# Stroke at younger ages

Submission date	Recruitment status	[X] Prospectively registered
22/01/2024	Not yet recruiting	☐ Protocol
Registration date	Overall study status	Statistical analysis plan
01/02/2024	Ongoing	Results
Last Edited	Condition category	Individual participant data
06/06/2025	Cancer	[X] Record updated in last year

#### Plain English summary of protocol

Background and study aims

We have seen a doubling in the number of new stroke cases in adults under the age of 55 years in the last 10 years in the UK and in other high-income countries. However, the reasons for this increase remain unclear. The aim of this study is to find out how traditional stroke risk factors that are more common at older ages, such as high blood pressure, diabetes, high cholesterol level, smoking and obesity, might contribute to the occurrence of stroke at younger ages. The researchers are also hoping to find out if emerging stroke risk factors also play a role in the rising number of young stroke cases, such as long working hours, stress and mental health conditions.

Who can participate?

Adult patients aged between 18-54 years with diagnosed stroke

What does the study involve?

The study will involve a short questionnaire (about 30 minutes) through an interview with the local study team, where they will collect information on participants' past medical history, lifestyle-related factors, family history, birth history, and other stroke risk factors. The research team will also collect relevant information about the stroke episode. The interview can be done face-to-face during the hospital stay or by phone after participants are discharged. All patients will undergo centralised administrative follow-up via record linkage for up to 30 years.

What are the possible benefits and risks of participating?

The study only includes a short questionnaire and there are no unlikely foreseeable risks associated.

Where is the study run from? Oxford University (UK)

When is the study starting and how long is it expected to run for? October 2023 to December 2056

Who is funding the study?

- 1. Oxford University (UK)
- 2. Oxford BRC (UK)
- 3. Wellcome Trust (UK)

Who is the main contact?

Dr Linxin Li, linxin.li@ndcn.ox.ac.uk

# Contact information

#### Type(s)

Public, Scientific, Principal Investigator

#### Contact name

Dr Linxin Li

#### **ORCID ID**

https://orcid.org/0000-0002-3636-8355

#### Contact details

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# Additional identifiers

#### **EudraCT/CTIS** number

Nil known

#### **IRAS** number

328197

# ClinicalTrials.gov number

Nil known

## Secondary identifying numbers

IRAS 328197

# Study information

#### Scientific Title

National Young Stroke Study

#### Acronym

#### Study objectives

The primary objectives of this study are to provide up-to-date and reliable estimates of the associations of traditional modifiable risk factors and emerging risk factors and young stroke.

#### Ethics approval required

Ethics approval required

#### Ethics approval(s)

Approved 22/01/2024, North West - Greater Manchester South Research Ethics Committee (3rd Floor, Barlow House, 4 Minshull Street, Manchester, M1 3DZ, United Kingdom; +44 (0)207 104 8278; gmsouth.rec@hra.nhs.uk), ref: 24/NW/0003

#### Study design

Prospective cohort study

### Primary study design

Observational

#### Secondary study design

Case-control study

#### Study setting(s)

Hospital

# Study type(s)

Prevention, Quality of life

# Participant information sheet

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

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

Stroke

#### Interventions

The study will involve a short questionnaire (about 30 minutes) through an interview with the local study team, where they will collect information on participants' past medical history, lifestyle-related factors, family history, birth history, and other stroke risk factors. The research team will also collect relevant information about the stroke episode. The interview can be done face-to-face during the hospital stay or by phone after participants are discharged. All patients will undergo centralised administrative follow-up via record linkage for up to 30 years.

