ISRCTN97695350 https://doi.org/10.1186/ISRCTN97695350

Tranexamic acid for very early bleeds in the brain

Submission date 11/05/2021	**Recruitment status** Recruiting	[X] Prospectively registered [X] Protocol [_] Statistical analysis plan [_] Results [_] Individual participant data [X] Record updated in last year
Registration date 21/06/2021	**Overall study status** Ongoing	
Last Edited 05/11/2025	**Condition category** Circulatory System	

Plain English summary of protocol

Background and study aims
Tranexamic acid is a standard treatment in bleeding emergencies such as trauma and childbirth, where it reduces deaths from bleeding. A recent study showed that tranexamic acid given within 8 hours of a bleed on the brain is safe and prevents hematoma (abnormal collection of blood) growth. There was also a small reduction in the number of patients who died within the first 7 days. The study was not large enough to show whether there were effects on long-term disability. Tranexamic acid is cheap (£12) and easy to administer. If it is effective it could make a difference to patients with a bleed on the brain and their families worldwide.
The researchers have worked closely with stroke survivors and their carers to design this study. They told them that increased survival is important, but most people would not want to be alive at the expense of very severe disability, and also that 3 months is too early to measure recovery after stroke 6 months is more appropriate. The researchers discussed emergency consent in detail, and their advisors suggested that most people would be happy with the emergency consent procedure for this study. They also would prefer a blinded study where participants do not know which treatment they receive.

Who can participate?
Patients most likely to benefit from the treatment - those within 4.5 hours of the start of stroke symptoms

What does the study involve?
Patients will be approached about the study in the emergency department as soon as the brain scan confirms bleeding in the brain. The patient will be asked if they want to take part in the study; if they agree, a computer will decide, akin to the toss of a coin, whether they get an injection of tranexamic acid into a vein, or whether they receive saltwater as a placebo. The researchers will use a rapid emergency consent process, in accordance with ethical guidelines. It will be decided by chance which treatment the participants receive and it will not be possible for the doctor or the patient to know if they receive the tranexamic acid or placebo as the treatment packs look identical. It will be one injection, and then normal standard care will be given. The researchers will also contact people at 6 months after their stroke to assess their recovery and quality of life.

What are the possible benefits and risks of participating?
Tranexamic acid may stop participants from having a further bleed and may help them recover from the stroke but this is not guaranteed. The results of the study will help the treatment of stroke patients in the future. A risk of seizures has been demonstrated with tranexamic acid use in cardiac surgery where high doses of TXA are used. The proposed dose for this study is well below the dose associated with increased seizure risk. A recent traumatic brain injury study demonstrated a reduced death rate in patients given tranexamic acid. A recent study also revealed no increased risk of thromboembolic events (blood clots).

Where is the study run from?
University of Nottingham (UK)

When is the study starting and how long is it expected to run for?
May 2021 to February 2028

Who is funding the study?
National Institute for Health Research (NIHR) (UK) and Programme Hospitalier de Recherche Clinique (PHRC) (France)

Who is the main contact?
Dr Tiffany Hamilton
tiffany.hamilton@nottingham.ac.uk

Contact information

Type(s)
Scientific

Contact name
Prof Nikola Sprigg

ORCID ID
https://orcid.org/0000-0002-5871-8168

Contact details
Stroke Trials Unit
Mental Health & Clinical Neurosciences
University of Nottingham
D Floor, South Block, Room 2106
Queens Medical Centre
Nottingham
United Kingdom
NG7 2UH
+44 (0)115 823 1778
nikola.sprigg@nottingham.ac.uk

Type(s)
Scientific

Contact name
Dr Tiffany Hamilton

Contact details
The Stroke Trials Unit
University of Nottingham
D Floor South Block
Queens Medical Centre
Nottingham
United Kingdom
NG7 2UH
+44 (0)115 8231060
tiffany.hamilton@nottingham.ac.uk

Additional identifiers

Clinical Trials Information System (CTIS)
2021-001050-62

Integrated Research Application System (IRAS)
297457

ClinicalTrials.gov (NCT)
Nil known

Protocol serial number
IRAS 297457, HTA - NIHR129917

Study information

Scientific Title
Tranexamic acid for hyperacute primary intracerebral haemorrhage (TICH-3)

Acronym
TICH-3

Study objectives
Does tranexamic acid (TXA) improve outcomes when given within 4.5 hours after intracerebral haemorrhage (ICH)?

