

# A supported online self-management for symptoms of fatigue, pain and urgency /incontinence in people with inflammatory bowel disease: the IBD-BOOST trial

<b>Submission date</b> 02/09/2019	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 09/09/2019	<b>Overall study status</b> Completed	<input checked="" type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 18/06/2025	<b>Condition category</b> Digestive System	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Inflammatory Bowel Disease (IBD) affects 300,000 people in the UK , causing unpredictable bouts of gut inflammation, with acute illness, diarrhoea, and pain. In remission, many people with IBD live with fatigue, chronic abdominal pain, and bowel urgency/incontinence. There is no current cure for IBD, which usually starts in childhood or as a young adult. Most previous IBD research has focused on controlling inflammation. However, many people report continuing IBD-related fatigue (41%), abdominal pain (62%) and difficulty with continence (up to 75%) even when IBD is in remission. These symptoms limit peoples' quality of life and ability to work and socialise. Patients feel that these symptoms are not taken seriously by health professionals and report that little help is given. However, the James Lind Alliance IBD research priority-setting consensus put fatigue, pain, and continence in the top 10 issues that IBD patients and clinicians want to be addressed by research.

The current application is stage four of IBD-BOOST, a National Institute of Health Research (NIHR) Programme Grant for Applied Research (PGfAR) funded programme. The overall aim of the Programme Grant is to improve the quality of life of people with IBD by reducing the burden of IBD-related fatigue, abdominal pain, and urgency/incontinence. The current application is for the final part of the project, a 2-arm randomised controlled trial (RCT) of a facilitator supported online intervention for people who have expressed a desire for intervention for fatigue, pain and /or urgency/incontinence, compared to care as usual.

### Who can participate?

Patients 18 years old or over with a diagnosis of IBD, living in England, Scotland or Wales, and have participated in Stage 2 of the programme (IBD-BOOST) survey

### What does the study involve?

This trial is testing whether an online self-management programme can improve symptoms and quality of life. Participants who consent to take part will complete an online questionnaire. An

automated computer system will then put participants into one of two groups by chance (randomly).

One group will receive a password to access an online self-management programme. It has 11 sessions, depending on the participant's symptoms and can be completed over a few weeks or up to 6 months. The sessions can be done at any time, with some exercises in between, and should take a total of 1-2 hours per week. Participants will also have a professional facilitator who will support the participant with an initial telephone call and then via in-website messaging, during the first 3 months, if they wish.

The other group will not have access to the online programme at first, but will receive care as usual. Twelve months after taking part, this group will have access to the online programme, but without the facilitator support.

We will ask both groups to complete the questionnaires again at 6 and 12 months after signing up and they will receive a £5 gift voucher each time.

What are the possible benefits and risks of participating?

**Benefits:** For participants who haven't taken part in the IBD-BOOST Optimise study (Stage 3 of the IBD-BOOST programme), the faecal calprotectin stool sample results combined with the participant's checklist results may raise medical issues that their healthcare team can potentially help to manage. Participants could potentially then benefit from symptom (fatigue, pain and urgency/incontinence) relief. PPI indicated that people want to be reassured that "nothing has been missed" when they experience these symptoms. Participants who are randomised to the online self-management programme of the study, may find the programme beneficial as the aim is to address symptoms such as faecal urgency/incontinence, pain and fatigue utilising cognitive behavioural therapy components. Participants who have been randomised to the control arm (care as usual) group, will be offered access to the online intervention (but no facilitator support) at 12 months so that they have the potential benefit of the online self-management platform in future.

