>       | <b>0 (0.0) [0]</b>       | <b>1 (6.7) [1]</b>       | <b>2 (13.3) [3]</b>            |
| Nasal discomfort  | 1 (6.7) [1]              | 0 (0.0) [0]              | 0 (0.0) [0]              | 1 (6.7) [1]                    |
| Oropharyngeal pain  | 0 (0.0) [0]              | 0 (0.0) [0]              | 1 (6.7) [1]              | 1 (6.7) [1]                    |
| Rhinorrhoea   | 1 (6.7) [1]              | 0 (0.0) [0]              | 0 (0.0) [0]              | 1 (6.7) [1]                    |

Source: Section 14, Table 14.3.1.2

Abbreviations: E = number of events; n = number of subjects with an event; N = number of subjects; TEAE = treatment-emergent adverse event

Note: Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in those categories.

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

### **12.2.3.2 Analysis of Treatment-emergent Adverse Events by Intensity**

Treatment-emergent AEs by SOC, PT, intensity grade and treatment are summarised in Section 14, Table 14.3.1.3.

No severe TEAEs were reported. The majority of TEAEs (10 TEAEs) were mild in intensity and were experienced by 3 (20.0%) subjects (4 TEAEs) following administration of Gaviscon® Double Action Aniseed Liquid, 2 (14.3%) subjects (2 TEAEs) following administration of Gaviscon® Advance Aniseed Liquid and 4 (26.7%) subjects (4 TEAEs) following administration of Placebo Aniseed Liquid. The only moderate TEAEs were headache (1 instance following administration of Gaviscon® Double Action Aniseed Liquid and 1 instance following administration of Placebo Aniseed Liquid) and 1 TEAE of nasal discomfort following administration of Gaviscon® Double Action Aniseed Liquid.

### **12.2.3.3 Analysis of Treatment-emergent Adverse Events by Relationship**

Treatment-emergent AEs by SOC, PT, and relationship to study treatment and treatment are summarised in Section 14, Table 14.3.1.4.

The majority of TEAEs were considered not related to study treatment (unlikely: 8 TEAEs; none: 1 TEAE). Three TEAEs were considered definitely related to study treatment and were experienced by 1 (6.7%) subject (1 TEAE of nasal discomfort and 1 TEAE of rhinorrhoea) following administration of Gaviscon® Double Action Aniseed Liquid and 1 (7.1%) subject (1 TEAE of medical device discomfort) following administration of Gaviscon® Advance Aniseed Liquid. One TEAE was considered probably related to study treatment and was experienced by 1 (6.7%) subject (oropharyngeal pain) following administration of Placebo Aniseed Liquid. The events of nasal discomfort, rhinorrhoea, medical device discomfort and oropharyngeal pain were all considered ADEs (Appendix 16.2.7, Listing 16.2.7.2).

## **12.3 Deaths, Other Serious Adverse Events and Other Significant Adverse Events**

There were no deaths, other SAEs, or other significant AEs in this study (Section 14, Table 14.3.2.1).

## **12.4 Clinical Laboratory Evaluation**

### **12.4.1 Listing of Individual Laboratory Measurements by Subject and Each Clinically Significant Abnormal Laboratory Value**

Normal ranges for laboratory data are presented in Appendix 16.2.8, Listing 16.2.8.1; individual clinical laboratory data by category are presented in Appendix 16.2.8, Listing 16.2.8.2; abnormal laboratory results by category are presented in Appendix 16.2.8, Listing 16.2.8.3; virology results are presented in Appendix 16.2.8, Listing 16.2.8.4.

### **12.4.2 Evaluation of Each Laboratory Parameter**

The active moiety of the IMP used in this study has been licensed for use in man for many years. Their safety profile is very well established. For the purposes of this study, a clinically significant laboratory abnormal value is based on the clinical judgement of the Investigator.

#### **12.4.2.1 Individual Subject Changes**

Abnormal laboratory results by category are presented in Appendix 16.2.8, Listing 16.2.8.3. The majority of subjects had normal haematology and biochemistry values at screening and at follow-up. For some parameters, only a small number of subjects had abnormal haematology and biochemistry values at screening and at follow-up.

During the Validation Phase, abnormal haematology values at screening were noted for eosinophil count (3 [30.0%] subjects), red blood cell count (2 [20.0%] subjects), and monocyte count (1 [10.0%] subject). Abnormal haematology values at follow-up were noted in individual subjects for eosinophil count, neutrophil count, white blood cell count and basophil count. One (10.0%) subject had abnormal biochemistry values (ALT) at screening and 2 (20.0%) subjects had abnormal biochemistry values at follow-up (ALT and creatinine). All of the abnormal haematology and biochemistry findings were considered not clinically significant (Appendix 16.2.8, Listing 16.2.8.3).

During the Clinical Phase, abnormal haematology values at screening were noted for platelet count (3 [18.8%] subjects), and in individual subjects for eosinophil count, neutrophil count, red blood cell count, lymphocyte count and haemoglobin. Abnormal haematology values at follow-up were noted for basophil count (2 [12.5%] subjects) and in individual subjects for platelet count and haemoglobin. Abnormal biochemistry values at screening were noted for ALT (3 [18.8%] subjects), blood urea nitrogen (BUN) (2 [12.5%] subjects), creatinine (2 [12.5%] subjects) and in individual subjects for AST. Abnormal biochemistry values at follow-up were noted for ALT (2 [12.5%] subjects) and in individual subjects for BUN, creatinine and AST. All of the abnormal haematology and biochemistry findings were considered not clinically significant (Appendix 16.2.8, Listing 16.2.8.3).

#### **12.4.2.2 Individual Clinically Significant Abnormalities**

Individual clinical laboratory data by category are presented in Appendix 16.2.8, Listing 16.2.8.2; abnormal laboratory results by category are presented in Appendix 16.2.8, Listing 16.2.8.3.

There were no clinically significant changes in haematology and biochemistry values during the study, in the opinion of the Investigator.

### **12.5 Vital Signs, Physical Findings and Other Observations Related to Safety**

#### **12.5.1 Vital Signs**

Individual vital sign measurements are presented in Appendix 16.2.9, Listing 16.2.9.1. Summary statistics for the safety population by timepoint are presented in Section 14, Table 14.3.5.1. There were no clinically significant changes in vital signs during the study.

#### **12.5.2 Physical Examination**

Individual physical examination abnormalities are presented in Appendix 16.2.9, Listing 16.2.9.2. There were no clinically significant abnormalities in physical examination at screening or follow-up.

#### **12.5.3 Pregnancy**

No female subjects had a positive pregnancy test at screening or admission to the CPU (Appendix 16.2.4, Listing 16.2.4.4).

## 12.6 Safety Conclusions

- Administration of Gaviscon<sup>®</sup> Double Action Aniseed Liquid (20 ml) and Gaviscon<sup>®</sup> Advance Aniseed Liquid (10 ml) was well tolerated.
- Of the 16 subjects randomised in the Clinical Phase of the study, 14 (87.5%) subjects completed the study per protocol.
- No deaths, SAEs or withdrawals due to TEAEs were reported.
- Overall, 13 TEAEs were reported in 7 (46.7%) subjects (6 TEAEs in 5 [33.3%] subjects following administration of Gaviscon<sup>®</sup> Double Action Aniseed Liquid, 2 TEAEs in 2 [14.3%] subjects following administration of Gaviscon<sup>®</sup> Advance Aniseed Liquid, and 5 TEAEs in 5 [33.3%] subjects following administration of Placebo Aniseed Liquid).
- The majority of TEAEs (10 TEAEs) were mild in intensity and only 4 TEAEs were considered related (definite or probable) to the study treatment.
- There were no clinically significant clinical laboratory findings, vital signs or physical examinations during the study.

## 13 DISCUSSION AND OVERALL CONCLUSIONS

### 13.1 Discussion

As the study was terminated early, fewer subjects were recruited than intended. However, it should be noted that as this was a pilot study and due to its experimental nature, no formal sample size calculation was performed. Thus an endpoint of statistical significance might not necessarily be expected.

This study design was based on the paper by Clarke et al<sup>5</sup>, but there were certain methodological differences which merit discussion.

The pH catheter was used in conjunction with an impedance probe unlike the original paper. The Prolene<sup>®</sup> tie was positioned in all cases by the Principal Investigator but the loop size of 3 mm is difficult to achieve accurately with this material and there may have been some variation which might have allowed the position to vary by a few millimetres. There may have been variation in the accuracy of the catheter positioning using endoscopy as there was more than one operator and these individuals were performing this procedure for the first time.

The Clarke technique involved one endoscopy with 2 hours stabilisation afterwards whereas the equilibrium phase (baseline recording period) in this study was shorter and repeat endoscopies were involved.

Clarke's subjects were allowed to lie semi-recumbent on a couch with the head end at 45°, whilst the subjects in this study were kept at 60°.

The meal that was used was different to the Fish and Chips used by Clarke, as the high fat meal in this study consisted of a medium McDonalds Quarter Pounder with cheese meal (including fries). The relative fat content of these meals is not clearly defined. The use of a very fatty meal may be criticized in that the fat may float on the surface of the stomach contents and actually prevent or reduce acid release as well as possibly buffering it.

Clarke only quotes measurements made for 90 minutes after completion of the meal, not the 4 hours used in this study.

There were some problems with the calibration of the data capture process in terms of pH measurement as this software (and hardware) was new to the clinical unit conducting this study.

Some changes which did not reach statistical significance were seen and, as this was a pilot study which was terminated early, the planned numbers were not studied. As variable physiological functions were investigated, a larger number of subjects may have shown a significant change. The sensitivity of the method is endorsed by the fact that pH changes in the body of the stomach due to the buffering action of Gaviscon® were discernable and shown to be of the order of a maximum of 14% to 16% lowering of the time the pH was <4.

New methods need to be accurate, reproducible, robust and specific. The method upon which this protocol was based was experimental and the first usage of this specific type of pH probe. Thus reproducibility and robustness were still unknowns, as was variability. In summary, this study failed to detect a statistically significant endpoint as specified in the protocol, whilst it did appear sensitive enough to detect pH change in certain areas of the stomach.

## **13.2 Conclusion**

Based on the results from this study, Gaviscon® Double Action Aniseed Liquid did not statistically significantly reduce the percentage of time that pH < 4 over a period of 2 hours at the electrode 5 cm above the SCJ compared with Placebo Aniseed Liquid.

Gaviscon<sup>®</sup> Double Action Aniseed Liquid (20 ml), Gaviscon<sup>®</sup> Advance Aniseed Liquid (10 ml) and the study procedures were well tolerated by all of the subjects.

The method upon which this protocol was based was experimental and the first usage of this specific type of pH probe. Thus reproducibility and robustness were still unknowns, as was variability.

## **14            TABLES, FIGURES AND GRAPHS REFERRED TO BUT NOT INCLUDED IN THE TEXT**

### **14.1            Demographic and Subject Characteristics Data Summaries**

## 14.1.1 Summary of Subject Disposition (All Subjects)

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Table 14.1.1 Summary of Subject Disposition  
All Subjects (N=26)

| Disposition  | N (%)      |
|--|------------|
| Validation Phase   |            |
| Subjects enrolled  | 10         |
| Subjects who completed validation phase                                      | 8 (80.0%)  |
| Subjects who terminated validation phase early                               | 2 (20.0%)  |
| Adverse Event  | 1 (10.0%)  |
| Physician Decision   | 1 (10.0%)  |
| Clinical Phase   |            |
| Subjects randomised  | 16         |
| Subjects who received all 4 randomised treatments                            | 14 (87.5%) |
| Subjects who completed study   | 14 (87.5%) |
| Subjects who terminated study early  | 2 (12.5%)  |
| Other:Unable to tolerate ng tube insertion of the two attempts of endoscopy. | 1 ( 6.3%)  |
| Protocol Violation   | 1 ( 6.3%)  |
| Subjects who received Gaviscon Double Action Liquid (20 mL)                  | 15 (93.8%) |
| Subjects who did not receive Gaviscon Double Action Liquid (20 mL)           | 1 ( 6.3%)  |
| Subjects who received Gaviscon Advance Liquid (10 mL)                        | 14 (87.5%) |
| Subjects who did not receive Gaviscon Advance Liquid (10 mL)                 | 2 (12.5%)  |
| Subjects who received Placebo Liquid (20 mL)                                 | 15 (93.8%) |
| Subjects who did not receive Placebo Liquid (20 mL)                          | 1 ( 6.3%)  |

Data Source: Listing 16.2.1.1 and 16.2.5.3

Percentages are calculated as 100 x (number of subjects/number of subjects enrolled or randomised into the study phase).

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Table 14.1.1 Summary of Subject Disposition  
All Subjects (N=26)

| Disposition  | N (%)      |
|--|------------|
| Subjects who were assessed in the randomised untreated state     | 14 (87.5%) |
| Subjects who were not assessed in the randomised untreated state | 2 (12.5%)  |

Data Source: Listing 16.2.1.1 and 16.2.5.3

Percentages are calculated as 100 x (number of subjects/number of subjects enrolled or randomised into the study phase).

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## 14.1.2 Summary of Analysis Populations (All Subjects)

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Table 14.1.2 Summary of Analysis Populations  
All Subjects (N=26)

| Criterion   | Overall    |
|---|------------|
| Subjects Randomised                                 | 16         |
| All Subjects Population                             |            |
| Subjects Included                                   | 16 (100%)  |
| Subjects Excluded                                   | 0          |
| Safety Population                                   |            |
| Subjects Included                                   | 16 (100%)  |
| Subjects Excluded                                   | 0          |
| ITT Population                                      |            |
| Subjects Included                                   | 15 (93.8%) |
| Subjects Excluded                                   | 1 ( 6.3%)  |
| Reasons for Exclusion:                              |            |
| Withdrawn from study after AE no treatment received | 1 ( 6.3%)  |
| Per Protocol Population                             |            |
| Subjects Included                                   | 14 (87.5%) |
| Subjects Excluded                                   | 2 (12.5%)  |
| Reasons for Exclusion:                              |            |
| Failed exclusion criteria 19                        | 1 ( 6.3%)  |
| Withdrawn from study after AE no treatment received | 1 ( 6.3%)  |

Data Source: Listing 16.2.3.1

This listing is for the Clinical Phase only.

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### 14.1.3 Summary of Number of Subjects at Each Visit (All Subjects)

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Table 14.1.3 Summary of Number of Subjects at Each Visit  
All Subjects (N=26)

| Number (%) of Subjects Attending | Overall<br>N=26 |
|----------------------------------|-----------------|
| VP Screening                     | 10 (100%)       |
| VP Treatment Period 1 Day 1      | 10 (100%)       |
| VP Treatment Period 1 Day 2      | 10 (100%)       |
| VP Treatment Period 1 Day 3      | 8 ( 80.0%)      |
| VP Follow-up                     | 10 (100%)       |
| CP Screening                     | 16 (100%)       |
| CP Treatment Period 1 Day 1      | 16 (100%)       |
| CP Treatment Period 1 Day 2      | 16 (100%)       |
| CP Treatment Period 1 Day 3      | 15 ( 93.8%)     |
| CP Treatment Period 2 Day 1      | 15 ( 93.8%)     |
| CP Treatment Period 2 Day 2      | 14 ( 87.5%)     |
| CP Treatment Period 2 Day 3      | 14 ( 87.5%)     |
| CP Follow-up                     | 15 ( 93.8%)     |

Data Source: Listing 16.2.1.2

Percentages are calculated as 100 x (number of subjects/number of subjects enrolled or randomised into the study phase).

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## 14.1.4 Demographic and Baseline Characteristics (Safety Population)

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Table 14.1.4 Demographic and Baseline Characteristics  
Safety Population (N=16)

| Parameter      | Statistic | Overall    |
|----------------|-----------|------------|
| Age (Years)    | n         | 16         |
|                | Mean      | 33.5       |
|                | SD        | 8.63       |
|                | CV (%)    | 25.75      |
|                | Median    | 32.0       |
|                | Minimum   | 20         |
|                | Maximum   | 47         |
| Sex            |           |            |
| Male           | n (%)     | 11 (68.8%) |
| Female         | n (%)     | 5 (31.3%)  |
| Race           |           |            |
| Caucasian      | n (%)     | 14 (87.5%) |
| Asian          | n (%)     | 1 ( 6.3%)  |
| Afro-Caribbean | n (%)     | 1 ( 6.3%)  |
| Other          | n (%)     | 0          |
| Weight (kg)    | n         | 16         |
|                | Mean      | 87.91      |
|                | SD        | 15.685     |
|                | CV (%)    | 17.84      |
|                | Median    | 87.95      |
|                | Minimum   | 63.0       |
|                | Maximum   | 110.6      |

Data Source: Listing 16.2.4.1

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_01\_04.sas

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Table 14.1.4 Demographic and Baseline Characteristics  
Safety Population (N=16)

| Parameter                | Statistic | Overall |
|--------------------------|-----------|---------|
| Height (m)               | n         | 16      |
|                          | Mean      | 1.768   |
|                          | SD        | 0.0946  |
|                          | CV (%)    | 5.35    |
|                          | Median    | 1.785   |
|                          | Minimum   | 1.58    |
|                          | Maximum   | 1.89    |
| BMI (kg/m <sup>2</sup> ) | n         | 16      |
|                          | Mean      | 28.00   |
|                          | SD        | 3.671   |
|                          | CV (%)    | 13.11   |
|                          | Median    | 29.80   |
|                          | Minimum   | 22.2    |
|                          | Maximum   | 33.9    |

Data Source: Listing 16.2.4.1

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_01\_04.sas

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## **14.2 pH and Reflux Data**

### **14.2.1 pH and Reflux Data Summaries**

### 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment (ITT Population)

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5 cm above SCJ                 | 2 hours                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 12.381    | 5.549   | 5.638   | 6.871   |
|                    |                                |                            | SD        | 28.1848   | 17.0857 | 11.3715 | 19.0429 |
|                    |                                |                            | CV(%)     | 227.65    | 307.93  | 201.69  | 277.13  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.415   | 0.670   | 0.085   |
|                    |                                |                            | Maximum   | 100.00    | 64.63   | 40.50   | 71.94   |
|                    |                                | 4 hours                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 10.833    | 6.991   | 3.315   | 7.388   |
|                    |                                |                            | SD        | 26.9588   | 21.4585 | 6.5303  | 22.7179 |
|                    |                                |                            | CV(%)     | 248.85    | 306.93  | 196.97  | 307.50  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.525   | 0.360   | 0.125   |
|                    |                                |                            | Maximum   | 100.00    | 81.28   | 21.97   | 86.04   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 4                              | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 17.405    | 15.614  | 10.873  | 21.803  |
|                    |                                |                            | SD        | 35.5011   | 35.5129 | 25.8873 | 36.3997 |
|                    |                                |                            | CV(%)     | 203.97    | 227.45  | 238.08  | 166.95  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.000   | 0.440   | 0.230   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 21.419    | 17.617  | 18.918  | 29.846  |
|                    |                                |                            | SD        | 37.7302   | 35.4417 | 29.8993 | 37.8663 |
|                    |                                |                            | CV(%)     | 176.15    | 201.18  | 158.05  | 126.87  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 0.000   | 0.670   | 10.985  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 4                              | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 22.495    | 21.384  | 22.037  | 35.624  |
|                    |                                |                            | SD        | 38.7855   | 35.8921 | 33.6919 | 39.2964 |
|                    |                                |                            | CV(%)     | 172.42    | 167.85  | 152.89  | 110.31  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 0.295   | 1.480   | 17.990  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 22.834    | 24.783  | 24.764  | 38.128  |
|                    |                                |                            | SD        | 38.8699   | 37.4377 | 35.7843 | 39.4599 |
|                    |                                |                            | CV(%)     | 170.23    | 151.06  | 144.50  | 103.49  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.330     | 1.110   | 3.330   | 19.790  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 4                              | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 23.658    | 27.546  | 27.806  | 40.282  |
|                    |                                |                            | SD        | 38.5468   | 38.7146 | 36.2154 | 39.7336 |
|                    |                                |                            | CV(%)     | 162.93    | 140.55  | 130.24  | 98.64   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.620     | 2.445   | 7.640   | 24.560  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 26.159    | 30.129  | 29.112  | 41.007  |
|                    |                                |                            | SD        | 37.1340   | 39.3876 | 35.7719 | 41.2072 |
|                    |                                |                            | CV(%)     | 141.95    | 130.73  | 122.88  | 100.49  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 9.550     | 6.260   | 8.520   | 21.720  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5                              | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 16.938    | 8.570   | 33.007  | 23.808  |
|                    |                                |                            | SD        | 34.3790   | 26.4347 | 40.7438 | 37.0242 |
|                    |                                |                            | CV(%)     | 202.97    | 308.46  | 123.44  | 155.51  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.890     | 0.000   | 8.000   | 2.905   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.56   | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 21.353    | 12.696  | 38.667  | 26.005  |
|                    |                                |                            | SD        | 35.3677   | 28.8487 | 43.1644 | 35.5927 |
|                    |                                |                            | CV(%)     | 165.64    | 227.23  | 111.63  | 136.87  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.670     | 0.665   | 9.560   | 5.165   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.78   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5                              | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 25.599    | 16.968  | 39.635  | 30.824  |
|                    |                                |                            | SD        | 38.0088   | 31.1794 | 43.3498 | 33.9117 |
|                    |                                |                            | CV(%)     | 148.48    | 183.76  | 109.37  | 110.02  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 1.630     | 2.220   | 7.850   | 20.060  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.85   | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 29.501    | 20.009  | 41.952  | 34.850  |
|                    |                                |                            | SD        | 38.9116   | 32.8891 | 43.5010 | 35.5140 |
|                    |                                |                            | CV(%)     | 131.90    | 164.37  | 103.69  | 101.91  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 1.560     | 3.385   | 18.170  | 22.570  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.89   | 99.89   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5                              | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 31.617    | 23.697  | 42.259  | 37.441  |
|                    |                                |                            | SD        | 40.2078   | 34.0053 | 43.4072 | 36.5044 |
|                    |                                |                            | CV(%)     | 127.17    | 143.50  | 102.72  | 97.50   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 1.600     | 4.760   | 22.580  | 20.355  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.91   | 99.91   |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 33.553    | 26.406  | 41.603  | 39.153  |
|                    |                                |                            | SD        | 40.1557   | 35.3637 | 42.8145 | 36.8240 |
|                    |                                |                            | CV(%)     | 119.68    | 133.92  | 102.91  | 94.05   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.37    | 0.00    |
|                    |                                |                            | Median    | 12.290    | 4.740   | 27.010  | 27.260  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.93   | 99.92   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 6                              | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 16.649    | 9.046   | 24.237  | 16.536  |
|                    |                                |                            | SD        | 35.5790   | 26.6729 | 35.7786 | 35.6567 |
|                    |                                |                            | CV(%)     | 213.70    | 294.84  | 147.62  | 215.63  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.000   | 3.110   | 1.110   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 19.686    | 11.905  | 34.400  | 21.675  |
|                    |                                |                            | SD        | 36.9477   | 29.8559 | 38.3704 | 35.2645 |
|                    |                                |                            | CV(%)     | 187.68    | 250.78  | 111.54  | 162.70  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.670     | 0.000   | 16.000  | 2.885   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 6                              | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 23.473    | 13.714  | 37.317  | 26.528  |
|                    |                                |                            | SD        | 37.4367   | 31.4014 | 39.1772 | 36.2072 |
|                    |                                |                            | CV(%)     | 159.49    | 228.98  | 104.99  | 136.49  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 0.150   | 21.040  | 9.255   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 26.202    | 16.958  | 41.181  | 30.050  |
|                    |                                |                            | SD        | 37.7609   | 31.8710 | 39.8137 | 37.3579 |
|                    |                                |                            | CV(%)     | 144.11    | 187.94  | 96.68   | 124.32  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.550     | 2.220   | 28.170  | 13.375  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 6                              | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 27.189    | 21.488  | 42.998  | 32.905  |
|                    |                                |                            | SD        | 38.1729   | 32.5476 | 40.5257 | 38.1602 |
|                    |                                |                            | CV(%)     | 140.40    | 151.47  | 94.25   | 115.97  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.530     | 4.885   | 42.310  | 20.215  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 28.696    | 24.667  | 45.116  | 34.726  |
|                    |                                |                            | SD        | 38.8762   | 33.6620 | 41.1389 | 37.5615 |
|                    |                                |                            | CV(%)     | 135.48    | 136.47  | 91.18   | 108.16  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.89    | 0.00    |
|                    |                                |                            | Median    | 1.480     | 5.145   | 49.630  | 20.085  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 7                              | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 14.900    | 17.421  | 17.037  | 20.651  |
|                    |                                |                            | SD        | 34.6987   | 29.4162 | 32.9466 | 27.2290 |
|                    |                                |                            | CV(%)     | 232.88    | 168.85  | 193.38  | 131.85  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.660   | 2.670   | 12.240  |
|                    |                                |                            | Maximum   | 100.00    | 88.94   | 98.22   | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 16.635    | 17.475  | 27.837  | 25.555  |
|                    |                                |                            | SD        | 34.5975   | 32.2139 | 33.0208 | 32.0113 |
|                    |                                |                            | CV(%)     | 207.98    | 184.34  | 118.62  | 125.26  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 0.555   | 20.670  | 9.890   |
|                    |                                |                            | Maximum   | 100.00    | 94.46   | 97.78   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 7                              | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 19.081    | 18.973  | 38.195  | 33.172  |
|                    |                                |                            | SD        | 35.2402   | 32.8384 | 34.7504 | 34.5041 |
|                    |                                |                            | CV(%)     | 184.69    | 173.08  | 90.98   | 104.02  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.34    | 0.00    |
|                    |                                |                            | Median    | 0.590     | 0.665   | 44.890  | 30.200  |
|                    |                                |                            | Maximum   | 100.00    | 96.30   | 98.52   | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 20.834    | 22.794  | 44.831  | 35.947  |
|                    |                                |                            | SD        | 34.8371   | 33.5226 | 35.6915 | 36.3835 |
|                    |                                |                            | CV(%)     | 167.21    | 147.07  | 79.61   | 101.21  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.67    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 4.215   | 58.670  | 35.960  |
|                    |                                |                            | Maximum   | 100.00    | 97.23   | 98.89   | 99.77   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 7                              | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 21.385    | 25.809  | 49.207  | 36.849  |
|                    |                                |                            | SD        | 35.1180   | 34.1396 | 36.3225 | 36.7033 |
|                    |                                |                            | CV(%)     | 164.22    | 132.28  | 73.82   | 99.60   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.78    | 0.00    |
|                    |                                |                            | Median    | 0.360     | 5.860   | 66.930  | 30.860  |
|                    |                                |                            | Maximum   | 100.00    | 97.78   | 99.11   | 99.82   |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 22.263    | 28.844  | 52.100  | 37.749  |
|                    |                                |                            | SD        | 35.3942   | 34.6991 | 36.0677 | 37.0098 |
|                    |                                |                            | CV(%)     | 158.98    | 120.30  | 69.23   | 98.04   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.56    | 0.00    |
|                    |                                |                            | Median    | 1.040     | 14.620  | 66.440  | 25.980  |
|                    |                                |                            | Maximum   | 100.00    | 98.15   | 99.26   | 99.77   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 8                              | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 15.523    | 21.044  | 19.022  | 24.226  |
|                    |                                |                            | SD        | 34.5327   | 29.4047 | 36.0515 | 35.8037 |
|                    |                                |                            | CV(%)     | 222.46    | 139.73  | 189.53  | 147.79  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 5.780   | 2.220   | 0.220   |
|                    |                                |                            | Maximum   | 100.00    | 84.89   | 99.11   | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 18.588    | 22.348  | 29.127  | 26.154  |
|                    |                                |                            | SD        | 35.5608   | 31.8672 | 35.6977 | 36.1080 |
|                    |                                |                            | CV(%)     | 191.31    | 142.60  | 122.56  | 138.06  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.220     | 2.890   | 10.890  | 6.110   |
|                    |                                |                            | Maximum   | 100.00    | 85.59   | 99.33   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 8                              | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 18.705    | 23.343  | 38.777  | 33.699  |
|                    |                                |                            | SD        | 36.0942   | 34.9069 | 34.8993 | 37.2392 |
|                    |                                |                            | CV(%)     | 192.96    | 149.54  | 90.00   | 110.50  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.17    | 0.00    |
|                    |                                |                            | Median    | 0.300     | 2.000   | 32.150  | 21.630  |
|                    |                                |                            | Maximum   | 100.00    | 90.38   | 99.41   | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 19.975    | 26.309  | 44.437  | 37.147  |
|                    |                                |                            | SD        | 36.5485   | 36.7055 | 34.3973 | 38.7331 |
|                    |                                |                            | CV(%)     | 182.97    | 139.52  | 77.41   | 104.27  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.12    | 0.00    |
|                    |                                |                            | Median    | 0.220     | 7.660   | 41.440  | 29.875  |
|                    |                                |                            | Maximum   | 100.00    | 92.79   | 99.56   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 8                              | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 21.058    | 30.666  | 49.031  | 41.534  |
|                    |                                |                            | SD        | 36.9644   | 37.2195 | 35.4445 | 38.5435 |
|                    |                                |                            | CV(%)     | 175.54    | 121.37  | 72.29   | 92.80   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.10    | 0.00    |
|                    |                                |                            | Median    | 0.180     | 12.525  | 52.440  | 36.740  |
|                    |                                |                            | Maximum   | 100.00    | 94.23   | 99.64   | 100.00  |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 22.732    | 34.824  | 51.057  | 44.560  |
|                    |                                |                            | SD        | 36.8354   | 37.5733 | 36.3422 | 38.7267 |
|                    |                                |                            | CV(%)     | 162.04    | 107.90  | 71.18   | 86.91   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.16    | 0.00    |
|                    |                                |                            | Median    | 0.150     | 25.240  | 60.370  | 39.215  |
|                    |                                |                            | Maximum   | 100.00    | 95.19   | 99.63   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 9                              | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 15.727    | 25.323  | 19.201  | 29.536  |
|                    |                                |                            | SD        | 34.5521   | 41.1405 | 34.8950 | 36.0270 |
|                    |                                |                            | CV(%)     | 219.69    | 162.46  | 181.74  | 121.97  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.880     | 0.000   | 2.670   | 11.555  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 95.56   | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 14.679    | 27.561  | 24.326  | 37.056  |
|                    |                                |                            | SD        | 34.7285   | 42.2762 | 31.6253 | 39.2557 |
|                    |                                |                            | CV(%)     | 236.58    | 153.39  | 130.01  | 105.93  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 0.000   | 13.780  | 25.960  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 97.78   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 9                              | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 15.131    | 28.933  | 31.741  | 42.248  |
|                    |                                |                            | SD        | 34.5573   | 42.8857 | 30.3022 | 39.7442 |
|                    |                                |                            | CV(%)     | 228.39    | 148.22  | 95.47   | 94.07   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.02    | 0.00    |
|                    |                                |                            | Median    | 1.190     | 2.370   | 13.930  | 40.520  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 98.52   | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 15.806    | 31.428  | 38.009  | 44.139  |
|                    |                                |                            | SD        | 34.3644   | 42.5136 | 30.3006 | 41.1889 |
|                    |                                |                            | CV(%)     | 217.41    | 135.27  | 79.72   | 93.32   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.46    | 0.00    |
|                    |                                |                            | Median    | 1.330     | 8.610   | 29.560  | 47.535  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 98.89   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 9                              | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 16.989    | 35.065  | 41.398  | 47.044  |
|                    |                                |                            | SD        | 34.3250   | 41.5457 | 31.9741 | 41.6752 |
|                    |                                |                            | CV(%)     | 202.05    | 118.48  | 77.24   | 88.59   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.15    | 0.00    |
|                    |                                |                            | Median    | 1.240     | 16.265  | 37.070  | 55.670  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 98.84   | 100.00  |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 18.863    | 38.570  | 43.587  | 50.966  |
|                    |                                |                            | SD        | 34.3724   | 40.6324 | 33.0614 | 39.9249 |
|                    |                                |                            | CV(%)     | 182.22    | 105.35  | 75.85   | 78.34   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.26    | 0.00    |
|                    |                                |                            | Median    | 1.040     | 22.630  | 47.560  | 58.170  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.04   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 10                             | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 16.999    | 26.761  | 36.593  | 45.804  |
|                    |                                |                            | SD        | 34.3173   | 42.5310 | 42.2690 | 39.8685 |
|                    |                                |                            | CV(%)     | 201.88    | 158.93  | 115.51  | 87.04   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.880     | 2.885   | 9.330   | 38.345  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 18.217    | 30.901  | 44.415  | 51.335  |
|                    |                                |                            | SD        | 33.7238   | 42.3902 | 36.5771 | 39.4674 |
|                    |                                |                            | CV(%)     | 185.13    | 137.18  | 82.35   | 76.88   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 5.33    | 0.00    |
|                    |                                |                            | Median    | 5.560     | 2.000   | 25.560  | 56.165  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 10                             | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 24.103    | 35.751  | 50.749  | 57.575  |
|                    |                                |                            | SD        | 33.1135   | 42.8185 | 34.8963 | 38.0227 |
|                    |                                |                            | CV(%)     | 137.39    | 119.77  | 68.76   | 66.04   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 11.26   | 0.00    |
|                    |                                |                            | Median    | 10.520    | 7.480   | 47.410  | 65.510  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 31.149    | 40.818  | 55.601  | 59.453  |
|                    |                                |                            | SD        | 32.4962   | 40.2867 | 34.1429 | 38.1813 |
|                    |                                |                            | CV(%)     | 104.32    | 98.70   | 61.41   | 64.22   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 14.00   | 0.33    |
|                    |                                |                            | Median    | 26.220    | 24.600  | 60.000  | 68.135  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 10                             | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 36.633    | 45.459  | 58.351  | 63.179  |
|                    |                                |                            | SD        | 33.0104   | 40.1371 | 34.5757 | 35.7416 |
|                    |                                |                            | CV(%)     | 90.11     | 88.29   | 59.26   | 56.57   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 13.07   | 0.27    |
|                    |                                |                            | Median    | 39.700    | 39.670  | 67.470  | 74.060  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 40.141    | 48.232  | 60.653  | 67.554  |
|                    |                                |                            | SD        | 34.2342   | 40.3043 | 34.3054 | 32.5688 |
|                    |                                |                            | CV(%)     | 85.28     | 83.56   | 56.56   | 48.21   |
|                    |                                |                            | Minimum   | 0.00      | 0.30    | 10.96   | 0.22    |
|                    |                                |                            | Median    | 49.260    | 49.350  | 66.300  | 78.345  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 11                             | 15 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 38.476    | 49.801  | 73.837  | 66.273  |
|                    |                                |                            | SD        | 34.9630   | 46.8091 | 35.2830 | 43.5747 |
|                    |                                |                            | CV(%)     | 90.87     | 93.99   | 47.78   | 65.75   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.67    | 0.00    |
|                    |                                |                            | Median    | 28.760    | 35.775  | 93.780  | 99.780  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 48.950    | 49.578  | 74.727  | 68.313  |
|                    |                                |                            | SD        | 37.1718   | 44.3102 | 31.6085 | 40.8759 |
|                    |                                |                            | CV(%)     | 75.94     | 89.37   | 42.30   | 59.84   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.89    | 0.00    |
|                    |                                |                            | Median    | 49.110    | 46.175  | 84.890  | 99.890  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 11                             | 45 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 55.328    | 52.988  | 74.300  | 71.170  |
|                    |                                |                            | SD        | 34.9830   | 42.8408 | 32.5574 | 38.9140 |
|                    |                                |                            | CV(%)     | 63.23     | 80.85   | 43.82   | 54.68   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.22    | 0.00    |
|                    |                                |                            | Median    | 63.700    | 48.345  | 89.040  | 99.925  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 59.259    | 56.826  | 75.223  | 74.743  |
|                    |                                |                            | SD        | 34.3760   | 42.0626 | 33.3250 | 35.0201 |
|                    |                                |                            | CV(%)     | 58.01     | 74.02   | 44.30   | 46.85   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.56    | 0.89    |
|                    |                                |                            | Median    | 72.110    | 59.415  | 91.780  | 99.945  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 11                             | 75 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 63.169    | 58.623  | 75.968  | 77.864  |
|                    |                                |                            | SD        | 33.5020   | 42.2560 | 33.1939 | 31.9151 |
|                    |                                |                            | CV(%)     | 53.04     | 72.08   | 43.69   | 40.99   |
|                    |                                |                            | Minimum   | 0.00      | 0.27    | 7.29    | 0.71    |
|                    |                                |                            | Median    | 77.690    | 67.530  | 93.420  | 99.955  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 66.714    | 60.623  | 76.480  | 79.934  |
|                    |                                |                            | SD        | 31.8240   | 41.7222 | 32.3246 | 30.1428 |
|                    |                                |                            | CV(%)     | 47.70     | 68.82   | 42.27   | 37.71   |
|                    |                                |                            | Minimum   | 0.15      | 0.44    | 6.22    | 0.59    |
|                    |                                |                            | Median    | 81.410    | 72.940  | 94.520  | 99.965  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 1 - 3                  | 0 - 1 hour                 | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 11.916    | 18.265  | 14.003  | 25.544  |
|                    |                                |                            | SD        | 24.4626   | 27.6556 | 20.3840 | 28.6775 |
|                    |                                |                            | CV(%)     | 205.29    | 151.41  | 145.57  | 112.27  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.41    | 0.00    |
|                    |                                |                            | Median    | 0.190     | 1.220   | 1.220   | 12.390  |
|                    |                                |                            | Maximum   | 76.63     | 88.53   | 67.96   | 81.10   |
|                    |                                | 1 - 2 hours                | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 18.835    | 26.729  | 15.741  | 25.775  |
|                    |                                |                            | SD        | 27.8058   | 32.5064 | 25.3203 | 32.1618 |
|                    |                                |                            | CV(%)     | 147.63    | 121.62  | 160.86  | 124.78  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.670     | 5.925   | 7.410   | 7.685   |
|                    |                                |                            | Maximum   | 81.22     | 87.81   | 90.70   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 1 - 3                  | 2 - 3 hours                | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 19.835    | 27.526  | 9.525   | 24.749  |
|                    |                                |                            | SD        | 31.4631   | 33.8205 | 18.4415 | 32.4548 |
|                    |                                |                            | CV(%)     | 158.62    | 122.87  | 193.62  | 131.14  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.300     | 10.630  | 2.150   | 4.130   |
|                    |                                |                            | Maximum   | 85.26     | 100.00  | 68.67   | 100.00  |
|                    |                                | 3 - 4 hours                | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 15.228    | 20.175  | 5.829   | 22.654  |
|                    |                                |                            | SD        | 24.6199   | 32.4087 | 17.0818 | 32.0498 |
|                    |                                |                            | CV(%)     | 161.67    | 160.64  | 293.03  | 141.48  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 2.200   | 0.480   | 5.630   |
|                    |                                |                            | Maximum   | 71.37     | 98.63   | 66.96   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 1 - 3                  | 0 - 4 hours                | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 16.453    | 23.174  | 11.291  | 24.684  |
|                    |                                |                            | SD        | 26.2745   | 30.5367 | 19.4094 | 30.7959 |
|                    |                                |                            | CV(%)     | 159.70    | 131.77  | 171.90  | 124.76  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.11    | 0.00    |
|                    |                                |                            | Median    | 0.700     | 5.395   | 2.780   | 7.910   |
|                    |                                |                            | Maximum   | 76.28     | 93.74   | 73.57   | 95.35   |
|                    | Mean of 4 - 7                  | 0 - 1 hour                 | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 24.842    | 21.136  | 38.182  | 34.744  |
|                    |                                |                            | SD        | 34.7785   | 31.9933 | 34.7733 | 32.6356 |
|                    |                                |                            | CV(%)     | 140.00    | 151.37  | 91.07   | 93.93   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.25    | 0.00    |
|                    |                                |                            | Median    | 5.600     | 9.790   | 25.940  | 23.820  |
|                    |                                |                            | Maximum   | 100.00    | 99.31   | 83.03   | 99.91   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 4 - 7                  | 1 - 2 hours                | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 39.127    | 44.242  | 51.621  | 46.659  |
|                    |                                |                            | SD        | 37.3046   | 40.9950 | 36.2343 | 43.6890 |
|                    |                                |                            | CV(%)     | 95.34     | 92.66   | 70.19   | 93.63   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.75    | 0.00    |
|                    |                                |                            | Median    | 38.500    | 34.140  | 62.390  | 32.905  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 99.97   |
|                    |                                | 2 - 3 hours                | n         | 15        | 14      | 15      | 14      |
|                    |                                |                            | Mean      | 46.853    | 51.601  | 48.922  | 51.228  |
|                    |                                |                            | SD        | 35.9379   | 40.7127 | 40.5014 | 43.2847 |
|                    |                                |                            | CV(%)     | 76.70     | 78.90   | 82.79   | 84.49   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.14    | 0.00    |
|                    |                                |                            | Median    | 59.420    | 46.085  | 55.830  | 47.040  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                                 |                                |                            |           | A         | B       | C       | D       |
| pH < 4                          | Mean of 4 - 7                  | 3 - 4 hours                | n         | 15        | 14      | 15      | 14      |
|                                 |                                |                            | Mean      | 49.553    | 51.054  | 40.947  | 56.574  |
|                                 |                                |                            | SD        | 40.9719   | 42.8519 | 40.1736 | 41.9735 |
|                                 |                                |                            | CV(%)     | 82.68     | 83.94   | 98.11   | 74.19   |
|                                 |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                                 |                                |                            | Median    | 64.640    | 44.460  | 41.830  | 65.000  |
|                                 |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
| Total number of Reflux Episodes | Liquid                         | 2 hours                    | n         | 14        | 13      | 14      | 13      |
|                                 |                                |                            | Mean      | 2.9       | 2.5     | 3.3     | 2.7     |
|                                 |                                |                            | SD        | 3.38      | 3.10    | 4.14    | 3.25    |
|                                 |                                |                            | CV(%)     | 115.57    | 125.89  | 126.01  | 120.72  |
|                                 |                                |                            | Minimum   | 0         | 0       | 0       | 0       |
|                                 |                                |                            | Median    | 1.5       | 1.0     | 1.5     | 1.0     |
|                                 |                                |                            | Maximum   | 11        | 9       | 15      | 8       |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Liquid                         | 4 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 4.0       | 3.9    | 4.9    | 4.0    |
|                                 |                                |                            | SD        | 4.76      | 5.19   | 5.14   | 4.64   |
|                                 |                                |                            | CV(%)     | 118.89    | 132.23 | 105.86 | 115.92 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 1.5       | 2.0    | 3.0    | 1.0    |
|                                 |                                |                            | Maximum   | 16        | 16     | 18     | 12     |
|                                 | Gas                            | 2 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 0.6       | 0.5    | 0.6    | 0.3    |
|                                 |                                |                            | SD        | 0.85      | 0.66   | 0.94   | 0.63   |
|                                 |                                |                            | CV(%)     | 149.04    | 143.05 | 164.08 | 204.89 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 0.0    | 0.0    | 0.0    |
|                                 |                                |                            | Maximum   | 2         | 2      | 3      | 2      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Gas                            | 4 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 1.5       | 1.4    | 1.2    | 0.6    |
|                                 |                                |                            | SD        | 1.83      | 1.39   | 1.48   | 0.77   |
|                                 |                                |                            | CV(%)     | 121.95    | 100.15 | 121.63 | 124.79 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 1.0       | 1.0    | 1.0    | 0.0    |
|                                 |                                |                            | Maximum   | 6         | 4      | 5      | 2      |
|                                 | Mixed                          | 2 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 1.5       | 2.3    | 1.8    | 2.2    |
|                                 |                                |                            | SD        | 1.56      | 3.01   | 2.36   | 2.12   |
|                                 |                                |                            | CV(%)     | 103.77    | 130.46 | 132.12 | 98.21  |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 1.0       | 1.0    | 1.0    | 2.0    |
|                                 |                                |                            | Maximum   | 5         | 9      | 7      | 7      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Mixed                          | 4 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 2.5       | 3.5    | 2.1    | 3.5    |
|                                 |                                |                            | SD        | 2.50      | 4.84   | 2.74   | 3.20   |
|                                 |                                |                            | CV(%)     | 100.15    | 139.85 | 127.94 | 90.56  |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 2.0       | 1.0    | 1.0    | 3.0    |
|                                 |                                |                            | Maximum   | 7         | 15     | 9      | 9      |
|                                 | Acid                           | 2 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 2.1       | 1.6    | 2.6    | 2.9    |
|                                 |                                |                            | SD        | 3.44      | 1.89   | 3.16   | 4.05   |
|                                 |                                |                            | CV(%)     | 160.47    | 117.29 | 122.71 | 138.59 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 1.0    | 1.0    | 1.0    |
|                                 |                                |                            | Maximum   | 12        | 6      | 8      | 13     |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Acid                           | 4 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 3.4       | 2.9    | 3.6    | 4.5    |
|                                 |                                |                            | SD        | 5.58      | 3.38   | 4.59   | 5.64   |
|                                 |                                |                            | CV(%)     | 166.30    | 115.56 | 128.41 | 124.19 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 2.0    | 1.5    | 2.0    |
|                                 |                                |                            | Maximum   | 19        | 11     | 14     | 18     |
|                                 | Weakly Acidic                  | 2 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 2.4       | 3.2    | 2.5    | 1.8    |
|                                 |                                |                            | SD        | 2.28      | 3.89   | 2.93   | 1.74   |
|                                 |                                |                            | CV(%)     | 93.78     | 123.38 | 117.15 | 98.32  |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 2.0       | 3.0    | 1.0    | 1.0    |
|                                 |                                |                            | Maximum   | 7         | 14     | 9      | 5      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Weakly Acidic                  | 4 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 3.4       | 4.5    | 3.4    | 2.9    |
|                                 |                                |                            | SD        | 3.90      | 5.62   | 3.82   | 3.09   |
|                                 |                                |                            | CV(%)     | 113.66    | 126.00 | 111.34 | 105.87 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 2.5       | 3.0    | 1.5    | 2.0    |
|                                 |                                |                            | Maximum   | 13        | 19     | 12     | 9      |
|                                 | Reaching 15 cm above the LOS   | 2 hours                    | n         | 14        | 13     | 14     | 13     |
|                                 |                                |                            | Mean      | 1.1       | 0.9    | 1.1    | 0.5    |
|                                 |                                |                            | SD        | 1.94      | 1.71   | 2.79   | 0.97   |
|                                 |                                |                            | CV(%)     | 181.07    | 184.81 | 260.06 | 179.66 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 0.0    | 0.0    | 0.0    |
|                                 |                                |                            | Maximum   | 7         | 5      | 10     | 3      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux Event                   | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|--------------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                      |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes      | Reaching 15 cm above the LOS   | 4 hours                    | n         | 14        | 13     | 14     | 13     |
|                                      |                                |                            | Mean      | 1.1       | 1.3    | 1.1    | 0.8    |
|                                      |                                |                            | SD        | 2.18      | 2.25   | 2.79   | 1.68   |
|                                      |                                |                            | CV(%)     | 190.65    | 172.09 | 260.06 | 198.03 |
|                                      |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                      |                                |                            | Median    | 0.0       | 0.0    | 0.0    | 0.0    |
|                                      |                                |                            | Maximum   | 8         | 7      | 10     | 5      |
| Oesophageal Bolus Exposure to Reflux |                                | 2 hours                    | n         | 14        | 13     | 14     | 13     |
|                                      |                                |                            | Mean      | 0.8       | 0.9    | 0.8    | 1.1    |
|                                      |                                |                            | SD        | 0.78      | 0.93   | 0.91   | 1.16   |
|                                      |                                |                            | CV(%)     | 101.11    | 99.06  | 108.63 | 108.03 |
|                                      |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                      |                                |                            | Median    | 0.6       | 0.5    | 0.4    | 0.8    |
|                                      |                                |                            | Maximum   | 3         | 3      | 3      | 4      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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Table 14.2.1.1 Summary of Primary and Secondary Endpoints, by Treatment  
ITT Population (N=15)