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approved 17/11/2021, East Midlands - Nottingham 2 REC (Equinox House, City Link, Nottingham, NG2 4LA, UK; +44 (0)207 104 8169; Nottingham2.rec.nra.nhs.uk), ref: 21/EM/0243

Study design
Pragmatic phase III prospective blinded randomized placebo-controlled trial

Primary study design
Interventional

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Hyperacute primary intracerebral haemorrhage (stroke)

Interventions
Pragmatic phase III prospective blinded randomised placebo-controlled trial performed in two phases: a 30-month internal pilot phase with pre-specified progression criteria then the main phase. Using a pragmatic design with emergency consent processes, simple randomisation and minimal data collection will optimise enrolment and the blinded design will minimise bias.

Participants are randomised to receive intravenous TXA 2 g given as 1 g bolus in 100 ml normal saline 0.9% infusion over 10 min and 1 g infusion in 250 ml normal saline 0.9% over 8 hours or a placebo (normal saline 0.9%) administered by an identical regimen. Randomisation will be to TXA vs placebo in a 1:1 ratio.

Intervention Type
Drug

Phase
Phase III

Drug/device/biological/vaccine name(s)
Tranexamic acid

Primary outcome(s)
Death at 7 days, measured by the number of participants who have died by Day 7

Key secondary outcome(s))
1. Disability measured by modified Rankin Scale (mRS) at Day 180
2. Venous thromboembolism/ischaemic events/seizures measured by review of medical notes at Day 7
3. Quality of life measured by EQ-5D visual analogue score (VAS) at Day 180
4. Cognition measured by AD-8 at Day 180
5. Health economics (use of antihypertensive medication, Do Not Resuscitate orders, admission to intensive care, neurosurgical intervention, hospital length of stay and discharge disposition) measured by review of medical notes at Day 180

Completion date
01/02/2028

Eligibility

Key inclusion criteria
Adult patients with ICH confirmed on brain imaging within 4.5 hours of symptom onset

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Key exclusion criteria
Current participant exclusion criteria as of 01/03/2023:
1. Patient with a known indication for TXA treatment (e.g. traumatic brain injury)
2. Patient with contraindication for TXA treatment
3. Patient known to be taking therapeutic anticoagulation with warfarin or low molecular weight heparin at the time of enrolment. Patients taking direct oral anticoagulants can be included and are not excluded.
4. Massive ICH for which haemostatic treatment seems futile (This would ordinarily be when haematoma volume is estimated as larger than 60ml)
5. Severe coma (Glasgow Coma Scale <5)
6. Decision was already taken for palliative (end of life) care with the withdrawal of active treatment

Previous participant exclusion criteria:
1. Indication for TXA
2. Patient known to be taking anti-coagulation
3. Glasgow Coma Scale (GCS) <5
4. Estimated haematoma volume (HV) >60 ml
5. Palliative care

Date of first enrolment
23/03/2022

Date of final enrolment
01/08/2027

Locations

Countries of recruitment
United Kingdom

England

Scotland

Wales

Denmark

France

Georgia

Ireland

Italy

Malaysia

Spain

Sweden

Switzerland

Study participating centre
Luton & Dunstable University Hospital
Lewsey Rd
Luton
United Kingdom
LU4 0DZ

Study participating centre
South West Acute Hospital
124 Irvinestown Road
Enniskillen
United Kingdom
BT74 6DN

