ISRCTN55381093 https://doi.org/10.1186/ISRCTN55381093

Feasibility and acceptability of using a shared decision making intervention to support patient choice of airway clearance techniques in bronchiectasis physiotherapy consultations in the NHS

Submission date 12/08/2025	**Recruitment status** No longer recruiting	[_] Prospectively registered [_] Protocol
Registration date 10/12/2025	**Overall study status** Ongoing	[_] Statistical analysis plan [_] Results
Last Edited 10/12/2025	**Condition category** Respiratory	[_] Individual participant data [X] Record updated in last year

Plain English summary of protocol

Background and study aims

Bronchiectasis is a long-term lung condition that causes the airways to become wider than normal. This can lead to a build-up of mucus, frequent coughing, and chest infections. Over 300,000 people in the UK live with bronchiectasis.

To help clear mucus from the lungs, patients are taught airway clearance techniques (ACTs) by a physiotherapist. These techniques can reduce infections and hospital visits. There are many types of ACTs, but there isn't strong evidence to show which one works best.

This study aims to test whether using a shared decision-making (SDM) approach — where patients and professionals make decisions together — is a helpful and acceptable way to support patients in choosing the ACT that suits them best.

Who can participate?

Adults aged 18 years or over with a diagnosis of bronchiectasis (but not cystic fibrosis) may be able to take part.

What does the study involve?

Participants will attend a physiotherapy consultation where the SDM approach will be used to help them choose an ACT. They will have follow-up appointments at 1 and 3 months. During the study, participants will be asked to complete questionnaires and may be invited to take part in an interview to share their experiences. Some participants will also be asked to provide feedback through audio recordings of their consultations.

What are the possible benefits and risks of participating?

Participants may benefit from receiving extra support in choosing an ACT that works best for them. The study could also help improve care for other people with bronchiectasis in the future. There are no expected risks from the intervention itself. However, taking part will involve some

time to complete questionnaires and possibly attend an interview. To make this easier, interviews can be done online using Microsoft Teams.

Where is the study run from?
Newcastle upon Tyne Hospitals NHS Foundation Trust

When is the study starting and how long is it expected to run for?
June 2025 to June 2026

Who is funding the study?
National Institute for Health and Care Research (NIHR) (UK)

Who is the main contact?
Paul McCallion, p.mccallion2@newcastle.ac.uk

Contact information

Type(s)
Public, Scientific, Principal investigator

Contact name
Mr Paul McCallion

ORCID ID
https://orcid.org/0000-0002-9097-1980

Contact details
Physiotherapy Department
Freeman Hospital
Freeman Road
Newcastle Upon Tyne
United Kingdom
NE7 7DN
+44 191 2448218
p.mccallion2@newcastle.ac.uk

Additional identifiers

Clinical Trials Information System (CTIS)
Nil known

Integrated Research Application System (IRAS)
316457

ClinicalTrials.gov (NCT)
Nil known

Protocol serial number
CPMS 70212

Study information

Scientific Title
Feasibility and acceptability of using a Shared Decision Making intervention to support patient choice of Airway Clearance Techniques in bronchiectasis physiotherapy consultations in the NHS. The FAST-ACT Study

Acronym
FAST-ACT

Study objectives
1. Determine the feasibility and acceptability of an SDM intervention to support patient choice of ACTs in bronchiectasis physiotherapy consultations in the NHS.
2. Evaluate the fidelity to training in the use of SDM as an intervention.

Ethics approval required
Ethics approval required

Ethics approval(s)
approved 04/06/2025, HRA and Health and Care Research Wales (HCRW) (Floor Four, North, Welsh Government Offices, Cathays Park, King Edward VII Avenue, Cardiff, CF10 3NQ, United Kingdom; +44 2920 230457; healthandcareresearch@wales.nhs.uk), ref: 25/EE/0111

Study design
Multi-centre interventional non randomized feasibility and acceptability study

Primary study design
Interventional

Study type(s)
Other

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

Interventions
The intervention is the provision of a Shared Decision Making (SDM) Patient Decision Aid. This was developed over the past 2 years as part of the wider PhD study. We conducted a qualitative study involving respiratory physiotherapists and patients living with bronchiectasis. We explored their experiences of airway clearance techniques (ACT) prescription, and the anticipated acceptability on the use of SDM to support choice of ACT in adults with bronchiectasis. We used the information from this study and published literature to co-produce an SDM intervention consisting of an SDM decision aid and training package. The SDM decision aid includes three types of ACT choices; 1) the active cycle of breathing technique, 2) autogenic drainage and 3) an oscillating positive expiratory pressure device (for this study we will use the OPEP called “Aerobika”). Aerobika OPEP devices have been used in routine care in bronchiectasis physiotherapy clinics in the UK for several years. Aerobika, and all OPEP devices, are a non-pharmacologic techniques that can increase mobilization and removal of mucus from the lungs. All ACTs in the SDM decision aid are prescribed as part of usual care in physiotherapy bronchiectasis clinics.