| pH of Reflux<br>Event                   | Electrode/Type<br>Of Reflux Event | Timepoint<br>(post treatment) | Statistic | Treatment |        |        |       |
|---|-----------------------------------|-------------------------------|-----------|-----------|--------|--------|-------|
|   |                                   |                               |           | A         | B      | C      | D     |
| Oesophageal Bolus Exposure<br>to Reflux |                                   | 4 hours                       | n         | 14        | 13     | 14     | 13    |
|   |                                   |                               | Mean      | 0.5       | 0.7    | 0.5    | 0.8   |
|   |                                   |                               | SD        | 0.59      | 0.76   | 0.60   | 0.73  |
|   |                                   |                               | CV(%)     | 112.63    | 109.26 | 109.68 | 93.05 |
|   |                                   |                               | Minimum   | 0         | 0      | 0      | 0     |
|   |                                   |                               | Median    | 0.5       | 0.3    | 0.2    | 0.5   |
|   |                                   |                               | Maximum   | 2         | 2      | 2      | 2     |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_01.sas

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## 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment (PP Population)

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5 cm above SCJ                 | 2 hours                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 9.349     | 5.549   | 5.707   | 6.871   |
|                    |                                |                            | SD        | 26.5891   | 17.0857 | 11.7974 | 19.0429 |
|                    |                                |                            | CV(%)     | 284.42    | 307.93  | 206.71  | 277.13  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.415   | 0.615   | 0.085   |
|                    |                                |                            | Maximum   | 100.00    | 64.63   | 40.50   | 71.94   |
|                    |                                | 4 hours                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 8.625     | 6.991   | 3.312   | 7.388   |
|                    |                                |                            | SD        | 26.5312   | 21.4585 | 6.7768  | 22.7179 |
|                    |                                |                            | CV(%)     | 307.61    | 306.93  | 204.61  | 307.50  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.525   | 0.320   | 0.125   |
|                    |                                |                            | Maximum   | 100.00    | 81.28   | 21.97   | 86.04   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 4                              | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 11.506    | 15.614  | 11.555  | 21.803  |
|                    |                                |                            | SD        | 28.1963   | 35.5129 | 26.7245 | 36.3997 |
|                    |                                |                            | CV(%)     | 245.06    | 227.45  | 231.28  | 166.95  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.000   | 0.220   | 0.230   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 15.806    | 17.617  | 16.809  | 29.846  |
|                    |                                |                            | SD        | 32.0023   | 35.4417 | 29.8480 | 37.8663 |
|                    |                                |                            | CV(%)     | 202.46    | 201.18  | 177.57  | 126.87  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.220     | 0.000   | 0.555   | 10.985  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 4                              | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 16.959    | 21.384  | 18.924  | 35.624  |
|                    |                                |                            | SD        | 33.5402   | 35.8921 | 32.6473 | 39.2964 |
|                    |                                |                            | CV(%)     | 197.78    | 167.85  | 172.52  | 110.31  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.220     | 0.295   | 1.405   | 17.990  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 17.322    | 24.783  | 21.231  | 38.128  |
|                    |                                |                            | SD        | 33.7095   | 37.4377 | 34.3137 | 39.4599 |
|                    |                                |                            | CV(%)     | 194.60    | 151.06  | 161.62  | 103.49  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.165     | 1.110   | 3.330   | 19.790  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 4                              | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 18.205    | 27.546  | 24.122  | 40.282  |
|                    |                                |                            | SD        | 33.4636   | 38.7146 | 34.5431 | 39.7336 |
|                    |                                |                            | CV(%)     | 183.82    | 140.55  | 143.20  | 98.64   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.310     | 2.445   | 6.265   | 24.560  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 20.885    | 30.129  | 25.276  | 41.007  |
|                    |                                |                            | SD        | 32.1812   | 39.3876 | 33.7700 | 41.2072 |
|                    |                                |                            | CV(%)     | 154.09    | 130.73  | 133.60  | 100.49  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 5.255     | 6.260   | 6.335   | 21.720  |
|                    |                                |                            | Maximum   | 94.60     | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5                              | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 11.005    | 8.570   | 34.794  | 23.808  |
|                    |                                |                            | SD        | 26.5370   | 26.4347 | 41.6679 | 37.0242 |
|                    |                                |                            | CV(%)     | 241.14    | 308.46  | 119.76  | 155.51  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.665     | 0.000   | 6.445   | 2.905   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.56   | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 15.735    | 12.696  | 38.381  | 26.005  |
|                    |                                |                            | SD        | 28.9363   | 28.8487 | 44.7791 | 35.5927 |
|                    |                                |                            | CV(%)     | 183.90    | 227.23  | 116.67  | 136.87  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.670     | 0.665   | 6.000   | 5.165   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.78   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5                              | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 20.284    | 16.968  | 38.054  | 30.824  |
|                    |                                |                            | SD        | 33.1598   | 31.1794 | 44.5347 | 33.9117 |
|                    |                                |                            | CV(%)     | 163.48    | 183.76  | 117.03  | 110.02  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 1.035     | 2.220   | 5.860   | 20.060  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.85   | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 24.465    | 20.009  | 39.854  | 34.850  |
|                    |                                |                            | SD        | 34.9422   | 32.8891 | 44.3482 | 35.5140 |
|                    |                                |                            | CV(%)     | 142.83    | 164.37  | 111.28  | 101.91  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.945     | 3.385   | 12.140  | 22.570  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.89   | 99.89   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 5                              | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 26.733    | 23.697  | 39.772  | 37.441  |
|                    |                                |                            | SD        | 36.8188   | 34.0053 | 43.9232 | 36.5044 |
|                    |                                |                            | CV(%)     | 137.73    | 143.50  | 110.44  | 97.50   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 1.200     | 4.760   | 15.870  | 20.355  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.91   | 99.91   |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 28.806    | 26.406  | 38.797  | 39.153  |
|                    |                                |                            | SD        | 37.0490   | 35.3637 | 42.9754 | 36.8240 |
|                    |                                |                            | CV(%)     | 128.61    | 133.92  | 110.77  | 94.05   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.37    | 0.00    |
|                    |                                |                            | Median    | 7.070     | 4.740   | 17.320  | 27.260  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.93   | 99.92   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 6                              | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 10.696    | 9.046   | 25.904  | 16.536  |
|                    |                                |                            | SD        | 28.1187   | 26.6729 | 36.5192 | 35.6567 |
|                    |                                |                            | CV(%)     | 262.90    | 294.84  | 140.98  | 215.63  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.000   | 3.555   | 1.110   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 13.949    | 11.905  | 34.746  | 21.675  |
|                    |                                |                            | SD        | 30.6353   | 29.8559 | 39.7945 | 35.2645 |
|                    |                                |                            | CV(%)     | 219.62    | 250.78  | 114.53  | 162.70  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.555     | 0.000   | 11.445  | 2.885   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 6                              | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 18.007    | 13.714  | 36.194  | 26.528  |
|                    |                                |                            | SD        | 32.0414   | 31.4014 | 40.4048 | 36.2072 |
|                    |                                |                            | CV(%)     | 177.94    | 228.98  | 111.64  | 136.49  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.370     | 0.150   | 13.485  | 9.255   |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 20.931    | 16.958  | 39.496  | 30.050  |
|                    |                                |                            | SD        | 32.9654   | 31.8710 | 40.7574 | 37.3579 |
|                    |                                |                            | CV(%)     | 157.50    | 187.94  | 103.19  | 124.32  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 2.220   | 25.195  | 13.375  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 6                              | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 21.989    | 21.488  | 40.939  | 32.905  |
|                    |                                |                            | SD        | 33.6501   | 32.5476 | 41.2335 | 38.1602 |
|                    |                                |                            | CV(%)     | 153.03    | 151.47  | 100.72  | 115.97  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.485     | 4.885   | 32.575  | 20.215  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 23.603    | 24.667  | 42.873  | 34.726  |
|                    |                                |                            | SD        | 34.7647   | 33.6620 | 41.7291 | 37.5615 |
|                    |                                |                            | CV(%)     | 147.29    | 136.47  | 97.33   | 108.16  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.89    | 0.00    |
|                    |                                |                            | Median    | 1.000     | 5.145   | 34.445  | 20.085  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 7                              | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 8.821     | 17.421  | 17.810  | 20.651  |
|                    |                                |                            | SD        | 26.4527   | 29.4162 | 34.0490 | 27.2290 |
|                    |                                |                            | CV(%)     | 299.87    | 168.85  | 191.18  | 131.85  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 0.660   | 2.000   | 12.240  |
|                    |                                |                            | Maximum   | 100.00    | 88.94   | 98.22   | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 10.680    | 17.475  | 26.889  | 25.555  |
|                    |                                |                            | SD        | 26.7634   | 32.2139 | 34.0548 | 32.0113 |
|                    |                                |                            | CV(%)     | 250.59    | 184.34  | 126.65  | 125.26  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.220     | 0.555   | 14.445  | 9.890   |
|                    |                                |                            | Maximum   | 100.00    | 94.46   | 97.78   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 7                              | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 13.301    | 18.973  | 36.584  | 33.172  |
|                    |                                |                            | SD        | 28.2442   | 32.8384 | 35.4766 | 34.5041 |
|                    |                                |                            | CV(%)     | 212.35    | 173.08  | 96.97   | 104.02  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.34    | 0.00    |
|                    |                                |                            | Median    | 0.515     | 0.665   | 36.445  | 30.200  |
|                    |                                |                            | Maximum   | 100.00    | 96.30   | 98.52   | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 15.179    | 22.794  | 42.993  | 35.947  |
|                    |                                |                            | SD        | 28.1149   | 33.5226 | 36.2948 | 36.3835 |
|                    |                                |                            | CV(%)     | 185.22    | 147.07  | 84.42   | 101.21  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.67    | 0.00    |
|                    |                                |                            | Median    | 0.385     | 4.215   | 52.335  | 35.960  |
|                    |                                |                            | Maximum   | 100.00    | 97.23   | 98.89   | 99.77   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 7                              | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 15.769    | 25.809  | 47.262  | 36.849  |
|                    |                                |                            | SD        | 28.6141   | 34.1396 | 36.8739 | 36.7033 |
|                    |                                |                            | CV(%)     | 181.45    | 132.28  | 78.02   | 99.60   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.78    | 0.00    |
|                    |                                |                            | Median    | 0.315     | 5.860   | 61.865  | 30.860  |
|                    |                                |                            | Maximum   | 100.00    | 97.78   | 99.11   | 99.82   |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 16.711    | 28.844  | 50.091  | 37.749  |
|                    |                                |                            | SD        | 29.1730   | 34.6991 | 36.5483 | 37.0098 |
|                    |                                |                            | CV(%)     | 174.58    | 120.30  | 72.96   | 98.04   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.56    | 0.00    |
|                    |                                |                            | Median    | 0.630     | 14.620  | 65.220  | 25.980  |
|                    |                                |                            | Maximum   | 100.00    | 98.15   | 99.26   | 99.77   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 8                              | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 9.489     | 21.044  | 20.381  | 24.226  |
|                    |                                |                            | SD        | 26.3834   | 29.4047 | 37.0117 | 35.8037 |
|                    |                                |                            | CV(%)     | 278.03    | 139.73  | 181.60  | 147.79  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.000     | 5.780   | 2.445   | 0.220   |
|                    |                                |                            | Maximum   | 100.00    | 84.89   | 99.11   | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 12.773    | 22.348  | 28.921  | 26.154  |
|                    |                                |                            | SD        | 28.5585   | 31.8672 | 37.0361 | 36.1080 |
|                    |                                |                            | CV(%)     | 223.59    | 142.60  | 128.06  | 138.06  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.110     | 2.890   | 10.890  | 6.110   |
|                    |                                |                            | Maximum   | 100.00    | 85.59   | 99.33   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 8                              | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 12.899    | 23.343  | 37.641  | 33.699  |
|                    |                                |                            | SD        | 29.2971   | 34.9069 | 35.9282 | 37.2392 |
|                    |                                |                            | CV(%)     | 227.13    | 149.54  | 95.45   | 110.50  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.17    | 0.00    |
|                    |                                |                            | Median    | 0.225     | 2.000   | 26.520  | 21.630  |
|                    |                                |                            | Maximum   | 100.00    | 90.38   | 99.41   | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 14.259    | 26.309  | 42.968  | 37.147  |
|                    |                                |                            | SD        | 30.1786   | 36.7055 | 35.2042 | 38.7331 |
|                    |                                |                            | CV(%)     | 211.64    | 139.52  | 81.93   | 104.27  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.12    | 0.00    |
|                    |                                |                            | Median    | 0.165     | 7.660   | 41.000  | 29.875  |
|                    |                                |                            | Maximum   | 100.00    | 92.79   | 99.56   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 8                              | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 15.419    | 30.666  | 47.404  | 41.534  |
|                    |                                |                            | SD        | 30.9493   | 37.2195 | 36.1960 | 38.5435 |
|                    |                                |                            | CV(%)     | 200.72    | 121.37  | 76.36   | 92.80   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.10    | 0.00    |
|                    |                                |                            | Median    | 0.135     | 12.525  | 51.730  | 36.740  |
|                    |                                |                            | Maximum   | 100.00    | 94.23   | 99.64   | 100.00  |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 17.213    | 34.824  | 49.704  | 44.560  |
|                    |                                |                            | SD        | 31.1313   | 37.5733 | 37.3200 | 38.7267 |
|                    |                                |                            | CV(%)     | 180.86    | 107.90  | 75.08   | 86.91   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.16    | 0.00    |
|                    |                                |                            | Median    | 0.110     | 25.240  | 59.150  | 39.215  |
|                    |                                |                            | Maximum   | 100.00    | 95.19   | 99.63   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 9                              | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 9.708     | 25.323  | 20.509  | 29.536  |
|                    |                                |                            | SD        | 26.4643   | 41.1405 | 35.8287 | 36.0270 |
|                    |                                |                            | CV(%)     | 272.61    | 162.46  | 174.70  | 121.97  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.440     | 0.000   | 2.890   | 11.555  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 95.56   | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 8.585     | 27.561  | 24.683  | 37.056  |
|                    |                                |                            | SD        | 26.4363   | 42.2762 | 32.7878 | 39.2557 |
|                    |                                |                            | CV(%)     | 307.94    | 153.39  | 132.84  | 105.93  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.330     | 0.000   | 13.110  | 25.960  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 97.78   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 9                              | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 9.069     | 28.933  | 30.960  | 42.248  |
|                    |                                |                            | SD        | 26.3141   | 42.8857 | 31.2891 | 39.7442 |
|                    |                                |                            | CV(%)     | 290.17    | 148.22  | 101.06  | 94.07   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.02    | 0.00    |
|                    |                                |                            | Median    | 0.745     | 2.370   | 13.780  | 40.520  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 98.52   | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 9.792     | 31.428  | 36.882  | 44.139  |
|                    |                                |                            | SD        | 26.2207   | 42.5136 | 31.1168 | 41.1889 |
|                    |                                |                            | CV(%)     | 267.77    | 135.27  | 84.37   | 93.32   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.46    | 0.00    |
|                    |                                |                            | Median    | 1.110     | 8.610   | 25.835  | 47.535  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 98.89   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 9                              | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 11.059    | 35.065  | 40.076  | 47.044  |
|                    |                                |                            | SD        | 26.4747   | 41.5457 | 32.7528 | 41.6752 |
|                    |                                |                            | CV(%)     | 239.39    | 118.48  | 81.73   | 88.59   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.15    | 0.00    |
|                    |                                |                            | Median    | 0.975     | 16.265  | 32.800  | 55.670  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 98.84   | 100.00  |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 13.068    | 38.570  | 42.743  | 50.966  |
|                    |                                |                            | SD        | 27.0144   | 40.6324 | 34.1412 | 39.9249 |
|                    |                                |                            | CV(%)     | 206.72    | 105.35  | 79.88   | 78.34   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 1.26    | 0.00    |
|                    |                                |                            | Median    | 0.890     | 22.630  | 35.670  | 58.170  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 99.04   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 10                             | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 11.101    | 26.761  | 39.175  | 45.804  |
|                    |                                |                            | SD        | 26.5796   | 42.5310 | 42.6190 | 39.8685 |
|                    |                                |                            | CV(%)     | 239.43    | 158.93  | 108.79  | 87.04   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.660     | 2.885   | 15.555  | 38.345  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 12.391    | 30.901  | 47.206  | 51.335  |
|                    |                                |                            | SD        | 26.0095   | 42.3902 | 36.2615 | 39.4674 |
|                    |                                |                            | CV(%)     | 209.91    | 137.18  | 76.81   | 76.88   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 8.22    | 0.00    |
|                    |                                |                            | Median    | 4.445     | 2.000   | 31.225  | 56.165  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 10                             | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 18.692    | 35.751  | 53.570  | 57.575  |
|                    |                                |                            | SD        | 26.6076   | 42.8185 | 34.3933 | 38.0227 |
|                    |                                |                            | CV(%)     | 142.35    | 119.77  | 64.20   | 66.04   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 11.26   | 0.00    |
|                    |                                |                            | Median    | 9.475     | 7.480   | 48.890  | 65.510  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 26.239    | 40.818  | 57.771  | 59.453  |
|                    |                                |                            | SD        | 27.3457   | 40.2867 | 34.3415 | 38.1813 |
|                    |                                |                            | CV(%)     | 104.22    | 98.70   | 59.44   | 64.22   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 14.00   | 0.33    |
|                    |                                |                            | Median    | 25.555    | 24.600  | 61.390  | 68.135  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 10                             | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 32.114    | 45.459  | 60.982  | 63.179  |
|                    |                                |                            | SD        | 29.0433   | 40.1371 | 34.2867 | 35.7416 |
|                    |                                |                            | CV(%)     | 90.44     | 88.29   | 56.22   | 56.57   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 13.07   | 0.27    |
|                    |                                |                            | Median    | 35.760    | 39.670  | 68.845  | 74.060  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 35.871    | 48.232  | 63.699  | 67.554  |
|                    |                                |                            | SD        | 31.1050   | 40.3043 | 33.4282 | 32.5688 |
|                    |                                |                            | CV(%)     | 86.71     | 83.56   | 52.48   | 48.21   |
|                    |                                |                            | Minimum   | 0.00      | 0.30    | 10.96   | 0.22    |
|                    |                                |                            | Median    | 39.260    | 49.350  | 70.745  | 78.345  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 11                             | 15 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 37.605    | 49.801  | 73.810  | 66.273  |
|                    |                                |                            | SD        | 36.1135   | 46.8091 | 36.6147 | 43.5747 |
|                    |                                |                            | CV(%)     | 96.03     | 93.99   | 49.61   | 65.75   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.67    | 0.00    |
|                    |                                |                            | Median    | 27.490    | 35.775  | 96.000  | 99.780  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 30 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 47.066    | 49.578  | 74.001  | 68.313  |
|                    |                                |                            | SD        | 37.8243   | 44.3102 | 32.6717 | 40.8759 |
|                    |                                |                            | CV(%)     | 80.36     | 89.37   | 44.15   | 59.84   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.89    | 0.00    |
|                    |                                |                            | Median    | 47.445    | 46.175  | 85.780  | 99.890  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 11                             | 45 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 53.311    | 52.988  | 73.999  | 71.170  |
|                    |                                |                            | SD        | 35.3872   | 42.8408 | 33.7647 | 38.9140 |
|                    |                                |                            | CV(%)     | 66.38     | 80.85   | 45.63   | 54.68   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.22    | 0.00    |
|                    |                                |                            | Median    | 63.405    | 48.345  | 89.115  | 99.925  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 60 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 57.229    | 56.826  | 74.724  | 74.743  |
|                    |                                |                            | SD        | 34.7287   | 42.0626 | 34.5246 | 35.0201 |
|                    |                                |                            | CV(%)     | 60.68     | 74.02   | 46.20   | 46.85   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 2.56    | 0.89    |
|                    |                                |                            | Median    | 72.015    | 59.415  | 91.835  | 99.945  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | 11                             | 75 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 61.244    | 58.623  | 75.286  | 77.864  |
|                    |                                |                            | SD        | 33.8941   | 42.2560 | 34.3378 | 31.9151 |
|                    |                                |                            | CV(%)     | 55.34     | 72.08   | 45.61   | 40.99   |
|                    |                                |                            | Minimum   | 0.00      | 0.27    | 7.29    | 0.71    |
|                    |                                |                            | Median    | 74.235    | 67.530  | 93.465  | 99.955  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
|                    |                                | 90 mins                    | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 64.924    | 60.623  | 76.049  | 79.934  |
|                    |                                |                            | SD        | 32.2318   | 41.7222 | 33.4999 | 30.1428 |
|                    |                                |                            | CV(%)     | 49.65     | 68.82   | 44.05   | 37.71   |
|                    |                                |                            | Minimum   | 0.15      | 0.44    | 6.22    | 0.59    |
|                    |                                |                            | Median    | 75.715    | 72.940  | 94.555  | 99.965  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 1 - 3                  | 0 - 1 hour                 | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 7.294     | 18.265  | 11.846  | 25.544  |
|                    |                                |                            | SD        | 17.3001   | 27.6556 | 19.2967 | 28.6775 |
|                    |                                |                            | CV(%)     | 237.20    | 151.41  | 162.89  | 112.27  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.41    | 0.00    |
|                    |                                |                            | Median    | 0.130     | 1.220   | 1.130   | 12.390  |
|                    |                                |                            | Maximum   | 62.45     | 88.53   | 67.96   | 81.10   |
|                    |                                | 1 - 2 hours                | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 14.379    | 26.729  | 12.828  | 25.775  |
|                    |                                |                            | SD        | 22.6247   | 32.5064 | 23.5240 | 32.1618 |
|                    |                                |                            | CV(%)     | 157.34    | 121.62  | 183.38  | 124.78  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.430     | 5.925   | 7.315   | 7.685   |
|                    |                                |                            | Maximum   | 66.26     | 87.81   | 90.70   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 1 - 3                  | 2 - 3 hours                | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 15.162    | 27.526  | 8.734   | 24.749  |
|                    |                                |                            | SD        | 26.7076   | 33.8205 | 18.8722 | 32.4548 |
|                    |                                |                            | CV(%)     | 176.15    | 122.87  | 216.07  | 131.14  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.260     | 10.630  | 1.315   | 4.130   |
|                    |                                |                            | Maximum   | 76.15     | 100.00  | 68.67   | 100.00  |
|                    |                                | 3 - 4 hours                | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 11.891    | 20.175  | 6.199   | 22.654  |
|                    |                                |                            | SD        | 21.7469   | 32.4087 | 17.6642 | 32.0498 |
|                    |                                |                            | CV(%)     | 182.88    | 160.64  | 284.94  | 141.48  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                    |                                |                            | Median    | 0.255     | 2.200   | 0.390   | 5.630   |
|                    |                                |                            | Maximum   | 71.37     | 98.63   | 66.96   | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 1 - 3                  | 0 - 4 hours                | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 12.179    | 23.174  | 9.901   | 24.684  |
|                    |                                |                            | SD        | 21.1767   | 30.5367 | 19.3519 | 30.7959 |
|                    |                                |                            | CV(%)     | 173.87    | 131.77  | 195.45  | 124.76  |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.11    | 0.00    |
|                    |                                |                            | Median    | 0.605     | 5.395   | 2.760   | 7.910   |
|                    |                                |                            | Maximum   | 59.20     | 93.74   | 73.57   | 95.35   |
|                    | Mean of 4 - 7                  | 0 - 1 hour                 | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 19.474    | 21.136  | 35.894  | 34.744  |
|                    |                                |                            | SD        | 28.9315   | 31.9933 | 34.8941 | 32.6356 |
|                    |                                |                            | CV(%)     | 148.57    | 151.37  | 97.22   | 93.93   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.25    | 0.00    |
|                    |                                |                            | Median    | 3.495     | 9.790   | 20.365  | 23.820  |
|                    |                                |                            | Maximum   | 100.00    | 99.31   | 83.03   | 99.91   |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|--------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                    |                                |                            |           | A         | B       | C       | D       |
| pH < 4             | Mean of 4 - 7                  | 1 - 2 hours                | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 34.779    | 44.242  | 48.474  | 46.659  |
|                    |                                |                            | SD        | 34.5440   | 40.9950 | 35.4099 | 43.6890 |
|                    |                                |                            | CV(%)     | 99.32     | 92.66   | 73.05   | 93.63   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.75    | 0.00    |
|                    |                                |                            | Median    | 36.960    | 34.140  | 60.210  | 32.905  |
|                    |                                |                            | Maximum   | 99.75     | 100.00  | 100.00  | 99.97   |
|                    |                                | 2 - 3 hours                | n         | 14        | 14      | 14      | 14      |
|                    |                                |                            | Mean      | 43.057    | 51.601  | 48.422  | 51.228  |
|                    |                                |                            | SD        | 34.0307   | 40.7127 | 41.9822 | 43.2847 |
|                    |                                |                            | CV(%)     | 79.04     | 78.90   | 86.70   | 84.49   |
|                    |                                |                            | Minimum   | 0.00      | 0.00    | 0.14    | 0.00    |
|                    |                                |                            | Median    | 49.960    | 46.085  | 55.040  | 47.040  |
|                    |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |         |         |         |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|---------|---------|---------|
|                                 |                                |                            |           | A         | B       | C       | D       |
| pH < 4                          | Mean of 4 - 7                  | 3 - 4 hours                | n         | 14        | 14      | 14      | 14      |
|                                 |                                |                            | Mean      | 46.600    | 51.054  | 42.951  | 56.574  |
|                                 |                                |                            | SD        | 40.8289   | 42.8519 | 40.9046 | 41.9735 |
|                                 |                                |                            | CV(%)     | 87.62     | 83.94   | 95.24   | 74.19   |
|                                 |                                |                            | Minimum   | 0.00      | 0.00    | 0.00    | 0.00    |
|                                 |                                |                            | Median    | 55.850    | 44.460  | 47.900  | 65.000  |
|                                 |                                |                            | Maximum   | 100.00    | 100.00  | 100.00  | 100.00  |
| Total number of Reflux Episodes | Liquid                         | 2 hours                    | n         | 13        | 13      | 13      | 13      |
|                                 |                                |                            | Mean      | 2.8       | 2.5     | 2.9     | 2.7     |
|                                 |                                |                            | SD        | 3.51      | 3.10    | 4.07    | 3.25    |
|                                 |                                |                            | CV(%)     | 123.26    | 125.89  | 139.29  | 120.72  |
|                                 |                                |                            | Minimum   | 0         | 0       | 0       | 0       |
|                                 |                                |                            | Median    | 1.0       | 1.0     | 1.0     | 1.0     |
|                                 |                                |                            | Maximum   | 11        | 9       | 15      | 8       |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Liquid                         | 4 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 3.9       | 3.9    | 4.5    | 4.0    |
|                                 |                                |                            | SD        | 4.94      | 5.19   | 5.13   | 4.64   |
|                                 |                                |                            | CV(%)     | 125.94    | 132.23 | 114.88 | 115.92 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 1.0       | 2.0    | 3.0    | 1.0    |
|                                 |                                |                            | Maximum   | 16        | 16     | 18     | 12     |
|                                 | Gas                            | 2 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 0.6       | 0.5    | 0.5    | 0.3    |
|                                 |                                |                            | SD        | 0.87      | 0.66   | 0.97   | 0.63   |
|                                 |                                |                            | CV(%)     | 141.33    | 143.05 | 179.66 | 204.89 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 0.0    | 0.0    | 0.0    |
|                                 |                                |                            | Maximum   | 2         | 2      | 3      | 2      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Gas                            | 4 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 1.6       | 1.4    | 1.2    | 0.6    |
|                                 |                                |                            | SD        | 1.85      | 1.39   | 1.54   | 0.77   |
|                                 |                                |                            | CV(%)     | 114.53    | 100.15 | 124.79 | 124.79 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 1.0       | 1.0    | 1.0    | 0.0    |
|                                 |                                |                            | Maximum   | 6         | 4      | 5      | 2      |
|                                 | Mixed                          | 2 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 1.5       | 2.3    | 1.6    | 2.2    |
|                                 |                                |                            | SD        | 1.61      | 3.01   | 2.36   | 2.12   |
|                                 |                                |                            | CV(%)     | 104.86    | 130.46 | 146.36 | 98.21  |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 1.0       | 1.0    | 1.0    | 2.0    |
|                                 |                                |                            | Maximum   | 5         | 9      | 7      | 7      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Mixed                          | 4 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 2.5       | 3.5    | 1.9    | 3.5    |
|                                 |                                |                            | SD        | 2.60      | 4.84   | 2.72   | 3.20   |
|                                 |                                |                            | CV(%)     | 102.49    | 139.85 | 141.55 | 90.56  |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 2.0       | 1.0    | 1.0    | 3.0    |
|                                 |                                |                            | Maximum   | 7         | 15     | 9      | 9      |
|                                 | Acid                           | 2 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 1.9       | 1.6    | 2.2    | 2.9    |
|                                 |                                |                            | SD        | 3.48      | 1.89   | 2.85   | 4.05   |
|                                 |                                |                            | CV(%)     | 180.71    | 117.29 | 132.47 | 138.59 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 1.0    | 1.0    | 1.0    |
|                                 |                                |                            | Maximum   | 12        | 6      | 8      | 13     |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Acid                           | 4 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 3.1       | 2.9    | 3.1    | 4.5    |
|                                 |                                |                            | SD        | 5.71      | 3.38   | 4.37   | 5.64   |
|                                 |                                |                            | CV(%)     | 185.50    | 115.56 | 141.95 | 124.19 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 2.0    | 1.0    | 2.0    |
|                                 |                                |                            | Maximum   | 19        | 11     | 14     | 18     |
|                                 | Weakly Acidic                  | 2 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 2.6       | 3.2    | 2.4    | 1.8    |
|                                 |                                |                            | SD        | 2.26      | 3.89   | 3.01   | 1.74   |
|                                 |                                |                            | CV(%)     | 86.26     | 123.38 | 126.43 | 98.32  |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 3.0       | 3.0    | 1.0    | 1.0    |
|                                 |                                |                            | Maximum   | 7         | 14     | 9      | 5      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event              | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|---------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                 |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes | Weakly Acidic                  | 4 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 3.7       | 4.5    | 3.3    | 2.9    |
|                                 |                                |                            | SD        | 3.92      | 5.62   | 3.95   | 3.09   |
|                                 |                                |                            | CV(%)     | 106.27    | 126.00 | 119.27 | 105.87 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 3.0       | 3.0    | 1.0    | 2.0    |
|                                 |                                |                            | Maximum   | 13        | 19     | 12     | 9      |
|                                 | Reaching 15 cm above the LOS   | 2 hours                    | n         | 13        | 13     | 13     | 13     |
|                                 |                                |                            | Mean      | 1.0       | 0.9    | 0.4    | 0.5    |
|                                 |                                |                            | SD        | 2.00      | 1.71   | 1.12   | 0.97   |
|                                 |                                |                            | CV(%)     | 200.00    | 184.81 | 291.43 | 179.66 |
|                                 |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                 |                                |                            | Median    | 0.0       | 0.0    | 0.0    | 0.0    |
|                                 |                                |                            | Maximum   | 7         | 5      | 4      | 3      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_02\_01\_02.sas