Study participating centre
Torbay Hospital
Newton Rd
Torquay
United Kingdom
TQ2 7AA

Study participating centre
King's College Hospital
Denmark Hill
Brixton
London
United Kingdom
SE5 9RS

Study participating centre
Morriston Hospital
Heol Maes Eglwys
Morriston
Swansea
United Kingdom
SA6 6NL

Study participating centre
Royal Derby Hospital
Derby
United Kingdom
DE22 3NE

Study participating centre
Yeovil Hospital
Higher Kingston
Yeovil
United Kingdom
BA21 4AT

Study participating centre
Royal Victoria Hospital
274 Grosvenor Road
Belfast
United Kingdom
BT12 6BA

Study participating centre
Northwick Park Hospital
Watford Road
Harrow
United Kingdom
HA1 3UJ

Study participating centre
Peterborough City Hospital
Edith Cavell Campus
Bretton Gate
Bretton
Peterborough

United Kingdom
PE3 9GZ

Study participating centre
Arrowe Park Hospital
Arrowe Park Road
Upton
Wirral
United Kingdom
CH49 5PE

Study participating centre
Salford Royal Hospital
Stott Lane
Salford
Manchester
United Kingdom
M6 8HD

Study participating centre
Southampton General Hospital
Tremona Road
Southampton
United Kingdom
SO16 6YD

Study participating centre
The Royal Victoria Infirmary
Queen Victoria Road
Newcastle-upon-Tyne
United Kingdom
NE1 4LP

Study participating centre
St George's Hospital
Blackshaw Road
London
United Kingdom
SW17 0QT

Study participating centre
Royal London Hospital
Whitechapel
London
United Kingdom
E1 1BB

Study participating centre
Royal Stoke University Hospital
Newcastle Road
Stoke-on-Trent
United Kingdom
ST4 6QG

Study participating centre
Victoria Hospital
Hayfield Road
Kirkcaldy
United Kingdom
KY2 5AH

Study participating centre
Musgrove Park Hospital
Parkfield Drive
Taunton
United Kingdom
TA1 5DA

Study participating centre
Royal Devon and Exeter Hospital
Barrack Road
Exeter
United Kingdom
EX2 5DW

Study participating centre
Gloucestershire Royal Hospital
Great Western Road

Gloucester
United Kingdom
GL1 3NN

Study participating centre
Royal infirmary of Edinburgh
51 Little France Crescent
Old Dalkeith Road
Edinburgh
United Kingdom
EH16 4SA

Study participating centre
Royal United Hospitals
Combe Park
Bath
United Kingdom
BA1 3NG

Study participating centre
West Suffolk Hospital
Hardwick Lane
Bury St. Edmunds
United Kingdom
IP33 2QZ

Study participating centre
Nottingham City Hospital
Hucknall Road
Nottingham
United Kingdom
NG5 1PB

Study participating centre
Craigavon Area Hospital
69 Lurgan Road
Portadown
United Kingdom
BT63 5QQ

Study participating centre
Watford General Hospital
Vicarage Road
Watford
United Kingdom
WD18 0HB

Study participating centre
Southmead Hospital
Bristol
United Kingdom
BS10 5NB

Study participating centre
Royal Hallamshire Hospital
Glossop Road
Sheffield
United Kingdom
S10 2JF

Study participating centre
The James Cook University Hospital
Marton Road
Middlesbrough
United Kingdom
TS4 3BW

Study participating centre
Leighton Hospital
Middlewich Road
Crewe
United Kingdom
CW1 4QJ

Study participating centre
Royal Preston Hospital
Sharoe Green Lane North
Fulwood

Preston
United Kingdom
PR2 9HT

Study participating centre
Northampton General Hospital
Cliftonville
Northampton
United Kingdom
NN1 5BD

Study participating centre
The Countess of Chester Hospital
Health Park
Chester
United Kingdom
CH2 1UL

Study participating centre
Glasgow Royal Infirmary
84 Castle Street
Glasgow
United Kingdom
G4 0SF

