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ADAPT: Acceptability of online dietary assessment of irritable bowel syndrome (IBS) patients in clinical practice

Submission date
07/12/2021

Recruitment status
No longer recruiting

Registration date
06/01/2022

Overall study status
Completed

Last Edited
04/08/2025

Condition category
Digestive System

[X] Prospectively registered
[X] Protocol
[_] Statistical analysis plan
[_] Results
[_] Individual participant data
[_] Record updated in last year

Plain English summary of protocol

Background and study aims
Detailed dietary assessment during routine clinical dietetic care to provide personalised advice irritable bowel syndrome (IBS) symptom improvement is challenging. Clinical practice barriers include competing demands, lack of clinical time, dietary and disease complexities, and the rising incidence and thus clinical pressure. This research project aims to evaluate the feasibility, acceptability and effectiveness of using a web-based 24-hr dietary recall system (Intake24) for personalised dietary advice versus usual dietetic clinical care of IBS patients.

Who can participate?
Newly admitted patients (male and female) older than 18 years of age, who meet the ROMEIV criteria for IBS diagnosis according to the National Institute of Health and Care Excellence (NICE) guidelines will be invited to participate.

What does the study involve?
Patients will be randomly allocated (1:1) to dietetic practice using web-based 24-hr dietary recalls (Intake24) for personalised dietary advice or routine dietetic care. Participants will be followed up for 6 months and will be invited to complete online questionnaires on outcome measures including IBS symptom severity and relief, quality of life, satisfaction and acceptability of dietary assessment method, and quality of dietetic care.

What are the possible benefits and risks of taking part?
For participants in the Intake24 arm, they will receive tailored dietary feedback from their Intake24 dietary assessment. We do not foresee any adverse events over and above those associated with everyday life and routine health care that could be attributable to the intervention. During the study, participants will be asked to complete the 24hr Dietary recall and study questionnaires multiple times, this could be seen as an inconvenience/burden to the participants.

Where is the study run from?
Cambridge Epidemiology Trials Unit based at the MRC Epidemiology Unit, University of Cambridge (UK)

When is the study starting and how long is it expected to run for?
December 2021 to July 2024

Who is funding the study?
NIHR Cambridge Biomedical Research Centre (UK)

Who is the main contact?
Dr Linda Oude Griep - Chief Investigator
linda.oudegriep@mrc-epid.cam.ac.uk

Contact information

Type(s)
Scientific, Principal investigator

Contact name
Dr Linda Griep

ORCID ID
https://orcid.org/0000-0001-7697-7473

Contact details
MRC Epidemiology Unit
University of Cambridge,
Institute of Metabolic Science, Box 285,
Addenbrooke's Hospital
Hills Road
Cambridge
United Kingdom
CB2 0QQ
+44 (0)1223 330315
linda.oudegriep@mrc-epid.cam.ac.uk

Additional identifiers

Integrated Research Application System (IRAS)
305797

Central Portfolio Management System (CPMS)
51905

Study information

Scientific Title

A randomised controlled trial to evaluate the feasibility of web-based dietary assessment for improved personalised dietary advice in routine clinical dietetic practice of irritable bowel syndrome (IBS) patients

Acronym
ADAPT

Study objectives
This research project aims to establish the feasibility, acceptability and effectiveness of using a web-based 24-hr dietary recall system (Intake24) for improved personalised dietary advice versus usual dietetic clinical care of IBS patients.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approved 15/03/2022, East of England - Cambridgeshire and Hertfordshire Research Ethics Committee (Meeting held by video-conference via Zoom; +44 (0)2071048096; cambsandherts.rec@hra.nhs.uk), ref: 22/EE/0038

Primary study design
Interventional

Study design
Parallel randomized controlled intervention study

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Irritable bowel syndrome (IBS)

Interventions
A sample between 80 and 100 patients diagnosed with IBS will be randomly allocated (1:1) to web-based 24-hour dietary recalls or routine dietetic practice (dietary history interview method) and followed for 6 months. Patients allocated to the intervention will be invited to complete at least two 24-hour dietary recalls prior to the dietetic appointment (one-to-one consultations or group sessions). This will provide 1) quantified online dietary feedback upon completion of each recall for the patient's review, and 2) upload of detailed dietary results report to the patient's electronic medical notes for the dietitians' review to tailor dietary advice to patients during one-to-one consultations. Current routine dietetic practice uses dietician-led diet history interviews during one-to-one consultations or no dietary assessment for group sessions. All IBS patients enrolled in the study will be invited to complete web-based 24-hour dietary recalls prior to initial dietetic consultation and at the end of the study (6 months).

