# E-cigarettes for smoking cessation and reduction in people with a mental illness

Submission date 20/06/2023	<b>Recruitment status</b> No longer recruiting	[X] Prospectively registered [ ] Protocol
Registration date	Overall study status	Statistical analysis plan
05/01/2024	Completed	[] Results
Last Edited 09/04/2025	<b>Condition category</b> Mental and Behavioural Disorders	<ul> <li>Individual participant data</li> <li>[X] Record updated in last year</li> </ul>

# Plain English summary of protocol

Background and study aims

Tobacco smoking is the single largest contributor to health inequalities for people with mental illness (PWMI). Developing and implementing ways to address this widening health gap has been identified as a priority in the NHS Long Term Plan and the 2019 Tobacco Control Plan for England. E-cigarettes have been suggested as a potentially particularly helpful way to support people with mental illness quit smoking or substantially reduce consumption. However, there have been no fully powered trials to assess this potential. The researchers completed a feasibility study in January 2023 and are now ready to proceed to a full randomised controlled trial (RCT). The aim of this study is to assess the effectiveness and cost-effectiveness of providing an e-cigarette starter kit to PWMI treated in the community to aid smoking cessation and harm reduction.

#### Who can participate?

Adults (aged over 18 years) receiving treatment for a mental illness in primary or secondary care, who smoke regularly

#### What will the study involve?

Participants are randomly allocated to one of two groups. Group 1 will receive an e-cigarette and e-liquid to use for 4 weeks in addition to the usual care they are receiving. In Group 2, initially participants will continue to receive their care as usual but will receive an e-cigarette and some e-liquid at the end of the study at the 6-month follow-up.

Participants who are assigned to the group that receives the e-cigarette will be given an ecigarette starter kit (an e-cigarette containing e-liquid and an information leaflet). They will also receive a brief face-to-face consultation with a clinician, who will explain how to use the ecigarette and provide information to enable participants to make positive changes to their smoking behaviour. Participants will be provided with an e-liquid supply for 4 weeks. Participants who are assigned to the group that does not receive an e-cigarette will continue to receive their usual care package and will be provided with an e-cigarette and some e-liquid after the 6-month follow-up. Both groups will be encouraged to consider quitting and to set a target quit date soon. However, if they choose not to set a quit date that is also okay.

A member of the research team will ask several questions at the beginning of the study and again after 1 and 6 months. Participants will be given the opportunity to do this at home on an

electronic device (by completing the questionnaires online) or in person at a place to suit them; this process may take up to 1 hour. The questions will ask about current smoking status, smoking habits and mental and physical health. Participants may also be asked to breathe into a carbon monoxide monitor which can be done at a place that is convenient for them.

What are the possible benefits and risks of participating?

Participants may make positive changes to their smoking behaviour and provide data which could help thousands of smokers to quit smoking for good. They will receive a shopping voucher each time they complete the follow-up questionnaires and receive an e-cigarette which they can keep.

Where is the study run from? Mental Health Trusts and GP practices mainly in Yorkshire (UK)

When is the study starting and how long is it expected to run for? March 2023 to July 2025

Who is funding the study? Yorkshire Cancer Research (UK)

Who is the main contact? Dr Anna-Marie Marshall, a.marshall@york.ac.uk

# **Contact information**

**Type(s)** Principal Investigator

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**Type(s)** Scientific

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# Additional identifiers

EudraCT/CTIS number Nil known

**IRAS number** 328528

**ClinicalTrials.gov number** Nil known

Secondary identifying numbers CPMS 58155, IRAS 328528

# Study information

**Scientific Title** E-cigarettes for Smoking Cessation And reduction in People with mEntal illness (ESCAPE)

Acronym ESCAPE

# **Study objectives**

The main aim is to assess the effectiveness and cost-effectiveness of providing an e-cigarette starter kit to people with mental Illness (PWMI) treated in the community to aid smoking cessation and harm reduction, as an adjunct to 'usual care'.

# Ethics approval required

Old ethics approval format

## Ethics approval(s)

Approved 24/10/2023, Yorkshire & The Humber - South Yorkshire Research Ethics Committee (NHSBT Newcastle Blood Donor Centre, Holland Drive, Newcastle upon Tyne, NE2 4NQ, United Kingdom; +44 (0)207 104 8021; southyorks.rec@hra.nhs.uk), ref: 23/YH/0199

The ethical approval covers a process evaluation and the process evaluation started on 17/02 /2025 and will be ended on 31/08/2025.

We submitted a substantial amendment to IRAS to enable the main trial's ethical approval to cover the process evaluation. We received a favorable opinion from the REC regarding this amendment on 10 February 2025 and a HRA and HCRW approval on 14 February 2025.

## Study design

Multi-centre randomized controlled trial

**Primary study design** Interventional

**Secondary study design** Randomised controlled trial

**Study setting(s)** GP practice, Hospital

**Study type(s)** Prevention

# Participant information sheet

Not available in web format, please use the contact details to request a participant information sheet

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

Smoking cessation using an e-cigarette in patients living in the community who have a mental illness

#### Interventions

The intervention allocation will be determined by block computer randomisation to ensure that each trial site has an equal proportion of intervention and control group participants. Randomisation will occur after consent to take part in the study has been obtained via sealed envelope.

The intervention group will be offered an e-cigarette starter kit, compliant with EU regulation, and an information leaflet about e-cigarettes, in addition to usual care. A 20 mg/ml strength DOTPRO e-cigarette starter kit (https://www.liberty-flights.co.uk/DOT-PRO/DOT-PRO-Vape-Kit /) will be offered in a choice of flavours. The starter kit containing a pod-based e-cigarette, a 4-week supply of refill pods and an information leaflet will be provided to participants by their clinician at their scheduled appointment. At the scheduled appointment with a clinician, a brief consultation will also be conducted with participants to provide necessary instructions for the use of the kit lasting between 5-10 minutes. All participants will be encouraged to consider

quitting and to set a target quit date within a week, told that smoking cessation is beneficial for their mental and physical health and that e-cigarettes are a safe and effective way to achieve smoking cessation.

The control group will receive care as usual, as outlined above and they will be told that smoking cessation is beneficial for their mental and physical health.

#### Intervention Type

Device

# Pharmaceutical study type(s)

Not Applicable

Phase Not Applicable

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

ICON e-cigarette

# Primary outcome measure

1. Self-reported 7-day point prevalence abstinence measured using a questionnaire (question written in-house) at 6 months

2. Co-verified quit (main outcome) measured using a CO monitor (smokylizer) at 6 months

# Secondary outcome measures

1. General smoking-related characteristics, abstinence, quit attempts and methods (including ecigarettes), measured using a questionnaire (questions written in-house) at baseline, 1 month and 6 months

2. Nicotine dependence measured using the Fagerstrom Test for Nicotine Dependence at baseline, 1 month and 6 months

3. Strength of urges to smoke measured using the SUTS questionnaire at baseline, 1 month and 6 months

4. Motivation to quit measured using the Motivation To Stop Scale (MTSS) at baseline, 1 month and 6 months

5. Mental wellbeing measured using PHQ-9 and GAD-7 at baseline and 6 months

6. Alcohol use measured using AUDIT-C at baseline and 6 months

7. Health-related quality of life measured using EQ-5D-5L at baseline and 6 months

8. Attrition measured using a questionnaire (questions written in-house) at 1 month and 6 months

9. Adherence rate measured using a questionnaire (questions written in-house) at 1-month follow-up

10. Cost-effectiveness measured using a questionnaire (questions written in-house) at baseline, 1 month and 6 months

11. Adverse events measured using a questionnaire (questions written in-house) at 1 month and 6 months

# Overall study start date

01/03/2023

# **Completion date**

05/07/2025

# Eligibility

## Key inclusion criteria

1. Adults (aged >18 years)

2. Receiving treatment for a mental illness in primary or secondary care

3. Smokes regularly and have smoked combustible cigarettes in the past 7 days)

4. Must be willing to address their smoking behaviour, either by attempting to quit or by reducing their consumption

5. Must have the capacity to provide consent

Participant type(s)

Patient

**Age group** Adult

Lower age limit

18 Years

**Upper age limit** 100 Years

Sex

Both

**Target number of participants** 616

# Total final enrolment

95

# Key exclusion criteria

- 1. Patients must not have had an inpatient admission in the last 3 months
- 2. Smokers who are currently using e-cigarettes regularly (at least weekly)
- 3. Patients who are participating in other smoking cessation trials
- 4. Patients who are receiving treatment for drug or alcohol use
- 5. Patients who have a diagnosis of Alzheimer's disease or dementia
- 6. Patients who are pregnant or breastfeeding

Date of first enrolment

27/03/2024

Date of final enrolment 31/12/2024

# Locations

**Countries of recruitment** England

#### United Kingdom

#### Study participating centre

#### Tees, Esk and Wear Valleys NHS Foundation Trust

Trust Headquarters West Park Hospital Edward Pease Way Darlington United Kingdom DL2 2TS