Study participating centre
Sunderland Royal Hospital
Kayll Road
Sunderland
United Kingdom
SR4 7TP

Study participating centre
Princess Royal University Hospital
Farnborough Common
Orpington
United Kingdom
BR6 8ND

Study participating centre
Bradford Royal Infirmary
Duckworth Lane
Bradford
United Kingdom
BD9 6RJ

Study participating centre
Southend Hospital
Prittlewell Chase
Westcliff-on-Sea
United Kingdom
SS0 0RY

Study participating centre
University College London Hospital
235 Euston Road
London
United Kingdom
NW1 2BU

Study participating centre
Aberdeen Royal Infirmary
Foresterhill
Aberdeen
United Kingdom
AB25 2ZN

Study participating centre
Kent and Canterbury Hospital
Ethelbert Rd
Canterbury
United Kingdom
CT1 3NG

Study participating centre
Charing Cross Hospital
Imperial College Healthcare NHS Trust
Fulham Palace Rd

London
United Kingdom
W6 8RF

Study participating centre
UKM Medical Centre
Jalan Yaacob Latif
Bandar Tun Razak
Kuala Lumpur
Malaysia
56000

Study participating centre
Hospital UiTM
Puncak Alam
Malaysia
42300

Study participating centre
Hospital UiTM
Jalan Pahang
Kuala Lumpur
Malaysia
50586

Study participating centre
Hospital Tengku Ampuan Rahimah
Jalan Langat
Klang
Malaysia
41200

Study participating centre
Hospital Seberang Jaya
Jalan Tun Hussein Onn
Pulau Pinang
Malaysia
13700

Study participating centre
Hospital Sultanah Nur Zahirah
Terengganu
Malaysia
20400

Study participating centre
Hospital Umum Sarawak
Kuching
Malaysia
93586

Study participating centre
Hospital Universiti Sains Malaysia
Jalan Raja Perempuan Zainab II
Kubang Kerian
Kota Bharu
Malaysia
16150

Study participating centre
Hospital Pengajar UPM
Persiaran Mardi - Upm
Serdang
Malaysia
43400

Study participating centre
Hospital Queen Elizabeth
13a Jalan Penampan
Kota Kinabalu
Malaysia
88200

Study participating centre
Hospital Queen Elizabeth II
Lorong Bersatu
Jalan Damai
Luyang Commercial Centre

Kota Kinabalu
Malaysia
88300

Study participating centre
Hospital Tuanku Jaafar
Jalan Rasah
Bukit Rasah
Seremban
Malaysia
70300

Study participating centre
Hospital Sultanah Bahiyah
Km 6, Jln Langgar
Bandar
Alor Setar
Malaysia
05460

Study participating centre
Hospital Sultanah Aminah
Jalan Persiaran Abu Bakar Sultan
Johor Bahru
Malaysia
80100

Study participating centre
Neurological Department of the First University Clinic of Tbilisi State Medical University
Dudamakari Street 4
Tbilisi
Georgia
0141

Study participating centre
PIneo Medical Ecosystem
Gorgasali Street 93
Tbilisi
Georgia
0114

Study participating centre
Emergency Neurological Clinic
Tsinandali Street 9
Tbilisi
Georgia
0144

Study participating centre
Hospital TIM
Tsinandali Street 9
Tbilisi
Georgia
0144

Study participating centre
Bispebjerg Hospital
Nielsine Nielsensvej 11A
Copenhagen
Denmark
DK2400

Study participating centre
University Hospital of Aarhus
Palle Juul-Jensens Boulevard 165
Aarhus
Denmark
DK8200

Study participating centre
University Hospital of Odense
J.B. Winsløws Vej 4
Odense
Denmark
DK5000

Study participating centre
Hospital University Vall d'Hebron
Hospital General Vall d'Hebron
Servei de Farmàcia, Unitat d'Assaigos Clínics (UAC), planta sòtan -1