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux Event                   | Electrode/Type Of Reflux Event | Timepoint (post treatment) | Statistic | Treatment |        |        |        |
|--------------------------------------|--------------------------------|----------------------------|-----------|-----------|--------|--------|--------|
|                                      |                                |                            |           | A         | B      | C      | D      |
| Total number of Reflux Episodes      | Reaching 15 cm above the LOS   | 4 hours                    | n         | 13        | 13     | 13     | 13     |
|                                      |                                |                            | Mean      | 1.1       | 1.3    | 0.4    | 0.8    |
|                                      |                                |                            | SD        | 2.25      | 2.25   | 1.12   | 1.68   |
|                                      |                                |                            | CV(%)     | 209.23    | 172.09 | 291.43 | 198.03 |
|                                      |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                      |                                |                            | Median    | 0.0       | 0.0    | 0.0    | 0.0    |
|                                      |                                |                            | Maximum   | 8         | 7      | 4      | 5      |
| Oesophageal Bolus Exposure to Reflux |                                | 2 hours                    | n         | 13        | 13     | 13     | 13     |
|                                      |                                |                            | Mean      | 0.7       | 0.9    | 0.7    | 1.1    |
|                                      |                                |                            | SD        | 0.80      | 0.93   | 0.86   | 1.16   |
|                                      |                                |                            | CV(%)     | 108.96    | 99.06  | 116.63 | 108.03 |
|                                      |                                |                            | Minimum   | 0         | 0      | 0      | 0      |
|                                      |                                |                            | Median    | 0.4       | 0.5    | 0.3    | 0.8    |
|                                      |                                |                            | Maximum   | 3         | 3      | 3      | 4      |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4  
Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

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Table 14.2.1.2 Summary of Primary and Secondary Endpoints, by Treatment  
Per Protocol Population (N=14)

| pH of Reflux<br>Event                   | Electrode/Type<br>Of Reflux Event | Timepoint<br>(post treatment) | Statistic | Treatment |        |        |       |
|---|-----------------------------------|-------------------------------|-----------|-----------|--------|--------|-------|
|   |                                   |                               |           | A         | B      | C      | D     |
| Oesophageal Bolus Exposure<br>to Reflux |                                   | 4 hours                       | n         | 13        | 13     | 13     | 13    |
|   |                                   |                               | Mean      | 0.5       | 0.7    | 0.5    | 0.8   |
|   |                                   |                               | SD        | 0.61      | 0.76   | 0.59   | 0.73  |
|   |                                   |                               | CV(%)     | 121.11    | 109.26 | 119.37 | 93.05 |
|   |                                   |                               | Minimum   | 0         | 0      | 0      | 0     |
|   |                                   |                               | Median    | 0.3       | 0.3    | 0.2    | 0.5   |
|   |                                   |                               | Maximum   | 2         | 2      | 2      | 2     |

Data Source: Listing 16.2.6.2, Listing 16.2.6.3, Listing 16.2.6.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

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## 14.2.2 pH and Reflux Data Analyses

### 14.2.2.1 Statistical Analysis of Primary Endpoint

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Table 14.2.2.1 Statistical Analysis of Primary Endpoint

| Population   | Comparison |           | Number of Subjects |           | LS Mean (Standard Error) |             | Test-Reference              |         |
|--------------|------------|-----------|--------------------|-----------|--------------------------|-------------|-----------------------------|---------|
|              | Test       | Reference | Test               | Reference | Test                     | Reference   | LS Mean Difference (95% CI) | p-value |
| ITT          | A          | C         | 15                 | 15        | 9.7 ( 3.50)              | 8.6 ( 3.50) | 1.1 ( -8.9, 11.1)           | 0.821   |
| Per Protocol | A          | C         | 14                 | 14        | 6.5 ( 3.25)              | 8.6 ( 3.25) | -2.1 ( -11.5, 7.2)          | 0.646   |

Data Source: Appendix 16.1.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.2 Exploratory Analysis 1 of Primary Endpoint

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Table 14.2.2.2 Exploratory Analysis 1 of Primary Endpoint

| Population   | Number of Subjects |          |                  | LS Mean (Standard Error) |             | Test-Reference              |         | Model p-values |        |                                     |       |
|--------------|--------------------|----------|------------------|--------------------------|-------------|-----------------------------|---------|----------------|--------|-------------------------------------|-------|
|              | Test (A)           | Ref. (C) | Treatment Period | Test                     | Reference   | LS Mean Difference (95% CI) | p-value | Treat-ment     | Period | Treatment by Period Day Interaction |       |
| ITT          | 8                  | 8        | Period 1         | 11.2 ( 4.91)             | 8.1 ( 4.82) | 3.2 ( -10.8, 17.1)          | 0.650   |                |        |                                     |       |
|              | 7                  | 7        | Period 2         | 7.8 ( 5.15)              | 9.0 ( 5.15) | -1.2 ( -15.8, 13.4)         | 0.870   |                |        |                                     |       |
|              | 15                 | 15       | Overall          | 9.5 ( 3.53)              | 8.5 ( 3.54) | 1.0 ( -9.1, 11.1)           | 0.845   | 0.626          | 0.724  | 0.097                               | 0.554 |
| Per Protocol | 7                  | 7        | Period 1         | 4.9 ( 4.74)              | 8.0 ( 4.62) | -3.1 ( -16.6, 10.3)         | 0.642   |                |        |                                     |       |
|              | 7                  | 7        | Period 2         | 7.9 ( 4.62)              | 9.3 ( 4.62) | -1.4 ( -14.6, 11.7)         | 0.827   |                |        |                                     |       |
|              | 14                 | 14       | Overall          | 6.4 ( 3.28)              | 8.7 ( 3.29) | -2.3 ( -11.7, 7.2)          | 0.629   | 0.597          | 0.385  | 0.183                               | 0.584 |

Data Source: Appendix 16.1.9.2

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period, treatment period x treatment interaction and treatment day as fixed effects and a random effect for subject.

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### 14.2.2.3 Exploratory Analysis 2 of Primary Endpoint

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Table 14.2.2.3 Exploratory Analysis 2 of Primary Endpoint

| Population   | Number of Subjects |          |               | LS Mean (Standard Error) |              | Test-Reference              |         | Model p-values |        |                              |       |  |
|--------------|--------------------|----------|---------------|--------------------------|--------------|-----------------------------|---------|----------------|--------|------------------------------|-------|--|
|              | Test (A)           | Ref. (C) | Treatment Day | Test                     | Reference    | LS Mean Difference (95% CI) | p-value | Treat-ment     | Period | Treatment by Day Interaction |       |  |
| ITT          | 7                  | 8        | Day 2         | 14.1 ( 5.34)             | 11.4 ( 4.89) | 2.8 ( -11.9, 17.5)          | 0.705   |                |        |                              |       |  |
|              | 8                  | 7        | Day 3         | 5.5 ( 4.88)              | 5.6 ( 5.23)  | -0.1 ( -14.5, 14.2)         | 0.985   |                |        |                              |       |  |
|              | 15                 | 15       | Overall       | 9.8 ( 3.60)              | 8.5 ( 3.59)  | 1.3 ( -9.0, 11.6)           | 0.797   | 0.593          | 0.735  | 0.100                        | 0.903 |  |
| Per Protocol | 6                  | 8        | Day 2         | 6.8 ( 5.17)              | 11.6 ( 4.37) | -4.8 ( -18.6, 8.9)          | 0.485   |                |        |                              |       |  |
|              | 8                  | 6        | Day 3         | 5.7 ( 4.36)              | 5.5 ( 5.05)  | 0.2 ( -13.2, 13.6)          | 0.975   |                |        |                              |       |  |
|              | 14                 | 14       | Overall       | 6.2 ( 3.36)              | 8.5 ( 3.35)  | -2.3 ( -11.9, 7.3)          | 0.632   | 0.623          | 0.392  | 0.188                        | 0.843 |  |

Data Source: Appendix 16.1.9.3

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period, treatment day x treatment interaction and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.4 Statistical Analysis of Percentage of Time that Electrode is pH <4 over 2 Hours

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Table 14.2.2.4 Statistical Analysis of % of Time that Electrode is pH < 4 Over 2 Hours

| Population   | Comparison |           | Number of Subjects |           | LS Mean (Standard Error) |             | Test-Reference              |         |
|--------------|------------|-----------|--------------------|-----------|--------------------------|-------------|-----------------------------|---------|
|              | Test       | Reference | Test               | Reference | Test                     | Reference   | LS Mean Difference (95% CI) | p-value |
| ITT          | A          | D         | 15                 | 14        | 9.7 ( 3.50)              | 8.8 ( 3.62) | 0.9 ( -9.3, 11.0)           | 0.862   |
|              | B          | C         | 14                 | 15        | 3.5 ( 3.62)              | 8.6 ( 3.50) | -5.1 ( -15.3, 5.1)          | 0.320   |
|              | B          | D         | 14                 | 14        | 3.5 ( 3.62)              | 8.8 ( 3.62) | -5.3 ( -15.7, 5.0)          | 0.305   |
| Per Protocol | A          | D         | 14                 | 14        | 6.5 ( 3.25)              | 9.0 ( 3.24) | -2.6 ( -11.8, 6.7)          | 0.582   |
|              | B          | C         | 14                 | 14        | 3.4 ( 3.24)              | 8.6 ( 3.25) | -5.2 ( -14.5, 4.0)          | 0.262   |
|              | B          | D         | 14                 | 14        | 3.4 ( 3.24)              | 9.0 ( 3.24) | -5.7 ( -14.9, 3.6)          | 0.226   |

Data Source: Appendix 16.1.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.5 Statistical Analysis of Percentage of Time that Electrode is pH <4 over 4 Hours

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Table 14.2.2.5 Statistical Analysis of % of Time that Electrode is pH < 4 Over 4 Hours

| Population   | Comparison |           | Number of Subjects |           | LS Mean (Standard Error) |             | Test-Reference              |         |
|--------------|------------|-----------|--------------------|-----------|--------------------------|-------------|-----------------------------|---------|
|              | Test       | Reference | Test               | Reference | Test                     | Reference   | LS Mean Difference (95% CI) | p-value |
| ITT          | A          | C         | 15                 | 15        | 7.8 ( 3.40)              | 6.6 ( 3.40) | 1.2 ( -8.5, 10.9)           | 0.803   |
|              | A          | D         | 15                 | 14        | 7.8 ( 3.40)              | 9.6 ( 3.52) | -1.8 ( -11.7, 8.1)          | 0.716   |
|              | B          | C         | 14                 | 15        | 4.6 ( 3.52)              | 6.6 ( 3.40) | -2.0 ( -11.9, 7.9)          | 0.683   |
|              | B          | D         | 14                 | 14        | 4.6 ( 3.52)              | 9.6 ( 3.52) | -5.0 ( -15.1, 5.0)          | 0.319   |
| Per Protocol | A          | C         | 14                 | 14        | 5.4 ( 3.33)              | 6.6 ( 3.33) | -1.2 ( -10.7, 8.4)          | 0.808   |
|              | A          | D         | 14                 | 14        | 5.4 ( 3.33)              | 9.8 ( 3.33) | -4.4 ( -13.9, 5.1)          | 0.357   |
|              | B          | C         | 14                 | 14        | 4.5 ( 3.33)              | 6.6 ( 3.33) | -2.0 ( -11.6, 7.5)          | 0.672   |
|              | B          | D         | 14                 | 14        | 4.5 ( 3.33)              | 9.8 ( 3.33) | -5.3 ( -14.8, 4.2)          | 0.270   |

Data Source: Appendix 16.1.9.4

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.6 Statistical Analysis of Percentage of Time that each Electrode is pH <4 over Various Times