**Risks:** This is a low-risk study, although there is potential for participants to become distressed when thinking about their symptoms. The online intervention site will include a link/website address to CCUK who provide support via their helpline, and contact details are included in the Participant Information Leaflet. The outcome measures include questions on anxiety and depression. At the end of the questionnaire, there are helplines listed that can offer support and there is a protocol risk assessment. We recognise the potential burden on participants of these multiple outcome measures (Just under 150 questions). However, as we are assessing multiple symptoms and are keen to include potentially explanatory variables, we feel that these are necessary. We will send an unconditional £5 incentive to participants for both the 6 and 12 months follow-up. For participants who did not take part in the previous stage of the study (Stage 3 of the IBD-BOOST programme, the IBD-BOOST Optimise study), they may feel burdensome to send a faecal/stool sample for the calprotectin test, however this will be balanced by the benefit of knowledge regarding whether inflammation has been detected in a participant's sample, indicating active disease (flare). Patients with IBD are routinely asked to complete this test at many of their routine NHS clinic visits so this will not be a novel test.

Where is the study run from?

Trial study centres:

1. London North West University Hospital NHS Trust, UK
2. Nottingham University Hospitals NHS Trust, UK
3. St Helens and Knowsley Teaching Hospitals NHS Trust

Trial run from:

1. King's College London, UK
2. London North West University Healthcare NHS Trust, UK
3. Barts and the London Pragmatic Clinical Trials Unit, UK

When is the study starting and how long is it expected to run for?  
December 2019 to March 2023

Who is funding the study?  
National Institute of Health Research (NIHR) Programme Grant for Applied Research (PGfAR), UK

Who is the main contact?  
1. Prof. Christine Norton  
christine.norton@kcl.ac.uk  
2. Miss Laura Miller  
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**Study website**  
<http://www.ibd-boost.ac.uk>

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Prof Christine Norton

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**Type(s)**  
Public

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## **Additional identifiers**

### **EudraCT/CTIS number**

Nil known

### **IRAS number**

258725

### **ClinicalTrials.gov number**

Nil known

### **Secondary identifying numbers**

IRAS 258725, RP-PG-0216-20001

## **Study information**

### **Scientific Title**

A Randomised Controlled Trial of supported online self-management for symptoms of fatigue, pain and urgency/incontinence in people with inflammatory bowel disease: the IBD-BOOST trial.

### **Acronym**

IBD-BOOST

### **Study objectives**

Current study hypothesis as of 19/07/2022:

A facilitator-supported, online, tailored self-management programme for fatigue, pain and faecal urgency/ incontinence in people with IBD will result in better IBD-related quality of life and global rating of symptom relief compared to care as usual at six months after randomisation.

Previous study hypothesis:

A facilitator-supported, online, tailored self-management programme for fatigue, pain and faecal urgency/ incontinence in people with IBD will result in better quality of life compared to care as usual at six months after randomisation.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Approved 12/07/2019, London - Surrey Research Ethics Committee (The Old Chapel, Royal Standard Place, Nottingham, NG1 6FS, UK; +44 (0)207 104 8310; NRESCommittee.SECOast-Surrey@nhs.net), ref: 19/LO/0750

### **Study design**

A pragmatic multi-centre two-arm parallel-group superiority randomized controlled trial with an internal pilot

**Primary study design**

Interventional

**Secondary study design**

Randomised controlled trial

**Study setting(s)**

Hospital

**Study type(s)**

Treatment

**Participant information sheet**

<https://www.kcl.ac.uk/nmpc/assets/boost-trial-pil.pdf>

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

Inflammatory Bowel Disease (IBD)

**Interventions**

Current intervention as of 19/07/2022:

A pragmatic multi-centre two-arm, parallel group superiority RCT, with an internal pilot, of facilitator-supported online self-management versus care as usual to manage symptoms of fatigue, pain, and faecal urgency/incontinence in IBD. One baseline assessment and two assessments at 6 and 12 months after randomisation. Primary outcome: IBD-related quality of life and global rating of symptom relief at 6 months.

This trial will compare a web-based programme, known as 'BOOST', for self-management of pain, fatigue and urgency/incontinence symptoms of IBD ('BOOST' is based on the principles of cognitive behavioural therapy with telephone and online messaging support) to standard care.