Ps. Vall d'Hebron 119
Barcelona
Spain
08035

Study participating centre
Hospital de la Santa Creu i Sant Pau
Servei de Farmàcia, planta -2 bloque D
Carrer Sant Quintí 89
Barcelona
Spain
08025

Study participating centre
Hosp Univ de Girona Josep Trueta
Hospital Dr Josep Trueta de Girona
Servei de Farmàcia, Planta SS
Av. de França s/n
Girona
Spain
17007

Study participating centre
Hospital Univ Ramón y Cajal
Hospital Ramón y Cajal
Servicio de Farmacia, planta -3 derecha
Carretera de Colmenar km 9.1
Madrid
Spain
28034

Study participating centre
Complejo Hosp Univ A Coruña
Hospital Universitario de Coruña
Servicio de Farmacia, planta -1
As Xubias, 84
A Coruña
Spain
15006

Study participating centre

Hosp Univ de Valladolid
Hospital Clínico Universitario de Valladolid
Servicio de Farmacia, planta -2
Av. Ramón y Cajal, 3
Valladolid
Spain
47003

Study participating centre
Malkhaz Katsiashvili Multiprofile Emergency Medicine Center
2 Kvishkheti St
Gldani-Nadzaladevi district
Tbilisi
Georgia
0192

Study participating centre
Beaumount Hospital
P.O. Box 1297
Beaumont Road
Dublin
Ireland
D09 V2N0

Study participating centre
Cork University Hospital
Wilton
Cork
Ireland
T12 DC4A

Study participating centre
The Mater Misericordiae University Hospital
Eccles St
Dublin
Ireland
D07 R2WY

Study participating centre
St. James Hospital
James St

Saint James' (part of Phoenix Park)
Dublin
Ireland
D08 NHY1

Study participating centre
St Vincents University Hospital
Elm Park
Dublin
Ireland
D04 T6F4

Study participating centre
Tallaght University Hospital
The Meath Foundation
Tallaght
Dublin
Ireland
D24 NR04

Study participating centre
University Hospital Limerick
St Nessan's Rd
Dooradoyle
Limerick
Ireland
V94 F858

Study participating centre
University Hospital Waterford
Dunmore Road
Waterford
Ireland
X91 ER8E

Study participating centre
ASST di Mantova
Trada Lago Paiolo 10
Mantova
Italy
46100

Study participating centre
ASST Papa Giovanni XXIII
Piazza OMS 1,
Bergamo
Italy
24127

Study participating centre
Azienda Ospedaliera di Rilievo Nazionale Antonia Cardarelli
Via Comunale Guantai Ad Orsolone, 4
Napoli
Italy
80131

Study participating centre
Azienda Ospedaliera "G. Brotzu"
Piazzale Alessandro Ricchi
Selargius
Cagliari
Italy
09047

Study participating centre
Bresia Civili
Piazzale Spedali Civili, 1
Brescia
Italy
25123

Study participating centre
ASST Grande Ospedale Metropolitano Niguarda
Piazza dell'Ospedale Maggiore, 3
Milano
Italy
20162

Study participating centre

Alessandro Manzoni Hospital
Via Eremo, 9/11
Lecco
Italy
23900

Study participating centre
San Camillo Forlanini Hospital
Circonvallazione Gianicolense, 87
Rome
Italy
00152

Study participating centre
Ospedale di Gubbio e Gualdo Tadino
Largo Unità d'Italia, 1
Via Branca
Gubbio
Perugia
Italy
06024

Study participating centre
Ospedale Città di Castello
Via Luigi Angelini, 10
Castello
Italy
06012

Study participating centre
Daisy Hill Hospital
5 Hospital Road
Newry
United Kingdom
BT35 8DR

Study participating centre
Royal United Hospital
Combe Park

Bath
United Kingdom
BA1 3NG

Study participating centre
Queen Elizabeth Hospital
Queen Elizabeth Medical Centre
Edgbaston
Birmingham
United Kingdom
B15 2TH

Study participating centre
Royal Sussex County Hospital
Eastern Road
Brighton
United Kingdom
BN2 5BE

Study participating centre
Fairfield General Hospital
Rochdale Old Road
Bury
United Kingdom
BL9 7TD

Study participating centre
Addenbrookes Hospital
Hills Road
Cambridge
United Kingdom
CB2 0QQ

Study participating centre
Countess of Chester Hospital
Countess of Chester Health Park
Liverpool Road
Chester
United Kingdom
CH2 1UL

Study participating centre
Dorset County Hospital
Williams Avenue
Dorchester
United Kingdom
DT1 2JY

Study participating centre
Poole Hospital Bcsc
Poole Hospital
Longfleet Road
Poole
United Kingdom
BH15 2JB

Study participating centre
University Hospital of North Durham
University Hospital of Durham
Dryburn Hospital
North Road
Durham
United Kingdom
DH1 5TW

Study participating centre
Wycombe General Hospital
Queen Alexandra Road
High Wycombe
United Kingdom
HP11 2TT

Study participating centre
Leeds General Infirmary
Great George Street
Leeds
United Kingdom
LS1 3EX

Study participating centre

Royal Liverpool University Hospital NHS Trust
Royal Liverpool University Hospital
Prescot Street
Liverpool
United Kingdom
L7 8XP

Study participating centre
Leicester Royal Infirmary
Infirmary Square
Leicester
United Kingdom
LE1 5WW

Study participating centre
The National Hospital for Neurology and Neurosurgery
Queen Square
London
United Kingdom
WC1N 3BG

Study participating centre
Milton Keynes University Hospital
Standing Way
Eaglestone
Milton Keynes
United Kingdom
MK6 5LD

Study participating centre
Queen Elizabeth Hospital
Gayton Road
King's Lynn
United Kingdom
PE30 4ET

Study participating centre
Antrim Area Hospital
45 Bush Rd

Antrim
United Kingdom
BT41 2RL

Study participating centre
Altnagelvin Area Hospital
Glenshane Road
Londonderry
United Kingdom
BT47 6SB

Study participating centre
Northumbria Specialist Emergency Care Hospital
Northumbria Way
Cramlington
United Kingdom
NE23 6NZ

Study participating centre
Norfolk and Norwich University Hospital
Colney Lane
Colney
Norwich
United Kingdom
NR4 7UY

Study participating centre
Derriford Hospital
Derriford Road
Derriford
Plymouth
United Kingdom
PL6 8DH

Study participating centre
Royal Berkshire Hospital
Royal Berkshire Hospital
London Road
Reading
United Kingdom
RG1 5AN

Study participating centre
Queens Hospital
Rom Valley Way
Romford
United Kingdom
RM7 0AG

Study participating centre
Salisbury District Hospital
Odstock Road
Salisbury
United Kingdom
SP2 8BJ

Study participating centre
Ninewells Hospital
Ninewells Avenue
Dundee
United Kingdom
DD1 9SY

Study participating centre
Monklands District General Hospital
Monkscourt Avenue
Airdrie
United Kingdom
ML6 0JS

Study participating centre
University Hospital of North Tees Tatchell Centre
University Hospital of North Tees
Hardwick Road
Stockton-on-tees
United Kingdom
TS19 8PE

Study participating centre

Sunderland Royal Hospital
Kayll Road
Sunderland
United Kingdom
SR4 7TP

Study participating centre
Frimley Park Hospital Laboratory
Frimley Park Hospital
Portsmouth Road
Frimley
Camberley
United Kingdom
GU16 7UJ

Study participating centre
Great Western Hospital Laboratory
Great Western Hospital
Marlborough Road
Swindon
United Kingdom
SN3 6BB

Study participating centre
Bronglais General Hospital
Bronglais Hospital
Caradoc Road
Aberystwyth
United Kingdom
SY23 1ER