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH &lt; 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |       |           |       | Test-Reference          |              |       |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------|-----------|-------|-------------------------|--------------|-------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     |       | Reference |       | LS Mean Difference      |              |       |
|            |           |                               |            |      |                       |      |                          |       |           |       | 95% Confidence Interval | p-value      |       |
| ITT        | 4         | 15 mins                       | A          | C    | 15                    | 15   | 18.8 (                   | 8.69) | 11.7 (    | 8.70) | 7.1 (                   | -13.9, 28.1) | 0.496 |
|            |           |                               | B          | C    | 14                    | 15   | 16.8 (                   | 8.98) | 11.7 (    | 8.70) | 5.1 (                   | -16.8, 26.9) | 0.642 |
|            |           |                               | A          | D    | 15                    | 14   | 18.8 (                   | 8.69) | 21.1 (    | 9.05) | -2.3 (                  | -24.3, 19.8) | 0.835 |
|            |           |                               | B          | D    | 14                    | 14   | 16.8 (                   | 8.98) | 21.1 (    | 9.05) | -4.4 (                  | -26.2, 17.5) | 0.689 |
|            |           | 30 mins                       | A          | C    | 15                    | 15   | 23.6 (                   | 9.09) | 20.6 (    | 9.10) | 3.0 (                   | -18.3, 24.3) | 0.778 |
|            |           |                               | B          | C    | 14                    | 15   | 18.5 (                   | 9.38) | 20.6 (    | 9.10) | -2.1 (                  | -24.3, 20.1) | 0.850 |
|            |           |                               | A          | D    | 15                    | 14   | 23.6 (                   | 9.09) | 28.6 (    | 9.45) | -5.0 (                  | -27.4, 17.4) | 0.653 |
|            |           |                               | B          | D    | 14                    | 14   | 18.5 (                   | 9.38) | 28.6 (    | 9.45) | -10.1 (                 | -32.2, 12.1) | 0.363 |
|            |           | 45 mins                       | A          | C    | 15                    | 15   | 25.1 (                   | 9.41) | 24.3 (    | 9.42) | 0.8 (                   | -21.0, 22.6) | 0.942 |
|            |           |                               | B          | C    | 14                    | 15   | 22.0 (                   | 9.71) | 24.3 (    | 9.42) | -2.3 (                  | -25.1, 20.5) | 0.839 |
|            |           |                               | A          | D    | 15                    | 14   | 25.1 (                   | 9.41) | 34.1 (    | 9.79) | -9.0 (                  | -31.9, 14.0) | 0.433 |
|            |           |                               | B          | D    | 14                    | 14   | 22.0 (                   | 9.71) | 34.1 (    | 9.79) | -12.1 (                 | -34.8, 10.6) | 0.287 |
|            |           | 60 mins                       | A          | C    | 15                    | 15   | 25.7 (                   | 9.51) | 27.4 (    | 9.52) | -1.6 (                  | -24.1, 20.8) | 0.883 |
|            |           |                               | B          | C    | 14                    | 15   | 24.9 (                   | 9.82) | 27.4 (    | 9.52) | -2.5 (                  | -25.9, 20.9) | 0.831 |
|            |           |                               | A          | D    | 15                    | 14   | 25.7 (                   | 9.51) | 35.9 (    | 9.90) | -10.2 (                 | -33.8, 13.4) | 0.387 |
|            |           |                               | B          | D    | 14                    | 14   | 24.9 (                   | 9.82) | 35.9 (    | 9.90) | -11.0 (                 | -34.4, 12.3) | 0.345 |
|            |           | 75 mins                       | A          | C    | 15                    | 15   | 26.9 (                   | 9.46) | 30.7 (    | 9.46) | -3.8 (                  | -27.1, 19.4) | 0.740 |
|            |           |                               | B          | C    | 14                    | 15   | 27.2 (                   | 9.78) | 30.7 (    | 9.46) | -3.5 (                  | -27.7, 20.7) | 0.771 |
|            |           |                               | A          | D    | 15                    | 14   | 26.9 (                   | 9.46) | 37.4 (    | 9.85) | -10.5 (                 | -34.9, 13.9) | 0.389 |
|            |           |                               | B          | D    | 14                    | 14   | 27.2 (                   | 9.78) | 37.4 (    | 9.85) | -10.2 (                 | -34.4, 14.0) | 0.399 |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              |  | Test-Reference          |         |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|--|-------------------------|---------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    |  | LS Mean Difference      |         |
|            |           |                               |            |      |                       |      |                          |              |  | 95% Confidence Interval | p-value |
| ITT        | 4 (ctd.)  | 90 mins                       | A          | C    | 15                    | 15   | 29.5 ( 9.37)             | 32.2 ( 9.38) |  | -2.7 ( -25.9, 20.5)     | 0.815   |
|            |           |                               | B          | C    | 14                    | 15   | 29.6 ( 9.69)             | 32.2 ( 9.38) |  | -2.6 ( -26.7, 21.6)     | 0.830   |
|            |           |                               | A          | D    | 15                    | 14   | 29.5 ( 9.37)             | 38.0 ( 9.77) |  | -8.5 ( -32.9, 15.8)     | 0.482   |
|            |           |                               | B          | D    | 14                    | 14   | 29.6 ( 9.69)             | 38.0 ( 9.77) |  | -8.4 ( -32.6, 15.7)     | 0.485   |
|            | 5         | 15 mins                       | A          | C    | 15                    | 15   | 17.1 ( 8.91)             | 32.3 ( 8.92) |  | -15.1 ( -39.0, 8.7)     | 0.206   |
|            |           |                               | B          | C    | 14                    | 15   | 9.9 ( 9.25)              | 32.3 ( 8.92) |  | -22.4 ( -46.9, 2.0)     | 0.071   |
|            |           |                               | A          | D    | 15                    | 14   | 17.1 ( 8.91)             | 22.9 ( 9.24) |  | -5.8 ( -30.2, 18.6)     | 0.634   |
|            |           |                               | B          | D    | 14                    | 14   | 9.9 ( 9.25)              | 22.9 ( 9.24) |  | -13.0 ( -37.8, 11.7)    | 0.293   |
|            |           | 30 mins                       | A          | C    | 15                    | 15   | 21.8 ( 9.15)             | 38.4 ( 9.17) |  | -16.5 ( -39.2, 6.1)     | 0.148   |
|            |           |                               | B          | C    | 14                    | 15   | 14.4 ( 9.48)             | 38.4 ( 9.17) |  | -24.0 ( -47.3, -0.7)    | 0.044   |
|            |           |                               | A          | D    | 15                    | 14   | 21.8 ( 9.15)             | 25.4 ( 9.47) |  | -3.6 ( -26.8, 19.6)     | 0.757   |
|            |           |                               | B          | D    | 14                    | 14   | 14.4 ( 9.48)             | 25.4 ( 9.47) |  | -11.0 ( -34.6, 12.5)    | 0.349   |
|            |           | 45 mins                       | A          | C    | 15                    | 15   | 26.3 ( 9.32)             | 39.7 ( 9.34) |  | -13.4 ( -35.0, 8.2)     | 0.216   |
|            |           |                               | B          | C    | 14                    | 15   | 18.9 ( 9.63)             | 39.7 ( 9.34) |  | -20.8 ( -43.1, 1.4)     | 0.066   |
|            |           |                               | A          | D    | 15                    | 14   | 26.3 ( 9.32)             | 30.5 ( 9.63) |  | -4.2 ( -26.4, 18.0)     | 0.704   |
|            |           |                               | B          | D    | 14                    | 14   | 18.9 ( 9.63)             | 30.5 ( 9.63) |  | -11.6 ( -34.1, 10.9)    | 0.302   |
|            |           | 60 mins                       | A          | C    | 15                    | 15   | 30.2 ( 9.54)             | 42.1 ( 9.55) |  | -11.9 ( -33.8, 9.9)     | 0.276   |
|            |           |                               | B          | C    | 14                    | 15   | 21.8 ( 9.85)             | 42.1 ( 9.55) |  | -20.3 ( -42.9, 2.3)     | 0.076   |
|            |           |                               | A          | D    | 15                    | 14   | 30.2 ( 9.54)             | 34.5 ( 9.84) |  | -4.3 ( -26.7, 18.2)     | 0.702   |
|            |           |                               | B          | D    | 14                    | 14   | 21.8 ( 9.85)             | 34.5 ( 9.84) |  | -12.6 ( -35.4, 10.1)    | 0.267   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |               | Test-Reference          |         |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|---------------|-------------------------|---------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference     | LS Mean Difference      |         |
|            |           |                               |            |      |                       |      |                          |               | 95% Confidence Interval | p-value |
| ITT        | 5 (ctd.)  | 75 mins                       | A          | C    | 15                    | 15   | 32.3 ( 9.71)             | 42.5 ( 9.73)  | -10.2 ( -32.0, 11.6)    | 0.350   |
|            |           |                               | B          | C    | 14                    | 15   | 25.5 ( 10.02)            | 42.5 ( 9.73)  | -17.0 ( -39.5, 5.5)     | 0.134   |
|            |           |                               | A          | D    | 15                    | 14   | 32.3 ( 9.71)             | 37.1 ( 10.01) | -4.8 ( -27.2, 17.7)     | 0.670   |
|            |           |                               | B          | D    | 14                    | 14   | 25.5 ( 10.02)            | 37.1 ( 10.01) | -11.6 ( -34.2, 11.1)    | 0.308   |
|            |           | 90 mins                       | A          | C    | 15                    | 15   | 34.4 ( 9.69)             | 42.1 ( 9.71)  | -7.7 ( -29.2, 13.8)     | 0.472   |
|            |           |                               | B          | C    | 14                    | 15   | 28.2 ( 10.00)            | 42.1 ( 9.71)  | -13.9 ( -36.1, 8.2)     | 0.211   |
|            |           |                               | A          | D    | 15                    | 14   | 34.4 ( 9.69)             | 38.8 ( 9.99)  | -4.3 ( -26.4, 17.7)     | 0.692   |
|            |           |                               | B          | D    | 14                    | 14   | 28.2 ( 10.00)            | 38.8 ( 9.99)  | -10.6 ( -32.9, 11.8)    | 0.343   |
|            | 6         | 15 mins                       | A          | C    | 15                    | 15   | 16.7 ( 8.56)             | 22.9 ( 8.59)  | -6.2 ( -30.1, 17.8)     | 0.603   |
|            |           |                               | B          | C    | 14                    | 15   | 10.2 ( 8.89)             | 22.9 ( 8.59)  | -12.7 ( -37.1, 11.8)    | 0.300   |
|            |           |                               | A          | D    | 15                    | 14   | 16.7 ( 8.56)             | 16.1 ( 8.91)  | 0.6 ( -23.8, 25.0)      | 0.959   |
|            |           |                               | B          | D    | 14                    | 14   | 10.2 ( 8.89)             | 16.1 ( 8.91)  | -5.9 ( -30.7, 19.0)     | 0.635   |
|            |           | 30 mins                       | A          | C    | 15                    | 15   | 19.8 ( 9.07)             | 33.4 ( 9.10)  | -13.6 ( -37.5, 10.3)    | 0.256   |
|            |           |                               | B          | C    | 14                    | 15   | 13.5 ( 9.40)             | 33.4 ( 9.10)  | -19.9 ( -44.3, 4.5)     | 0.108   |
|            |           |                               | A          | D    | 15                    | 14   | 19.8 ( 9.07)             | 21.6 ( 9.42)  | -1.8 ( -26.2, 22.6)     | 0.883   |
|            |           |                               | B          | D    | 14                    | 14   | 13.5 ( 9.40)             | 21.6 ( 9.42)  | -8.1 ( -32.9, 16.7)     | 0.514   |
|            |           | 45 mins                       | A          | C    | 15                    | 15   | 23.6 ( 9.30)             | 36.7 ( 9.33)  | -13.1 ( -36.4, 10.2)    | 0.261   |
|            |           |                               | B          | C    | 14                    | 15   | 15.8 ( 9.63)             | 36.7 ( 9.33)  | -20.9 ( -44.7, 3.0)     | 0.084   |
|            |           |                               | A          | D    | 15                    | 14   | 23.6 ( 9.30)             | 26.6 ( 9.65)  | -3.0 ( -26.8, 20.8)     | 0.801   |
|            |           |                               | B          | D    | 14                    | 14   | 15.8 ( 9.63)             | 26.6 ( 9.65)  | -10.7 ( -34.9, 13.4)    | 0.374   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference          |         |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|-------------------------|---------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference      |         |
|            |           |                               |            |      |                       |      |                          |              | 95% Confidence Interval | p-value |
| ITT        | 6 (ctd.)  | 60 mins                       | A          | C    | 15                    | 15   | 26.3 ( 9.40)             | 40.8 ( 9.43) | -14.5 ( -37.4, 8.3)     | 0.206   |
|            |           |                               | B          | C    | 14                    | 15   | 19.3 ( 9.71)             | 40.8 ( 9.43) | -21.5 ( -44.9, 1.9)     | 0.071   |
|            |           |                               | A          | D    | 15                    | 14   | 26.3 ( 9.40)             | 29.9 ( 9.73) | -3.6 ( -27.0, 19.7)     | 0.754   |
|            |           |                               | B          | D    | 14                    | 14   | 19.3 ( 9.71)             | 29.9 ( 9.73) | -10.6 ( -34.3, 13.1)    | 0.370   |
|            |           | 75 mins                       | A          | C    | 15                    | 15   | 27.3 ( 9.47)             | 42.8 ( 9.50) | -15.5 ( -38.0, 7.0)     | 0.172   |
|            |           |                               | B          | C    | 14                    | 15   | 24.1 ( 9.78)             | 42.8 ( 9.50) | -18.7 ( -41.8, 4.4)     | 0.110   |
|            |           |                               | A          | D    | 15                    | 14   | 27.3 ( 9.47)             | 32.6 ( 9.80) | -5.3 ( -28.3, 17.8)     | 0.645   |
|            |           |                               | B          | D    | 14                    | 14   | 24.1 ( 9.78)             | 32.6 ( 9.80) | -8.5 ( -31.8, 14.9)     | 0.468   |
|            |           | 90 mins                       | A          | C    | 15                    | 15   | 28.8 ( 9.53)             | 45.3 ( 9.56) | -16.5 ( -38.5, 5.5)     | 0.138   |
|            |           |                               | B          | C    | 14                    | 15   | 27.4 ( 9.82)             | 45.3 ( 9.56) | -17.8 ( -40.4, 4.7)     | 0.118   |
|            |           |                               | A          | D    | 15                    | 14   | 28.8 ( 9.53)             | 34.2 ( 9.85) | -5.5 ( -28.0, 17.1)     | 0.626   |
|            |           |                               | B          | D    | 14                    | 14   | 27.4 ( 9.82)             | 34.2 ( 9.85) | -6.8 ( -29.7, 16.0)     | 0.548   |
|            | 7         | 15 mins                       | A          | C    | 15                    | 15   | 15.4 ( 7.96)             | 16.7 ( 7.98) | -1.3 ( -21.9, 19.2)     | 0.895   |
|            |           |                               | B          | C    | 14                    | 15   | 19.5 ( 8.25)             | 16.7 ( 7.98) | 2.8 ( -18.3, 23.9)      | 0.789   |
|            |           |                               | A          | D    | 15                    | 14   | 15.4 ( 7.96)             | 19.6 ( 8.30) | -4.3 ( -25.4, 16.9)     | 0.686   |
|            |           |                               | B          | D    | 14                    | 14   | 19.5 ( 8.25)             | 19.6 ( 8.30) | -0.1 ( -21.6, 21.4)     | 0.992   |
|            |           | 30 mins                       | A          | C    | 15                    | 15   | 16.9 ( 8.47)             | 27.5 ( 8.50) | -10.6 ( -33.2, 12.0)    | 0.348   |
|            |           |                               | B          | C    | 14                    | 15   | 19.3 ( 8.79)             | 27.5 ( 8.50) | -8.1 ( -31.2, 14.9)     | 0.479   |
|            |           |                               | A          | D    | 15                    | 14   | 16.9 ( 8.47)             | 24.8 ( 8.84) | -7.9 ( -31.1, 15.3)     | 0.495   |
|            |           |                               | B          | D    | 14                    | 14   | 19.3 ( 8.79)             | 24.8 ( 8.84) | -5.4 ( -29.0, 18.1)     | 0.643   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              |                      |       | Test-Reference                                |  |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|----------------------|-------|---|--|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     |              | Reference            |       | LS Mean Difference<br>95% Confidence Interval |  |
|            |           |                               |            |      |                       |      |                          |              |                      |       | p-value                                       |  |
| ITT        | 7 (ctd.)  | 45 mins                       | A          | C    | 15                    | 15   | 19.4 ( 8.79)             | 38.1 ( 8.82) | -18.7 ( -41.2, 3.7)  | 0.099 |   |  |
|            |           |                               | B          | C    | 14                    | 15   | 21.3 ( 9.11)             | 38.1 ( 8.82) | -16.8 ( -39.8, 6.2)  | 0.147 |   |  |
|            |           |                               | A          | D    | 15                    | 14   | 19.4 ( 8.79)             | 32.3 ( 9.16) | -12.9 ( -36.0, 10.2) | 0.266 |   |  |
|            |           |                               | B          | D    | 14                    | 14   | 21.3 ( 9.11)             | 32.3 ( 9.16) | -10.9 ( -34.4, 12.5) | 0.352 |   |  |
|            |           | 60 mins                       | A          | C    | 15                    | 15   | 21.2 ( 8.92)             | 45.0 ( 8.94) | -23.7 ( -46.3, -1.2) | 0.040 |   |  |
|            |           |                               | B          | C    | 14                    | 15   | 25.4 ( 9.23)             | 45.0 ( 8.94) | -19.6 ( -42.6, 3.5)  | 0.094 |   |  |
|            |           |                               | A          | D    | 15                    | 14   | 21.2 ( 8.92)             | 34.6 ( 9.29) | -13.4 ( -36.6, 9.8)  | 0.248 |   |  |
|            |           |                               | B          | D    | 14                    | 14   | 25.4 ( 9.23)             | 34.6 ( 9.29) | -9.2 ( -32.8, 14.3)  | 0.431 |   |  |
|            |           | 75 mins                       | A          | C    | 15                    | 15   | 21.9 ( 8.95)             | 49.5 ( 8.98) | -27.6 ( -50.0, -5.2) | 0.017 |   |  |
|            |           |                               | B          | C    | 14                    | 15   | 28.7 ( 9.26)             | 49.5 ( 8.98) | -20.8 ( -43.7, 2.1)  | 0.074 |   |  |
|            |           |                               | A          | D    | 15                    | 14   | 21.9 ( 8.95)             | 35.2 ( 9.32) | -13.3 ( -36.3, 9.8)  | 0.251 |   |  |
|            |           |                               | B          | D    | 14                    | 14   | 28.7 ( 9.26)             | 35.2 ( 9.32) | -6.5 ( -29.8, 16.9)  | 0.579 |   |  |
|            | 8         | 15 mins                       | A          | C    | 15                    | 15   | 22.9 ( 8.88)             | 52.7 ( 8.91) | -29.8 ( -51.8, -7.8) | 0.009 |   |  |
|            |           |                               | B          | C    | 14                    | 15   | 32.0 ( 9.19)             | 52.7 ( 8.91) | -20.7 ( -43.2, 1.8)  | 0.070 |   |  |
|            |           |                               | A          | D    | 15                    | 14   | 22.9 ( 8.88)             | 35.7 ( 9.25) | -12.8 ( -35.4, 9.8)  | 0.259 |   |  |
|            |           |                               | B          | D    | 14                    | 14   | 32.0 ( 9.19)             | 35.7 ( 9.25) | -3.7 ( -26.7, 19.2)  | 0.744 |   |  |
|            |           |                               | A          | C    | 15                    | 15   | 16.3 ( 8.71)             | 19.5 ( 8.75) | -3.2 ( -25.1, 18.6)  | 0.766 |   |  |
|            |           |                               | B          | C    | 14                    | 15   | 23.1 ( 9.01)             | 19.5 ( 8.75) | 3.6 ( -18.7, 26.0)   | 0.743 |   |  |
|            |           |                               | A          | D    | 15                    | 14   | 16.3 ( 8.71)             | 23.0 ( 9.06) | -6.7 ( -29.1, 15.7)  | 0.549 |   |  |
|            |           |                               | B          | D    | 14                    | 14   | 23.1 ( 9.01)             | 23.0 ( 9.06) | 0.2 ( -22.6, 22.9)   | 0.987 |   |  |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference                                |         |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---|---------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference<br>95% Confidence Interval | p-value |
| ITT        | 8 (ctd.)  | 30 mins                       | A          | C    | 15                    | 15   | 19.2 ( 8.91)             | 29.7 ( 8.95) | -10.5 ( -32.2, 11.2)                          | 0.332   |
|            |           |                               | B          | C    | 14                    | 15   | 24.8 ( 9.21)             | 29.7 ( 8.95) | -5.0 ( -27.2, 17.3)                           | 0.655   |
|            |           |                               | A          | D    | 15                    | 14   | 19.2 ( 8.91)             | 25.0 ( 9.26) | -5.8 ( -28.0, 16.5)                           | 0.604   |
|            |           |                               | B          | D    | 14                    | 14   | 24.8 ( 9.21)             | 25.0 ( 9.26) | -0.2 ( -22.8, 22.4)                           | 0.988   |
|            |           | 45 mins                       | A          | C    | 15                    | 15   | 19.3 ( 9.09)             | 39.6 ( 9.12) | -20.3 ( -41.9, 1.4)                           | 0.066   |
|            |           |                               | B          | C    | 14                    | 15   | 26.1 ( 9.38)             | 39.6 ( 9.12) | -13.5 ( -35.7, 8.7)                           | 0.226   |
|            |           |                               | A          | D    | 15                    | 14   | 19.3 ( 9.09)             | 32.4 ( 9.44) | -13.1 ( -35.3, 9.2)                           | 0.241   |
|            |           |                               | B          | D    | 14                    | 14   | 26.1 ( 9.38)             | 32.4 ( 9.44) | -6.3 ( -28.9, 16.2)                           | 0.574   |
|            |           | 60 mins                       | A          | C    | 15                    | 15   | 20.6 ( 9.18)             | 45.5 ( 9.22) | -24.9 ( -46.4, -3.4)                          | 0.025   |
|            |           |                               | B          | C    | 14                    | 15   | 29.3 ( 9.47)             | 45.5 ( 9.22) | -16.3 ( -38.3, 5.8)                           | 0.144   |
|            |           |                               | A          | D    | 15                    | 14   | 20.6 ( 9.18)             | 35.5 ( 9.53) | -14.8 ( -37.0, 7.3)                           | 0.183   |
|            |           |                               | B          | D    | 14                    | 14   | 29.3 ( 9.47)             | 35.5 ( 9.53) | -6.2 ( -28.6, 16.2)                           | 0.579   |
|            |           | 75 mins                       | A          | C    | 15                    | 15   | 21.7 ( 9.27)             | 50.3 ( 9.31) | -28.6 ( -50.5, -6.8)                          | 0.012   |
|            |           |                               | B          | C    | 14                    | 15   | 33.5 ( 9.57)             | 50.3 ( 9.31) | -16.8 ( -39.2, 5.7)                           | 0.139   |
|            |           |                               | A          | D    | 15                    | 14   | 21.7 ( 9.27)             | 39.7 ( 9.63) | -18.0 ( -40.5, 4.5)                           | 0.113   |
|            |           |                               | B          | D    | 14                    | 14   | 33.5 ( 9.57)             | 39.7 ( 9.63) | -6.1 ( -28.9, 16.6)                           | 0.588   |
|            |           | 90 mins                       | A          | C    | 15                    | 15   | 23.3 ( 9.26)             | 52.5 ( 9.30) | -29.2 ( -51.2, -7.1)                          | 0.011   |
|            |           |                               | B          | C    | 14                    | 15   | 37.5 ( 9.56)             | 52.5 ( 9.30) | -14.9 ( -37.6, 7.7)                           | 0.189   |
|            |           |                               | A          | D    | 15                    | 14   | 23.3 ( 9.26)             | 42.3 ( 9.62) | -19.1 ( -41.7, 3.6)                           | 0.097   |
|            |           |                               | B          | D    | 14                    | 14   | 37.5 ( 9.56)             | 42.3 ( 9.62) | -4.8 ( -27.8, 18.1)                           | 0.673   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference          |         |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|-------------------------|---------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference      |         |
|            |           |                               |            |      |                       |      |                          |              | 95% Confidence Interval | p-value |
| ITT        | 9         | 15 mins                       | A          | C    | 15                    | 15   | 16.3 ( 9.02)             | 19.8 ( 9.06) | -3.5 ( -24.9, 17.9)     | 0.742   |
|            |           |                               | B          | C    | 14                    | 15   | 27.7 ( 9.31)             | 19.8 ( 9.06) | 7.9 ( -14.0, 29.9)      | 0.468   |
|            |           |                               | A          | D    | 15                    | 14   | 16.3 ( 9.02)             | 28.5 ( 9.32) | -12.2 ( -34.1, 9.6)     | 0.265   |
|            |           |                               | B          | D    | 14                    | 14   | 27.7 ( 9.31)             | 28.5 ( 9.32) | -0.8 ( -22.9, 21.4)     | 0.946   |
|            |           | 30 mins                       | A          | C    | 15                    | 15   | 15.2 ( 9.10)             | 25.3 ( 9.14) | -10.1 ( -30.9, 10.6)    | 0.329   |
|            |           |                               | B          | C    | 14                    | 15   | 30.2 ( 9.38)             | 25.3 ( 9.14) | 4.9 ( -16.4, 26.1)      | 0.646   |
|            |           |                               | A          | D    | 15                    | 14   | 15.2 ( 9.10)             | 36.5 ( 9.39) | -21.3 ( -42.5, -0.1)    | 0.049   |
|            |           |                               | B          | D    | 14                    | 14   | 30.2 ( 9.38)             | 36.5 ( 9.39) | -6.3 ( -27.8, 15.2)     | 0.554   |
|            |           | 45 mins                       | A          | C    | 15                    | 15   | 15.7 ( 9.01)             | 33.2 ( 9.04) | -17.6 ( -36.7, 1.6)     | 0.071   |
|            |           |                               | B          | C    | 14                    | 15   | 32.0 ( 9.25)             | 33.2 ( 9.04) | -1.2 ( -20.9, 18.4)     | 0.899   |
|            |           |                               | A          | D    | 15                    | 14   | 15.7 ( 9.01)             | 42.3 ( 9.26) | -26.6 ( -46.2, -7.1)    | 0.009   |
|            |           |                               | B          | D    | 14                    | 14   | 32.0 ( 9.25)             | 42.3 ( 9.26) | -10.3 ( -30.1, 9.5)     | 0.299   |
|            |           | 60 mins                       | A          | C    | 15                    | 15   | 16.3 ( 8.86)             | 40.0 ( 8.89) | -23.7 ( -41.7, -5.6)    | 0.012   |
|            |           |                               | B          | C    | 14                    | 15   | 34.6 ( 9.09)             | 40.0 ( 8.89) | -5.4 ( -23.9, 13.2)     | 0.562   |
|            |           |                               | A          | D    | 15                    | 14   | 16.3 ( 8.86)             | 44.3 ( 9.10) | -28.0 ( -46.5, -9.5)    | 0.004   |
|            |           |                               | B          | D    | 14                    | 14   | 34.6 ( 9.09)             | 44.3 ( 9.10) | -9.7 ( -28.5, 9.0)      | 0.299   |
|            |           | 75 mins                       | A          | C    | 15                    | 15   | 17.5 ( 8.74)             | 43.7 ( 8.77) | -26.2 ( -43.9, -8.5)    | 0.005   |
|            |           |                               | B          | C    | 14                    | 15   | 38.2 ( 8.96)             | 43.7 ( 8.77) | -5.4 ( -23.6, 12.7)     | 0.547   |
|            |           |                               | A          | D    | 15                    | 14   | 17.5 ( 8.74)             | 47.2 ( 8.97) | -29.8 ( -47.8, -11.7)   | 0.002   |
|            |           |                               | B          | D    | 14                    | 14   | 38.2 ( 8.96)             | 47.2 ( 8.97) | -9.0 ( -27.3, 9.3)      | 0.325   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |               | Test-Reference          |         |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|---------------|-------------------------|---------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference     | LS Mean Difference      |         |
|            |           |                               |            |      |                       |      |                          |               | 95% Confidence Interval | p-value |
| ITT        | 9 (ctd.)  | 90 mins                       | A          | C    | 15                    | 15   | 19.2 ( 8.37)             | 46.1 ( 8.39)  | -26.9 ( -44.3, -9.5)    | 0.003   |
|            |           |                               | B          | C    | 14                    | 15   | 41.3 ( 8.59)             | 46.1 ( 8.39)  | -4.8 ( -22.7, 13.1)     | 0.589   |
|            |           |                               | A          | D    | 15                    | 14   | 19.2 ( 8.37)             | 50.7 ( 8.59)  | -31.4 ( -49.2, -13.6)   | <0.001  |
|            |           |                               | B          | D    | 14                    | 14   | 41.3 ( 8.59)             | 50.7 ( 8.59)  | -9.3 ( -27.4, 8.7)      | 0.301   |
|            |           | 15 mins                       | A          | C    | 15                    | 15   | 16.1 ( 9.67)             | 36.2 ( 9.65)  | -20.0 ( -46.2, 6.1)     | 0.130   |
|            |           |                               | B          | C    | 14                    | 15   | 30.1 ( 10.04)            | 36.2 ( 9.65)  | -6.0 ( -32.7, 20.6)     | 0.649   |
|            |           |                               | A          | D    | 15                    | 14   | 16.1 ( 9.67)             | 44.8 ( 10.01) | -28.7 ( -55.4, -2.0)    | 0.036   |
|            |           |                               | B          | D    | 14                    | 14   | 30.1 ( 10.04)            | 44.8 ( 10.01) | -14.7 ( -41.9, 12.4)    | 0.279   |
|            |           | 30 mins                       | A          | C    | 15                    | 15   | 17.2 ( 9.09)             | 44.3 ( 9.07)  | -27.0 ( -50.8, -3.2)    | 0.027   |
|            |           |                               | B          | C    | 14                    | 15   | 34.2 ( 9.42)             | 44.3 ( 9.07)  | -10.0 ( -34.3, 14.2)    | 0.408   |
|            |           |                               | A          | D    | 15                    | 14   | 17.2 ( 9.09)             | 50.8 ( 9.40)  | -33.5 ( -57.9, -9.2)    | 0.008   |
|            |           |                               | B          | D    | 14                    | 14   | 34.2 ( 9.42)             | 50.8 ( 9.40)  | -16.5 ( -41.2, 8.1)     | 0.183   |
|            | 10        | 45 mins                       | A          | C    | 15                    | 15   | 23.3 ( 8.83)             | 50.6 ( 8.81)  | -27.2 ( -49.1, -5.4)    | 0.016   |
|            |           |                               | B          | C    | 14                    | 15   | 39.0 ( 9.13)             | 50.6 ( 8.81)  | -11.6 ( -33.9, 10.7)    | 0.300   |
|            |           |                               | A          | D    | 15                    | 14   | 23.3 ( 8.83)             | 57.1 ( 9.11)  | -33.8 ( -56.1, -11.4)   | 0.004   |
|            |           |                               | B          | D    | 14                    | 14   | 39.0 ( 9.13)             | 57.1 ( 9.11)  | -18.1 ( -40.7, 4.6)     | 0.114   |
|            |           | 60 mins                       | A          | C    | 15                    | 15   | 30.3 ( 8.48)             | 55.5 ( 8.47)  | -25.2 ( -44.9, -5.5)    | 0.013   |
|            |           |                               | B          | C    | 14                    | 15   | 44.1 ( 8.75)             | 55.5 ( 8.47)  | -11.4 ( -31.5, 8.7)     | 0.258   |
|            |           |                               | A          | D    | 15                    | 14   | 30.3 ( 8.48)             | 59.3 ( 8.73)  | -29.0 ( -49.1, -8.8)    | 0.006   |
|            |           |                               | B          | D    | 14                    | 14   | 44.1 ( 8.75)             | 59.3 ( 8.73)  | -15.2 ( -35.6, 5.2)     | 0.140   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference                                |         |
|------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---|---------|
|            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference<br>95% Confidence Interval | p-value |
| ITT        | 10 (ctd.) | 75 mins                       | A          | C    | 15                    | 15   | 35.8 ( 8.30)             | 58.3 ( 8.29) | -22.4 ( -41.2, -3.7)                          | 0.020   |
|            |           |                               | B          | C    | 14                    | 15   | 48.5 ( 8.56)             | 58.3 ( 8.29) | -9.7 ( -28.9, 9.5)                            | 0.311   |
|            |           |                               | A          | D    | 15                    | 14   | 35.8 ( 8.30)             | 62.8 ( 8.54) | -27.0 ( -46.2, -7.8)                          | 0.007   |
|            |           |                               | B          | D    | 14                    | 14   | 48.5 ( 8.56)             | 62.8 ( 8.54) | -14.3 ( -33.8, 5.2)                           | 0.145   |
|            |           | 90 mins                       | A          | C    | 15                    | 15   | 39.2 ( 8.19)             | 60.5 ( 8.18) | -21.3 ( -40.1, -2.5)                          | 0.027   |
|            |           |                               | B          | C    | 14                    | 15   | 51.0 ( 8.45)             | 60.5 ( 8.18) | -9.5 ( -28.7, 9.7)                            | 0.322   |
|            |           |                               | A          | D    | 15                    | 14   | 39.2 ( 8.19)             | 67.0 ( 8.43) | -27.8 ( -47.0, -8.6)                          | 0.006   |
|            |           |                               | B          | D    | 14                    | 14   | 51.0 ( 8.45)             | 67.0 ( 8.43) | -16.0 ( -35.5, 3.5)                           | 0.104   |
|            | 11        | 15 mins                       | A          | C    | 15                    | 15   | 34.6 ( 9.16)             | 74.5 ( 9.09) | -39.9 ( -65.1, -14.7)                         | 0.003   |
|            |           |                               | B          | C    | 14                    | 15   | 52.8 ( 9.42)             | 74.5 ( 9.09) | -21.6 ( -47.0, 3.7)                           | 0.092   |
|            |           |                               | A          | D    | 15                    | 14   | 34.6 ( 9.16)             | 65.8 ( 9.40) | -31.3 ( -56.8, -5.7)                          | 0.018   |
|            |           |                               | B          | D    | 14                    | 14   | 52.8 ( 9.42)             | 65.8 ( 9.40) | -13.0 ( -38.8, 12.9)                          | 0.316   |
|            |           | 30 mins                       | A          | C    | 15                    | 15   | 44.5 ( 9.00)             | 76.2 ( 8.93) | -31.6 ( -56.5, -6.8)                          | 0.014   |
|            |           |                               | B          | C    | 14                    | 15   | 52.5 ( 9.26)             | 76.2 ( 8.93) | -23.6 ( -48.7, 1.4)                           | 0.063   |
|            |           |                               | A          | D    | 15                    | 14   | 44.5 ( 9.00)             | 68.6 ( 9.24) | -24.1 ( -49.3, 1.1)                           | 0.060   |
|            |           |                               | B          | D    | 14                    | 14   | 52.5 ( 9.26)             | 68.6 ( 9.24) | -16.1 ( -41.6, 9.3)                           | 0.207   |
|            |           | 45 mins                       | A          | C    | 15                    | 15   | 50.9 ( 8.73)             | 75.9 ( 8.66) | -25.0 ( -49.4, -0.6)                          | 0.045   |
|            |           |                               | B          | C    | 14                    | 15   | 55.9 ( 8.98)             | 75.9 ( 8.66) | -20.0 ( -44.6, 4.5)                           | 0.106   |
|            |           |                               | A          | D    | 15                    | 14   | 50.9 ( 8.73)             | 71.5 ( 8.96) | -20.6 ( -45.4, 4.1)                           | 0.099   |
|            |           |                               | B          | D    | 14                    | 14   | 55.9 ( 8.98)             | 71.5 ( 8.96) | -15.7 ( -40.7, 9.3)                           | 0.211   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population     | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |              | LS Mean (Standard Error) |                     |                      |       | Test-Reference          |         |
|----------------|-----------|-------------------------------|------------|------|-----------------------|--------------|--------------------------|---------------------|----------------------|-------|-------------------------|---------|
|                |           |                               | Test       | Ref. | Test                  | Ref.         | Test                     |                     | Reference            |       | LS Mean Difference      |         |
|                |           |                               |            |      |                       |              |                          |                     |                      |       | 95% Confidence Interval | p-value |
| ITT            | 11 (ctd.) | 60 mins                       | A          | C    | 15                    | 15           | 54.5 ( 8.13)             | 77.0 ( 8.07)        | -22.5 ( -44.9, 0.0)  | 0.050 |                         |         |
|                |           |                               | B          | C    | 14                    | 15           | 59.9 ( 8.37)             | 77.0 ( 8.07)        | -17.1 ( -39.6, 5.5)  | 0.134 |                         |         |
|                |           |                               | A          | D    | 15                    | 14           | 54.5 ( 8.13)             | 75.2 ( 8.35)        | -20.7 ( -43.5, 2.1)  | 0.073 |                         |         |
|                |           |                               | B          | D    | 14                    | 14           | 59.9 ( 8.37)             | 75.2 ( 8.35)        | -15.3 ( -38.3, 7.7)  | 0.186 |                         |         |
|                |           | 75 mins                       | A          | C    | 15                    | 15           | 58.4 ( 7.70)             | 77.7 ( 7.64)        | -19.4 ( -40.2, 1.5)  | 0.068 |                         |         |
|                |           |                               | B          | C    | 14                    | 15           | 61.9 ( 7.92)             | 77.7 ( 7.64)        | -15.8 ( -36.8, 5.2)  | 0.135 |                         |         |
|                |           |                               | A          | D    | 15                    | 14           | 58.4 ( 7.70)             | 78.3 ( 7.90)        | -20.0 ( -41.2, 1.2)  | 0.064 |                         |         |
|                |           |                               | B          | D    | 14                    | 14           | 61.9 ( 7.92)             | 78.3 ( 7.90)        | -16.4 ( -37.8, 4.9)  | 0.128 |                         |         |
|                |           | 90 mins                       | A          | C    | 15                    | 15           | 61.8 ( 7.22)             | 78.3 ( 7.16)        | -16.5 ( -35.9, 2.9)  | 0.094 |                         |         |
|                |           |                               | B          | C    | 14                    | 15           | 64.0 ( 7.42)             | 78.3 ( 7.16)        | -14.3 ( -33.8, 5.2)  | 0.146 |                         |         |
|                |           |                               | A          | D    | 15                    | 14           | 61.8 ( 7.22)             | 80.4 ( 7.41)        | -18.5 ( -38.2, 1.2)  | 0.064 |                         |         |
|                |           |                               | B          | D    | 14                    | 14           | 64.0 ( 7.42)             | 80.4 ( 7.41)        | -16.4 ( -36.3, 3.5)  | 0.103 |                         |         |
| Per Protocol 4 | 15 mins   | A                             | C          | 14   | 14                    | 12.9 ( 8.50) | 13.3 ( 8.63)             | -0.3 ( -20.6, 19.9) | 0.973                |       |                         |         |
|                |           | B                             | C          | 14   | 14                    | 14.8 ( 8.53) | 13.3 ( 8.63)             | 1.5 ( -19.4, 22.4)  | 0.886                |       |                         |         |
|                |           | A                             | D          | 14   | 14                    | 12.9 ( 8.50) | 19.5 ( 8.58)             | -6.5 ( -27.2, 14.1) | 0.526                |       |                         |         |
|                |           | B                             | D          | 14   | 14                    | 14.8 ( 8.53) | 19.5 ( 8.58)             | -4.7 ( -24.9, 15.5) | 0.641                |       |                         |         |
|                |           | 30 mins                       | A          | C    | 14                    | 14           | 17.7 ( 8.96)             | 19.4 ( 9.09)        | -1.7 ( -23.3, 19.9)  | 0.876 |                         |         |
|                |           |                               | B          | C    | 14                    | 14           | 16.3 ( 8.98)             | 19.4 ( 9.09)        | -3.1 ( -25.3, 19.1)  | 0.781 |                         |         |
|                |           |                               | A          | D    | 14                    | 14           | 17.7 ( 8.96)             | 26.7 ( 9.05)        | -9.0 ( -30.9, 13.0)  | 0.413 |                         |         |
|                |           |                               | B          | D    | 14                    | 14           | 16.3 ( 8.98)             | 26.7 ( 9.05)        | -10.4 ( -31.9, 11.2) | 0.335 |                         |         |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population            | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              |  |  | Test-Reference          |         |
|-----------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|--|--|-------------------------|---------|
|                       |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    |  |  | LS Mean Difference      |         |
|                       |           |                               |            |      |                       |      |                          |              |  |  | 95% Confidence Interval | p-value |
| Per Protocol 4 (ctd.) | 5         | 45 mins                       | A          | C    | 14                    | 14   | 19.1 ( 9.28)             | 22.3 ( 9.42) |  |  | -3.2 ( -25.5, 19.1)     | 0.774   |
|                       |           |                               | B          | C    | 14                    | 14   | 19.6 ( 9.31)             | 22.3 ( 9.42) |  |  | -2.7 ( -25.6, 20.3)     | 0.815   |
|                       |           |                               | A          | D    | 14                    | 14   | 19.1 ( 9.28)             | 32.0 ( 9.37) |  |  | -12.9 ( -35.6, 9.8)     | 0.258   |
|                       |           |                               | B          | D    | 14                    | 14   | 19.6 ( 9.31)             | 32.0 ( 9.37) |  |  | -12.4 ( -34.6, 9.9)     | 0.267   |
|                       |           | 60 mins                       | A          | C    | 14                    | 14   | 19.7 ( 9.40)             | 25.2 ( 9.55) |  |  | -5.5 ( -28.5, 17.5)     | 0.631   |
|                       |           |                               | B          | C    | 14                    | 14   | 22.6 ( 9.43)             | 25.2 ( 9.55) |  |  | -2.6 ( -26.2, 21.0)     | 0.825   |
|                       |           |                               | A          | D    | 14                    | 14   | 19.7 ( 9.40)             | 33.9 ( 9.50) |  |  | -14.2 ( -37.6, 9.2)     | 0.227   |
|                       |           |                               | B          | D    | 14                    | 14   | 22.6 ( 9.43)             | 33.9 ( 9.50) |  |  | -11.3 ( -34.2, 11.6)    | 0.324   |
|                       |           | 75 mins                       | A          | C    | 14                    | 14   | 20.8 ( 9.37)             | 28.4 ( 9.51) |  |  | -7.6 ( -31.5, 16.3)     | 0.523   |
|                       |           |                               | B          | C    | 14                    | 14   | 25.2 ( 9.39)             | 28.4 ( 9.51) |  |  | -3.2 ( -27.7, 21.2)     | 0.791   |
|                       |           |                               | A          | D    | 14                    | 14   | 20.8 ( 9.37)             | 35.7 ( 9.46) |  |  | -14.9 ( -39.1, 9.4)     | 0.222   |
|                       |           |                               | B          | D    | 14                    | 14   | 25.2 ( 9.39)             | 35.7 ( 9.46) |  |  | -10.5 ( -34.3, 13.3)    | 0.377   |
|                       |           | 90 mins                       | A          | C    | 14                    | 14   | 23.5 ( 9.27)             | 29.7 ( 9.42) |  |  | -6.2 ( -30.1, 17.6)     | 0.600   |
|                       |           |                               | B          | C    | 14                    | 14   | 27.7 ( 9.30)             | 29.7 ( 9.42) |  |  | -2.0 ( -26.5, 22.4)     | 0.867   |
|                       |           |                               | A          | D    | 14                    | 14   | 23.5 ( 9.27)             | 36.4 ( 9.37) |  |  | -12.9 ( -37.1, 11.3)    | 0.287   |
|                       |           |                               | B          | D    | 14                    | 14   | 27.7 ( 9.30)             | 36.4 ( 9.37) |  |  | -8.7 ( -32.5, 15.1)     | 0.462   |
|                       | 5         | 15 mins                       | A          | C    | 14                    | 14   | 11.8 ( 8.91)             | 34.9 ( 8.98) |  |  | -23.1 ( -46.5, 0.4)     | 0.054   |
|                       |           |                               | B          | C    | 14                    | 14   | 8.9 ( 8.93)              | 34.9 ( 8.98) |  |  | -26.0 ( -49.6, -2.4)    | 0.032   |
|                       |           |                               | A          | D    | 14                    | 14   | 11.8 ( 8.91)             | 22.6 ( 8.92) |  |  | -10.8 ( -34.2, 12.6)    | 0.355   |
|                       |           |                               | B          | D    | 14                    | 14   | 8.9 ( 8.93)              | 22.6 ( 8.92) |  |  | -13.7 ( -37.1, 9.6)     | 0.242   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population            | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference                                |         |
|-----------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---|---------|
|                       |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference<br>95% Confidence Interval | p-value |
| Per Protocol 5 (ctd.) | 30 mins   |                               | A          | C    | 14                    | 14   | 16.7 ( 9.28)             | 38.8 ( 9.36) | -22.1 ( -45.1, 0.9)                           | 0.059   |
|                       |           |                               | B          | C    | 14                    | 14   | 12.9 ( 9.30)             | 38.8 ( 9.36) | -25.9 ( -49.0, -2.8)                          | 0.029   |
|                       |           |                               | A          | D    | 14                    | 14   | 16.7 ( 9.28)             | 24.4 ( 9.29) | -7.7 ( -30.5, 15.2)                           | 0.499   |
|                       |           |                               | B          | D    | 14                    | 14   | 12.9 ( 9.30)             | 24.4 ( 9.29) | -11.5 ( -34.3, 11.3)                          | 0.314   |
|                       | 45 mins   |                               | A          | C    | 14                    | 14   | 21.3 ( 9.47)             | 38.9 ( 9.54) | -17.6 ( -39.8, 4.6)                           | 0.117   |
|                       |           |                               | B          | C    | 14                    | 14   | 17.0 ( 9.49)             | 38.9 ( 9.54) | -21.9 ( -44.4, 0.5)                           | 0.055   |
|                       |           |                               | A          | D    | 14                    | 14   | 21.3 ( 9.47)             | 28.9 ( 9.48) | -7.6 ( -29.7, 14.5)                           | 0.491   |
|                       |           |                               | B          | D    | 14                    | 14   | 17.0 ( 9.49)             | 28.9 ( 9.48) | -11.9 ( -34.1, 10.2)                          | 0.281   |
|                       | 60 mins   |                               | A          | C    | 14                    | 14   | 25.5 ( 9.72)             | 40.9 ( 9.80) | -15.4 ( -38.1, 7.3)                           | 0.178   |
|                       |           |                               | B          | C    | 14                    | 14   | 19.9 ( 9.75)             | 40.9 ( 9.80) | -21.0 ( -43.9, 1.9)                           | 0.071   |
|                       |           |                               | A          | D    | 14                    | 14   | 25.5 ( 9.72)             | 32.9 ( 9.73) | -7.3 ( -29.9, 15.2)                           | 0.514   |
|                       |           |                               | B          | D    | 14                    | 14   | 19.9 ( 9.75)             | 32.9 ( 9.73) | -12.9 ( -35.5, 9.7)                           | 0.253   |
|                       | 75 mins   |                               | A          | C    | 14                    | 14   | 27.8 ( 9.91)             | 41.0 ( 9.99) | -13.2 ( -35.9, 9.6)                           | 0.249   |
|                       |           |                               | B          | C    | 14                    | 14   | 23.5 ( 9.94)             | 41.0 ( 9.99) | -17.4 ( -40.4, 5.5)                           | 0.133   |
|                       |           |                               | A          | D    | 14                    | 14   | 27.8 ( 9.91)             | 35.4 ( 9.93) | -7.6 ( -30.2, 15.1)                           | 0.503   |
|                       |           |                               | B          | D    | 14                    | 14   | 23.5 ( 9.94)             | 35.4 ( 9.93) | -11.8 ( -34.4, 10.8)                          | 0.297   |
|                       | 90 mins   |                               | A          | C    | 14                    | 14   | 29.9 ( 9.88)             | 40.3 ( 9.96) | -10.4 ( -32.9, 12.1)                          | 0.354   |
|                       |           |                               | B          | C    | 14                    | 14   | 26.1 ( 9.91)             | 40.3 ( 9.96) | -14.2 ( -36.8, 8.5)                           | 0.212   |
|                       |           |                               | A          | D    | 14                    | 14   | 29.9 ( 9.88)             | 36.9 ( 9.89) | -7.0 ( -29.3, 15.3)                           | 0.529   |
|                       |           |                               | B          | D    | 14                    | 14   | 26.1 ( 9.91)             | 36.9 ( 9.89) | -10.8 ( -33.1, 11.5)                          | 0.333   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population     | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference                                |         |
|----------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---|---------|
|                |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference<br>95% Confidence Interval | p-value |
| Per Protocol 6 | 15 mins   |                               | A          | C    | 14                    | 14   | 11.5 ( 8.61)             | 25.0 ( 8.67) | -13.5 ( -37.4, 10.3)                          | 0.258   |
|                |           |                               | B          | C    | 14                    | 14   | 9.8 ( 8.60)              | 25.0 ( 8.67) | -15.2 ( -39.0, 8.6)                           | 0.203   |
|                |           |                               | A          | D    | 14                    | 14   | 11.5 ( 8.61)             | 15.9 ( 8.61) | -4.5 ( -28.1, 19.2)                           | 0.704   |
|                |           |                               | B          | D    | 14                    | 14   | 9.8 ( 8.60)              | 15.9 ( 8.61) | -6.2 ( -29.8, 17.5)                           | 0.600   |
|                | 30 mins   |                               | A          | C    | 14                    | 14   | 14.6 ( 9.21)             | 34.1 ( 9.28) | -19.5 ( -43.9, 4.8)                           | 0.113   |
|                |           |                               | B          | C    | 14                    | 14   | 12.6 ( 9.20)             | 34.1 ( 9.28) | -21.5 ( -45.8, 2.7)                           | 0.080   |
|                |           |                               | A          | D    | 14                    | 14   | 14.6 ( 9.21)             | 20.9 ( 9.22) | -6.3 ( -30.4, 17.8)                           | 0.601   |
|                |           |                               | B          | D    | 14                    | 14   | 12.6 ( 9.20)             | 20.9 ( 9.22) | -8.3 ( -32.4, 15.9)                           | 0.491   |
|                | 45 mins   |                               | A          | C    | 14                    | 14   | 18.6 ( 9.46)             | 36.0 ( 9.53) | -17.4 ( -41.4, 6.7)                           | 0.152   |
|                |           |                               | B          | C    | 14                    | 14   | 14.5 ( 9.44)             | 36.0 ( 9.53) | -21.5 ( -45.5, 2.5)                           | 0.077   |
|                |           |                               | A          | D    | 14                    | 14   | 18.6 ( 9.46)             | 25.4 ( 9.46) | -6.8 ( -30.6, 17.0)                           | 0.568   |
|                |           |                               | B          | D    | 14                    | 14   | 14.5 ( 9.44)             | 25.4 ( 9.46) | -10.9 ( -34.7, 12.9)                          | 0.360   |
|                | 60 mins   |                               | A          | C    | 14                    | 14   | 21.4 ( 9.56)             | 39.7 ( 9.63) | -18.2 ( -41.9, 5.5)                           | 0.128   |
|                |           |                               | B          | C    | 14                    | 14   | 17.8 ( 9.55)             | 39.7 ( 9.63) | -21.9 ( -45.5, 1.7)                           | 0.068   |
|                |           |                               | A          | D    | 14                    | 14   | 21.4 ( 9.56)             | 28.5 ( 9.57) | -7.1 ( -30.5, 16.4)                           | 0.544   |
|                |           |                               | B          | D    | 14                    | 14   | 17.8 ( 9.55)             | 28.5 ( 9.57) | -10.7 ( -34.2, 12.7)                          | 0.360   |
|                | 75 mins   |                               | A          | C    | 14                    | 14   | 22.5 ( 9.63)             | 41.4 ( 9.70) | -18.9 ( -42.3, 4.6)                           | 0.111   |
|                |           |                               | B          | C    | 14                    | 14   | 22.4 ( 9.62)             | 41.4 ( 9.70) | -19.0 ( -42.3, 4.4)                           | 0.109   |
|                |           |                               | A          | D    | 14                    | 14   | 22.5 ( 9.63)             | 31.0 ( 9.64) | -8.5 ( -31.7, 14.7)                           | 0.462   |
|                |           |                               | B          | D    | 14                    | 14   | 22.4 ( 9.62)             | 31.0 ( 9.64) | -8.6 ( -31.8, 14.6)                           | 0.458   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population            | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference          |         |
|-----------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|-------------------------|---------|
|                       |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference      |         |
|                       |           |                               |            |      |                       |      |                          |              | 95% Confidence Interval | p-value |
| Per Protocol 6 (ctd.) | 7         | 90 mins                       | A          | C    | 14                    | 14   | 23.9 ( 9.69)             | 43.9 ( 9.76) | -20.0 ( -42.9, 2.9)     | 0.085   |
|                       |           |                               | B          | C    | 14                    | 14   | 25.6 ( 9.68)             | 43.9 ( 9.76) | -18.3 ( -41.1, 4.4)     | 0.111   |
|                       |           |                               | A          | D    | 14                    | 14   | 23.9 ( 9.69)             | 32.5 ( 9.70) | -8.6 ( -31.2, 14.0)     | 0.445   |
|                       |           |                               | B          | D    | 14                    | 14   | 25.6 ( 9.68)             | 32.5 ( 9.70) | -6.9 ( -29.6, 15.7)     | 0.538   |
|                       |           | 15 mins                       | A          | C    | 14                    | 14   | 9.5 ( 7.85)              | 18.2 ( 7.91) | -8.7 ( -28.4, 11.1)     | 0.379   |
|                       |           |                               | B          | C    | 14                    | 14   | 18.6 ( 7.85)             | 18.2 ( 7.91) | 0.4 ( -19.2, 20.1)      | 0.966   |
|                       |           |                               | A          | D    | 14                    | 14   | 9.5 ( 7.85)              | 18.5 ( 7.90) | -8.9 ( -28.6, 10.7)     | 0.362   |
|                       |           |                               | B          | D    | 14                    | 14   | 18.6 ( 7.85)             | 18.5 ( 7.90) | 0.1 ( -19.6, 19.8)      | 0.990   |
|                       |           | 30 mins                       | A          | C    | 14                    | 14   | 11.3 ( 8.43)             | 27.0 ( 8.49) | -15.8 ( -38.4, 6.9)     | 0.166   |
|                       |           |                               | B          | C    | 14                    | 14   | 18.4 ( 8.43)             | 27.0 ( 8.49) | -8.6 ( -31.2, 13.9)     | 0.443   |
|                       |           |                               | A          | D    | 14                    | 14   | 11.3 ( 8.43)             | 23.8 ( 8.48) | -12.5 ( -35.1, 10.0)    | 0.266   |
|                       |           |                               | B          | D    | 14                    | 14   | 18.4 ( 8.43)             | 23.8 ( 8.48) | -5.4 ( -28.0, 17.2)     | 0.631   |
|                       |           | 45 mins                       | A          | C    | 14                    | 14   | 13.9 ( 8.77)             | 37.2 ( 8.83) | -23.3 ( -46.1, -0.5)    | 0.045   |
|                       |           |                               | B          | C    | 14                    | 14   | 20.1 ( 8.77)             | 37.2 ( 8.83) | -17.1 ( -39.8, 5.6)     | 0.135   |
|                       |           |                               | A          | D    | 14                    | 14   | 13.9 ( 8.77)             | 30.9 ( 8.83) | -17.1 ( -39.8, 5.6)     | 0.135   |
|                       |           |                               | B          | D    | 14                    | 14   | 20.1 ( 8.77)             | 30.9 ( 8.83) | -10.9 ( -33.6, 11.9)    | 0.338   |
|                       |           | 60 mins                       | A          | C    | 14                    | 14   | 15.7 ( 8.92)             | 43.9 ( 8.98) | -28.1 ( -51.1, -5.2)    | 0.018   |
|                       |           |                               | B          | C    | 14                    | 14   | 24.0 ( 8.92)             | 43.9 ( 8.98) | -19.8 ( -42.7, 3.0)     | 0.087   |
|                       |           |                               | A          | D    | 14                    | 14   | 15.7 ( 8.92)             | 33.3 ( 8.98) | -17.5 ( -40.3, 5.3)     | 0.129   |
|                       |           |                               | B          | D    | 14                    | 14   | 24.0 ( 8.92)             | 33.3 ( 8.98) | -9.2 ( -32.1, 13.7)     | 0.420   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population            | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference          |         |
|-----------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|-------------------------|---------|
|                       |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference      |         |
|                       |           |                               |            |      |                       |      |                          |              | 95% Confidence Interval | p-value |
| Per Protocol 7 (ctd.) | 8         | 75 mins                       | A          | C    | 14                    | 14   | 16.4 ( 8.94)             | 48.4 ( 9.00) | -31.9 ( -54.7, -9.2)    | 0.007   |
|                       |           |                               | B          | C    | 14                    | 14   | 27.2 ( 8.94)             | 48.4 ( 9.00) | -21.1 ( -43.8, 1.6)     | 0.067   |
|                       |           |                               | A          | D    | 14                    | 14   | 16.4 ( 8.94)             | 33.7 ( 9.00) | -17.3 ( -40.0, 5.4)     | 0.131   |
|                       |           |                               | B          | D    | 14                    | 14   | 27.2 ( 8.94)             | 33.7 ( 9.00) | -6.4 ( -29.2, 16.3)     | 0.570   |
|                       |           | 90 mins                       | A          | C    | 14                    | 14   | 17.3 ( 8.85)             | 51.6 ( 8.91) | -34.3 ( -56.6, -12.0)   | 0.004   |
|                       |           |                               | B          | C    | 14                    | 14   | 30.4 ( 8.85)             | 51.6 ( 8.91) | -21.2 ( -43.4, 1.1)     | 0.061   |
|                       |           |                               | A          | D    | 14                    | 14   | 17.3 ( 8.85)             | 34.1 ( 8.91) | -16.8 ( -39.0, 5.4)     | 0.134   |
|                       |           |                               | B          | D    | 14                    | 14   | 30.4 ( 8.85)             | 34.1 ( 8.91) | -3.7 ( -26.0, 18.6)     | 0.740   |
|                       |           | 15 mins                       | A          | C    | 14                    | 14   | 10.5 ( 8.67)             | 20.6 ( 8.71) | -10.1 ( -31.5, 11.3)    | 0.346   |
|                       |           |                               | B          | C    | 14                    | 14   | 21.9 ( 8.67)             | 20.6 ( 8.71) | 1.3 ( -20.1, 22.8)      | 0.902   |
|                       |           |                               | A          | D    | 14                    | 14   | 10.5 ( 8.67)             | 22.2 ( 8.72) | -11.8 ( -33.2, 9.7)     | 0.274   |
|                       |           |                               | B          | D    | 14                    | 14   | 21.9 ( 8.67)             | 22.2 ( 8.72) | -0.4 ( -21.8, 21.1)     | 0.974   |
|                       |           | 30 mins                       | A          | C    | 14                    | 14   | 13.8 ( 8.96)             | 29.3 ( 9.01) | -15.5 ( -37.4, 6.5)     | 0.162   |
|                       |           |                               | B          | C    | 14                    | 14   | 23.2 ( 8.96)             | 29.3 ( 9.01) | -6.1 ( -28.1, 15.9)     | 0.580   |
|                       |           |                               | A          | D    | 14                    | 14   | 13.8 ( 8.96)             | 23.9 ( 9.02) | -10.0 ( -32.1, 12.0)    | 0.362   |
|                       |           |                               | B          | D    | 14                    | 14   | 23.2 ( 8.96)             | 23.9 ( 9.02) | -0.6 ( -22.6, 21.4)     | 0.953   |
|                       |           | 45 mins                       | A          | C    | 14                    | 14   | 14.1 ( 9.14)             | 38.2 ( 9.19) | -24.2 ( -46.4, -1.9)    | 0.034   |
|                       |           |                               | B          | C    | 14                    | 14   | 24.3 ( 9.14)             | 38.2 ( 9.19) | -13.9 ( -36.2, 8.3)     | 0.212   |
|                       |           |                               | A          | D    | 14                    | 14   | 14.1 ( 9.14)             | 31.0 ( 9.20) | -17.0 ( -39.2, 5.3)     | 0.131   |
|                       |           |                               | B          | D    | 14                    | 14   | 24.3 ( 9.14)             | 31.0 ( 9.20) | -6.7 ( -29.0, 15.5)     | 0.542   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population            | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference                                |         |
|-----------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---|---------|
|                       |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference<br>95% Confidence Interval | p-value |
| Per Protocol 8 (ctd.) | 9         | 60 mins                       | A          | C    | 14                    | 14   | 15.6 ( 9.27)             | 43.8 ( 9.32) | -28.3 ( -50.5, -6.0)                          | 0.014   |
|                       |           |                               | B          | C    | 14                    | 14   | 27.3 ( 9.27)             | 43.8 ( 9.32) | -16.5 ( -38.8, 5.8)                           | 0.142   |
|                       |           |                               | A          | D    | 14                    | 14   | 15.6 ( 9.27)             | 33.9 ( 9.33) | -18.4 ( -40.7, 3.9)                           | 0.103   |
|                       |           |                               | B          | D    | 14                    | 14   | 27.3 ( 9.27)             | 33.9 ( 9.33) | -6.6 ( -28.9, 15.7)                           | 0.551   |
|                       |           | 75 mins                       | A          | C    | 14                    | 14   | 16.7 ( 9.40)             | 48.6 ( 9.45) | -31.9 ( -54.6, -9.2)                          | 0.007   |
|                       |           |                               | B          | C    | 14                    | 14   | 31.6 ( 9.40)             | 48.6 ( 9.45) | -16.9 ( -39.6, 5.8)                           | 0.139   |
|                       |           |                               | A          | D    | 14                    | 14   | 16.7 ( 9.40)             | 38.2 ( 9.45) | -21.5 ( -44.2, 1.2)                           | 0.063   |
|                       |           |                               | B          | D    | 14                    | 14   | 31.6 ( 9.40)             | 38.2 ( 9.45) | -6.6 ( -29.3, 16.1)                           | 0.562   |
|                       |           | 90 mins                       | A          | C    | 14                    | 14   | 18.5 ( 9.44)             | 51.1 ( 9.50) | -32.6 ( -55.5, -9.8)                          | 0.006   |
|                       |           |                               | B          | C    | 14                    | 14   | 35.7 ( 9.44)             | 51.1 ( 9.50) | -15.4 ( -38.2, 7.5)                           | 0.181   |
|                       |           |                               | A          | D    | 14                    | 14   | 18.5 ( 9.44)             | 41.0 ( 9.50) | -22.5 ( -45.4, 0.4)                           | 0.054   |
|                       |           |                               | B          | D    | 14                    | 14   | 35.7 ( 9.44)             | 41.0 ( 9.50) | -5.2 ( -28.1, 17.6)                           | 0.646   |
|                       | 9         | 15 mins                       | A          | C    | 14                    | 14   | 10.7 ( 9.06)             | 20.6 ( 9.10) | -9.9 ( -31.0, 11.2)                           | 0.347   |
|                       |           |                               | B          | C    | 14                    | 14   | 26.2 ( 9.06)             | 20.6 ( 9.10) | 5.6 ( -15.5, 26.7)                            | 0.594   |
|                       |           |                               | A          | D    | 14                    | 14   | 10.7 ( 9.06)             | 27.5 ( 9.07) | -16.8 ( -37.8, 4.3)                           | 0.115   |
|                       |           |                               | B          | D    | 14                    | 14   | 26.2 ( 9.06)             | 27.5 ( 9.07) | -1.2 ( -22.3, 19.8)                           | 0.906   |
|                       |           | 30 mins                       | A          | C    | 14                    | 14   | 9.4 ( 9.10)              | 25.2 ( 9.14) | -15.8 ( -36.5, 4.8)                           | 0.129   |
|                       |           |                               | B          | C    | 14                    | 14   | 28.3 ( 9.11)             | 25.2 ( 9.14) | 3.0 ( -17.6, 23.7)                            | 0.767   |
|                       |           |                               | A          | D    | 14                    | 14   | 9.4 ( 9.10)              | 35.0 ( 9.12) | -25.6 ( -46.2, -5.1)                          | 0.016   |
|                       |           |                               | B          | D    | 14                    | 14   | 28.3 ( 9.11)             | 35.0 ( 9.12) | -6.8 ( -27.3, 13.8)                           | 0.509   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population            | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference          |         |
|-----------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|-------------------------|---------|
|                       |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference      |         |
|                       |           |                               |            |      |                       |      |                          |              | 95% Confidence Interval | p-value |
| Per Protocol 9 (ctd.) | 10        | 45 mins                       | A          | C    | 14                    | 14   | 9.7 ( 8.90)              | 31.9 ( 8.93) | -22.2 ( -41.5, -2.9)    | 0.025   |
|                       |           |                               | B          | C    | 14                    | 14   | 29.5 ( 8.90)             | 31.9 ( 8.93) | -2.5 ( -21.7, 16.8)     | 0.796   |
|                       |           |                               | A          | D    | 14                    | 14   | 9.7 ( 8.90)              | 40.1 ( 8.91) | -30.4 ( -49.6, -11.2)   | 0.003   |
|                       |           | 60 mins                       | B          | D    | 14                    | 14   | 29.5 ( 8.90)             | 40.1 ( 8.91) | -10.7 ( -29.8, 8.5)     | 0.267   |
|                       |           |                               | A          | C    | 14                    | 14   | 10.3 ( 8.69)             | 38.3 ( 8.72) | -28.0 ( -46.2, -9.8)    | 0.004   |
|                       |           |                               | B          | C    | 14                    | 14   | 31.8 ( 8.69)             | 38.3 ( 8.72) | -6.5 ( -24.7, 11.7)     | 0.472   |
|                       |           | 75 mins                       | A          | D    | 14                    | 14   | 10.3 ( 8.69)             | 41.9 ( 8.70) | -31.6 ( -49.7, -13.4)   | 0.001   |
|                       |           |                               | B          | D    | 14                    | 14   | 31.8 ( 8.69)             | 41.9 ( 8.70) | -10.1 ( -28.2, 8.0)     | 0.267   |
|                       |           |                               | A          | C    | 14                    | 14   | 11.5 ( 8.53)             | 41.8 ( 8.56) | -30.3 ( -48.1, -12.5)   | 0.001   |
|                       |           | 90 mins                       | B          | C    | 14                    | 14   | 35.3 ( 8.53)             | 41.8 ( 8.56) | -6.5 ( -24.3, 11.3)     | 0.464   |
|                       |           |                               | A          | D    | 14                    | 14   | 11.5 ( 8.53)             | 44.6 ( 8.54) | -33.2 ( -50.9, -15.4)   | <0.001  |
|                       |           |                               | B          | D    | 14                    | 14   | 35.3 ( 8.53)             | 44.6 ( 8.54) | -9.3 ( -27.0, 8.4)      | 0.293   |
|                       |           | 15 mins                       | A          | C    | 14                    | 14   | 13.4 ( 8.22)             | 44.9 ( 8.25) | -31.5 ( -48.9, -14.1)   | <0.001  |
|                       |           |                               | B          | C    | 14                    | 14   | 38.7 ( 8.22)             | 44.9 ( 8.25) | -6.2 ( -23.5, 11.2)     | 0.478   |
|                       |           |                               | A          | D    | 14                    | 14   | 13.4 ( 8.22)             | 48.4 ( 8.23) | -35.0 ( -52.3, -17.7)   | <0.001  |
|                       |           |                               | B          | D    | 14                    | 14   | 38.7 ( 8.22)             | 48.4 ( 8.23) | -9.7 ( -27.0, 7.6)      | 0.264   |
|                       |           |                               | A          | C    | 14                    | 14   | 10.5 ( 9.75)             | 38.4 ( 9.72) | -27.8 ( -53.8, -1.8)    | 0.037   |
|                       |           |                               | B          | C    | 14                    | 14   | 29.3 ( 9.73)             | 38.4 ( 9.72) | -9.0 ( -35.0, 16.9)     | 0.485   |
|                       |           |                               | A          | D    | 14                    | 14   | 10.5 ( 9.75)             | 44.6 ( 9.71) | -34.1 ( -60.0, -8.1)    | 0.012   |
|                       |           |                               | B          | D    | 14                    | 14   | 29.3 ( 9.73)             | 44.6 ( 9.71) | -15.3 ( -41.2, 10.6)    | 0.239   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population             | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference                                |         |
|------------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---|---------|
|                        |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference<br>95% Confidence Interval | p-value |
| Per Protocol 10 (ctd.) | 30 mins   |                               | A          | C    | 14                    | 14   | 11.5 ( 9.04)             | 46.7 ( 9.01) | -35.2 ( -58.2, -12.2)                         | 0.004   |
|                        |           |                               | B          | C    | 14                    | 14   | 33.3 ( 9.03)             | 46.7 ( 9.01) | -13.4 ( -36.4, 9.5)                           | 0.243   |
|                        |           |                               | A          | D    | 14                    | 14   | 11.5 ( 9.04)             | 50.4 ( 9.01) | -39.0 ( -62.0, -16.0)                         | 0.001   |
|                        |           |                               | B          | D    | 14                    | 14   | 33.3 ( 9.03)             | 50.4 ( 9.01) | -17.2 ( -40.1, 5.8)                           | 0.137   |
|                        | 45 mins   |                               | A          | C    | 14                    | 14   | 18.0 ( 8.84)             | 53.0 ( 8.81) | -35.0 ( -55.9, -14.0)                         | 0.002   |
|                        |           |                               | B          | C    | 14                    | 14   | 37.9 ( 8.82)             | 53.0 ( 8.81) | -15.0 ( -36.0, 5.9)                           | 0.154   |
|                        |           |                               | A          | D    | 14                    | 14   | 18.0 ( 8.84)             | 56.7 ( 8.81) | -38.6 ( -59.6, -17.7)                         | <0.001  |
|                        |           |                               | B          | D    | 14                    | 14   | 37.9 ( 8.82)             | 56.7 ( 8.81) | -18.7 ( -39.7, 2.2)                           | 0.078   |
|                        | 60 mins   |                               | A          | C    | 14                    | 14   | 25.4 ( 8.56)             | 57.3 ( 8.54) | -31.8 ( -50.9, -12.8)                         | 0.002   |
|                        |           |                               | B          | C    | 14                    | 14   | 42.9 ( 8.55)             | 57.3 ( 8.54) | -14.3 ( -33.4, 4.7)                           | 0.134   |
|                        |           |                               | A          | D    | 14                    | 14   | 25.4 ( 8.56)             | 58.6 ( 8.54) | -33.2 ( -52.2, -14.2)                         | 0.001   |
|                        |           |                               | B          | D    | 14                    | 14   | 42.9 ( 8.55)             | 58.6 ( 8.54) | -15.7 ( -34.7, 3.3)                           | 0.103   |
|                        | 75 mins   |                               | A          | C    | 14                    | 14   | 31.3 ( 8.41)             | 60.5 ( 8.39) | -29.1 ( -47.1, -11.2)                         | 0.002   |
|                        |           |                               | B          | C    | 14                    | 14   | 47.5 ( 8.40)             | 60.5 ( 8.39) | -13.0 ( -30.9, 5.0)                           | 0.151   |
|                        |           |                               | A          | D    | 14                    | 14   | 31.3 ( 8.41)             | 62.4 ( 8.39) | -31.0 ( -49.0, -13.1)                         | 0.001   |
|                        |           |                               | B          | D    | 14                    | 14   | 47.5 ( 8.40)             | 62.4 ( 8.39) | -14.8 ( -32.8, 3.1)                           | 0.102   |
|                        | 90 mins   |                               | A          | C    | 14                    | 14   | 35.0 ( 8.28)             | 63.3 ( 8.26) | -28.3 ( -46.1, -10.4)                         | 0.003   |
|                        |           |                               | B          | C    | 14                    | 14   | 50.2 ( 8.27)             | 63.3 ( 8.26) | -13.1 ( -30.8, 4.7)                           | 0.145   |
|                        |           |                               | A          | D    | 14                    | 14   | 35.0 ( 8.28)             | 66.8 ( 8.26) | -31.8 ( -49.6, -14.0)                         | <0.001  |
|                        |           |                               | B          | D    | 14                    | 14   | 50.2 ( 8.27)             | 66.8 ( 8.26) | -16.6 ( -34.4, 1.2)                           | 0.067   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population      | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              |  | Test-Reference          |  |         |
|-----------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|--|-------------------------|--|---------|
|                 |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    |  | LS Mean Difference      |  | p-value |
|                 |           |                               |            |      |                       |      |                          |              |  | 95% Confidence Interval |  |         |
| Per Protocol 11 | 15 mins   |                               | A          | C    | 14                    | 14   | 34.5 ( 9.72)             | 74.7 ( 9.61) |  | -40.2 ( -67.1, -13.4)   |  | 0.004   |
|                 |           |                               | B          | C    | 14                    | 14   | 52.6 ( 9.59)             | 74.7 ( 9.61) |  | -22.1 ( -48.5, 4.3)     |  | 0.098   |
|                 |           |                               | A          | D    | 14                    | 14   | 34.5 ( 9.72)             | 65.6 ( 9.58) |  | -31.1 ( -57.8, -4.5)    |  | 0.023   |
|                 |           |                               | B          | D    | 14                    | 14   | 52.6 ( 9.59)             | 65.6 ( 9.58) |  | -13.0 ( -39.4, 13.4)    |  | 0.324   |
|                 | 30 mins   |                               | A          | C    | 14                    | 14   | 42.7 ( 9.52)             | 75.8 ( 9.41) |  | -33.1 ( -59.5, -6.7)    |  | 0.015   |
|                 |           |                               | B          | C    | 14                    | 14   | 52.1 ( 9.39)             | 75.8 ( 9.41) |  | -23.7 ( -49.6, 2.2)     |  | 0.072   |
|                 |           |                               | A          | D    | 14                    | 14   | 42.7 ( 9.52)             | 68.3 ( 9.38) |  | -25.6 ( -51.8, 0.6)     |  | 0.055   |
|                 |           |                               | B          | D    | 14                    | 14   | 52.1 ( 9.39)             | 68.3 ( 9.38) |  | -16.2 ( -42.1, 9.7)     |  | 0.213   |
|                 | 45 mins   |                               | A          | C    | 14                    | 14   | 48.8 ( 9.21)             | 76.0 ( 9.11) |  | -27.2 ( -53.0, -1.4)    |  | 0.040   |
|                 |           |                               | B          | C    | 14                    | 14   | 55.5 ( 9.09)             | 76.0 ( 9.11) |  | -20.5 ( -45.9, 4.9)     |  | 0.110   |
|                 |           |                               | A          | D    | 14                    | 14   | 48.8 ( 9.21)             | 71.3 ( 9.08) |  | -22.5 ( -48.1, 3.1)     |  | 0.083   |
|                 |           |                               | B          | D    | 14                    | 14   | 55.5 ( 9.09)             | 71.3 ( 9.08) |  | -15.8 ( -41.2, 9.6)     |  | 0.214   |
|                 | 60 mins   |                               | A          | C    | 14                    | 14   | 52.3 ( 8.58)             | 76.8 ( 8.48) |  | -24.5 ( -48.2, -0.8)    |  | 0.043   |
|                 |           |                               | B          | C    | 14                    | 14   | 59.5 ( 8.46)             | 76.8 ( 8.48) |  | -17.4 ( -40.7, 5.9)     |  | 0.139   |
|                 |           |                               | A          | D    | 14                    | 14   | 52.3 ( 8.58)             | 74.9 ( 8.45) |  | -22.5 ( -46.1, 1.0)     |  | 0.060   |
|                 |           |                               | B          | D    | 14                    | 14   | 59.5 ( 8.46)             | 74.9 ( 8.45) |  | -15.4 ( -38.7, 7.9)     |  | 0.188   |
|                 | 75 mins   |                               | A          | C    | 14                    | 14   | 56.4 ( 8.13)             | 77.4 ( 8.03) |  | -21.0 ( -43.1, 1.1)     |  | 0.062   |
|                 |           |                               | B          | C    | 14                    | 14   | 61.4 ( 8.02)             | 77.4 ( 8.03) |  | -16.0 ( -37.7, 5.7)     |  | 0.144   |
|                 |           |                               | A          | D    | 14                    | 14   | 56.4 ( 8.13)             | 77.9 ( 8.00) |  | -21.6 ( -43.5, 0.4)     |  | 0.054   |
|                 |           |                               | B          | D    | 14                    | 14   | 61.4 ( 8.02)             | 77.9 ( 8.00) |  | -16.5 ( -38.3, 5.2)     |  | 0.131   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.6 Statistical Analysis of % of Time that Each Electrode is pH < 4 Over Various Time

