**PWE-023**

**COULD Fecal IMMUNOCHEMICAL TESTS FOR HAEMOGLOBIN (FIT) CHANGE SURVEILLANCE OF PEOPLE WITH INTERMEDIATE RISK ADENOMAS?**

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**Introduction**

The NHS Bowel Cancer Screening Programme (BCSP) in England uses a biennial guaiac faecal occult blood test and identifies intermediate risk (IR) adenomas in approximately 5,000 people a year who are then offered colonoscopic surveillance. A non-colonoscopic approach to surveillance in this group may be an attractive alternative which could reduce demand on this expensive and limited resource.

**Methods**

In the ‘FIT for Follow-Up’ study we aim to determine the three-year programme sensitivity of annual FIT for detection of advanced adenomas (adenoma > 10 mm, or one with tubulovillous or villous histology, or with high grade dysplasia) or colorectal cancer (CRC), using surveillance colonoscopy as the reference standard. Eligible participants are people aged 60–71 years, who have recently been diagnosed with IR adenomas in the BCSP, and are awaiting their first surveillance colonoscopy at three years. They are invited to complete a FIT test (Eiken Chemicals, Inc.) annually in the three year interval between screening and surveillance colonoscopy. Those who test positive (> 200 ng haemoglobin/mL buffer; OC Sensor) are offered immediate colonoscopy; those who test negative are offered another FIT test a year later. In total, eligible participants could complete three FIT tests prior to their first surveillance colonoscopy. Our sample size is 5,200 participants completing a FIT test within a year of their screening colonoscopy. The study will also assess the acceptability and cost-effectiveness of annual FIT as an alternative to three-yearly surveillance colonoscopy.

**Results**

In the first 10 months of the study, 2,512 people (65.5% men) consented to take part and completed their first FIT test. The positivity rate in this group is 5.4% (6.1% in men and 3.3% in women) and only 7% of people testing positive declined to have their three-year surveillance examination brought forward. In FIT positive subjects who underwent colonoscopy, 24.7% had advanced adenomas and one participant had a cancer in the proximal colon.

Virtually all study participants were satisfied with their experience of completing their first FIT kit (95.8%), and would be happy to do so again (94.7%). The majority of participants (over 80%) believed that participating in the study had reduced their chances of having bowel cancer.

**Conclusion**

At this early stage in the study we can report that FIT is well accepted by participants and the yield at colonoscopy in those testing positive is high.

**Disclosure of Interest** None Declared.

**REFERENCE**


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**PWE-025**

**ASSESSING THE PERCENT OF DAYS LINACLOTIDE IMPROVED ABDOMINAL SYMPTOMS AND STOOL FREQUENCY IN PATIENTS WITH IRRITABLE BOWEL SYNDROME WITH CONSTIPATION (IBS-C): POOLED ANALYSIS OF 2 PHASE 3 TRIALS**

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**Introduction**

Linaclotide (LIN), a minimally absorbed guanylate cyclase C agonist (GCCCA), improved abdominal symptoms and bowel movement (BM) frequency in patients (pts) with IBS-C in 2 Phase 3 trials. This post-hoc analysis determined the % of days pts reported improvements in abdominal symptoms and BMs with LIN or placebo (PBO) treatment.

**Methods**

In 2 Phase 3 trials, pts with IBS-C (Rome II criteria) were randomised to LIN 290 µg po or PBO. Using pooled intent-to-treat (ITT) data from the 1st 12 wks of both trials, we determined...
(for pts with an average baseline score ≥3 out of 10 for each respective parameter) 1) % of days with ≥30% improvement in either abdominal pain, discomfort, bloating, cramping or fullness and 2) % of days with a spontaneous BM (SBM) or a complete SBM (CSBM).

**Results** The pooled ITT population included 797 PBO- and 805 LIN-treated pts. During the 2-wk Baseline Period, pts had an SBM on a mean of 24% of days and a CSBM on a mean of 3% of days. Pts in subgroups with an average baseline abdominal symptom score ≥3 experienced ≥30% improvement in the specific abdominal symptom on a significantly greater % of days for LIN vs PBO (Table). LIN-treated pts had ≥30% improvement in abdominal pain for 55% of days vs 41% for PBO (p < 0.0001). Results were similar for other abdominal symptoms, with LIN-treated pts achieving ≥30% improvement for ~50% of days during the Treatment Period; PBO pts met the threshold on 33–42% of days. LIN also significantly increased the % of days with SBM/CSBM vs PBO (Table).