Study participating centre
York Teaching Hospital
Wigginton Road
York
United Kingdom
YO31 8HE

Study participating centre
Pinderfields Hospital
Aberford Road

Wakefield
United Kingdom
WF1 4DG

Study participating centre
Epsom Hospital
Epsom General Hospital
Dorking Road
Epsom
United Kingdom
KT18 7EG

Study participating centre
Lincoln County Hospital
Greetwell Road
Lincoln
United Kingdom
LN2 5QY

Study participating centre
New Cross Hospital
Wolverhampton Road
Heath Town
Wolverhampton
United Kingdom
WV10 0QP

Study participating centre
Basildon University Hospital
Nethermayne
Basildon
United Kingdom
SS16 5NL

Study participating centre
Cumberland Infirmary
Newtown Road
Carlisle
United Kingdom
CA2 7HY

Study participating centre
Royal Cornwall Hospital (treliske)
Treliske
Truro
United Kingdom
TR1 3LJ

Study participating centre
University Hospital Coventry
Clifford Bridge Road
Coventry
United Kingdom
CV2 2DX

Study participating centre
Darent Valley Hospital
Darenth Wood Road
Dartford
United Kingdom
DA2 8DA

Study participating centre
Doncaster Royal Infirmary
Armthorpe Road
Doncaster
United Kingdom
DN2 5LT

Study participating centre
Eastbourne District General Hospital
Kings Drive
Eastbourne
United Kingdom
BN21 2UD

Study participating centre
Ipswich Hospital
Heath Road
Ipswich

United Kingdom
IP4 5PD

Study participating centre
Hull Royal Infirmary
Anlaby Road
Hull
United Kingdom
HU3 2JZ

Study participating centre
Royal Alexandra Hospital
Marine Drive
Rhyl
United Kingdom
LL18 3AS

Study participating centre
King's Mill Hospital
Mansfield Rd
Sutton-in-Ashfield
United Kingdom
NG17 4JL

Study participating centre
Prince Philip Hospital
Bryngwynmawr
Dafen
Llanelli
United Kingdom
SA14 8QF

Study participating centre
Royal Hampshire County Hospital
Romsey Road
Winchester
United Kingdom
SO22 5DG

Study participating centre
LEPL The First University Clinic of Tbilisi State
LEPL First University Clinic Stroke
4, Gudamakari str.
Tbilisi
Georgia
0141

Study participating centre
UKM Medical Centre
Neurology Lab, Ground Floor
UKM Medical Centre
Tuanku Muhriz, Jalan Yaacob Latif
Bandar Tun Razak 56000, Cheras
Federal Territory Kuala Lumpur
Malaysia
56000

Study participating centre
Bispebjerg Hospital
Department of Neurology
Bispebjerg Hospital
Copenhagen
Denmark
Bispebjerg Bakke 23

Study participating centre
ASST di Mantova
Neurologia
ASST di Mantova
Strada Lago Paiolo, 10
Mantova
Italy
46100

Study participating centre
Insel Gruppe AG (Bern)
Stroke Center
Insel Gruppe AG
Inselspital
Freiburgstrasse, 8

Bern
Switzerland
3010

Study participating centre
Helsinki University Hospital
Stroke Research Unit
Haartmaninkatu 4 (P.O. Box 340)
Helsinki
Finland
FI-00029 HUS

Study participating centre
Hôpital Roger Salengro (Lille)
Service de Neurologie
et Pathologie Neurovasculaire
Hôpital Roger Salengro
Rue Emile Laine, Cedex
Lille
France
59037

Study participating centre
Uppsala University Hospital
Stroke Unit
Uppsala University Hospital
Akademiska sjukhuset
Sjukhusvägen
Uppsala
Sweden
751 85

Study participating centre
Hospital Universitari Vall d'Hebron
Unidad de Ictus, Serv Neurología
Hospital Universitari Vall d'Hebron
Passeig de la Vall d'Hebron, 119
Barcelona
Spain
08035

