# BEST3 - A trial of a new GP-based test for patients with heartburn symptoms

Submission date 16/01/2017	<b>Recruitment status</b> No longer recruiting	[X] Prospectively registered		
		[X] Protocol		
Registration date	Overall study status	[] Statistical analysis plan		
19/01/2017 Co	Completed	[X] Results		
Last Edited 14/02/2024	<b>Condition category</b> Cancer	Individual participant data		

#### Plain English summary of protocol

http://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-trial-looking-at-the-cytosponge-test-in-gp-surgeries-for-people-with-heartburn-symptoms-best-3#undefined

#### Study website

https://www.best3trial.org/

## **Contact information**

**Type(s)** Public

**Contact name** Ms Aisling Redmond

#### **Contact details**

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## Additional identifiers

EudraCT/CTIS number

**IRAS number** 

ClinicalTrials.gov number

Secondary identifying numbers CPMS 32540

## Study information

#### Scientific Title

Barrett's oESophagus Trial 3 (BEST3): randomised controlled trial comparing the Cytosponge™-TFF3 test with usual care to facilitate the diagnosis of oesophageal pre-cancer in primary care.

#### Acronym

BEST3

#### **Study objectives**

The aim of this study is to:

1. Demonstrate that the invitation to the Cytosponge-TFF3 test leads to an increase in the number of patients diagnosed with Barrett's oesophagus (BE) compared to the usual clinical care pathway in primary care

2. Gain an in-depth understanding of the health economics of the Cytosponge -TFF3 test in patients on long-term treatment with acid suppressants as well as the economics for the projected reduction of cancer-related deaths

#### Ethics approval required

Old ethics approval format

**Ethics approval(s)** East of England – Cambridge East REC, 21/12/2016, ref: 16/EE/0546

**Study design** Randomized; Interventional; Design type: Diagnosis, Device, Management of Care

**Primary study design** Interventional

**Secondary study design** Randomised controlled trial

**Study setting(s)** GP practice

**Study type(s)** Diagnostic

**Participant information sheet** No participant information sheet available

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

Specialty: Primary Care, Primary sub-specialty: Cancer; UKCRC code/ Disease: Oral and Gastrointestinal/ Diseases of oesophagus, stomach and duodenum, Cancer/ Malignant neoplasms of lip, oral cavity and pharynx

#### Interventions

120 practices will be randomised on a 1:1 basis to either the intervention or control arm. Practices will be randomised via block randomisation and be stratified by number of eligible patients. A cluster randomisation will be used to simplify research procedures and minimise impact of differing clinical practice within the same practice.

Intervention arm: Participants on long-term acid suppressant medication will receive the Cytosponge<sup>™</sup> -TFF3 test and a clinically-indicated endoscopy where required and followed up at 12 months.

Control arm: Participants will receive usual care and followed up at 12 months.

Intervention Type

Other

#### Primary outcome measure

Effectiveness is assessed using GP and hospital records of histologically-confirmed Barrett's oesophagus at 12 months post GP recruitment.

#### Secondary outcome measures

1. Cost-effectiveness is assessed using GP and hospital records to determine mean cost per patient receiving the Cytosponge<sup>™</sup> -TFF3 test versus usual care and incremental cost per QALY gained of the Cytosponge<sup>™</sup> TFF3 test versus usual care at 12 months post GP recruitment 2. Patient acceptability is measured using a bespoke questionnaire at 7-14 days post procedure 3. Accuracy is measured using Positive Predictive Value (PPV) and Negative Predictive Value (NPV) in relation to the length of BE at 12 months post GP recruitment 4. Safety is measured using number of adverse events reported by patients up to 7 days post procedure

## Overall study start date 01/05/2016

Completion date 01/09/2019

## Eligibility

#### Key inclusion criteria

Aged 50 years and over
Records of at least 6 months of prescription for acid-suppressant medication in the last year

Participant type(s) Patient

Age group

#### Adult

#### Lower age limit

50 Years

#### Sex

Both

#### Target number of participants

Planned Sample Size: 9000; UK Sample Size: 9000

#### Total final enrolment

13514

#### Key exclusion criteria

Current exclusion criteria as of 15/08/2017:

- 1. Recorded regular prescriptions of NSAIDs
- 2. Recorded upper GI endoscopy in the previous 5 years as identified from the practice database
- 3. Recorded diagnosis of a current or previous oro-pharynx, oesophageal or gastro-oesophageal tumour
- 4. Recorded diagnosis of Barrett's oEsophagus (BE)
- 5. Unable to attend the GP surgery
- 6. Deemed not fit enough by their GP

Previous exclusion criteria:

- 1. Recorded regular prescriptions of NSAIDs
- 2. Recorded regular prescription of Clopidogrel
- 3. Recorded upper GI endoscopy in the previous 5 years as identified from the practice database
- 4. Recorded diagnosis of a current or previous oro-pharynx, oesophageal or gastro-oesophageal tumour
- 5. Recorded diagnosis of Barrett's oEsophagus (BE)
- 6. Unable to attend the GP surgery
- 7. Deemed not fit enough by their GP

Date of first enrolment

15/03/2017

Date of final enrolment 01/05/2018

## Locations

**Countries of recruitment** England

United Kingdom

Study participating centre

#### Cancer Research UK & King's College London Cancer Prevention Trials Unit

Cancer Prevention Trials Unit (CPTU), Cancer Prevention Group School of Cancer & Pharmaceutical Sciences King's College London GH0603004 Research Oncology Seminar Room Floor 3, Bermondsey Wing Guy's Hospital Great Maze Pond London United Kingdom SE1 9RT

Study participating centre MRC Cancer Unit University of Cambridge Box 197 Addenbrookes Hospital Cambridge Biomedical Campus Cambridge United Kingdom CB2 0XZ

### Sponsor information

**Organisation** Cambridge University Hospitals NHS Foundation Trust and University of Cambridge

Sponsor details Addenbrookes Hospital Hills Road Cambridge England United Kingdom CB2 0QQ +44 (0)1223 348490 Research@addenbrookes.nhs.uk

**Sponsor type** Hospital/treatment centre

ROR https://ror.org/04v54gj93

## Funder(s)

**Funder type** Charity

**Funder Name** Cancer Research UK

Alternative Name(s) CR\_UK, Cancer Research UK - London, CRUK

**Funding Body Type** Private sector organisation

**Funding Body Subtype** Other non-profit organizations

**Location** United Kingdom

## **Results and Publications**

#### Publication and dissemination plan

Planned publication in a high-impact peer-reviewed journal.

#### Intention to publish date

31/03/2020

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

Detailed datasets generated during the study for publication purposes will be available in the form of data supplements to the main journal publication and will be accessible as summary tables and analyses immediately upon publication. This may also include de-identified line-level participant data of a limited number of data fields to protect privacy. The full trial dataset is not expected to be made available due to data protection responsibilities and proprietorial issues around data use.

#### IPD sharing plan summary

Published as a supplement to the results publication

#### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient- facing?
Protocol article	protocol	03/08/2018		Yes	No
Results article	results	01/08/2020	04/08 /2020	Yes	No
Results article	secondary results: patient experience	<sup>2</sup> 10/01/2023	11/01 /2023	Yes	No
			26/07		

HRA research summary	Patient-reported experiences and views		/2023	No	No
Other publications		07/04/2022	14/02 /2024	Yes	No
<u>Participant information</u> <u>sheet</u>		03/08/2018	14/02 /2024	No	Yes