The content has been developed by health psychologists to be interactive and tailored to patients' needs. BOOST includes 11 online sessions which can be viewed on computer, smart phone or tablet.). Sessions 1-6, are core transdiagnostic sessions to be completed by participants experiencing fatigue, pain and faecal urgency/incontinence. Based on a Cognitive Behavioural model of IBD symptoms, the core sessions cover topics around: understanding IBD symptoms, balancing activity and exercise, sleep hygiene, changing negative thoughts, coping with stress and emotions, and making the most of social support. Sessions 7-11 are symptom-specific sessions to be completed by participants experiencing or with a specific interest in fatigue, pain and faecal urgency/incontinence, respectively. The symptom specific sessions provide participants with more in-depth psychoeducation on the interaction between medical and psychosocial factors contributing to the severity and impact of IBD symptoms, together with practical tips and exercises on how to better manage them.

Participants will be able to log into BOOST via a computer, tablet or smartphone, according to their preference, and complete approximately one session per week. Each session takes 30-60 minutes to complete. Participants will be able to complete the sessions at a time and place that is convenient to them and to pace themselves in a way that suits them and their lifestyle. In between sessions, participants will be asked to complete tasks which will help them to practice the skills acquired during the intervention sessions. Throughout the intervention, the participants will be supported via online messages by an assigned healthcare professional, who

will act as their facilitator. The facilitator will have access to information on how participants are using the intervention (sessions and task completed) and will monitor and help to promote participants' engagement with the intervention, together with supporting participants work towards achievement of their intervention goals.

Participants randomized to the intervention will have access to care as usual plus the online tailored self-management programme for six months, plus one individual telephone or Skype support session (for up to 30 minutes, training and a paper copy of the content will be provided for the facilitator), plus access to online messaging with their facilitator via the BOOST platform for the first three months after recruitment.

Participants randomised to the control have access to all usual care.

Participants in the intervention arm have access to the online self-management programme for six months, plus access to online messaging with their facilitator via the website platform for the first 3 months after recruitment.

Both the intervention and control group are followed up at 6 and 12 months,

Participants who consent, are eligible and return the baseline questionnaire will be randomised by the central research team using an online randomisation system developed for the study by the PCTU. The central team will then inform the participant which group they are in. Stratified central web-based randomisation to 2 groups. Stratified by diagnosis (Crohn's disease vs. other IBD) and whether or not participated in WP2c study (OPTIMISE: medical symptom optimisation). Allocation will be concealed until consent and baseline measurements completed

Previous intervention:

A pragmatic multi-centre two-arm, parallel group superiority RCT, with an internal pilot, of facilitator-supported online self-management versus care as usual to manage symptoms of fatigue, pain, and faecal urgency/incontinence in IBD. One baseline assessment and two assessments at 6 and 12 months after randomisation. Primary outcome: IBD quality of life at 6 months.

This trial will compare a web-based programme, known as 'BOOST', for self-management of pain, fatigue and urgency/incontinence symptoms of IBD ('BOOST' is based on the principles of cognitive behavioural therapy with telephone and online messaging support) to standard care.

The content has been developed by health psychologists to be interactive and tailored to patients' needs. BOOST includes 11 online sessions which can be viewed on computer, smart phone or tablet.). Sessions 1-7, are core transdiagnostic sessions to be completed by participants experiencing fatigue, pain and faecal urgency/incontinence. Based on a Cognitive Behavioural model of IBD symptoms, the core sessions cover topics around: understanding IBD symptoms, balancing activity and exercise, sleep hygiene, changing negative thoughts, coping with stress and emotions, and making the most of social support. Sessions 8-11 are symptom-specific sessions to be completed by participants experiencing or with a specific interest in fatigue, pain and faecal urgency/incontinence, respectively. The symptom specific sessions provide participants with more in-depth psychoeducation on the interaction between medical and psychosocial factors contributing to the severity and impact of IBD symptoms, together with practical tips and exercises on how to better manage them.