The SDM training package was designed for respiratory physiotherapists on how to use the decision aid. This training package consists of an existing publicly available SDM training course aimed at healthcare professionals. This training package was created and is hosted by NICE (available at: https://www.nice.org.uk/guidance/ng197/resources/shared-decision-making-learning-package-9142488109). There will be additional bronchiectasis specific components that the 4 physiotherapists involved in delivering the intervention will view. These are example video case studies using the SDM patient decision aid created by the study co-production team. These will be an addition to the NICE SDM training package, and available to the physiotherapists delivering the intervention. Our co-production team involved several stakeholders including respiratory physiotherapists, patients living with bronchiectasis, experts in SDM, representatives from Asthma and Lung UK (a UK lung charity) and clinical researchers. We will now aim to test the acceptability and feasibility of this SDM intervention to support patient choice of ACT in adults with bronchiectasis.

The intervention will be delivered once. It will be delivered in a physiotherapy bronchiectasis clinic which patients are attending as part of their usual care. One of the feasibility outcomes is to explore if this intervention can be delivered in the usual physiotherapy consultation allocated timeslot (30 minutes). The two follow up physiotherapy consultations (1 month and 3 months post intervention) will be above usual care.

Intervention Type
Behavioural

Primary outcome(s)
1. Feasibility of recruitment is measured using the proportion of patients approached who agree to undertake the study at baseline
2. Feasibility of retention is measured using the proportion of patients attending follow-up consultations at each follow-up timepoint
3. Feasibility of data collection is measured using completion rates of outcome data (e.g., questionnaires) at each data collection timepoint
4. Feasibility of intervention delivery is measured using the proportion of physiotherapy consultations in which the intervention is delivered within 30 minutes at each initial consultation
5. Health-related quality of life is measured using the Quality of Life-Bronchiectasis (QOL-B) questionnaire at baseline and each follow-up timepoint
6. Acceptability of shared decision-making is measured using the 9-item Shared Decision-Making Questionnaire (SDM-Q-9) for patients at the initial consultation and each follow-up consultation
7. Acceptability of shared decision-making is measured using the Shared Decision-Making Questionnaire for clinicians (SDM-Q-Doc) at the initial consultation
8. Fidelity to shared decision-making training is measured using OPTION 5 ratings of audio-recorded initial consultations selected by random sampling at baseline
9. Decisional conflict is measured using the Decisional Conflict Scale (DCS) for patients after the initial consultation only
10. Decision regret is measured using the Decision Regret Scale (DRS) for patients at each follow-up visit in relation to their initial chosen airway clearance technique

Key secondary outcome(s))
Adherence to ACTs measured with REDcap (https://projectredcap.org) via a mobile phone as a new reporting system for adherence to ACTs in bronchiectasis

Completion date
01/06/2026

Eligibility

Key inclusion criteria
1. ≥18 years old
2. Radiological and clinical diagnosis of bronchiectasis
3. Capacity to consent and participate in SDM
4. Patient or their carer owns a mobile telephone
5. First visit to specialist bronchiectasis clinic

Participant type(s)
Health professional, Patient

Healthy volunteers allowed
No

Age group
Mixed

Lower age limit
18 years

Upper age limit
100 years

Sex
All

Total final enrolment
0

Key exclusion criteria
1. Patients with cystic fibrosis (CF) bronchiectasis as aetiology

Date of first enrolment
01/09/2025

Date of final enrolment
01/01/2026

Locations

Countries of recruitment
United Kingdom

England

Study participating centre

The Newcastle upon Tyne Hospitals NHS Foundation Trust
Freeman Hospital
Freeman Road
High Heaton
Newcastle upon Tyne
England
NE7 7DN

Study participating centre
University Hospital Birmingham
Queen Elizabeth Hospital
Edgbaston
Birmingham
England
B15 2TH

Sponsor information

Organisation
Newcastle upon Tyne Hospitals NHS Foundation Trust

ROR
https://ror.org/05p40t847

Funder(s)

Funder type
Government

Funder Name
National Institute for Health and Care Research

Alternative Name(s)
National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

Funding Body Type
Government organisation

Funding Body Subtype
National government

Location
United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Data sharing statement to be made available at a later date

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes