

# Carbon monoxide alarm use by Emergency Department patients

<b>Submission date</b> 27/11/2021	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 06/05/2022	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 03/03/2025	<b>Condition category</b> Other	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

Carbon monoxide is a colourless odourless gas that can cause symptoms such as headache, muscle aches and flu-like symptoms. Carbon monoxide exposure leads to 4000 attendances to Emergency departments each year and can cause long-term health problems. Having a carbon monoxide alarm installed in homes can help with the early detection of carbon monoxide and reduce the risk of exposure. Not everyone has a carbon monoxide alarm in their homes and the aim of this study is to find out if there are differences in those who have alarms compared to those that do not so they can provide tailored information on carbon monoxide alarm use to those that need it

### Who can participate?

Patients or carers attending the Emergency Department aged 16 years or over.

### What does the study involve?

The study involves answering a survey on the internet either on the patients' mobile phone or a study tablet device. The survey includes 21 questions asking about the presence and location of carbon monoxide alarms and will also include questions about the type of home, household income and ethnicity

### What are the possible benefits and risks of participating?

There will be no direct benefits related to participation. Indirect benefits include contributing to a better understanding of the use of carbon monoxide in the home. The results will be used to target future public health information to those who do not have alarms installed in their homes.

### Where is the study run from?

St George's University Hospitals NHS Foundation Trust (UK)

### When is the study starting and how long is it expected to run for?

June 2021 to March 2023

### Who is funding the study?

Carbon Monoxide Research Trust (UK)

Who is the main contact?  
Prof. Heather Jarman  
Heather.jarman@stgeorges.nhs.uk

**Study website**

<https://www.stgeorges.nhs.uk/edcostudy/>

## Contact information

**Type(s)**

Scientific

**Contact name**

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**Type(s)**

Public

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## Additional identifiers

**EudraCT/CTIS number**

Nil known

**IRAS number**

306275

**ClinicalTrials.gov number**

Nil known

**Secondary identifying numbers**

IRAS 306275, CPMS 51448

## **Study information**

**Scientific Title**

A survey of carbon monoxide alarm use in patients attending the Emergency Department (EDCO-M)

**Acronym**

EDCO-M

**Study objectives**

What is the prevalence of carbon monoxide alarms?

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Approved 21/12/2021, HRA Proportionate Review Sub-Committee (London - Westminster Research Ethics Committee, Equinox House, City Link, Nottingham, NG2 4LA, UK; +44 (0)20 7104 8066; westminster.rec@hra.nhs.uk), REC ref: 21/PR/1657

**Study design**

Multicentre prospective cross-sectional observational survey

**Primary study design**

Observational

**Secondary study design**

Cross sectional study

**Study setting(s)**

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**

## Carbon monoxide alarm use

### Interventions

The study involves answering a survey on the internet either on the patients' mobile phone or a study tablet device. The survey includes 21 questions asking about the presence and location of carbon monoxide alarms and will also include questions about the type of home, household income and ethnicity.

### Intervention Type

Other

### Primary outcome measure

Prevalence of fitted carbon monoxide alarms in patients' homes measured by asking if households they have a carbon monoxide alarm at a single timepoint (survey completion)

### Secondary outcome measures

There are no secondary outcome measures

### Overall study start date

01/06/2021

### Completion date

09/03/2023

## Eligibility

### Key inclusion criteria

1. Patient or carer aged 16 years or over
2. Parent or carer of a child under 16 years
3. Participant is willing and able to give informed consent for participation in the study
4. Participant currently resides in the UK

### Participant type(s)

Patient

### Age group

Adult

### Sex

Both

### Target number of participants

6,000

### Total final enrolment

6043

### Key exclusion criteria

1. Unable to read and understand the study information or consent process due to injury/illness or language barrier

2. Treating clinician (doctor or nurse) feels that it is not appropriate to approach the patient to participate

**Date of first enrolment**

01/01/2022

**Date of final enrolment**

09/03/2023

## **Locations**

**Countries of recruitment**

England

United Kingdom

**Study participating centre**

**St George's Hospital**

St George's University Hospitals NHS Foundation Trust

Blackshaw Road

London

United Kingdom

SW17 0QT

**Study participating centre**

**St Helier Hospital**

Epsom and St Helier University Hospitals NHS Trust

Wrythe Lane

Carshalton

London

United Kingdom

SM5 1AA

## **Sponsor information**

**Organisation**

St George's, University of London

**Sponsor details**

Cranmer Terrace

London

England

United Kingdom

SW17 0RE  
+44 (0)208 725 4986  
research@sgul.ac.uk

**Sponsor type**

University/education

**Website**

<http://www.sgul.ac.uk/>

**ROR**

<https://ror.org/040f08y74>

## Funder(s)

**Funder type**

Charity

**Funder Name**

Carbon Monoxide Research Trust

## Results and Publications

**Publication and dissemination plan**

1. Planned publication in a peer-reviewed journal
2. Internal report
3. Conference publication
4. Publication on website

**Intention to publish date**

31/12/2023

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

Participant-level data will not be available as ethics approval to share the data has not been given

**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>		16/11/2022	18/11/2022	Yes	No
<a href="#">HRA research summary</a>			28/06/2023	No	No
<a href="#">Basic results</a>			03/03/2025	No	No