Participants will be able to log into BOOST via a computer, tablet or smartphone, according to their preference, and complete approximately one session per week. Each session takes 30-60

minutes to complete. Participants will be able to complete the sessions at a time and place that is convenient to them and to pace themselves in a way that suits them and their lifestyle. In between sessions, participants will be asked to complete tasks which will help them to practice the skills acquired during the intervention sessions. Throughout the intervention, the participants will be supported via online messages by an assigned healthcare professional, who will act as their facilitator. The facilitator will have access to information on how participants are using the intervention (sessions and task completed) and will monitor and help to promote participants' engagement with the intervention, together with supporting participants work towards achievement of their intervention goals.

Participants randomized to the intervention will have access to care as usual plus the online tailored self-management programme for six months, plus one individual telephone or Skype support session (for up to 30 minutes, training and a paper copy of the content will be provided for the facilitator), plus access to online messaging with their facilitator via the BOOST platform for the first three months after recruitment.

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Participants who consent, are eligible and return the baseline questionnaire will be randomised by the central research team using an online randomisation system developed for the study by the PCTU. The central team will then inform the participant which group they are in. Stratified central web-based randomisation to 2 groups. Stratified by:

- Diagnosis (Crohn's disease vs. other IBD)
  - Whether or not participated in WP2c study (OPTIMISE: medical symptom optimisation)
- Allocation will be concealed until consent and baseline measurements completed

## **Intervention Type**

Behavioural

## **Primary outcome measure**

UK Inflammatory Bowel Disease Questionnaire (UK-IBDQ) and global rating of symptom relief at six months after randomisation.

## **Secondary outcome measures**

1. UK Inflammatory Bowel Disease Questionnaire (UK-IBDQ) at 12 months
2. Rating of satisfaction with results of BOOST programme (simple 0-100 visual analogue scale) at 6 and 12 months only
3. Global rating of symptom relief at 12 months
4. Numerical (0-10) pain rating scale at baseline, 6 and 12 months after randomisation
5. Vaizey (faecal) incontinence score, reflecting patients' perceptions of severity at baseline, 6 and 12 months after randomisation
6. IBD-Fatigue score at baseline, 6 and 12 months after randomisation
7. IBD-Control score; 8-item self-reported score to measure disease control from the patient's

perspective at baseline, 6 and 12 months after randomisation

8. EQ-5D-5L general health-related quality of life at baseline and 6 and 12 months after randomisation

**Overall study start date**

01/11/2017

**Completion date**

24/03/2023

## **Eligibility**

**Key inclusion criteria**

1. Diagnosis of IBD (self-reported as having been medically diagnosed with IBD including patients with an ileo-anal pouch or stoma)
2. 18 years old or over
3. Living in England, Scotland or Wales
4. Have participated in Stage 2 of the programme (IBD-BOOST survey) and have self-scored one or more symptoms of fatigue, pain or urgency/incontinence as having an impact on their life of 5 or more on a 0-10 scale when completing Stage 2 (IBD-BOOST survey) or Stage 3 (medical symptom optimisation) (whichever is the more recent)
5. No "red flags" – see below
6. Access to the online intervention via a computer or mobile device

**Screening for 'red flags':**

Following consent, we will screen patients for 'red flags' (such as new bleeding, rapid weight loss or vomiting that has not been previously reported to a health care practitioner) self-reported on a screening checklist. Note: The "red flags" criteria have been developed in consultation with 5 consultant gastroenterologists who are either co-applicants or part of our wider advisory group: they have each confirmed that they feel that participants who meet the criteria will be safe to enter an online self-management programme. If ineligible because of a red flag, a participant may be re-assessed if they contact the research team and report the information they have provided has changed such as the symptom has been adequately investigated or managed, in which case the participant can be included.

