ISRCTN12562718 https://doi.org/10.1186/ISRCTN12562718

Carbon monoxide alarm use by Emergency Department patients

Submission date
27/11/2021

Recruitment status
No longer recruiting

Registration date
06/05/2022

Overall study status
Completed

Last Edited
03/03/2025

Condition category
Other

[_] Prospectively registered
[X] Protocol
[_] Statistical analysis plan
[X] Results
[_] 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
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Contact information

Type(s)
Scientific

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Public

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Additional identifiers

Integrated Research Application System (IRAS)
306275

Central Portfolio Management System (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

Primary study design
Observational

Study design
Multicentre prospective cross-sectional observational survey

Study type(s)
Prevention

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(s)
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)

Key secondary outcome(s)
There are no secondary outcome measures

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

Healthy volunteers allowed
No

Age group
Adult

Sex
All

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
United Kingdom

England

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

ROR
https://ror.org/040f08y74

Funder(s)

Funder type
Charity

Funder Name
Carbon Monoxide Research Trust

Results and Publications

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?

Protocol article		16/11/2022	18/11/2022	Yes	No
Basic results			03/03/2025	No	No
HRA research summary			28/06/2023	No	No
Study website	Study website	11/11/2025	11/11/2025	No	Yes