

# Enterosgel® in the treatment of functional abdominal pain in children and young people

<b>Submission date</b>	<b>Recruitment status</b>	<input checked="" type="checkbox"/> Prospectively registered
07/04/2025	Not yet recruiting	<input checked="" type="checkbox"/> Protocol
<b>Registration date</b>	<b>Overall study status</b>	<input type="checkbox"/> Statistical analysis plan
21/05/2025	Ongoing	<input type="checkbox"/> Results
<b>Last Edited</b>	<b>Condition category</b>	<input type="checkbox"/> Individual participant data
23/01/2026	Digestive System	<input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Functional Abdominal Pain has become more common in children and young people. These are defined as "Functional Abdominal Pain Disorders" and include Functional Dyspepsia, Irritable Bowel Syndrome, Abdominal Migraine and Functional Abdominal Pain Not Otherwise Specified. There is no cure for these conditions and an important part of management aims to reduce symptoms and improve quality of life.

Enterosgel® is an intestinal adsorbent taken by mouth that binds bacterial toxins, and harmful substances in the gut. In the UK it is used for the treatment of acute diarrhoea and irritable bowel syndrome with diarrhoea, in people of all ages. It has been shown to reduce diarrhoea and improve abdominal pain and other gut symptoms. Enterosgel® is classified as a medical device class II (not as a medicine) because it is not adsorbed by the body and is excreted in the stools. Enterosgel® is available over the counter or on prescription as a gel in a tube or sachet and has no taste.

A recent study suggests that Enterosgel® can improve abdominal pain and diarrhoea in patients with irritable bowel syndrome. However, a study is needed to investigate the potential benefits of Enterosgel® in the treatment of Functional Abdominal Pain Disorders in children.

### Who can participate?

This study aims to recruit 154 children and young people (age 3-18yrs) to see whether or not Enterosgel® may help with Functional Abdominal Pain.

### What does the study involve?

The goal is to investigate whether children can take Enterosgel® and measure if they experience a reduction in their pain symptoms and improvement in their quality of life. The study lasts for 10 weeks and has a baseline phase to collect data on symptoms (2weeks), a double-blind phase where children will take placebo or Enterosgel® (4 weeks), followed by an open label phase where all children will take Enterosgel® for 4 weeks.

### What are the possible benefits and risks of participating?

The study may benefit children and young people in helping to relieve their abdominal pain and improve their quality of life. The possible risks are very low, as Enterosgel® has clinical evidence of safety and efficacy of use in this age group and for a similar condition.

Where is the study run from?  
Alder Hey Children's NHS Foundation Trust and Bristol Royal Hospital for Children (UK).

When is the study starting and how long is it expected to run for?  
April 2025 to March 2027

Who is funding the study?  
Bioline Products s.r.o.

Who is the main contact?  
Dr Carol Howell, Trial manager, [research@enteromed.co.uk](mailto:research@enteromed.co.uk)

## Contact information

**Type(s)**  
Public, Scientific

**Contact name**  
Dr Carol Howell

**ORCID ID**  
<https://orcid.org/0000-0001-5713-6177>

**Contact details**  
Enteromed Ltd, 85 Great Portland St, First Floor  
London  
United Kingdom  
W1W 7LT  
+447596887046  
[research@enteromed.co.uk](mailto:research@enteromed.co.uk)

**Type(s)**  
Principal investigator

**Contact name**  
Prof Stephen Allen

**ORCID ID**  
<https://orcid.org/0000-0001-6675-249X>

**Contact details**  
Department of Clinical Sciences, Liverpool School of Tropical Medicine  
Liverpool  
United Kingdom  
L3 5QA  
+44 7584 200611  
[stephen.allen@lstmed.ac.uk](mailto:stephen.allen@lstmed.ac.uk)

## Additional identifiers

**Clinical Trials Information System (CTIS)**

Nil known

**Integrated Research Application System (IRAS)**

356725

**ClinicalTrials.gov (NCT)**

Nil known

**Protocol serial number**

ENT08UK, CPMS 68074

## Study information

**Scientific Title**

Randomised, placebo-controlled study to assess the safety and efficacy of ENterosgel® in the Treatment Of functional abdominal Pain In Children and young people

**Acronym**

ENTOPIC

**Study objectives**

Enterosgel reduces abdominal pain more than placebo in children and young people with Functional abdominal pain disorders.

**Ethics approval required**

Ethics approval required

**Ethics approval(s)**

approved 01/07/2025, Health and Social Care Research Ethics Committee A (HSC REC A) (Lissue Industrial Estate West, 5 Rathdown Walk, Lisburn, Co. Antrim, BT28 2RF, United Kingdom; +44 (028) 95 361400; reca@hscni.net), ref: 25/NI/0085

**Study design**

Multicentre interventional double-blinded randomized controlled trial

**Primary study design**

Interventional

**Study type(s)**

Efficacy, Quality of life, Safety, Treatment

**Health condition(s) or problem(s) studied**

Treatment of abdominal pain in children and young people with Functional abdominal pain disorders.

**Interventions**

The intervention is Enterosgel® an intestinal adsorbent classified as a medical device class IIA since 2011 in Europe. Currently indicated for symptomatic treatment of acute diarrhoea and irritable bowel syndrome with diarrhoea (IBS-D), available and an OTC and on prescription in the UK.