| Population             | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              | Test-Reference                                |         |
|------------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---|---------|
|                        |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    | LS Mean Difference<br>95% Confidence Interval | p-value |
| Per Protocol 11 (ctd.) |           | 90 mins                       | A          | C    | 14                    | 14   | 60.0 ( 7.62)             | 78.1 ( 7.53) | -18.2 ( -38.7, 2.4)                           | 0.081   |
|                        |           |                               | B          | C    | 14                    | 14   | 63.5 ( 7.52)             | 78.1 ( 7.53) | -14.7 ( -34.8, 5.5)                           | 0.149   |
|                        |           |                               | A          | D    | 14                    | 14   | 60.0 ( 7.62)             | 80.0 ( 7.50) | -20.0 ( -40.4, 0.4)                           | 0.054   |
|                        |           |                               | B          | D    | 14                    | 14   | 63.5 ( 7.52)             | 80.0 ( 7.50) | -16.5 ( -36.7, 3.7)                           | 0.106   |

Data Source: Appendix 16.1.9.5

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.7 Statistical Analysis of Mean Percentage of Time with pH <4 at Electrodes 1, 2, and 3 during Four 1-hour Periods

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Table 14.2.2.7 Statistical Analysis of Mean % of Time with pH &lt; 4 at Electrodes 1, 2 and 3 During 4 x One Hour Periods

| Population | Electrode     | Timepoint<br>(post treatment) | Number of<br>Comparison Subjects |      | LS Mean (Standard Error) |              |              |                         | Test-Reference     |  |
|------------|---------------|-------------------------------|----------------------------------|------|--------------------------|--------------|--------------|-------------------------|--------------------|--|
|            |               |                               | Test                             | Ref. | Test Ref.                | Test         | Reference    | 95% Confidence Interval | LS Mean Difference |  |
|            |               |                               |                                  |      |                          |              |              |                         | p-value            |  |
| ITT        | Mean of 1 - 3 | 0 - 1 hour                    | A                                | C    | 15 15                    | 14.0 ( 5.13) | 16.3 ( 5.14) | -2.2 ( -16.1, 11.6)     | 0.745              |  |
|            |               |                               | B                                | C    | 14 15                    | 15.6 ( 5.37) | 16.3 ( 5.14) | -0.7 ( -15.0, 13.7)     |                    |  |
|            |               |                               | A                                | D    | 15 14                    | 14.0 ( 5.13) | 24.5 ( 5.32) | -10.5 ( -24.7, 3.7)     |                    |  |
|            |               |                               | B                                | D    | 14 14                    | 15.6 ( 5.37) | 24.5 ( 5.32) | -8.9 ( -23.3, 5.5)      |                    |  |
|            |               | 1 - 2 hours                   | A                                | C    | 15 15                    | 21.5 ( 5.47) | 18.7 ( 5.48) | 2.9 ( -12.0, 17.7)      | 0.694              |  |
|            |               |                               | B                                | C    | 14 15                    | 23.3 ( 5.72) | 18.7 ( 5.48) | 4.6 ( -10.8, 20.0)      |                    |  |
|            |               |                               | A                                | D    | 15 14                    | 21.5 ( 5.47) | 24.4 ( 5.68) | -2.9 ( -18.1, 12.4)     |                    |  |
|            |               |                               | B                                | D    | 14 14                    | 23.3 ( 5.72) | 24.4 ( 5.68) | -1.1 ( -16.6, 14.3)     |                    |  |
|            |               | 2 - 3 hours                   | A                                | C    | 15 15                    | 22.8 ( 5.47) | 12.5 ( 5.47) | 10.3 ( -5.3, 25.9)      | 0.188              |  |
|            |               |                               | B                                | C    | 14 15                    | 23.6 ( 5.71) | 12.5 ( 5.47) | 11.2 ( -4.9, 27.3)      |                    |  |
|            |               |                               | A                                | D    | 15 14                    | 22.8 ( 5.47) | 22.5 ( 5.67) | 0.3 ( -15.7, 16.2)      |                    |  |
|            |               |                               | B                                | D    | 14 14                    | 23.6 ( 5.71) | 22.5 ( 5.67) | 1.1 ( -15.2, 17.4)      |                    |  |
|            |               | 3 - 4 hours                   | A                                | C    | 15 15                    | 17.9 ( 4.94) | 8.8 ( 4.95)  | 9.1 ( -4.8, 23.0)       | 0.192              |  |
|            |               |                               | B                                | C    | 14 15                    | 16.4 ( 5.16) | 8.8 ( 4.95)  | 7.6 ( -6.7, 21.9)       |                    |  |
|            |               |                               | A                                | D    | 15 14                    | 17.9 ( 4.94) | 21.0 ( 5.12) | -3.1 ( -17.3, 11.1)     |                    |  |
|            |               |                               | B                                | D    | 14 14                    | 16.4 ( 5.16) | 21.0 ( 5.12) | -4.6 ( -19.1, 9.8)      |                    |  |