Intervention Type
Behavioural

Primary outcome(s)

IBS adequate relief and symptom severity score measured by IBS symptoms questionnaire at baseline, monthly, within 2 weeks pre-dietetic appointment, discharge and end of study time points.

Key secondary outcome(s)
1. Adherence to dietetic advice - measured by IBS symptoms questionnaire at baseline, monthly, within 2 weeks pre-dietetic appointment, discharge and end of study time points.
2. Quality of dietetic practice - measured by Satisfaction, acceptability and Quality of Care questionnaire at the discharge timepoint. Also measured using information from CUH electronic medical notes at at baseline, monthly, within 2 weeks pre-dietetic appointment, discharge and end of study time points.
3. Response rates and acceptability of dietary assessment methods - measured by Satisfaction, acceptability and Quality of Care questionnaire at the discharge timepoint.
4. Quality of life (IBS specific) - measured by IBS Quality of Life questionnaire at baseline, discharge and end of study timepoints.
5. Dietetic consultation time (for one-to-one consultations only) - measured using information from CUH electronic medical notes at at baseline, monthly, within 2 weeks pre-dietetic appointment, discharge and end of study time points.
6. Frequency of follow-up dietetic consultations (for one-to-one consultations only) - measured using information from CUH electronic medical notes at at baseline, monthly, within 2 weeks pre-dietetic appointment, discharge and end of study time points.

Completion date
31/07/2024

Eligibility

Key inclusion criteria
1. Newly admitted patients older than 18 years
2. Meet the ROME IV criteria for IBS diagnosis according to the National Institute for Health and Care Excellence (NICE) guidelines

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Lower age limit
18 Years

Sex
All

Total final enrolment
20

Key exclusion criteria
1. Younger than 18 years
2. Co-existing gastrointestinal disease (e.g. inflammatory bowel disease, celiac disease) or eating disorder
3. No availability or access to a computer, tablet, or internet
4. Insufficient English language proficiency
5. Unable to give informed consent

Date of first enrolment
01/06/2022

Date of final enrolment
31/12/2023

Locations

Countries of recruitment
United Kingdom

England

Study participating centre
Intestinal Failure and Gastroenterology Clinic, Addenbrookes Hospital
Department of Nutrition & Dietetics
Box 119
Cambridge University Hospitals NHS Foundation Trust
Cambridge Biomedical Campus
Hills Road
Cambridge
United Kingdom
CB2 0QQ

Sponsor information

Organisation
Cambridge University Hospitals NHS Foundation Trust

ROR
https://ror.org/04v54gj93

Organisation
University of Cambridge

ROR
https://ror.org/013meh722

Funder(s)

Funder type
Government

Funder Name
NIHR Cambridge Biomedical Research Centre

Alternative Name(s)
Cambridge Biomedical Research Centre, NIHR Cambridge BRC, National Institute for Health Research Cambridge Biomedical Research Centre

Funding Body Type
Government organisation

Funding Body Subtype
Local government

Location
United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan
Data requests should be made to Dr Linda Oude Griep at linda.oudegriep@mrc-epid.cam.ac.uk. Data would be fully anonymised and only shared with bona fide researchers attached to an academic/research institution. Participants will have given consent for their data to be shared anonymously with other researchers.

IPD sharing plan summary
Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
HRA research summary			26/07/2023	No	No
Protocol file	version 4	19/07/2023	29/07/2025	No	No
Study website	Study website	11/11/2025	11/11/2025	No	Yes