Enterosgel® is a tasteless gel that is mixed in water and taken orally. The dose is age dependent as per the Instructions for use.

During the double-blind phase (4 weeks) patients will be randomised 1:1 to receive Enterosgel® or placebo, pre-mixed in water and dispensed in tubes ready to drink. During the open label phase Enterosgel® will be dispensed in tubes as a gel, ready to measure and then mix in water. This is followed by the 4 week open label phase for all participants allocated Enterosgel intervention. At the end of this phase participants return to standard care.

Randomisation will be using a computer-based randomisation tool (Red Pill) within the eCRF (Sealed Envelope Ltd, UK), accessible once the eligibility criteria are confirmed.

### **Intervention Type**

Device

### **Phase**

Phase II/III

### **Drug/device/biological/vaccine name(s)**

Enterosgel®

### **Primary outcome(s)**

Comparison of the change in mean daily Wong-Baker FACES Pain Rating Scale (limited to abdominal pain) during weeks 1-2 (initial observation phase) and the double-blind phase (week 3-6) recorded in the daily diary in the Enterosgel® versus the placebo arm

### **Key secondary outcome(s)**

Comparison of the Enterosgel® versus the placebo arm during the double-blind treatment phase and open-label treatment phase:

1. mean daily Wong-Baker FACES Pain Rating Scale recorded in the daily diary
2. The proportion of days with any abdominal pain
3. The proportion of days missed nursery/school
4. Change in the Stomach Pain and Hurt total score (comprised of 6 items) of the PedsQL 3.0 GIS module (parent/carer proxy-report for 3-4-year-olds and child self-report from 5-18 years; by parent/carer proxy-report for 3-18-year-olds)
5. Change in other individual components of the PedsQL 3.0 GIS module (parent/carer proxy-report for 3-4-year-olds and child self-report from 5-18 years; by parent/carer proxy-report for 3-18 years olds): stomach discomfort when eating (5 items), food and drink limits (6), trouble swallowing (3), heartburn and reflux (4), nausea and vomiting (4), gas and bloating (7), constipation (14), blood in bowel movement (2), diarrhoea (7), worry about bowel movements (5), medicines (4), communication (5).
6. Change in total PedsQL 3.0 GIS module score (parent/carer proxy-report for 3-4-year-olds and child self-report from 5-18 years; by parent/carer proxy-report for 3-18 years olds)
7. Change in health-related quality of life KIDSCREEN-27 questionnaire for children 8-18 years

(child report and parent/carer proxy-report)

8. Acceptability of the study interventions (daily diary)
9. Adverse Events

**Completion date**

01/03/2027

## Eligibility

**Key inclusion criteria**

1. Written informed consent
2. Children aged 3-18 years (parent/carer available to provide proxy-report and/or parent/carer report) with a clinical diagnosis of FAPD (Group H2) according to the Rome IV criteria
3. Normal faecal calprotectin at FAPD diagnosis ( $\leq 250$  ug/g stool age 3-8 yrs,  $\leq 100$  ug/g stool age 9-18 yrs)
4. Considered suitable to take part in the study by the consenting investigator
5. Diary completed on at least 11 days ( $\geq 75\%$ ) during the observational period
6. Able to complete questionnaires in English
7. Able to complete e-diary and questionnaires on-line

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Mixed

**Lower age limit**

3 years

**Upper age limit**

18 years

**Sex**

All

**Total final enrolment**

0

**Key exclusion criteria**

1. Previously diagnosed coeliac disease, inflammatory bowel disease or other significant gastro-intestinal disorder
2. Average number of stools per week  $< 3$
3. Previous use of Enterosgel®
4. Use of antidepressant agents, unless used at a stable dose for at least 6 weeks
5. Use of any probiotic supplements, other intestinal adsorbents, slow-release medications or strong opioids
6. Participation in any research where treatment is provided in the last three months

7. Pregnancy or not willing to use contraception for the duration of the study in females of childbearing potential defined as any female over 11 years of age and who has not undergone surgical sterilization (hysterectomy or bilateral oophorectomy) or is not postmenopausal

#### **Date of first enrolment**

23/02/2026

#### **Date of final enrolment**

01/12/2026

## **Locations**

#### **Countries of recruitment**

United Kingdom

England

#### **Study participating centre**

**Alder Hey Children's NHS Foundation Trust**

Eaton Road

Liverpool,

England

L12 2AP

#### **Study participating centre**

**Bristol Royal Hospital for Children**

Upper Maudlin Street

Bristol

England

BS2 8BJ

## **Sponsor information**

#### **Organisation**

Enteromed Ltd

## **Funder(s)**

#### **Funder type**

Industry

**Funder Name**  
Bioline Products s.r.o.

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be available on request from Dr Carol Howell email; research@enteromed.co.uk

### IPD sharing plan summary

Available on request

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#"><u>Participant information sheet</u></a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#"><u>Protocol file</u></a>	version 1.0	07/05/2025	19/05/2025	No	No
<a href="#"><u>Study website</u></a>	Study website	11/11/2025	11/11/2025	No	Yes