Data Source: Appendix 16.1.9.6

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.7 Statistical Analysis of Mean % of Time with pH < 4 at Electrodes 1, 2 and 3 During 4 x One Hour Periods

| Population                 | Electrode | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              |  |  | Test-Reference          |  |         |
|----------------------------|-----------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|--|--|-------------------------|--|---------|
|                            |           |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference    |  |  | LS Mean Difference      |  | p-value |
|                            |           |                               |            |      |                       |      |                          |              |  |  | 95% Confidence Interval |  |         |
| Per Protocol Mean of 1 - 3 |           | 0 - 1 hour                    | A          | C    | 14                    | 14   | 9.1 ( 4.76)              | 15.3 ( 4.79) |  |  | -6.1 ( -19.3, 7.1)      |  | 0.353   |
|                            |           |                               | B          | C    | 14                    | 14   | 14.7 ( 4.80)             | 15.3 ( 4.79) |  |  | -0.6 ( -14.0, 12.8)     |  | 0.928   |
|                            |           |                               | A          | D    | 14                    | 14   | 9.1 ( 4.76)              | 23.9 ( 4.76) |  |  | -14.7 ( -27.9, -1.5)    |  | 0.030   |
|                            |           | 1 - 2 hours                   | B          | D    | 14                    | 14   | 14.7 ( 4.80)             | 23.9 ( 4.76) |  |  | -9.2 ( -22.4, 4.0)      |  | 0.166   |
|                            |           |                               | A          | C    | 14                    | 14   | 16.7 ( 5.14)             | 17.1 ( 5.18) |  |  | -0.4 ( -14.8, 14.1)     |  | 0.959   |
|                            |           |                               | B          | C    | 14                    | 14   | 22.2 ( 5.18)             | 17.1 ( 5.18) |  |  | 5.1 ( -9.6, 19.8)       |  | 0.484   |
|                            |           | 2 - 3 hours                   | A          | D    | 14                    | 14   | 16.7 ( 5.14)             | 23.6 ( 5.14) |  |  | -6.9 ( -21.4, 7.6)      |  | 0.339   |
|                            |           |                               | B          | D    | 14                    | 14   | 22.2 ( 5.18)             | 23.6 ( 5.14) |  |  | -1.4 ( -15.9, 13.1)     |  | 0.844   |
|                            |           |                               | A          | C    | 14                    | 14   | 17.7 ( 5.16)             | 13.0 ( 5.19) |  |  | 4.8 ( -9.8, 19.4)       |  | 0.512   |
|                            |           | 3 - 4 hours                   | B          | C    | 14                    | 14   | 23.1 ( 5.20)             | 13.0 ( 5.19) |  |  | 10.1 ( -4.7, 25.0)      |  | 0.176   |
|                            |           |                               | A          | D    | 14                    | 14   | 17.7 ( 5.16)             | 22.4 ( 5.16) |  |  | -4.7 ( -19.3, 10.0)     |  | 0.521   |
|                            |           |                               | B          | D    | 14                    | 14   | 23.1 ( 5.20)             | 22.4 ( 5.16) |  |  | 0.7 ( -14.0, 15.3)      |  | 0.927   |
|                            |           |                               | A          | C    | 14                    | 14   | 13.9 ( 4.71)             | 10.4 ( 4.75) |  |  | 3.5 ( -9.5, 16.4)       |  | 0.592   |
|                            |           |                               | B          | C    | 14                    | 14   | 15.7 ( 4.75)             | 10.4 ( 4.75) |  |  | 5.3 ( -7.8, 18.5)       |  | 0.418   |
|                            |           |                               | A          | D    | 14                    | 14   | 13.9 ( 4.71)             | 20.9 ( 4.71) |  |  | -7.0 ( -20.0, 5.9)      |  | 0.280   |
|                            |           |                               | B          | D    | 14                    | 14   | 15.7 ( 4.75)             | 20.9 ( 4.71) |  |  | -5.1 ( -18.1, 7.8)      |  | 0.426   |

Data Source: Appendix 16.1.9.6

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.8 Statistical Analysis of Mean Percentage of Time with pH <4 at Electrodes 1, 2, and 3 over 4 Hours

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Table 14.2.2.8 Statistical Analysis of Mean % of Time with pH &lt; 4 at Electrodes 1 - 3 Over 4 Hours

| Population   | Electrode     | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |              |                     |       | Test-Reference          |         |
|--------------|---------------|-------------------------------|------------|------|-----------------------|------|--------------------------|--------------|---------------------|-------|-------------------------|---------|
|              |               |                               | Test       | Ref. | Test                  | Ref. | Test                     |              | Reference           |       | LS Mean Difference      |         |
|              |               |                               |            |      |                       |      |                          |              |                     |       | 95% Confidence Interval | p-value |
| ITT          | Mean of 1 - 3 | 0 - 4 hours                   | A          | C    | 15                    | 15   | 19.1 ( 4.95)             | 14.1 ( 4.96) | 5.0 ( -8.9, 18.9)   | 0.469 |                         |         |
|              |               |                               | B          | C    | 14                    | 15   | 19.6 ( 5.18)             | 14.1 ( 4.96) | 5.5 ( -8.8, 19.8)   | 0.440 |                         |         |
|              |               |                               | A          | D    | 15                    | 14   | 19.1 ( 4.95)             | 23.0 ( 5.14) | -3.9 ( -18.1, 10.3) | 0.577 |                         |         |
|              |               |                               | B          | D    | 14                    | 14   | 19.6 ( 5.18)             | 23.0 ( 5.14) | -3.4 ( -17.8, 11.0) | 0.633 |                         |         |
| Per Protocol | Mean of 1 - 3 | 0 - 4 hours                   | A          | C    | 14                    | 14   | 14.4 ( 4.64)             | 13.9 ( 4.68) | 0.4 ( -12.6, 13.5)  | 0.947 |                         |         |
|              |               |                               | B          | C    | 14                    | 14   | 18.9 ( 4.68)             | 13.9 ( 4.68) | 5.0 ( -8.3, 18.2)   | 0.450 |                         |         |
|              |               |                               | A          | D    | 14                    | 14   | 14.4 ( 4.64)             | 22.7 ( 4.64) | -8.3 ( -21.4, 4.7)  | 0.203 |                         |         |
|              |               |                               | B          | D    | 14                    | 14   | 18.9 ( 4.68)             | 22.7 ( 4.64) | -3.8 ( -16.8, 9.3)  | 0.560 |                         |         |

Data Source: Appendix 16.1.9.7

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.9 Statistical Analysis of Mean Percentage of Time with pH <4 at Electrodes 4 to 7 during Four 1-hour Periods

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Table 14.2.2.9 Statistical Analysis of Mean % of Time with pH &lt; 4 at Electrodes 4 - 7 During 4 x One Hour Periods

| Population | Electrode     | Timepoint<br>(post treatment) | Number of<br>Comparison Subjects |      | LS Mean (Standard Error) |              |              |                         | Test-Reference     |         |
|------------|---------------|-------------------------------|----------------------------------|------|--------------------------|--------------|--------------|-------------------------|--------------------|---------|
|            |               |                               | Test                             | Ref. | Test Ref.                | Test         | Reference    | 95% Confidence Interval | LS Mean Difference |         |
|            |               |                               |                                  |      |                          |              |              |                         | Test-Reference     | p-value |
| ITT        | Mean of 4 - 7 | 0 - 1 hour                    | A                                | C    | 15 15                    | 25.9 ( 8.46) | 39.4 ( 8.49) | -13.5 ( -32.6, 5.6)     |                    | 0.161   |
|            |               |                               | B                                | C    | 14 15                    | 23.2 ( 8.72) | 39.4 ( 8.49) | -16.2 ( -35.9, 3.5)     |                    | 0.104   |
|            |               |                               | A                                | D    | 15 14                    | 25.9 ( 8.46) | 33.5 ( 8.76) | -7.6 ( -27.4, 12.1)     |                    | 0.438   |
|            |               |                               | B                                | D    | 14 14                    | 23.2 ( 8.72) | 33.5 ( 8.76) | -10.3 ( -30.2, 9.5)     |                    | 0.299   |
|            |               | 1 - 2 hours                   | A                                | C    | 15 15                    | 41.2 ( 8.81) | 54.7 ( 8.84) | -13.5 ( -34.2, 7.2)     |                    | 0.196   |
|            |               |                               | B                                | C    | 14 15                    | 45.5 ( 9.09) | 54.7 ( 8.84) | -9.2 ( -30.5, 12.2)     |                    | 0.391   |
|            |               |                               | A                                | D    | 15 14                    | 41.2 ( 8.81) | 43.2 ( 9.14) | -2.1 ( -23.5, 19.3)     |                    | 0.845   |
|            |               |                               | B                                | D    | 14 14                    | 45.5 ( 9.09) | 43.2 ( 9.14) | 2.2 ( -19.3, 23.8)      |                    | 0.834   |
|            |               | 2 - 3 hours                   | A                                | C    | 15 15                    | 49.3 ( 7.52) | 52.6 ( 7.55) | -3.3 ( -24.2, 17.6)     |                    | 0.750   |
|            |               |                               | B                                | C    | 14 15                    | 51.4 ( 7.81) | 52.6 ( 7.55) | -1.3 ( -22.6, 20.1)     |                    | 0.906   |
|            |               |                               | A                                | D    | 15 14                    | 49.3 ( 7.52) | 45.4 ( 7.84) | 4.0 ( -17.4, 25.4)      |                    | 0.710   |
|            |               |                               | B                                | D    | 14 14                    | 51.4 ( 7.81) | 45.4 ( 7.84) | 6.0 ( -15.7, 27.7)      |                    | 0.578   |
|            |               | 3 - 4 hours                   | A                                | C    | 15 15                    | 52.3 ( 7.20) | 45.0 ( 7.22) | 7.3 ( -13.2, 27.7)      |                    | 0.480   |
|            |               |                               | B                                | C    | 14 15                    | 50.7 ( 7.46) | 45.0 ( 7.22) | 5.6 ( -15.3, 26.5)      |                    | 0.591   |
|            |               |                               | A                                | D    | 15 14                    | 52.3 ( 7.20) | 49.9 ( 7.49) | 2.4 ( -18.5, 23.3)      |                    | 0.819   |
|            |               |                               | B                                | D    | 14 14                    | 50.7 ( 7.46) | 49.9 ( 7.49) | 0.8 ( -20.5, 22.0)      |                    | 0.942   |

Data Source: Appendix 16.1.9.8

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.9 Statistical Analysis of Mean % of Time with pH < 4 at Electrodes 4 - 7 During 4 x One Hour Periods

| Population                 | Electrode   | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |       |           |       | Test-Reference          |         |
|----------------------------|-------------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------|-----------|-------|-------------------------|---------|
|                            |             |                               |            |      |                       |      |                          |       |           |       | LS Mean Difference      |         |
|                            |             |                               | Test       | Ref. | Test                  | Ref. | Test                     |       | Reference |       | 95% Confidence Interval | p-value |
| Per Protocol Mean of 4 - 7 | 0 - 1 hour  |                               | A          | C    | 14                    | 14   | 20.3 (                   | 8.41) | 38.7 (    | 8.51) | -18.3 ( -37.6, 0.9)     | 0.061   |
|                            |             |                               | B          | C    | 14                    | 14   | 20.9 (                   | 8.42) | 38.7 (    | 8.51) | -17.7 ( -37.1, 1.6)     | 0.072   |
|                            |             |                               | A          | D    | 14                    | 14   | 20.3 (                   | 8.41) | 31.4 (    | 8.46) | -11.1 ( -30.2, 8.1)     | 0.249   |
|                            |             |                               | B          | D    | 14                    | 14   | 20.9 (                   | 8.42) | 31.4 (    | 8.46) | -10.5 ( -29.6, 8.6)     | 0.274   |
|                            | 1 - 2 hours |                               | A          | C    | 14                    | 14   | 35.8 (                   | 8.83) | 53.7 (    | 8.94) | -17.9 ( -39.1, 3.3)     | 0.096   |
|                            |             |                               | B          | C    | 14                    | 14   | 43.4 (                   | 8.84) | 53.7 (    | 8.94) | -10.3 ( -31.6, 11.1)    | 0.336   |
|                            |             |                               | A          | D    | 14                    | 14   | 35.8 (                   | 8.83) | 41.3 (    | 8.88) | -5.5 ( -26.6, 15.6)     | 0.598   |
|                            |             |                               | B          | D    | 14                    | 14   | 43.4 (                   | 8.84) | 41.3 (    | 8.88) | 2.1 ( -18.9, 23.1)      | 0.841   |
|                            | 2 - 3 hours |                               | A          | C    | 14                    | 14   | 44.2 (                   | 7.42) | 55.0 (    | 7.51) | -10.8 ( -31.2, 9.6)     | 0.290   |
|                            |             |                               | B          | C    | 14                    | 14   | 50.5 (                   | 7.43) | 55.0 (    | 7.51) | -4.5 ( -25.0, 15.9)     | 0.658   |
|                            |             |                               | A          | D    | 14                    | 14   | 44.2 (                   | 7.42) | 44.7 (    | 7.46) | -0.6 ( -20.9, 19.7)     | 0.955   |
|                            |             |                               | B          | D    | 14                    | 14   | 50.5 (                   | 7.43) | 44.7 (    | 7.46) | 5.7 ( -14.5, 26.0)      | 0.571   |
|                            | 3 - 4 hours |                               | A          | C    | 14                    | 14   | 47.8 (                   | 6.78) | 50.3 (    | 6.86) | -2.5 ( -21.7, 16.6)     | 0.790   |
|                            |             |                               | B          | C    | 14                    | 14   | 49.7 (                   | 6.79) | 50.3 (    | 6.86) | -0.6 ( -19.9, 18.6)     | 0.948   |
|                            |             |                               | A          | D    | 14                    | 14   | 47.8 (                   | 6.78) | 49.3 (    | 6.82) | -1.5 ( -20.6, 17.6)     | 0.871   |
|                            |             |                               | B          | D    | 14                    | 14   | 49.7 (                   | 6.79) | 49.3 (    | 6.82) | 0.4 ( -18.7, 19.5)      | 0.968   |

Data Source: Appendix 16.1.9.8

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with treatment, baseline, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.10 Statistical Analysis of Number of Liquid, Gas and Mixed Reflux Episodes Occurring in the 2- and 4-hour Periods

Reckitt Benckiser Healthcare (UK) Ltd Study GA1116 (0543/031)

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Table 14.2.2.10 Statistical Analysis of Number of Liquid, Gas and Mixed Reflux Episodes Occurring in the 2- and 4-Hour Periods

|                 |              |                               | Comparison |      | Number of Subjects |      | LS Mean (Standard Error) |       |           |       | Test-Reference          |            |       |
|-----------------|--------------|-------------------------------|------------|------|--------------------|------|--------------------------|-------|-----------|-------|-------------------------|------------|-------|
| Number of       | Population   | Timepoint<br>(post treatment) |            |      |                    |      |                          |       |           |       | LS Mean Difference      |            |       |
|                 |              |                               | Test       | Ref. | Test               | Ref. | Test                     |       | Reference |       | 95% Confidence Interval | p-value    |       |
| Liquid Episodes | ITT          | 2 hours                       | A          | C    | 14                 | 14   | 2.5 (                    | 0.90) | 3.5 (     | 0.93) | -1.0 (                  | -3.1, 1.2) | 0.378 |
|                 |              |                               | B          | C    | 13                 | 14   | 2.9 (                    | 0.93) | 3.5 (     | 0.93) | -0.5 (                  | -2.8, 1.7) | 0.620 |
|                 |              |                               | A          | D    | 14                 | 13   | 2.5 (                    | 0.90) | 2.8 (     | 0.92) | -0.3 (                  | -2.4, 1.9) | 0.810 |
|                 |              |                               | B          | D    | 13                 | 13   | 2.9 (                    | 0.93) | 2.8 (     | 0.92) | 0.1 (                   | -2.0, 2.3) | 0.893 |
|                 |              | 4 hours                       | A          | C    | 14                 | 14   | 3.4 (                    | 1.25) | 5.0 (     | 1.28) | -1.5 (                  | -4.2, 1.2) | 0.259 |
|                 |              |                               | B          | C    | 13                 | 14   | 4.5 (                    | 1.29) | 5.0 (     | 1.28) | -0.5 (                  | -3.3, 2.3) | 0.708 |
|                 |              |                               | A          | D    | 14                 | 13   | 3.4 (                    | 1.25) | 4.1 (     | 1.28) | -0.6 (                  | -3.3, 2.1) | 0.643 |
|                 |              |                               | B          | D    | 13                 | 13   | 4.5 (                    | 1.29) | 4.1 (     | 1.28) | 0.4 (                   | -2.3, 3.1) | 0.775 |
|                 | Per Protocol | 2 hours                       | A          | C    | 13                 | 13   | 2.4 (                    | 0.93) | 3.0 (     | 0.95) | -0.6 (                  | -2.9, 1.6) | 0.578 |
|                 |              |                               | B          | C    | 13                 | 13   | 2.8 (                    | 0.92) | 3.0 (     | 0.95) | -0.2 (                  | -2.4, 2.1) | 0.862 |
|                 |              |                               | A          | D    | 13                 | 13   | 2.4 (                    | 0.93) | 2.6 (     | 0.91) | -0.3 (                  | -2.5, 1.9) | 0.808 |
|                 |              |                               | B          | D    | 13                 | 13   | 2.8 (                    | 0.92) | 2.6 (     | 0.91) | 0.2 (                   | -2.0, 2.3) | 0.877 |
|                 |              | 4 hours                       | A          | C    | 13                 | 13   | 3.3 (                    | 1.30) | 4.5 (     | 1.33) | -1.1 (                  | -4.0, 1.7) | 0.423 |
|                 |              |                               | B          | C    | 13                 | 13   | 4.3 (                    | 1.30) | 4.5 (     | 1.33) | -0.2 (                  | -3.0, 2.7) | 0.911 |
|                 |              |                               | A          | D    | 13                 | 13   | 3.3 (                    | 1.30) | 3.9 (     | 1.29) | -0.6 (                  | -3.3, 2.2) | 0.677 |
|                 |              |                               | B          | D    | 13                 | 13   | 4.3 (                    | 1.30) | 3.9 (     | 1.29) | 0.4 (                   | -2.3, 3.1) | 0.763 |

Data Source: Appendix 16.1.9.9

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with baseline, treatment, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.10 Statistical Analysis of Number of Liquid, Gas and Mixed Reflux Episodes Occurring in the 2- and 4-Hour Periods

| Number of    | Population   | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |       |           |       | Test-Reference          |            |         |
|--------------|--------------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------|-----------|-------|-------------------------|------------|---------|
|              |              |                               | Test       | Ref. | Test                  | Ref. | Test                     |       | Reference |       | LS Mean Difference      |            | p-value |
|              |              |                               |            |      |                       |      |                          |       |           |       | 95% Confidence Interval |            |         |
| Gas Episodes | ITT          | 2 hours                       | A          | C    | 14                    | 14   | 0.6 (                    | 0.20) | 0.6 (     | 0.21) | -0.1 (                  | -0.6, 0.4) | 0.728   |
|              |              |                               | B          | C    | 13                    | 14   | 0.4 (                    | 0.21) | 0.6 (     | 0.21) | -0.2 (                  | -0.8, 0.3) | 0.366   |
|              |              |                               | A          | D    | 14                    | 13   | 0.6 (                    | 0.20) | 0.3 (     | 0.21) | 0.2 (                   | -0.3, 0.8) | 0.344   |
|              |              |                               | B          | D    | 13                    | 13   | 0.4 (                    | 0.21) | 0.3 (     | 0.21) | 0.1 (                   | -0.4, 0.6) | 0.721   |
|              |              | 4 hours                       | A          | C    | 14                    | 14   | 1.5 (                    | 0.38) | 1.2 (     | 0.39) | 0.3 (                   | -0.7, 1.2) | 0.563   |
|              |              |                               | B          | C    | 13                    | 14   | 1.2 (                    | 0.39) | 1.2 (     | 0.39) | 0.1 (                   | -0.9, 1.0) | 0.900   |
|              |              |                               | A          | D    | 14                    | 13   | 1.5 (                    | 0.38) | 0.6 (     | 0.39) | 0.8 (                   | -0.1, 1.8) | 0.094   |
|              |              |                               | B          | D    | 13                    | 13   | 1.2 (                    | 0.39) | 0.6 (     | 0.39) | 0.6 (                   | -0.4, 1.6) | 0.221   |
|              | Per Protocol | 2 hours                       | A          | C    | 13                    | 13   | 0.6 (                    | 0.22) | 0.6 (     | 0.22) | 0.0 (                   | -0.6, 0.5) | 0.888   |
|              |              |                               | B          | C    | 13                    | 13   | 0.4 (                    | 0.22) | 0.6 (     | 0.22) | -0.2 (                  | -0.8, 0.3) | 0.417   |
|              |              |                               | A          | D    | 13                    | 13   | 0.6 (                    | 0.22) | 0.3 (     | 0.22) | 0.3 (                   | -0.3, 0.8) | 0.293   |
|              |              |                               | B          | D    | 13                    | 13   | 0.4 (                    | 0.22) | 0.3 (     | 0.22) | 0.1 (                   | -0.4, 0.6) | 0.714   |
|              |              | 4 hours                       | A          | C    | 13                    | 13   | 1.6 (                    | 0.40) | 1.2 (     | 0.41) | 0.3 (                   | -0.7, 1.3) | 0.499   |
|              |              |                               | B          | C    | 13                    | 13   | 1.3 (                    | 0.40) | 1.2 (     | 0.41) | 0.1 (                   | -1.0, 1.1) | 0.912   |
|              |              |                               | A          | D    | 13                    | 13   | 1.6 (                    | 0.40) | 0.7 (     | 0.40) | 0.9 (                   | -0.1, 1.9) | 0.075   |
|              |              |                               | B          | D    | 13                    | 13   | 1.3 (                    | 0.40) | 0.7 (     | 0.40) | 0.6 (                   | -0.4, 1.6) | 0.220   |

Data Source: Appendix 16.1.9.9

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with baseline, treatment, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.10 Statistical Analysis of Number of Liquid, Gas and Mixed Reflux Episodes Occurring in the 2- and 4-Hour Periods

| Number of      | Population   | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |       |           |       | Test-Reference          |            |         |
|----------------|--------------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------|-----------|-------|-------------------------|------------|---------|
|                |              |                               | Test       | Ref. | Test                  | Ref. | Test                     |       | Reference |       | LS Mean Difference      |            | p-value |
|                |              |                               |            |      |                       |      |                          |       |           |       | 95% Confidence Interval |            |         |
| Mixed Episodes | ITT          | 2 hours                       | A          | C    | 14                    | 14   | 1.5 (                    | 0.62) | 2.0 (     | 0.65) | -0.5 (                  | -2.1, 1.1) | 0.513   |
|                |              |                               | B          | C    | 13                    | 14   | 2.4 (                    | 0.65) | 2.0 (     | 0.65) | 0.4 (                   | -1.3, 2.0) | 0.647   |
|                |              |                               | A          | D    | 14                    | 13   | 1.5 (                    | 0.62) | 1.7 (     | 0.69) | -0.2 (                  | -1.9, 1.5) | 0.815   |
|                |              |                               | B          | D    | 13                    | 13   | 2.4 (                    | 0.65) | 1.7 (     | 0.69) | 0.7 (                   | -1.1, 2.5) | 0.424   |
|                |              | 4 hours                       | A          | C    | 14                    | 14   | 2.5 (                    | 0.92) | 2.4 (     | 0.96) | 0.1 (                   | -2.2, 2.4) | 0.949   |
|                |              |                               | B          | C    | 13                    | 14   | 3.6 (                    | 0.97) | 2.4 (     | 0.96) | 1.1 (                   | -1.3, 3.5) | 0.341   |
|                |              |                               | A          | D    | 14                    | 13   | 2.5 (                    | 0.92) | 3.0 (     | 1.03) | -0.5 (                  | -3.0, 2.0) | 0.692   |
|                |              |                               | B          | D    | 13                    | 13   | 3.6 (                    | 0.97) | 3.0 (     | 1.03) | 0.6 (                   | -2.0, 3.1) | 0.647   |
|                | Per Protocol | 2 hours                       | A          | C    | 13                    | 13   | 1.7 (                    | 0.66) | 2.0 (     | 0.68) | -0.3 (                  | -2.0, 1.4) | 0.745   |
|                |              |                               | B          | C    | 13                    | 13   | 2.4 (                    | 0.66) | 2.0 (     | 0.68) | 0.5 (                   | -1.2, 2.2) | 0.580   |
|                |              |                               | A          | D    | 13                    | 13   | 1.7 (                    | 0.66) | 1.6 (     | 0.72) | 0.1 (                   | -1.7, 2.0) | 0.886   |
|                |              |                               | B          | D    | 13                    | 13   | 2.4 (                    | 0.66) | 1.6 (     | 0.72) | 0.9 (                   | -1.0, 2.7) | 0.341   |
|                |              | 4 hours                       | A          | C    | 13                    | 13   | 2.7 (                    | 0.98) | 2.3 (     | 1.02) | 0.4 (                   | -2.1, 2.9) | 0.744   |
|                |              |                               | B          | C    | 13                    | 13   | 3.6 (                    | 0.98) | 2.3 (     | 1.02) | 1.3 (                   | -1.2, 3.8) | 0.301   |
|                |              |                               | A          | D    | 13                    | 13   | 2.7 (                    | 0.98) | 2.8 (     | 1.07) | -0.1 (                  | -2.8, 2.6) | 0.926   |
|                |              |                               | B          | D    | 13                    | 13   | 3.6 (                    | 0.98) | 2.8 (     | 1.07) | 0.8 (                   | -1.9, 3.4) | 0.569   |

Data Source: Appendix 16.1.9.9

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with baseline, treatment, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.11 Statistical Analysis of Number of Acid and Weakly Acidic Reflux Episodes Occurring in the 2- and 4-hour Periods

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Table 14.2.2.11 Statistical Analysis of Number of Acid and Weakly Acidic Reflux Episodes Occurring in the 2- and 4-Hour Periods

| Number of     | Population   | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |             |  |  | Test-Reference                                |         |
|---------------|--------------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------------|--|--|---|---------|
|               |              |                               |            |      |                       |      |                          |             |  |  |   |         |
|               |              |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference   |  |  | LS Mean Difference<br>95% Confidence Interval | p-value |
| Weakly Acidic | ITT          | 2 hours                       | A          | C    | 14                    | 14   | 2.2 ( 0.73)              | 2.7 ( 0.75) |  |  | -0.5 ( -2.2, 1.2)                             | 0.541   |
|               |              |                               | B          | C    | 13                    | 14   | 3.3 ( 0.76)              | 2.7 ( 0.75) |  |  | 0.6 ( -1.2, 2.3)                              | 0.505   |
|               |              |                               | A          | D    | 14                    | 13   | 2.2 ( 0.73)              | 1.3 ( 0.76) |  |  | 0.9 ( -0.8, 2.6)                              | 0.278   |
|               |              |                               | B          | D    | 13                    | 13   | 3.3 ( 0.76)              | 1.3 ( 0.76) |  |  | 2.0 ( 0.3, 3.8)                               | 0.025   |
|               |              | 4 hours                       | A          | C    | 14                    | 14   | 3.1 ( 1.08)              | 3.7 ( 1.11) |  |  | -0.6 ( -2.9, 1.7)                             | 0.616   |
|               |              |                               | B          | C    | 13                    | 14   | 4.5 ( 1.12)              | 3.7 ( 1.11) |  |  | 0.8 ( -1.5, 3.2)                              | 0.483   |
|               |              |                               | A          | D    | 14                    | 13   | 3.1 ( 1.08)              | 2.2 ( 1.12) |  |  | 0.9 ( -1.4, 3.2)                              | 0.441   |
|               |              |                               | B          | D    | 13                    | 13   | 4.5 ( 1.12)              | 2.2 ( 1.12) |  |  | 2.3 ( -0.1, 4.7)                              | 0.059   |
|               | Per Protocol | 2 hours                       | A          | C    | 13                    | 13   | 2.4 ( 0.77)              | 2.5 ( 0.79) |  |  | -0.1 ( -1.9, 1.6)                             | 0.884   |
|               |              |                               | B          | C    | 13                    | 13   | 3.3 ( 0.77)              | 2.5 ( 0.79) |  |  | 0.8 ( -1.0, 2.5)                              | 0.375   |
|               |              |                               | A          | D    | 13                    | 13   | 2.4 ( 0.77)              | 1.3 ( 0.77) |  |  | 1.1 ( -0.6, 2.8)                              | 0.187   |
|               |              |                               | B          | D    | 13                    | 13   | 3.3 ( 0.77)              | 1.3 ( 0.77) |  |  | 2.0 ( 0.3, 3.7)                               | 0.023   |
|               |              | 4 hours                       | A          | C    | 13                    | 13   | 3.4 ( 1.14)              | 3.5 ( 1.17) |  |  | -0.1 ( -2.5, 2.3)                             | 0.934   |
|               |              |                               | B          | C    | 13                    | 13   | 4.6 ( 1.14)              | 3.5 ( 1.17) |  |  | 1.1 ( -1.3, 3.5)                              | 0.379   |
|               |              |                               | A          | D    | 13                    | 13   | 3.4 ( 1.14)              | 2.3 ( 1.14) |  |  | 1.2 ( -1.2, 3.5)                              | 0.321   |
|               |              |                               | B          | D    | 13                    | 13   | 4.6 ( 1.14)              | 2.3 ( 1.14) |  |  | 2.3 ( -0.1, 4.7)                              | 0.055   |

Data Source: Appendix 16.1.9.10

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with baseline, treatment, treatment period and treatment day as fixed effects and a random effect for subject.

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Table 14.2.2.11 Statistical Analysis of Number of Acid and Weakly Acidic Reflux Episodes Occurring in the 2- and 4-Hour Periods

| Number of | Population   | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |       |           |       | Test-Reference          |            |       |
|-----------|--------------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------|-----------|-------|-------------------------|------------|-------|
|           |              |                               | Test       | Ref. | Test                  | Ref. | Test                     |       | Reference |       | LS Mean Difference      |            |       |
|           |              |                               |            |      |                       |      |                          |       |           |       | 95% Confidence Interval | p-value    |       |
| Acid      | ITT          | 2 hours                       | A          | C    | 14                    | 14   | 1.9 (                    | 0.62) | 2.5 (     | 0.65) | -0.6 (                  | -2.4, 1.1) | 0.478 |
|           |              |                               | B          | C    | 13                    | 14   | 2.4 (                    | 0.65) | 2.5 (     | 0.65) | -0.1 (                  | -1.9, 1.7) | 0.917 |
|           |              |                               | A          | D    | 14                    | 13   | 1.9 (                    | 0.62) | 2.6 (     | 0.65) | -0.8 (                  | -2.5, 1.0) | 0.386 |
|           |              |                               | B          | D    | 13                    | 13   | 2.4 (                    | 0.65) | 2.6 (     | 0.65) | -0.2 (                  | -2.0, 1.6) | 0.794 |
|           |              | 4 hours                       | A          | C    | 14                    | 14   | 3.0 (                    | 1.02) | 3.4 (     | 1.06) | -0.4 (                  | -3.2, 2.4) | 0.796 |
|           |              |                               | B          | C    | 13                    | 14   | 4.0 (                    | 1.07) | 3.4 (     | 1.06) | 0.6 (                   | -2.3, 3.5) | 0.676 |
|           |              |                               | A          | D    | 14                    | 13   | 3.0 (                    | 1.02) | 4.1 (     | 1.06) | -1.1 (                  | -3.9, 1.7) | 0.440 |
|           |              |                               | B          | D    | 13                    | 13   | 4.0 (                    | 1.07) | 4.1 (     | 1.06) | -0.1 (                  | -3.0, 2.8) | 0.935 |
|           | Per Protocol | 2 hours                       | A          | C    | 13                    | 13   | 1.9 (                    | 0.65) | 2.3 (     | 0.68) | -0.4 (                  | -2.2, 1.5) | 0.676 |
|           |              |                               | B          | C    | 13                    | 13   | 2.3 (                    | 0.65) | 2.3 (     | 0.68) | 0.0 (                   | -1.9, 1.8) | 0.986 |
|           |              |                               | A          | D    | 13                    | 13   | 1.9 (                    | 0.65) | 2.4 (     | 0.65) | -0.5 (                  | -2.3, 1.3) | 0.606 |
|           |              |                               | B          | D    | 13                    | 13   | 2.3 (                    | 0.65) | 2.4 (     | 0.65) | -0.1 (                  | -1.9, 1.7) | 0.915 |
|           |              | 4 hours                       | A          | C    | 13                    | 13   | 3.1 (                    | 1.06) | 3.1 (     | 1.11) | 0.0 (                   | -3.1, 3.0) | 0.974 |
|           |              |                               | B          | C    | 13                    | 13   | 3.8 (                    | 1.06) | 3.1 (     | 1.11) | 0.7 (                   | -2.3, 3.7) | 0.641 |
|           |              |                               | A          | D    | 13                    | 13   | 3.1 (                    | 1.06) | 3.7 (     | 1.06) | -0.6 (                  | -3.6, 2.3) | 0.675 |
|           |              |                               | B          | D    | 13                    | 13   | 3.8 (                    | 1.06) | 3.7 (     | 1.06) | 0.1 (                   | -2.8, 3.1) | 0.926 |

Data Source: Appendix 16.1.9.10

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Least Squares Means are obtained from a mixed effects model with baseline, treatment, treatment period and treatment day as fixed effects and a random effect for subject.