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

18 Years

**Sex**

Both

**Target number of participants**

At least 740 participants

**Total final enrolment**

780

**Key exclusion criteria**

1. One or more “red flags” identified on pre-randomisation screening, (such as new bleeding, rapid weight loss or vomiting that has not been previously reported to a health care practitioner) self-reported on a screening checklist. Note: The “red flags” criteria have been developed in consultation with 5 consultant gastroenterologists who are either co-applicants or part of our wider advisory group: they have each confirmed that they feel that participants who meet the criteria will be safe to enter an online self-management programme. If ineligible because of a red flag, a participant may be re-assessed if they contact the research team and report the information they have provided has changed such as the symptom has been adequately investigated or managed, in which case the participant can be included.
2. Inability to give informed consent (for example, due to reduced mental capacity)
3. Insufficient command of English to understand study documents and procedures

**Date of first enrolment**

18/12/2019

**Date of final enrolment**

31/07/2022

**Locations****Countries of recruitment**

England

United Kingdom

**Study participating centre**

**London North West University Healthcare NHS Trust**

Northwick Park Hospital

Watford Road

Harrow

Middlesex

United Kingdom

HA1 3UJ

**Study participating centre**

**Nottingham University Hospitals NHS Trust**

Queen's Medical Centre

Derby Road

Nottingham

United Kingdom

NG7 2UH

**Study participating centre**

**St Helens and Knowsley Teaching Hospitals NHS Trust**

Whiston Hospital

Warrington Road

Prescot

United Kingdom

L35 5DR

## **Sponsor information**

**Organisation**

London North West University Healthcare NHS Trust

**Sponsor details**

Research and Development

Northwick Park Hospital

Watford Road

Harrow

England

United Kingdom

HA1 3UJ

+44 (0)20 8869 5829

LNWH-tr.Research@nhs.net

**Sponsor type**

Hospital/treatment centre

**Website**

<https://www.lnwh.nhs.uk/research/>

**ROR**

<https://ror.org/04cntmc13>

## **Funder(s)**

**Funder type**

Government

**Funder Name**

Programme Grants for Applied Research

**Alternative Name(s)**

NIHR Programme Grants for Applied Research, PGfAR

**Funding Body Type**  
Government organisation

**Funding Body Subtype**  
National government

**Location**  
United Kingdom

## Results and Publications

**Publication and dissemination plan**

We will submit results for publication in multidisciplinary academic journals (such as Inflammatory Bowel Diseases and Journal of Crohn’s & Colitis) to disseminate to professional audiences. We will submit to key IBD conferences, including the UK British Society of Gastroenterology, the European Crohn’s & Colitis Organisation and the USA Digestive Diseases Week.

**Intention to publish date**  
31/12/2024

**Individual participant data (IPD) sharing plan**

The datasets generated during and/or analysed during the current study are not expected to be made available due to risk of patient identification.

**IPD sharing plan summary**  
Not expected to be made available

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol article</a>	Describing intervention development	03/08/2021	03/09/2021	Yes	No
<a href="#">Other publications</a>		18/05/2022	20/05/2022	Yes	No
<a href="#">Participant information sheet</a>	version 5.0	17/06/2021	19/07/2022	No	Yes
<a href="#">HRA research summary</a>			28/06/2023	No	No
<a href="#">Statistical Analysis Plan</a>	version 1.0	18/08/2023	21/08/2023	No	No
<a href="#">Other files</a>	Health economics analysis plan (HEAP) version 1.0	01/10/2023	02/10/2023	No	No
<a href="#">Statistical Analysis Plan</a>	version 2.0	21/03/2024	26/03/2024	No	No
<a href="#">Other</a>	risk assessment protocol	12/07	16/07		

<a href="#">publications</a>		/2024	/2024	Yes	No
<a href="#">Other</a>	cross-sectional analysis of baseline data	06/03	10/03	Yes	No
<a href="#">publications</a>		/2025	/2025		
<a href="#">Other</a>	What is the impact on recruitment of a shortened compared with a standard-length participant information leaflet? PROMETHEUS in IBD-	18/06	18/06	Yes	No
<a href="#">publications</a>	BOOST: study within a trial, a decentralised UK randomised controlled trial	/2025	/2025		