### Intervention Type

Other

## Primary outcome measure

- 1. Traditional vascular risk factors (e.g. hypertension, diabetes, hyperlipidaemia, obesity, smoking, alcohol excess) measured using questionnaire/medical records at baseline
- 2. Emerging risk factors (e.g. depression, anxiety and other mental health conditions, long

working hours, stress, autoimmune conditions, oral health) measured using questionnaire /medical records at baseline

#### Secondary outcome measures

- 1. Long-term vascular (recurrent stroke, myocardial infarction, dementia and vascular death) and non-vascular outcomes (cancer and mental health conditions) measured using medical record linkage at 5, 10, 20 and 30 years
- 2. Stroke severity measured using National Institutes of Health Stroke Scale (NIHSS) at baseline
- 3. Disability measured using modified Rankin scale at baseline in the first instance
- 4. Quality of life measured using EQ-5D at baseline in the first instance

#### Overall study start date

01/10/2023

#### Completion date

31/12/2056

# Eligibility

#### Key inclusion criteria

1. Patient is willing and able to give informed consent for participation in the study, or favourable consultee advice for adults lacking capacity OR

If consent or consultee advice was not feasible, CAG/Section 251 support for data collection

- 2. Male or Female, aged 18 to 54 years
- 3. A diagnosis of ischaemic stroke (including retinal artery occlusion)

OR

A diagnosis of intracerebral haemorrhage

## Participant type(s)

Patient

# Age group

Adult

# Lower age limit

18 Years

# Upper age limit

54 Years

#### Sex

Both

# Target number of participants

2000

## Kev exclusion criteria

- 1. Intracerebral haemorrhage as a result of trauma
- 2. Ischaemic stroke or intracerebral haemorrhage as a result of cerebral venous thrombosis

# **Date of first enrolment** 01/10/2025

Date of final enrolment 31/12/2026

# **Locations**

**Countries of recruitment** England

United Kingdom

Study participating centre Thames Valley & South Midlands CRN United Kingdom N/A

Study participating centre
North East and North Cumbria CRN
United Kingdom
N/A

Study participating centre
North West Coast CRN
United Kingdom
N/A

Study participating centre Yorkshire and Humber CRN United Kingdom N/A

Study participating centre Greater Manchester CRN United Kingdom N/A Study participating centre East Midlands CRN United Kingdom N/A

Study participating centre West Midlands CRN United Kingdom N/A

Study participating centre West of England CRN United Kingdom N/A

Study participating centre East of England CRN United Kingdom N/A

Study participating centre Kent, Surrey and Sussex CRN United Kingdom N/A

Study participating centre Wessex CRN United Kingdom N/A

Study participating centre South West Peninsula CRN United Kingdom N/A

Study participating centre

#### North Thames CRN

United Kingdom N/A

Study participating centre South London CRN United Kingdom N/A

Study participating centre North West London CRN United Kingdom N/A

Study participating centre
Wolfson Centre for Prevention of Stroke and Dementia, NDCN, Oxford University
Wolfson Building
John Radcliffe Hospital
Oxford
United Kingdom
OX3 9DU

# Sponsor information

# Organisation

University of Oxford

#### Sponsor details

Research Governance, Ethics and Assurance Boundary Brook House Churchill Drive Oxford England United Kingdom OX3 7GB +44 (0)1865-289885 RGEA.Sponsor@admin.ox.ac.uk

#### Sponsor type

University/education

#### Website

http://www.ox.ac.uk/

#### **ROR**

https://ror.org/052gg0110

# Funder(s)

## Funder type

University/education

#### **Funder Name**

University of Oxford

#### Alternative Name(s)

St Cross College, University of Oxford

#### **Funding Body Type**

Private sector organisation

# **Funding Body Subtype**

Universities (academic only)

#### Location

**United Kingdom** 

#### **Funder Name**

NIHR Oxford Biomedical Research Centre

#### Alternative Name(s)

NIHR Biomedical Research Centre, Oxford, OxBRC

## **Funding Body Type**

Private sector organisation

# **Funding Body Subtype**

Research institutes and centers

#### Location

**United Kingdom** 

#### **Funder Name**

Wellcome Trust

#### Alternative Name(s)

Wellcome, WT

# **Funding Body Type**

Private sector organisation

# Funding Body Subtype

Trusts, charities, foundations (both public and private)

#### Location

United Kingdom

# **Results and Publications**

# Publication and dissemination plan

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

# Intention to publish date

31/12/2029

# Individual participant data (IPD) sharing plan

The data-sharing plans for the current study are currently under development and will be made available at a later date.

# IPD sharing plan summary

Data sharing statement to be made available at a later date