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## 14.2.2.12 Statistical Analysis of Number of Reflux Episodes Reaching 15 cm Above the Lower Oesophageal Sphincter During the 2- and 4-Hour Periods

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Table 14.2.2.12 Statistical Analysis of Number of Reflux Episodes Reaching 15 cm Above the LOS During the 2- and 4-Hour Periods

| Population   | Timepoint<br>(post treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |             | Test-Reference                                |         |
|--------------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------------|---|---------|
|              |                               | Test       | Ref. | Test                  | Ref. | Test                     | Reference   | LS Mean Difference<br>95% Confidence Interval | p-value |
| ITT          | 2 hours                       | A          | C    | 14                    | 14   | 0.9 ( 0.56)              | 1.2 ( 0.57) | -0.2 ( -1.2, 0.8)                             | 0.634   |
|              |                               | B          | C    | 13                    | 14   | 1.2 ( 0.57)              | 1.2 ( 0.57) | 0.1 ( -1.0, 1.1)                              | 0.902   |
|              |                               | A          | D    | 14                    | 13   | 0.9 ( 0.56)              | 0.8 ( 0.57) | 0.1 ( -0.9, 1.1)                              | 0.835   |
|              |                               | B          | D    | 13                    | 13   | 1.2 ( 0.57)              | 0.8 ( 0.57) | 0.4 ( -0.6, 1.4)                              | 0.420   |
|              | 4 hours                       | A          | C    | 14                    | 14   | 1.0 ( 0.62)              | 1.2 ( 0.64) | -0.2 ( -1.3, 0.9)                             | 0.724   |
|              |                               | B          | C    | 13                    | 14   | 1.6 ( 0.64)              | 1.2 ( 0.64) | 0.4 ( -0.7, 1.6)                              | 0.445   |
|              |                               | A          | D    | 14                    | 13   | 1.0 ( 0.62)              | 1.1 ( 0.64) | -0.2 ( -1.3, 1.0)                             | 0.777   |
|              |                               | B          | D    | 13                    | 13   | 1.6 ( 0.64)              | 1.1 ( 0.64) | 0.5 ( -0.6, 1.6)                              | 0.395   |
| Per Protocol | 2 hours                       | A          | C    | 13                    | 13   | 0.9 ( 0.40)              | 0.4 ( 0.41) | 0.5 ( -0.2, 1.1)                              | 0.160   |
|              |                               | B          | C    | 13                    | 13   | 0.9 ( 0.40)              | 0.4 ( 0.41) | 0.6 ( -0.1, 1.2)                              | 0.095   |
|              |                               | A          | D    | 13                    | 13   | 0.9 ( 0.40)              | 0.5 ( 0.40) | 0.3 ( -0.3, 1.0)                              | 0.305   |
|              |                               | B          | D    | 13                    | 13   | 0.9 ( 0.40)              | 0.5 ( 0.40) | 0.4 ( -0.2, 1.1)                              | 0.187   |
|              | 4 hours                       | A          | C    | 13                    | 13   | 0.9 ( 0.51)              | 0.4 ( 0.52) | 0.5 ( -0.3, 1.3)                              | 0.230   |
|              |                               | B          | C    | 13                    | 13   | 1.3 ( 0.51)              | 0.4 ( 0.52) | 0.9 ( 0.1, 1.8)                               | 0.033   |
|              |                               | A          | D    | 13                    | 13   | 0.9 ( 0.51)              | 0.8 ( 0.51) | 0.1 ( -0.7, 0.9)                              | 0.856   |
|              |                               | B          | D    | 13                    | 13   | 1.3 ( 0.51)              | 0.8 ( 0.51) | 0.5 ( -0.3, 1.3)                              | 0.227   |

Data Source: Appendix 16.1.9.11

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with baseline, treatment, treatment period and treatment day as fixed effects and a random effect for subject.

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### 14.2.2.13 Statistical Analysis of Oesophageal Bolus Exposure to Reflux During the 2- and 4-Hour Periods

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Table 14.2.2.13 Statistical Analysis of Oesophageal Bolus Exposure to Reflux During the 2- and 4-Hour Periods

| Population   | Timepoint<br>(post-treatment) | Comparison |      | Number of<br>Subjects |      | LS Mean (Standard Error) |             |                   |       | Test-Reference     |  |
|--------------|-------------------------------|------------|------|-----------------------|------|--------------------------|-------------|-------------------|-------|--------------------|--|
|              |                               | Test       | Ref. | Test                  | Ref. | Test                     |             | Reference         |       | LS Mean Difference |  |
|              |                               |            |      |                       |      | 95% Confidence Interval  |             | p-value           |       |                    |  |
| ITT          | 2 hours                       | A          | C    | 14                    | 14   | 0.6 ( 0.19)              | 1.1 ( 0.20) | -0.4 ( -0.9, 0.0) | 0.055 |                    |  |
|              |                               | B          | C    | 13                    | 14   | 1.2 ( 0.20)              | 1.1 ( 0.20) | 0.1 ( -0.4, 0.6)  | 0.711 |                    |  |
|              |                               | A          | D    | 14                    | 13   | 0.6 ( 0.19)              | 0.8 ( 0.20) | -0.2 ( -0.7, 0.2) | 0.332 |                    |  |
|              |                               | B          | D    | 13                    | 13   | 1.2 ( 0.20)              | 0.8 ( 0.20) | 0.3 ( -0.2, 0.8)  | 0.193 |                    |  |
|              | 4 hours                       | A          | C    | 14                    | 14   | 0.4 ( 0.14)              | 0.7 ( 0.15) | -0.2 ( -0.5, 0.1) | 0.143 |                    |  |
|              |                               | B          | C    | 13                    | 14   | 0.8 ( 0.15)              | 0.7 ( 0.15) | 0.2 ( -0.2, 0.5)  | 0.329 |                    |  |
|              |                               | A          | D    | 14                    | 13   | 0.4 ( 0.14)              | 0.6 ( 0.15) | -0.2 ( -0.5, 0.1) | 0.186 |                    |  |
|              |                               | B          | D    | 13                    | 13   | 0.8 ( 0.15)              | 0.6 ( 0.15) | 0.2 ( -0.2, 0.5)  | 0.276 |                    |  |
| Per Protocol | 2 hours                       | A          | C    | 13                    | 13   | 0.6 ( 0.20)              | 1.0 ( 0.21) | -0.4 ( -0.8, 0.1) | 0.134 |                    |  |
|              |                               | B          | C    | 13                    | 13   | 1.1 ( 0.20)              | 1.0 ( 0.21) | 0.1 ( -0.3, 0.6)  | 0.542 |                    |  |
|              |                               | A          | D    | 13                    | 13   | 0.6 ( 0.20)              | 0.8 ( 0.20) | -0.2 ( -0.7, 0.3) | 0.405 |                    |  |
|              |                               | B          | D    | 13                    | 13   | 1.1 ( 0.20)              | 0.8 ( 0.20) | 0.3 ( -0.2, 0.8)  | 0.193 |                    |  |
|              | 4 hours                       | A          | C    | 13                    | 13   | 0.4 ( 0.15)              | 0.6 ( 0.16) | -0.2 ( -0.5, 0.1) | 0.265 |                    |  |
|              |                               | B          | C    | 13                    | 13   | 0.8 ( 0.15)              | 0.6 ( 0.16) | 0.2 ( -0.1, 0.5)  | 0.261 |                    |  |
|              |                               | A          | D    | 13                    | 13   | 0.4 ( 0.15)              | 0.6 ( 0.15) | -0.2 ( -0.5, 0.1) | 0.242 |                    |  |
|              |                               | B          | D    | 13                    | 13   | 0.8 ( 0.15)              | 0.6 ( 0.15) | 0.2 ( -0.2, 0.5)  | 0.274 |                    |  |

Data Source: Appendix 16.1.9.12

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

Least Squares Means are obtained from a mixed effects model with baseline, treatment, treatment period and treatment day as fixed effects and a random effect for subject.

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## **14.3      Safety Data Summaries**

## 14.3.1 Displays of Adverse Events

### 14.3.1.1 Overall Summary of Treatment-emergent Adverse Events (Safety Population)

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Table 14.3.1.1 Overall Summary of Treatment-Emergent Adverse Events  
Safety Population (N=16)

| AE Category                                      | Number (%) of Subjects(1) and [Number of Events] |                |                |                |
|--|--|----------------|----------------|----------------|
|  | Treatment  |                |                | Overall (N=15) |
|  | A (N=15)   | B (N=14)       | C (N=15)       |                |
| Any TEAE   | 5 (33.3%) [ 6]                                   | 2 (14.3%) [ 2] | 5 (33.3%) [ 5] | 7 (46.7%) [13] |
| Any mild TEAE                                    | 4 (26.7%) [ 4]                                   | 2 (14.3%) [ 2] | 4 (26.7%) [ 4] | 7 (46.7%) [10] |
| Any moderate TEAE                                | 2 (13.3%) [ 2]                                   | 0              | 1 ( 6.7%) [ 1] | 2 (13.3%) [ 3] |
| Any severe TEAE                                  | 0  | 0              | 0              | 0              |
| Any TEAE related to study medication             | 1 ( 6.7%) [ 2]                                   | 1 ( 7.1%) [ 1] | 1 ( 6.7%) [ 1] | 3 (20.0%) [ 4] |
| Any TEAE leading to discontinuation of treatment | 0  | 0              | 0              | 0              |
| Any SAE  | 0  | 0              | 0              | 0              |
| Any SAE related to study medication              | 0  | 0              | 0              | 0              |
| Any life-threatening SAE                         | 0  | 0              | 0              | 0              |
| Any SAE leading to death                         | 0  | 0              | 0              | 0              |

Data Source: Listing 16.2.7.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

(1) Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in each of those categories.

All adverse events starting or worsening after commencement of treatment with investigational product.

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### 14.3.1.2 Summary of Treatment-emergent Adverse Events by System Organ Class, Preferred Term and Treatment (Safety Population)

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Table 14.3.1.2 Summary of Treatment-Emergent Adverse Events by System Organ Class, Preferred Term and Treatment  
Safety Population (N=16)

| System Organ Class (SOC)<br>MedDRA Preferred Term (PT) | Number (%) of Subjects(1) and [Number of Events] |                |                |                |
|--|--|----------------|----------------|----------------|
|  | Treatment  |                |                | Overall (N=15) |
|  | A (N=15)   | B (N=14)       | C (N=15)       |                |
| Subjects with any TEAE                                 | 5 (33.3%) [ 6]                                   | 2 (14.3%) [ 2] | 5 (33.3%) [ 5] | 7 (46.7%) [13] |
| General disorders and administration site conditions   | 1 ( 6.7%) [ 1]                                   | 2 (14.3%) [ 2] | 0              | 2 (13.3%) [ 3] |
| Fatigue  | 1 ( 6.7%) [ 1]                                   | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 2] |
| Medical device discomfort                              | 0  | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 1] |
| Musculoskeletal and connective tissue disorders        | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |
| Back pain  | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |
| Nervous system disorders                               | 2 (13.3%) [ 2]                                   | 0              | 4 (26.7%) [ 4] | 4 (26.7%) [ 6] |
| Headache   | 2 (13.3%) [ 2]                                   | 0              | 4 (26.7%) [ 4] | 4 (26.7%) [ 6] |
| Respiratory, thoracic and mediastinal disorders        | 1 ( 6.7%) [ 2]                                   | 0              | 1 ( 6.7%) [ 1] | 2 (13.3%) [ 3] |
| Nasal discomfort                                       | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |
| Oropharyngeal pain                                     | 0  | 0              | 1 ( 6.7%) [ 1] | 1 ( 6.7%) [ 1] |
| Rhinorrhoea  | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |

Data Source: Listing 16.2.7.1

MedDRA Version 15.0 used

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

(1) Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in each of those categories.

All adverse events starting or worsening after commencement of treatment with investigational product.

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### 14.3.1.3 Summary of Treatment-emergent Adverse Events by System Organ Class, Preferred Term, Intensity Grade and Treatment (Safety Population)

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Table 14.3.1.3 Summary of Treatment-Emergent Adverse Events by System Organ Class, Preferred Term, Severity Grade and Treatment  
Safety Population (N=16)

| System Organ Class (SOC)<br>MedDRA Preferred Term (PT) | Severity<br>Grade | Number (%) of Subjects(1) and [Number of Events] |                |                |                |
|--|-------------------|--|----------------|----------------|----------------|
|  |                   | Treatment  |                |                | Overall (N=15) |
|  |                   | A (N=15)   | B (N=14)       | C (N=15)       |                |
| Subjects with any TEAE                                 | Mild              | 3 (20.0%) [ 4]                                   | 2 (14.3%) [ 2] | 4 (26.7%) [ 4] | 5 (33.3%) [10] |
|  | Moderate          | 2 (13.3%) [ 2]                                   | 0              | 1 ( 6.7%) [ 1] | 2 (13.3%) [ 3] |
| General disorders and administration site conditions   | Mild              | 1 ( 6.7%) [ 1]                                   | 2 (14.3%) [ 2] | 0              | 2 (13.3%) [ 3] |
| Fatigue  | Mild              | 1 ( 6.7%) [ 1]                                   | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 2] |
| Medical device discomfort                              | Mild              | 0  | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 1] |
| Musculoskeletal and connective tissue disorders        | Mild              | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |
| Back pain  | Mild              | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |
| Nervous system disorders                               | Mild              | 1 ( 6.7%) [ 1]                                   | 0              | 3 (20.0%) [ 3] | 2 (13.3%) [ 4] |
|  | Moderate          | 1 ( 6.7%) [ 1]                                   | 0              | 1 ( 6.7%) [ 1] | 2 (13.3%) [ 2] |
| Headache   | Mild              | 1 ( 6.7%) [ 1]                                   | 0              | 3 (20.0%) [ 3] | 2 (13.3%) [ 4] |

Data Source: Listing 16.2.7.1

MedDRA Version 15.0 used

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
                          B: Gaviscon Advance Liquid (10 mL)  
                          C: Placebo Liquid (20 mL)  
                          D: Untreated

(1) Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in each of those categories.

Note: All adverse events starting or worsening after commencement of treatment with investigational product.

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Table 14.3.1.3 Summary of Treatment-Emergent Adverse Events by System Organ Class, Preferred Term, Severity Grade and Treatment  
Safety Population (N=16)

| System Organ Class (SOC)<br>MedDRA Preferred Term (PT) | Severity<br>Grade | Number (%) of Subjects(1) and [Number of Events] |          |                |                |
|--|-------------------|--|----------|----------------|----------------|
|  |                   | Treatment  |          |                | Overall (N=15) |
|  |                   | A (N=15)   | B (N=14) | C (N=15)       |                |
| Headache   | Moderate          | 1 ( 6.7%) [ 1]                                   | 0        | 1 ( 6.7%) [ 1] | 2 (13.3%) [ 2] |

Data Source: Listing 16.2.7.1

MedDRA Version 15.0 used

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

(1) Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in each of those categories.

Note: All adverse events starting or worsening after commencement of treatment with investigational product.

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_01\_03.sas

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Table 14.3.1.3 Summary of Treatment-Emergent Adverse Events by System Organ Class, Preferred Term, Severity Grade and Treatment  
Safety Population (N=16)

| System Organ Class (SOC)<br>MedDRA Preferred Term (PT) | Severity Grade | Number (%) of Subjects(1) and [Number of Events] |          |                |                |
|--|----------------|--|----------|----------------|----------------|
|  |                | Treatment  |          |                | Overall (N=15) |
|  |                | A (N=15)   | B (N=14) | C (N=15)       |                |
| Respiratory, thoracic and mediastinal disorders        | Mild           | 0 [ 1]   | 0        | 1 ( 6.7%) [ 1] | 1 ( 6.7%) [ 2] |
|  | Moderate       | 1 ( 6.7%) [ 1]                                   | 0        | 0              | 1 ( 6.7%) [ 1] |
| Nasal discomfort                                       | Moderate       | 1 ( 6.7%) [ 1]                                   | 0        | 0              | 1 ( 6.7%) [ 1] |
| Oropharyngeal pain                                     | Mild           | 0  | 0        | 1 ( 6.7%) [ 1] | 1 ( 6.7%) [ 1] |
| Rhinorrhoea  | Mild           | 1 ( 6.7%) [ 1]                                   | 0        | 0              | 1 ( 6.7%) [ 1] |

Data Source: Listing 16.2.7.1

MedDRA Version 15.0 used

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

(1) Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in each of those categories.

Note: All adverse events starting or worsening after commencement of treatment with investigational product.

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### 14.3.1.4 Summary of Treatment-emergent Adverse Events by System Organ Class, Preferred Term, Relationship to Study Drug and Treatment (Safety Population)

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Table 14.3.1.4 Summary of Treatment-Emergent Adverse Events by System Organ Class, Preferred Term, Relationship to Study Drug and Treatment  
Safety Population (N=16)

| System Organ Class (SOC)<br>MedDRA Preferred Term (PT) | Relationship to<br>Test Article | Number (%) of Subjects(1) and [Number of Events] |                |                |                |
|--|---------------------------------|--|----------------|----------------|----------------|
|  |                                 | Treatment  |                |                | Overall (N=15) |
|  |                                 | A (N=15)   | B (N=14)       | C (N=15)       |                |
| Subjects with any TEAE                                 | Definite                        | 1 ( 6.7%) [ 2]                                   | 1 ( 7.1%) [ 1] | 0              | 2 (13.3%) [ 3] |
|  | Probable                        | 0  | 0              | 1 ( 6.7%) [ 1] | 1 ( 6.7%) [ 1] |
|  | Unlikely                        | 3 (20.0%) [ 3]                                   | 1 ( 7.1%) [ 1] | 4 (26.7%) [ 4] | 4 (26.7%) [ 8] |
|  | None                            | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 0 [ 1]         |
| General disorders and administration site conditions   | Definite                        | 0  | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 1] |
|  | Unlikely                        | 1 ( 6.7%) [ 1]                                   | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 2] |
| Fatigue  | Unlikely                        | 1 ( 6.7%) [ 1]                                   | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 2] |
| Medical device discomfort                              | Definite                        | 0  | 1 ( 7.1%) [ 1] | 0              | 1 ( 6.7%) [ 1] |
| Musculoskeletal and connective tissue disorders        | None                            | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |
| Back pain  | None                            | 1 ( 6.7%) [ 1]                                   | 0              | 0              | 1 ( 6.7%) [ 1] |

Data Source: Listing 16.2.7.1

MedDRA Version 15.0 used

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

(1) Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in each of those categories.

All adverse events starting or worsening after commencement of treatment with investigational product

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Table 14.3.1.4 Summary of Treatment-Emergent Adverse Events by System Organ Class, Preferred Term, Relationship to Study Drug and Treatment  
Safety Population (N=16)

| System Organ Class (SOC)<br>MedDRA Preferred Term (PT) | Relationship to<br>Test Article | Number (%) of Subjects(1) and [Number of Events] |          |                |                |
|--|---------------------------------|--|----------|----------------|----------------|
|  |                                 | Treatment  |          |                | Overall (N=15) |
|  |                                 | A (N=15)   | B (N=14) | C (N=15)       |                |
| Nervous system disorders                               | Unlikely                        | 2 (13.3%) [ 2]                                   | 0        | 4 (26.7%) [ 4] | 4 (26.7%) [ 6] |
| Headache   | Unlikely                        | 2 (13.3%) [ 2]                                   | 0        | 4 (26.7%) [ 4] | 4 (26.7%) [ 6] |
| Respiratory, thoracic and mediastinal disorders        | Definite                        | 1 ( 6.7%) [ 2]                                   | 0        | 0              | 1 ( 6.7%) [ 2] |
|  | Probable                        | 0  | 0        | 1 ( 6.7%) [ 1] | 1 ( 6.7%) [ 1] |
| Nasal discomfort                                       | Definite                        | 1 ( 6.7%) [ 1]                                   | 0        | 0              | 1 ( 6.7%) [ 1] |
| Oropharyngeal pain                                     | Probable                        | 0  | 0        | 1 ( 6.7%) [ 1] | 1 ( 6.7%) [ 1] |
| Rhinorrhoea  | Definite                        | 1 ( 6.7%) [ 1]                                   | 0        | 0              | 1 ( 6.7%) [ 1] |

Data Source: Listing 16.2.7.1

MedDRA Version 15.0 used

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

(1) Subjects with multiple events in the same category are counted only once in that category. Subjects with events in more than one category are counted once in each of those categories.

All adverse events starting or worsening after commencement of treatment with investigational product

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_01\_04.sas

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## 14.3.2 Listings of Deaths, Other Serious and Certain Significant Adverse Events

### 14.3.2.1 Listing of Deaths, Other Serious Adverse Events, and Other Significant Adverse Events (Safety Population)

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Table 14.3.2.1 Listing of Deaths, Other Serious Adverse Events, and Other Significant Adverse Events  
Safety Population (N=16)

| Enrol-<br>ment<br>Number | Subject<br>Number | TEAE | Treat-<br>ment | MedDRA Preferred Term (MP)<br>MedDRA Body System (MS)<br>CRF Description (C) | Start Date/Time (ON)<br>Stop Date/Time (DR)<br>Duration of event (D)<br>Onset Relative to Last Dose<br>(OR) | Serious (SER)<br>Serious Criteria (SC)<br>Relationship to Study Medication (R)<br>Maximum Severity (MS)<br>Action Taken with Study Drug (A)<br>Outcome (OUT) |
|--------------------------|-------------------|------|----------------|--|---|--|
| No Data Reported         |                   |      |                |  |   |  |

Data Source: Listing 16.2.7.1

MedDRA Version 15.0 used

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

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### **14.3.3 Narratives of Deaths, Other Serious and Certain Other Significant Adverse Events**

Not applicable.

#### **14.3.4 Abnormal Laboratory Value Listing**

Not applicable.

## 14.3.5 Additional Safety Data Summaries

### 14.3.5.1 Vital Signs (Safety Population)

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign | Time Point                     | Summary<br>Statistic | Treatment A     | Treatment B     | Treatment C     | Treatment D     | Overall         |       |
|------------|--------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|            |                                |                      | Absolute Change | Absolute Change | Absolute Change | Absolute Change | Absolute Change |       |
| SBP (mmHg) | Screening                      | n                    |                 |                 |                 |                 | 26              |       |
|            |                                | Mean                 |                 |                 |                 |                 | 118.3           |       |
|            |                                | SD                   |                 |                 |                 |                 | 13.02           |       |
|            |                                | CV(%)                |                 |                 |                 |                 | 11.00           |       |
|            |                                | Minimum              |                 |                 |                 |                 | 98              |       |
|            |                                | Median               |                 |                 |                 |                 | 119.0           |       |
|            |                                | Maximum              |                 |                 |                 |                 | 141             |       |
|            | VP Treatment<br>Period 1 Day 1 | n                    |                 |                 |                 |                 | 10              | 10    |
|            |                                | Mean                 |                 |                 |                 |                 | 120.9           | 6.6   |
|            |                                | SD                   |                 |                 |                 |                 | 10.71           | 7.99  |
|            |                                | CV(%)                |                 |                 |                 |                 | 8.86            |       |
|            |                                | Minimum              |                 |                 |                 |                 | 101             | -4    |
|            |                                | Median               |                 |                 |                 |                 | 123.5           | 9.0   |
|            |                                | Maximum              |                 |                 |                 |                 | 134             | 16    |
|            | VP Treatment<br>Period 1 Day 3 | n                    |                 |                 |                 |                 | 8               | 8     |
|            |                                | Mean                 |                 |                 |                 |                 | 118.9           | 6.6   |
|            |                                | SD                   |                 |                 |                 |                 | 10.75           | 12.26 |
|            |                                | CV(%)                |                 |                 |                 |                 | 9.04            |       |
|            |                                | Minimum              |                 |                 |                 |                 | 106             | -12   |
|            |                                | Median               |                 |                 |                 |                 | 116.5           | 5.5   |
|            |                                | Maximum              |                 |                 |                 |                 | 138             | 25    |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)  
B: Gaviscon Advance Liquid (10 mL)  
C: Placebo Liquid (20 mL)  
D: Untreated

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign | Time Point                     | Summary<br>Statistic | Treatment A     |       | Treatment B     |       | Treatment C     |      | Treatment D     |       | Overall         |       |
|------------|--------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|------|-----------------|-------|-----------------|-------|
|            |                                |                      | Absolute Change |       | Absolute Change |       | Absolute Change |      | Absolute Change |       | Absolute Change |       |
| SBP (mmHg) | VP Follow-up                   | n                    |                 |       |                 |       |                 |      |                 |       | 10              | 10    |
|            |                                | Mean                 |                 |       |                 |       |                 |      |                 |       | 117.4           | 3.1   |
|            |                                | SD                   |                 |       |                 |       |                 |      |                 |       | 12.94           | 13.02 |
|            |                                | CV(%)                |                 |       |                 |       |                 |      |                 |       | 11.02           |       |
|            |                                | Minimum              |                 |       |                 |       |                 |      |                 |       | 97              | -18   |
|            |                                | Median               |                 |       |                 |       |                 |      |                 |       | 118.5           | -0.5  |
|            |                                | Maximum              |                 |       |                 |       |                 |      |                 |       | 143             | 30    |
|            | CP Treatment<br>Period 1 Day 1 | n                    |                 |       |                 |       |                 |      |                 |       | 16              | 16    |
|            |                                | Mean                 |                 |       |                 |       |                 |      |                 |       | 125.3           | 4.4   |
|            |                                | SD                   |                 |       |                 |       |                 |      |                 |       | 16.35           | 14.54 |
|            |                                | CV(%)                |                 |       |                 |       |                 |      |                 |       | 13.05           |       |
|            |                                | Minimum              |                 |       |                 |       |                 |      |                 |       | 97              | -19   |
|            |                                | Median               |                 |       |                 |       |                 |      |                 |       | 119.5           | 3.0   |
|            |                                | Maximum              |                 |       |                 |       |                 |      |                 |       | 155             | 33    |
|            | CP Treatment<br>Period 1 Day 3 | n                    | 4               | 4     | 4               | 4     | 4               | 4    | 3               | 3     | 15              | 15    |
|            |                                | Mean                 | 113.8           | -6.8  | 119.8           | 5.5   | 124.5           | 3.0  | 112.0           | -10.3 | 117.9           | -1.6  |
|            |                                | SD                   | 2.87            | 15.04 | 23.04           | 13.92 | 13.10           | 9.09 | 9.17            | 8.39  | 13.79           | 12.73 |
|            |                                | CV(%)                | 2.53            |       | 19.24           |       | 10.52           |      | 8.18            |       | 11.70           |       |
|            |                                | Minimum              | 110             | -22   | 98              | -12   | 109             | -9   | 104             | -20   | 98              | -22   |
|            |                                | Median               | 114.5           | -9.5  | 117.5           | 6.0   | 124.0           | 4.0  | 110.0           | -6.0  | 116.0           | -5.0  |
|            |                                | Maximum              | 116             | 14    | 146             | 22    | 141             | 13   | 122             | -5    | 146             | 22    |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign | Time Point                     | Summary<br>Statistic | Treatment A     |       | Treatment B     |       | Treatment C     |      | Treatment D     |       | Overall         |       |
|------------|--------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|------|-----------------|-------|-----------------|-------|
|            |                                |                      | Absolute Change |       | Absolute Change |       | Absolute Change |      | Absolute Change |       | Absolute Change |       |
| SBP (mmHg) | CP Treatment<br>Period 2 Day 1 | n                    |                 |       |                 |       |                 |      |                 |       | 15              | 15    |
|            |                                | Mean                 |                 |       |                 |       |                 |      |                 |       | 121.9           | 2.4   |
|            |                                | SD                   |                 |       |                 |       |                 |      |                 |       | 17.76           | 17.44 |
|            |                                | CV(%)                |                 |       |                 |       |                 |      |                 |       | 14.57           |       |
|            |                                | Minimum              |                 |       |                 |       |                 |      |                 |       | 95              | -30   |
|            |                                | Median               |                 |       |                 |       |                 |      |                 |       | 117.0           | -1.0  |
|            |                                | Maximum              |                 |       |                 |       |                 |      |                 |       | 169             | 45    |
|            | CP Treatment<br>Period 2 Day 3 | n                    | 4               | 4     | 4               | 4     | 3               | 3    | 3               | 3     | 14              | 14    |
|            |                                | Mean                 | 111.3           | -6.8  | 112.5           | -7.8  | 114.0           | -3.3 | 130.0           | 10.3  | 116.2           | -2.6  |
|            |                                | SD                   | 13.65           | 10.05 | 12.26           | 10.21 | 10.44           | 7.51 | 9.17            | 11.59 | 12.81           | 11.35 |
|            |                                | CV(%)                | 12.27           |       | 10.90           |       | 9.16            |      | 7.05            |       | 11.03           |       |
|            |                                | Minimum              | 92              | -18   | 100             | -16   | 102             | -11  | 120             | -2    | 92              | -18   |
|            |                                | Median               | 114.5           | -6.5  | 113.0           | -10.5 | 119.0           | -3.0 | 132.0           | 12.0  | 119.5           | -2.5  |
|            |                                | Maximum              | 124             | 4     | 124             | 6     | 121             | 4    | 138             | 21    | 138             | 21    |
|            | CP Follow-up                   | n                    |                 |       |                 |       |                 |      |                 |       | 15              | 15    |
|            |                                | Mean                 |                 |       |                 |       |                 |      |                 |       | 118.9           | -0.6  |
|            |                                | SD                   |                 |       |                 |       |                 |      |                 |       | 15.99           | 13.76 |
|            |                                | CV(%)                |                 |       |                 |       |                 |      |                 |       | 13.45           |       |
|            |                                | Minimum              |                 |       |                 |       |                 |      |                 |       | 89              | -22   |
|            |                                | Median               |                 |       |                 |       |                 |      |                 |       | 117.0           | 1.0   |
|            |                                | Maximum              |                 |       |                 |       |                 |      |                 |       | 151             | 23    |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign | Time Point                     | Summary<br>Statistic | Treatment A     | Treatment B     | Treatment C     | Treatment D     | Overall         |      |
|------------|--------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|
|            |                                |                      | Absolute Change | Absolute Change | Absolute Change | Absolute Change | Absolute Change |      |
| DBP (mmHg) | Screening                      | n                    |                 |                 |                 |                 | 26              |      |
|            |                                | Mean                 |                 |                 |                 |                 | 71.7            |      |
|            |                                | SD                   |                 |                 |                 |                 | 8.48            |      |
|            |                                | CV(%)                |                 |                 |                 |                 | 11.83           |      |
|            |                                | Minimum              |                 |                 |                 |                 | 55              |      |
|            |                                | Median               |                 |                 |                 |                 | 72.0            |      |
|            |                                | Maximum              |                 |                 |                 |                 | 89              |      |
|            | VP Treatment<br>Period 1 Day 1 | n                    |                 |                 |                 |                 | 10              | 10   |
|            |                                | Mean                 |                 |                 |                 |                 | 70.2            | 5.3  |
|            |                                | SD                   |                 |                 |                 |                 | 7.47            | 7.09 |
|            |                                | CV(%)                |                 |                 |                 |                 | 10.63           |      |
|            |                                | Minimum              |                 |                 |                 |                 | 57              | -6   |
|            |                                | Median               |                 |                 |                 |                 | 72.5            | 4.5  |
|            |                                | Maximum              |                 |                 |                 |                 | 77              | 15   |
|            | VP Treatment<br>Period 1 Day 3 | n                    |                 |                 |                 |                 | 8               | 8    |
|            |                                | Mean                 |                 |                 |                 |                 | 72.0            | 8.0  |
|            |                                | SD                   |                 |                 |                 |                 | 8.05            | 8.60 |
|            |                                | CV(%)                |                 |                 |                 |                 | 11.19           |      |
|            |                                | Minimum              |                 |                 |                 |                 | 61              | -9   |
|            |                                | Median               |                 |                 |                 |                 | 76.0            | 9.0  |
|            |                                | Maximum              |                 |                 |                 |                 | 82              | 17   |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign | Time Point                     | Summary<br>Statistic | Treatment A     |      | Treatment B     |      | Treatment C     |      | Treatment D     |       | Overall         |       |
|------------|--------------------------------|----------------------|-----------------|------|-----------------|------|-----------------|------|-----------------|-------|-----------------|-------|
|            |                                |                      | Absolute Change |      | Absolute Change |      | Absolute Change |      | Absolute Change |       | Absolute Change |       |
| DBP (mmHg) | VP Follow-up                   | n                    |                 |      |                 |      |                 |      |                 |       | 10              | 10    |
|            |                                | Mean                 |                 |      |                 |      |                 |      |                 |       | 66.7            | 1.8   |
|            |                                | SD                   |                 |      |                 |      |                 |      |                 |       | 6.78            | 9.50  |
|            |                                | CV(%)                |                 |      |                 |      |                 |      |                 |       | 10.17           |       |
|            |                                | Minimum              |                 |      |                 |      |                 |      |                 |       | 55              | -12   |
|            |                                | Median               |                 |      |                 |      |                 |      |                 |       | 68.0            | 2.0   |
|            |                                | Maximum              |                 |      |                 |      |                 |      |                 |       | 78              | 19    |
|            | CP Treatment<br>Period 1 Day 1 | n                    |                 |      |                 |      |                 |      |                 |       | 16              | 16    |
|            |                                | Mean                 |                 |      |                 |      |                 |      |                 |       | 75.3            | -0.7  |
|            |                                | SD                   |                 |      |                 |      |                 |      |                 |       | 9.82            | 10.34 |
|            |                                | CV(%)                |                 |      |                 |      |                 |      |                 |       | 13.03           |       |
|            |                                | Minimum              |                 |      |                 |      |                 |      |                 |       | 61              | -15   |
|            |                                | Median               |                 |      |                 |      |                 |      |                 |       | 74.0            | -0.5  |
|            |                                | Maximum              |                 |      |                 |      |                 |      |                 |       | 101             | 14    |
|            | CP Treatment<br>Period 1 Day 3 | n                    | 4               | 4    | 4               | 4    | 4               | 4    | 3               | 3     | 15              | 15    |
|            |                                | Mean                 | 73.5            | -1.3 | 68.0            | -3.8 | 75.3            | -4.5 | 65.0            | -12.7 | 70.8            | -5.1  |
|            |                                | SD                   | 4.93            | 5.50 | 12.57           | 7.37 | 6.18            | 9.95 | 14.00           | 20.55 | 9.62            | 10.81 |
|            |                                | CV(%)                | 6.71            |      | 18.49           |      | 8.22            |      | 21.54           |       | 13.58           |       |
|            |                                | Minimum              | 68              | -6   | 55              | -13  | 68              | -13  | 51              | -34   | 51              | -34   |
|            |                                | Median               | 73.0            | -2.5 | 66.0            | -3.5 | 75.0            | -5.5 | 65.0            | -11.0 | 73.0            | -4.0  |
|            |                                | Maximum              | 80              | 6    | 85              | 5    | 83              | 6    | 79              | 7     | 85              | 7     |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign | Time Point                     | Summary<br>Statistic | Treatment A     |       | Treatment B     |       | Treatment C     |       | Treatment D     |      | Overall         |       |
|------------|--------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|------|-----------------|-------|
|            |                                |                      | Absolute Change |       | Absolute Change |       | Absolute Change |       | Absolute Change |      | Absolute Change |       |
| DBP (mmHg) | CP Treatment<br>Period 2 Day 1 | n                    |                 |       |                 |       |                 |       |                 |      | 15              | 15    |
|            |                                | Mean                 |                 |       |                 |       |                 |       |                 |      | 70.7            | -5.2  |
|            |                                | SD                   |                 |       |                 |       |                 |       |                 |      | 8.67            | 10.48 |
|            |                                | CV(%)                |                 |       |                 |       |                 |       |                 |      | 12.27           |       |
|            |                                | Minimum              |                 |       |                 |       |                 |       |                 |      | 48              | -24   |
|            |                                | Median               |                 |       |                 |       |                 |       |                 |      | 71.0            | -2.0  |
|            |                                | Maximum              |                 |       |                 |       |                 |       |                 |      | 82              | 9     |
|            | CP Treatment<br>Period 2 Day 3 | n                    | 4               | 4     | 4               | 4     | 3               | 3     | 3               | 3    | 14              | 14    |
|            |                                | Mean                 | 63.3            | -10.8 | 69.8            | -8.0  | 64.3            | -10.3 | 79.3            | 2.7  | 68.8            | -7.0  |
|            |                                | SD                   | 11.35           | 8.77  | 10.21           | 8.37  | 4.62            | 13.80 | 6.66            | 9.87 | 10.19           | 10.34 |
|            |                                | CV(%)                | 17.95           |       | 14.64           |       | 7.18            |       | 8.39            |      | 14.82           |       |
|            |                                | Minimum              | 54              | -22   | 60              | -15   | 59              | -26   | 72              | -4   | 54              | -26   |
|            |                                | Median               | 60.0            | -10.0 | 67.5            | -10.5 | 67.0            | -5.0  | 81.0            | -2.0 | 67.0            | -6.5  |
|            |                                | Maximum              | 79              | -1    | 84              | 4     | 67              | 0     | 85              | 14   | 85              | 14    |
|            | CP Follow-up                   | n                    |                 |       |                 |       |                 |       |                 |      | 15              | 15    |
|            |                                | Mean                 |                 |       |                 |       |                 |       |                 |      | 69.3            | -6.6  |
|            |                                | SD                   |                 |       |                 |       |                 |       |                 |      | 9.00            | 8.64  |
|            |                                | CV(%)                |                 |       |                 |       |                 |       |                 |      | 12.99           |       |
|            |                                | Minimum              |                 |       |                 |       |                 |       |                 |      | 57              | -24   |
|            |                                | Median               |                 |       |                 |       |                 |       |                 |      | 71.0            | -5.0  |
|            |                                | Maximum              |                 |       |                 |       |                 |       |                 |      | 84              | 7     |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign          | Time Point                     | Summary<br>Statistic | Treatment A     | Treatment B     | Treatment C     | Treatment D     | Overall         |       |
|---------------------|--------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|                     |                                |                      | Absolute Change | Absolute Change | Absolute Change | Absolute Change | Absolute Change |       |
| Heart Rate<br>(bpm) | Screening                      | n                    |                 |                 |                 |                 | 26              |       |
|                     |                                | Mean                 |                 |                 |                 |                 | 68.2            |       |
|                     |                                | SD                   |                 |                 |                 |                 | 8.28            |       |
|                     |                                | CV(%)                |                 |                 |                 |                 | 12.14           |       |
|                     |                                | Minimum              |                 |                 |                 |                 | 57              |       |
|                     |                                | Median               |                 |                 |                 |                 | 66.0            |       |
|                     |                                | Maximum              |                 |                 |                 |                 | 91              |       |
|                     | VP Treatment<br>Period 1 Day 1 | n                    |                 |                 |                 |                 | 10              | 10    |
|                     |                                | Mean                 |                 |                 |                 |                 | 75.3            | 7.4   |
|                     |                                | SD                   |                 |                 |                 |                 | 9.96            | 4.25  |
|                     |                                | CV(%)                |                 |                 |                 |                 | 13.22           |       |
|                     |                                | Minimum              |                 |                 |                 |                 | 69              | 1     |
|                     |                                | Median               |                 |                 |                 |                 | 71.5            | 8.5   |
|                     |                                | Maximum              |                 |                 |                 |                 | 102             | 12    |
|                     | VP Treatment<br>Period 1 Day 3 | n                    |                 |                 |                 |                 | 8               | 8     |
|                     |                                | Mean                 |                 |                 |                 |                 | 75.4            | 7.4   |
|                     |                                | SD                   |                 |                 |                 |                 | 9.23            | 11.73 |
|                     |                                | CV(%)                |                 |                 |                 |                 | 12.24           |       |
|                     |                                | Minimum              |                 |                 |                 |                 | 57              | -10   |
|                     |                                | Median               |                 |                 |                 |                 | 77.5            | 13.0  |
|                     |                                | Maximum              |                 |                 |                 |                 | 86              | 20    |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign          | Time Point                     | Summary<br>Statistic | Treatment A     |      | Treatment B     |      | Treatment C     |      | Treatment D     |      | Overall         |       |
|---------------------|--------------------------------|----------------------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|-------|
|                     |                                |                      | Absolute Change |      | Absolute Change |      | Absolute Change |      | Absolute Change |      | Absolute Change |       |
| Heart Rate<br>(bpm) | VP Follow-up                   | n                    |                 |      |                 |      |                 |      |                 |      | 10              | 10    |
|                     |                                | Mean                 |                 |      |                 |      |                 |      |                 |      | 74.7            | 6.8   |
|                     |                                | SD                   |                 |      |                 |      |                 |      |                 |      | 9.35            | 11.69 |
|                     |                                | CV(%)                |                 |      |                 |      |                 |      |                 |      | 12.51           |       |
|                     |                                | Minimum              |                 |      |                 |      |                 |      |                 |      | 63              | -16   |
|                     |                                | Median               |                 |      |                 |      |                 |      |                 |      | 73.5            | 7.5   |
|                     |                                | Maximum              |                 |      |                 |      |                 |      |                 |      | 91              | 25    |
|                     | CP Treatment<br>Period 1 Day 1 | n                    |                 |      |                 |      |                 |      |                 |      | 16              | 16    |
|                     |                                | Mean                 |                 |      |                 |      |                 |      |                 |      | 73.7            | 5.3   |
|                     |                                | SD                   |                 |      |                 |      |                 |      |                 |      | 6.34            | 8.23  |
|                     |                                | CV(%)                |                 |      |                 |      |                 |      |                 |      | 8.61            |       |
|                     |                                | Minimum              |                 |      |                 |      |                 |      |                 |      | 63              | -12   |
|                     |                                | Median               |                 |      |                 |      |                 |      |                 |      | 71.0            | 6.0   |
|                     |                                | Maximum              |                 |      |                 |      |                 |      |                 |      | 88              | 23    |
|                     | CP Treatment<br>Period 1 Day 3 | n                    | 4               | 4    | 4               | 4    | 4               | 4    | 3               | 3    | 15              | 15    |
|                     |                                | Mean                 | 78.8            | 7.3  | 71.0            | 4.8  | 76.8            | 10.3 | 69.3            | -2.0 | 74.3            | 5.5   |
|                     |                                | SD                   | 13.00           | 7.93 | 2.16            | 6.50 | 11.47           | 8.77 | 1.15            | 7.94 | 9.02            | 8.22  |
|                     |                                | CV(%)                | 16.50           |      | 3.04            |      | 14.95           |      | 1.67            |      | 12.14           |       |
|                     |                                | Minimum              | 70              | -1   | 69              | -4   | 60              | -1   | 68              | -11  | 60              | -11   |
|                     |                                | Median               | 73.5            | 6.0  | 70.5            | 6.0  | 80.5            | 11.5 | 70.0            | 1.0  | 71.0            | 5.0   |
|                     |                                | Maximum              | 98              | 18   | 74              | 11   | 86              | 19   | 70              | 4    | 98              | 19    |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign          | Time Point                     | Summary<br>Statistic | Treatment A     |       | Treatment B     |      | Treatment C     |       | Treatment D     |       | Overall         |       |
|---------------------|--------------------------------|----------------------|-----------------|-------|-----------------|------|-----------------|-------|-----------------|-------|-----------------|-------|
|                     |                                |                      | Absolute Change |       | Absolute Change |      | Absolute Change |       | Absolute Change |       | Absolute Change |       |
| Heart Rate<br>(bpm) | CP Treatment<br>Period 2 Day 1 | n                    |                 |       |                 |      |                 |       |                 |       | 15              | 15    |
|                     |                                | Mean                 |                 |       |                 |      |                 |       |                 |       | 80.6            | 11.9  |
|                     |                                | SD                   |                 |       |                 |      |                 |       |                 |       | 12.84           | 12.71 |
|                     |                                | CV(%)                |                 |       |                 |      |                 |       |                 |       | 15.94           |       |
|                     |                                | Minimum              |                 |       |                 |      |                 |       |                 |       | 63              | -7    |
|                     |                                | Median               |                 |       |                 |      |                 |       |                 |       | 75.0            | 10.0  |
|                     |                                | Maximum              |                 |       |                 |      |                 |       |                 |       | 101             | 42    |
|                     | CP Treatment<br>Period 2 Day 3 | n                    | 4               | 4     | 4               | 4    | 3               | 3     | 3               | 3     | 14              | 14    |
|                     |                                | Mean                 | 68.8            | -0.5  | 70.5            | 0.0  | 74.7            | 7.3   | 81.0            | 13.3  | 73.1            | 4.3   |
|                     |                                | SD                   | 6.40            | 12.45 | 13.43           | 4.08 | 8.08            | 12.42 | 5.29            | 12.06 | 9.40            | 10.93 |
|                     |                                | CV(%)                | 9.30            |       | 19.05           |      | 10.83           |       | 6.53            |       | 12.85           |       |
|                     |                                | Minimum              | 62              | -16   | 58              | -3   | 66              | -7    | 75              | 2     | 58              | -16   |
|                     |                                | Median               | 68.5            | 0.5   | 67.5            | -1.5 | 76.0            | 14.0  | 83.0            | 12.0  | 73.5            | 3.5   |
|                     |                                | Maximum              | 76              | 13    | 89              | 6    | 82              | 15    | 85              | 26    | 89              | 26    |
|                     | CP Follow-up                   | n                    |                 |       |                 |      |                 |       |                 |       | 15              | 15    |
|                     |                                | Mean                 |                 |       |                 |      |                 |       |                 |       | 68.7            | -0.1  |
|                     |                                | SD                   |                 |       |                 |      |                 |       |                 |       | 7.72            | 10.77 |
|                     |                                | CV(%)                |                 |       |                 |      |                 |       |                 |       | 11.24           |       |
|                     |                                | Minimum              |                 |       |                 |      |                 |       |                 |       | 55              | -17   |
|                     |                                | Median               |                 |       |                 |      |                 |       |                 |       | 67.0            | -1.0  |
|                     |                                | Maximum              |                 |       |                 |      |                 |       |                 |       | 85              | 28    |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign                   | Time Point                     | Summary<br>Statistic | Treatment A     | Treatment B     | Treatment C     | Treatment D     | Overall         |       |
|------------------------------|--------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|                              |                                |                      | Absolute Change | Absolute Change | Absolute Change | Absolute Change | Absolute Change |       |
| Oral<br>Temperature (deg. C) | Screening                      | n                    |                 |                 |                 |                 | 26              |       |
|                              |                                | Mean                 |                 |                 |                 |                 | 36.53           |       |
|                              |                                | SD                   |                 |                 |                 |                 | 0.445           |       |
|                              |                                | CV(%)                |                 |                 |                 |                 | 1.22            |       |
|                              |                                | Minimum              |                 |                 |                 |                 | 36.0            |       |
|                              |                                | Median               |                 |                 |                 |                 | 36.55           |       |
|                              |                                | Maximum              |                 |                 |                 |                 | 37.4            |       |
|                              | VP Treatment<br>Period 1 Day 1 | n                    |                 |                 |                 |                 | 10              | 10    |
|                              |                                | Mean                 |                 |                 |                 |                 | 36.40           | -0.15 |
|                              |                                | SD                   |                 |                 |                 |                 | 0.620           | 0.715 |
|                              |                                | CV(%)                |                 |                 |                 |                 | 1.70            |       |
|                              |                                | Minimum              |                 |                 |                 |                 | 35.0            | -1.6  |
|                              |                                | Median               |                 |                 |                 |                 | 36.60           | -0.25 |
|                              |                                | Maximum              |                 |                 |                 |                 | 37.0            | 0.8   |
|                              | VP Treatment<br>Period 1 Day 3 | n                    |                 |                 |                 |                 | 8               | 8     |
|                              |                                | Mean                 |                 |                 |                 |                 | 36.80           | 0.21  |
|                              |                                | SD                   |                 |                 |                 |                 | 0.385           | 0.647 |
|                              |                                | CV(%)                |                 |                 |                 |                 | 1.05            |       |
|                              |                                | Minimum              |                 |                 |                 |                 | 36.1            | -0.6  |
|                              |                                | Median               |                 |                 |                 |                 | 36.85           | 0.35  |
|                              |                                | Maximum              |                 |                 |                 |                 | 37.3            | 1.1   |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign                   | Time Point                     | Summary<br>Statistic | Treatment A     |       | Treatment B     |       | Treatment C     |       | Treatment D     |       | Overall         |       |
|------------------------------|--------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
|                              |                                |                      | Absolute Change |       | Absolute Change |       | Absolute Change |       | Absolute Change |       | Absolute Change |       |
| Oral<br>Temperature (deg. C) | VP Follow-up                   | n                    |                 |       |                 |       |                 |       |                 |       | 10              | 10    |
|                              |                                | Mean                 |                 |       |                 |       |                 |       |                 |       | 36.35           | -0.20 |
|                              |                                | SD                   |                 |       |                 |       |                 |       |                 |       | 0.255           | 0.638 |
|                              |                                | CV(%)                |                 |       |                 |       |                 |       |                 |       | 0.70            |       |
|                              |                                | Minimum              |                 |       |                 |       |                 |       |                 |       | 36.1            | -1.2  |
|                              |                                | Median               |                 |       |                 |       |                 |       |                 |       | 36.25           | -0.15 |
|                              |                                | Maximum              |                 |       |                 |       |                 |       |                 |       | 36.8            | 0.4   |
|                              | CP Treatment<br>Period 1 Day 1 | n                    |                 |       |                 |       |                 |       |                 |       | 16              | 16    |
|                              |                                | Mean                 |                 |       |                 |       |                 |       |                 |       | 36.48           | -0.05 |
|                              |                                | SD                   |                 |       |                 |       |                 |       |                 |       | 0.229           | 0.412 |
|                              |                                | CV(%)                |                 |       |                 |       |                 |       |                 |       | 0.63            |       |
|                              |                                | Minimum              |                 |       |                 |       |                 |       |                 |       | 36.1            | -0.7  |
|                              |                                | Median               |                 |       |                 |       |                 |       |                 |       | 36.45           | 0.05  |
|                              |                                | Maximum              |                 |       |                 |       |                 |       |                 |       | 36.8            | 0.8   |
|                              | CP Treatment<br>Period 1 Day 3 | n                    | 4               | 4     | 4               | 4     | 4               | 4     | 3               | 3     | 15              | 15    |
|                              |                                | Mean                 | 36.65           | 0.20  | 36.68           | 0.10  | 36.28           | -0.08 | 36.60           | -0.13 | 36.55           | 0.03  |
|                              |                                | SD                   | 0.238           | 0.294 | 0.450           | 0.392 | 0.206           | 0.465 | 0.100           | 0.643 | 0.309           | 0.419 |
|                              |                                | CV(%)                | 0.65            |       | 1.23            |       | 0.57            |       | 0.27            |       | 0.85            |       |
|                              |                                | Minimum              | 36.4            | -0.2  | 36.3            | -0.4  | 36.1            | -0.5  | 36.5            | -0.6  | 36.1            | -0.6  |
|                              |                                | Median               | 36.65           | 0.25  | 36.60           | 0.15  | 36.25           | -0.15 | 36.60           | -0.40 | 36.50           | 0.10  |
|                              |                                | Maximum              | 36.9            | 0.5   | 37.2            | 0.5   | 36.5            | 0.5   | 36.7            | 0.6   | 37.2            | 0.6   |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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Table 14.3.5.1 Vital Signs  
Safety Population (N=26)

| Vital Sign                   | Time Point                     | Summary<br>Statistic | Treatment A     |       | Treatment B     |       | Treatment C     |       | Treatment D     |       | Overall         |       |
|------------------------------|--------------------------------|----------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
|                              |                                |                      | Absolute Change |       | Absolute Change |       | Absolute Change |       | Absolute Change |       | Absolute Change |       |
| Oral<br>Temperature (deg. C) | CP Treatment<br>Period 2 Day 1 | n                    |                 |       |                 |       |                 |       |                 |       | 15              | 15    |
|                              |                                | Mean                 |                 |       |                 |       |                 |       |                 |       | 36.36           | -0.15 |
|                              |                                | SD                   |                 |       |                 |       |                 |       |                 |       | 0.408           | 0.542 |
|                              |                                | CV(%)                |                 |       |                 |       |                 |       |                 |       | 1.12            |       |
|                              |                                | Minimum              |                 |       |                 |       |                 |       |                 |       | 35.4            | -1.7  |
|                              |                                | Median               |                 |       |                 |       |                 |       |                 |       | 36.30           | -0.10 |
|                              |                                | Maximum              |                 |       |                 |       |                 |       |                 |       | 37.0            | 0.6   |
|                              | CP Treatment<br>Period 2 Day 3 | n                    | 4               | 4     | 4               | 4     | 3               | 3     | 3               | 3     | 14              | 14    |
|                              |                                | Mean                 | 36.55           | -0.23 | 36.53           | 0.20  | 36.50           | 0.03  | 36.50           | 0.07  | 36.52           | 0.01  |
|                              |                                | SD                   | 0.480           | 0.640 | 0.222           | 0.566 | 0.173           | 0.231 | 0.100           | 0.681 | 0.267           | 0.526 |
|                              |                                | CV(%)                | 1.31            |       | 0.61            |       | 0.47            |       | 0.27            |       | 0.73            |       |
|                              |                                | Minimum              | 36.1            | -1.0  | 36.2            | -0.6  | 36.3            | -0.1  | 36.4            | -0.7  | 36.1            | -1.0  |
|                              |                                | Median               | 36.45           | -0.10 | 36.60           | 0.40  | 36.60           | -0.10 | 36.50           | 0.30  | 36.60           | 0.25  |
|                              |                                | Maximum              | 37.2            | 0.3   | 36.7            | 0.6   | 36.6            | 0.3   | 36.6            | 0.6   | 37.2            | 0.6   |
|                              | CP Follow-up                   | n                    |                 |       |                 |       |                 |       |                 |       | 15              | 15    |
|                              |                                | Mean                 |                 |       |                 |       |                 |       |                 |       | 36.44           | -0.07 |
|                              |                                | SD                   |                 |       |                 |       |                 |       |                 |       | 0.320           | 0.459 |
|                              |                                | CV(%)                |                 |       |                 |       |                 |       |                 |       | 0.88            |       |
|                              |                                | Minimum              |                 |       |                 |       |                 |       |                 |       | 36.0            | -1.1  |
|                              |                                | Median               |                 |       |                 |       |                 |       |                 |       | 36.50           | -0.10 |
|                              |                                | Maximum              |                 |       |                 |       |                 |       |                 |       | 37.2            | 0.7   |

Data Source: Listing 16.2.9.1

Treatment Codes - A: Gaviscon Double Action Liquid (20 mL)

B: Gaviscon Advance Liquid (10 mL)

C: Placebo Liquid (20 mL)

D: Untreated

Kachirayila: dub-filer-01/ids\$/stats/0543/031/Final/Original/Reporting/Programs/TFL/T14\_03\_05\_01.sas

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## 16 APPENDICES

## 16.1 Study Information

This appendix contains the following sections:

- 16.1.1 Protocol and Protocol Amendments (350 pages)
- 16.1.2 Sample Case Report Form (Unique Pages Only) (145 pages)
- 16.1.3 List of IECs (133 pages)
- 16.1.4 List and Description of Investigators and Other Important Participants in the Study (13 pages)
- 16.1.5 Signature of Principal/Chief/Coordinating Investigator(s) (2 pages)
- 16.1.6 Listing of Subjects Receiving Study Drug(s)/Investigational Product from Specific Batches, where more than One Batch was Used (1 page)
- 16.1.7 Randomisation Scheme and Codes (Subject Identification and Treatment Assigned) (2 pages)
- 16.1.8 Audit Certificates (2 pages)
- 16.1.9 Documentation of Statistical Methods (819 pages)
- 16.1.10 Documentation of Inter-Laboratory Standardisation Methods and QA Procedures if Used (1 page)
- 16.1.11 Publications Based on the Study (1 page)
- 16.1.12 Important Publications Referenced in the Report (1 page)

## **16.1.1 Protocol and Protocol Amendments**

This appendix contains (350 pages):

- Final Protocol Version 1, dated 24 May 2012 (60 pages).
- Final Protocol Version 2, dated 01 Jun 2012 (58 pages).
- Non-substantial Amendment No. 1, dated 03 Aug 2012 (2 pages).
- Non-substantial Amendment No. 2, dated 25 Sep 2012 (4 pages).
- Substantial Amendment No. 1, dated 19 Oct 2012 (8 pages).
- Non-substantial Amendment No. 3, dated 14 Dec 2012 (3 pages).
- Non-substantial Amendment No. 4, dated 10 Jan 2013 (3 pages).
- Substantial Amendment No. 2, dated 01 Feb 2013 (7 pages).
- Final Protocol Version 3, dated 01 Feb 2013 (60 pages).
- Non-substantial Amendment No. 5, dated 27 Mar 2013 (6 pages).
- Final Protocol Version 4, dated 27 Mar 2013 (60 pages).
- Substantial Amendment No. 3, dated 17 Apr 2013 (3 pages).
- Final Protocol Version 5, dated 17 Apr 2013 (59 pages).
- Note to File: pH Data File Repairs by Sandhill, dated 09 Sep 2013 (8 pages).
- Note to File: Weak Acid Episodes post pH File Repair, dated 09 Sep 2013 (5 pages).
- Note to File: Timings, dated 12 Sep 2013 (3 pages).

## **16.1.2 Sample Case Report Form (Unique Pages Only)**

This appendix contains (145 pages):

- Screening.
- Validation Phase Treatment Period 1 Day 1.
- Validation Phase Treatment Period 1 Day 2.
- Validation Phase Treatment Period 1 Day 3.
- Validation Phase Follow-up.
- Clinical Phase Treatment Period 1 Day 1.
- Clinical Phase Treatment Period 1 Day 2.
- Clinical Phase Treatment Period 1 Day 3.
- Clinical Phase Treatment Period 2 Day 1.
- Clinical Phase Treatment Period 2 Day 2.
- Clinical Phase Treatment Period 2 Day 3.
- Clinical Phase Follow-up.
- Prior/Concomitant Medication.
- Adverse Events/Adverse Device Effect.
- Repeat Measurements.
- Unscheduled Assessments.
- Comments.
- Study Completion/Early Termination.
- Impedance Data Worksheet.

### 16.1.3 List of IECs

This appendix contains (133 pages):

- Name and address of ethics committee used in the study.
- Sample consent form Final Version 1.0, 08 Jun 2012 (2 pages).
- Written information Validation Phase Final Version 1.0, 08 Jun 2012 (14 pages).
- Written information Clinical Phase Final Version 1.0, 08 Jun 2012 (14 pages).
- Sample consent form Validation Phase Final Version 2.0, 09 Aug 2012 (2 pages).
- Sample consent form Clinical Phase Final Version 2.0, 09 Aug 2012 (2 pages).
- Written information Validation Phase Final Version 2.0, 09 Aug 2012 (14 pages).
- Written information Clinical Phase Final Version 2.0, 09 Aug 2012 (14 pages).
- Written information Validation Phase Final Version 3.0, 23 Oct 2012 (14 pages).
- Written information Clinical Phase Final Version 3.0, 23 Oct 2012 (14 pages).
- Written information Clinical Phase Final Version 4.0, 29 Nov 2012 (14 pages).
- Written information Clinical Phase Final Version 5.0, 07 Feb 2013 (14 pages).
- Written information Clinical Phase Final Version 6.0, 17 Apr 2013 (14 pages).

National Research Ethics Service Committee East Midlands - Northampton:

The Old Chapel  
Royal Standard Place  
Nottingham  
NG1 6FS

#### **16.1.4 List and Description of Investigators and Other Important Participants in the Study**

This appendix contains (13 pages):

- Table listing the names and affiliations of the individuals whose participation materially affected the conduct of the study, together with their role (1 page).
- Curricula Vitae of:

Principal Investigators (7 pages)

Statistician (1 page)

Report author (3 pages)

### Names and Affiliations of Important Participants in the Study

| Title and Name    | Qualifications            | Job Title  | Work Address  | Study Role  |
|-------------------|---------------------------|--|---|---|
| Dr Simon Singer   | BSc MB, ChB MRCS          | Senior Clinical Research Physician               | ICON Development Solutions,<br>Skelton House, Lloyd Street<br>North, Manchester, M15 6SH,<br>United Kingdom | Principal Investigator<br>(01 Mar 2012 until 13 Mar 2013) |
| Dr Peter Dewland  | BSc MA, MBBS, FFPM, DCPSA | Medical Director                                 |   | Principal Investigator<br>(13 Mar 2013 until 17 Apr 2013) |
| Dr Pui Man Leung  | MBChB, MRCP, MFPM         | Senior Director/<br>Chief Principal Investigator |   | Principal Investigator<br>(17 Apr 2013 until 21 May 2013) |
| Ms Sally Anderton | MSc                       | Manager, Biostatistics                           |   | Statistician  |
| Mr Leon Conradie  | BA Hons                   | Senior Medical Writer                            | ICON Clinical Research,<br>Decentralised, Eastleigh   | Report Author   |

## **16.1.5            Signature of Principal Investigator**

## Reckitt Benckiser

### PRINCIPAL INVESTIGATOR'S SIGNATURE

**Study Number:** GA1116

**Study Title:** A single-centre, randomised, four-way crossover study to investigate the measurement of the acid pocket and subsequent gastro-oesophageal reflux episodes using a novel pH/impedance catheter in subjects receiving Gaviscon<sup>®</sup> Double Action, Gaviscon<sup>®</sup> Advance and Placebo Liquid versus no treatment

**Phase of Development:** II

### Principal Investigator:

By my signature below, I hereby state that I have read this report and confirm that, to the best of my knowledge, it accurately describes the conduct and results of the study. I agree its conclusions and do not wish to make an additional statement regarding the safety of the product under test.

---

Dr P Dewland, BSc MA, MBBS,  
FFPM, DCPSA  
ICON Development Solutions  
Skelton House  
Lloyd Street North  
Manchester  
M15 6SH  
United Kingdom

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Date

Tel: 0161 232 2711

#### **16.1.6 Listing of Subjects Receiving Study Drug(s)/Investigational Product from Specific Batches, Where More Than One Batch was Used**

All subjects in this study received Gaviscon<sup>®</sup> Double Action Aniseed Liquid, Gaviscon<sup>®</sup> Advance Aniseed Liquid and Placebo Aniseed Liquid, each from one batch, so this appendix is not applicable.

## 16.1.7 Randomisation Scheme and Codes (Subject Identification and Treatment Assigned)

This appendix contains:

- Description of the randomisation method.

Randomisation was conducted using SAS 9.2 according to the following process:

- 1) Create a list of numbers at least as large as the number of subjects.
- 2) Create a blocking variable that indicates subjects in the same block with block size of 8.
- 3) Create a treatment sequence variable such that there is 1 of each treatment sequence in each block of 8.
- 4) Create a random number variable using a study unique random seed number.
- 5) Sort subjects within each block by the random variable.
- 6) Create a subject number variable in ascending order of the sorted data.

- Table of randomisation codes.

Subjects were randomised to one of the following 8 sequences:

| Treatment Sequence | Treatment |       |          |       |
|--------------------|-----------|-------|----------|-------|
|                    | Period 1  |       | Period 2 |       |
|                    | Day 2     | Day 3 | Day 2    | Day 3 |
| ACBD               | A         | C     | B        | D     |
| ACDB               | A         | C     | D        | B     |
| CABD               | C         | A     | B        | D     |
| CADB               | C         | A     | D        | B     |
| BDAC               | B         | D     | A        | C     |
| BDCA               | B         | D     | C        | A     |
| DBAC               | D         | B     | A        | C     |
| DBCA               | D         | B     | C        | A     |

Treatment A: Gaviscon® Double Action Aniseed Liquid (20 ml)

Treatment B: Gaviscon® Advance Aniseed Liquid (10 ml)

Treatment C: Placebo Aniseed Liquid (20 ml)

Treatment D: Untreated state

### **16.1.8            Audit Certificates**

This appendix contains the following audit certificates (2 pages):

- Reckitt Benckiser GCP audit certificate (1 page).
- Clinical study report (1 page).

## 16.1.9 Documentation of Statistical Methods

This appendix contains (819 pages):

- Final Version 1.3 SAP, dated 23 Aug 2013 (36 pages).
- Final Version 1.2 Table Shells, dated 25 Apr 2013 (23 pages).
- Final Version 1.2 Listing Shells, dated 25 Apr 2013 (36 pages).
- Appendix 16.1.9.1, SAS Output for the Statistical Analysis of the Time that Electrode is pH < 4 over 2 Hours (14 pages).
- Appendix 16.1.9.2, SAS Output for the Exploratory Analysis 1 of the Primary Endpoint, by Population (14 pages).
- Appendix 16.1.9.3, SAS Output for the Exploratory Analysis 2 of the Primary Endpoint, by Population (16 pages).
- Appendix 16.1.9.4, SAS Output for the Statistical Analysis of the Time that Electrode is pH < 4 Over 4 hours, by Population (16 pages).
- Appendix 16.1.9.5, SAS Output for the Statistical Analysis of the Time that Each Electrode is pH < 4 Over Various Times, by Population (384 pages).
- Appendix 16.1.9.6, SAS Output for the Statistical Analysis of the Mean Percentage of Time with pH < 4 at Electrodes 1, 2 and 3 during 4 x 1-hour Periods (49 pages).
- Appendix 16.1.9.7, SAS Output for the Statistical Analysis of the Mean Percentage of Time pH < 4 at Electrodes 1, 2 and 3 Over 4 Hours (14 pages).
- Appendix 16.1.9.8, SAS Output for the Statistical Analysis of the Mean Percentage of Time with pH < 4 at Electrodes 4 to 7 Over 4 x 1-hour Periods, by Population (48 pages).
- Appendix 16.1.9.9, SAS Output for the Statistical Analysis of Number of Liquid, Gas and Mixed Reflux Episodes Occurring in the 2- and 4-hour Periods (72 pages).
- Appendix 16.1.9.10, SAS Output for the Statistical Analysis of Number of Acid and Weakly Acidic Reflux Episodes Occurring in the 2- and 4-hour Periods, by Analysis of Variance (49 pages).

- Appendix 16.1.9.11, SAS Output for the Statistical Analysis of Number of Reflux Episodes Occurring Reaching 15 cm Above the LOS during the 2- and 4-hour Periods (24 pages).
- Appendix 16.1.9.12, SAS Output for the Statistical Analysis of Oesophageal Bolus Exposure to Reflux during the 2- and 4-hour Periods (24 pages).

#### **16.1.10 Documentation of Inter-laboratory Standardisation Methods and Quality Assurance Procedures if Used**

This appendix is not relevant for this study as each parameter was analysed at a single laboratory.

### **16.1.11 Publications Based on the Study**

There are no publications based on this study, so this appendix is not applicable.

### **16.1.12 Important Publications Referenced in the Report**

No publications referred to in the report are appended. All references are available on request.

## **16.2 Subject Data Listings**

This appendix contains the following sections:

- 16.2.1 Discontinued Subjects (7 pages)
- 16.2.2 Protocol Deviations (2 pages)
- 16.2.3 Subjects Excluded from Analysis (2 pages)
- 16.2.4 Demographic Data (36 pages)
- 16.2.5 Compliance Data (36 pages)
- 16.2.6 Individual pH and Reflux Response Data (267 pages)
- 16.2.7 Adverse Event Listings (11 pages)
- 16.2.8 Individual Laboratory Measurements by Subject (99 pages)
- 16.2.9 Additional Safety Measurements by Subject (15 pages)
- 16.2.10 General Comments (50 pages)

## **16.2.1 Discontinued Subjects**

## **16.2.2 Protocol Deviations**

### **16.2.3            Subjects Excluded from Analysis**

## **16.2.4            Demographic Data**

## **16.2.5 Compliance Data**

## **16.2.6 Individual pH and Reflux Response Data**

## **16.2.7            Adverse Event Listings**

## **16.2.8 Individual Laboratory Measurements by Subject**

## **16.2.9 Additional Safety Measurements by Subject**

## **16.2.10            General Comments**

## **16.3 Case Report Forms**

This appendix is not relevant because no subjects died, experienced SAEs, or withdrew due to AEs in this study.