### Abstract PWE-025 Table

<table>
<thead>
<tr>
<th>% of days with ≥30% improvement in abdominal symptoms</th>
<th>PBO</th>
<th>LIN</th>
<th>Δ</th>
<th>P-value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pain†</td>
<td>1602</td>
<td>41</td>
<td>55</td>
<td>13</td>
</tr>
<tr>
<td>Discomfort‡</td>
<td>1589</td>
<td>38</td>
<td>52</td>
<td>14</td>
</tr>
<tr>
<td>Bloating§</td>
<td>1574</td>
<td>33</td>
<td>48</td>
<td>15</td>
</tr>
<tr>
<td>Cramping§</td>
<td>1457</td>
<td>42</td>
<td>55</td>
<td>13</td>
</tr>
<tr>
<td>Fullness§</td>
<td>1583</td>
<td>33</td>
<td>49</td>
<td>15</td>
</tr>
<tr>
<td>% of days with SBM/CSBM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBM</td>
<td>1602</td>
<td>37</td>
<td>54</td>
<td>17</td>
</tr>
<tr>
<td>CSBM</td>
<td>1602</td>
<td>12</td>
<td>26</td>
<td>14</td>
</tr>
</tbody>
</table>

SBM, spontaneous bowel movement; CSBM, complete SBM *Wilcoxon Rank Sum test; †mean abdominal pain score ≥3 during the Baseline Period; ‡average baseline score ≥3 for that symptom.

**Conclusion** LIN improved abdominal symptoms (pain, discomfort, bloating, fullness and cramping) by ≥30% on ~50% of treatment days and significantly increased the % of days with SBM/CSBM. Thus, LIN relieved key IBS-C symptoms and increased the % of days with symptom improvement. These data provide estimates for results of treatment with LIN that clinicians and pts may anticipate. Supported by Ironwood Pharmaceuticals Inc and by Forest Laboratories, Inc. Editing assistance was provided by Complete Medical Communications, funded by Almirall.


### Introduction

There have been few long-term studies evaluating treatments for IBS. Linaclotide (LIN), a 14 amino acid, minimally absorbed, guanylate cyclase C agonist (GCCCA), was evaluated in 2 Phase 3 trials in patients (pts) with IBS-C, including a double-blind trial with an extended 26 wk Treatment Period, in which statistically significant improvements in abdominal pain and complete spontaneous bowel movement (CSBM) frequency were sustained for up to 26 wks. In a subsequent analysis of this study, we assessed the effects of 26 wks of LIN treatment on adequate relief and IBS severity and the relationship between long-term improvement in adequate relief with improvements in abdominal pain and CSBM frequency.

**Methods** Adult pts with IBS-C (Rome II criteria) were randomised to LIN 290 μg or placebo (PBO) qd po for 26 wks. Endpoints included daily pt rating of abdominal pain at its worst during the previous 24 h on an 11-point scale (0 = none, 10 = very severe) and CSBM frequency. Pts also rated adequate relief of IBS symptoms (yes/no) and IBS severity (5-point scale: 1 = none, 5 = very severe) weekly. An Adequate Relief Responder was defined as a pt with adequate relief of IBS symptoms for ≥13 of the 26 wks of the Treatment Period. Spearman correlations were performed for Adequate Relief Responders and individual symptom improvement.

**Results** The study included 401 LIN- and 403 PBO-treated pts. With LIN, 49% of pts were Adequate Relief Responders vs 25% of PBO pts (difference 24.1; p < 0.0001; No. needed to treat 4.2). For 26 Wk IBS severity: 48% of LIN pts rated IBS severity as “none/mild” vs 26% of PBO pts (Table). In all pts, Adequate Relief Responders had a 26-wk mean decrease in abdominal pain of 52% vs 18% for nonresponders and an increase from baseline in 26-wk mean CSBM frequency of 3.0/wk vs 0.8/wk for nonresponders. Improvements in abdominal pain (r = 0.48) and CSBM frequency (r = 0.53) correlated with adequate relief.

### Abstract PWE-026 Table

<table>
<thead>
<tr>
<th>Pretreatment Period</th>
<th>Treatment Period</th>
<th>IBS severity, % pts (Wk 26, LOCF)</th>
<th>LIN (n = 401)</th>
<th>PBO (n = 403)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None/Mild</td>
<td></td>
<td>2.1</td>
<td>48.1</td>
<td>25.8</td>
</tr>
<tr>
<td>Moderate</td>
<td></td>
<td>24.3</td>
<td>31.7</td>
<td>38.7</td>
</tr>
<tr>
<td>Severe/very severe</td>
<td></td>
<td>73.6</td>
<td>20.2</td>
<td>35.5</td>
</tr>
</tbody>
</table>

ITT population; LOCF, last observation carried forward.

**Conclusion** Significantly more LIN pts vs PBO pts reported adequate relief of IBS symptoms and improvement of IBS severity during 26 wks of treatment. Gains in the % of pts reporting adequate relief correlated strongly with improvements in abdominal pain and CSBM frequency.

Supported by Ironwood Pharmaceuticals Inc and by Forest Laboratories, Inc. Editing assistance was provided by Complete Medical Communications, funded by Almirall.