Study participating centre Bradford District Care NHS Foundation Trust New Mill Victoria Road Saltaire Shipley United Kingdom BD18 3LD

#### Study participating centre Sheffield Clinical Commissioning Group Hq 722 Prince of Wales Road Darnall Sheffield United Kingdom S9 4EU

# Study participating centre Oxford NHS Foundation Trust

Littlemore Mental Health Centre Sandford Road Littlemore Oxford United Kingdom OX4 4XN

**Study participating centre South West Yorkshire Partnership NHS Foundation Trust** Fieldhead Ouchthorpe Lane Wakefield United Kingdom WF1 3SP

#### **Study participating centre Nottinghamshire Healthcare NHS Foundation Trust** Duncan Macmillan House Porchester Road Nottingham United Kingdom

NG3 6AA

#### **Study participating centre Lancashire and South Cumbria NHS Foundation Trust** Sceptre Point Sceptre Way Walton Summit Preston United Kingdom PR5 6AW

#### Study participating centre Norfolk and Suffolk NHS Foundation Trust County Hall Trust Headquarters Martineau Lane Norwich United Kingdom NR1 2DH

#### Study participating centre CRN North East and North Cumbria

LCRN Level2 Regent Point Regent Farm Road Gosforth Newcastle Upon Tyne United Kingdom NE3 3HD

Study participating centre

## Woodstock Bower Surgery

Kimberworth Road Rotherham United Kingdom S61 1AH

# Study participating centre Clifton Medical Centre

239 Doncaster Gate Rotherham United Kingdom S65 1DA

#### **Study participating centre My Health** Strensall Health Care Centre Southfields Road Strensall York United Kingdom YO32 5UA

# Study participating centre Mosborough Health Centre

Doctors Surgery 34 Queen Street Mosborough Sheffield United Kingdom S20 5BQ

#### Study participating centre Bartholomew Medical Group

Goole Health Centre Woodland Avenue Goole United Kingdom DN14 6RU

#### Study participating centre

#### **Bridge View Medical Group**

Southwick Health Centre, The Green, Southwick Sunderland United Kingdom SR5 2LT

# Study participating centre Springwell Medical Group

Jack Cohen Health Centre, Springwell Road Sunderland United Kingdom SR3 4HG

Study participating centre Snaith and Rawcliffe Medical Group The Marshes Butt Lane Snaith Goole United Kingdom DN14 9DY

# Sponsor information

## **Organisation** University of York

#### **Sponsor details**

Heslington York England United Kingdom YO10 5DD +44 (0)1904 320000 michael.barber@york.ac.uk

**Sponsor type** University/education

Website http://www.york.ac.uk/

#### ROR

https://ror.org/04m01e293

# Funder(s)

Funder type Charity

Funder Name Yorkshire Cancer Research

Alternative Name(s)

**Funding Body Type** Private sector organisation

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

**Location** United Kingdom

# **Results and Publications**

# Publication and dissemination plan

Results from the feasibility and full RCT will be shared with study participants via email or text message, which will include a link to blog posts regarding study results. PH and SH, together with lay representatives of the steering committee will assist in ensuring that blog posts and other relevant approaches to dissemination are understandable to a lay audience and will also assist with dissemination (e.g. via social media). If they wish to, participants can also assist with dissemination, and we will work together to prepare social media/blog posts that they can share. The researchers will also work with local press (e.g. Yorkshire Post, Sheffield Star, Doncaster Free Press newspapers) to communicate study results to the local population. In addition, we will approach media offices of Universities and Trusts involved in the study and the Yorkshire and Humber CRN to disseminate study results internally. At the national level, the researchers aim to publicise study results through their partners (ASH, NSCST and Equally Well) as well as their contacts within Public Health England and NICE. At the international level, findings from both the feasibility and full RCT will be presented at relevant conferences (Society for Research of Nicotine and Tobacco; Society of Behavioral Medicine, Royal College of Psychiatrists etc) and the publication of study protocol, and results from both trials in high impact, relevant journal (e. g. JAMA Psychiatry, Lancet Psychiatry). Further, the researchers will plan a media briefing with the Science and Media Centre with whom we have a good working relationship.

Intention to publish date

30/04/2026

Individual participant data (IPD) sharing plan

Data will be available upon request from Dr Anna-Marie Marshall (a.marshall@york.ac.uk). Consent from participants was required and obtained. Participants will be allocated a participant number, the names of participants will not appear on the paper-based or online data stored at the University. The NHS code of confidentiality will be adhered to for all patient data and for data.

# IPD sharing plan summary

Available on request