Study participating centre
Tallaght University Hospital
Stroke Unit
Tallaght
Dublin
Ireland
D24 NR0A

Study participating centre
Glan Clwd Hospital
Ysbyty Glan Clwydd
Bodelwyddan
Rhyl
United Kingdom
LL18 5UJ

Study participating centre
Klinik Hirslanden
Stroke Center
Klinik Hirslanden
Witellikerstrasse 40
Zürich
Switzerland
8032

Study participating centre
LTD Urgent Neurological Clinic Neurology
9, Tsinandali str
Tbilisi
Georgia
0144

Study participating centre
ASST Ovest Milanese
UOC Neurologia - Stroke Unit
ASST Ovest Milanese
Via Papa Giovanni Paolo II, 3
Leganano
Italy
20025

Study participating centre
Presidio Ospedale San Carlo
Neurologia e Stroke Unit
Presidio Ospedale San Carlo
ASST Santi Paolo e Carlo
Via Pio II, n. 3
Milano
Italy
20153

Study participating centre
Azienda USL Toscana Nord Ovest
U.O Neurologia
Ospedale delle Apuane
Azienda USL Toscana Nord Ovest
Via Enrico Mattei, 21
Massa
Italy
54100

Study participating centre
Hôpital Jean Minjoz
Département de Neurologie
Hôpital Jean Minjoz
CHU Besançon
3 Boulevard Fleming Cedex
Besançon
France
25030

Study participating centre
CHU Dijon Bourgogne
Service de Neurologie
CHU Dijon Bourgogne
14 Rue Paul Gaffarel
Dijon
France
21000

Study participating centre
CHU Lyon
Service de Neurologie Vasculaire
CHU Lyon, Hôpital Neurologique

59 Boulevard Pinel
Bron
Lyon
France
69500

Study participating centre
Hôpital Nord Laennec
Unité Neurovasculaire
Hôpital Nord Laennec, CHU Nantes
4ème étage aile ouest
Boulevard Jacques-Monod, Cedex 1
Nantes
France
44093

Study participating centre
Centre Hospitalier Sud Francilien
Service de Neurologie du Pr Smadja
Centre Hospitalier Sud Francilien
116 boulevard Jean Jaurès
Corbeil Essonnes
Paris
France
91100

Study participating centre
Hôpital Universitaire de la Pitié-Salpêtrière
Service des Urgences Cérébro-Vasculaires
Hôpital Universitaire
de la Pitié-Salpêtrière
184 Rue Faubourg Saint Antoine
Paris
France
75012

Study participating centre
Hôpital Lariboisière
Département de Neurologie
Hôpital Lariboisière APHP
2 Rue Ambroise Paré

Paris
France
75010

Study participating centre
Hôpital Pellegrin Bordeaux
Unité de Neurovasculaire
Hôpital Pellegrin
CHU Bordeaux
Place Amélie Raba Léon
Bordeaux
France
33000

Study participating centre
Centre Hospitalier SainteAnne
Département de Neurologie
Centre Hospitalier SainteAnne
GHU Paris Psychiatrie et Neurosciences
1 Rue Cabanis
Paris
France
75014

Study participating centre
Hôpital Foch
Service de Neurologie
et Unité Neurovasculaire
Hôpital Foch
40 Rue Worth, Cedex
Suresnes
France
92151

Study participating centre
Hôpital André Mignot
ervice de Neurologie
Hôpital André Mignot
Centre Hospitalier de Versailles
177 Rue de Versailles
Le Chesnay
France
78150

Study participating centre
CHU Poitiers
Service de Neurologie
CHU Poitiers
2 Rue de la Milétrie
Cedex
Poitiers
France
86021

Study participating centre
CHU Rouen
Service de Neurologie Vasculaire
CHU Rouen
1 Rue de Germont
Cedex
Rouen
France
76031

Study participating centre
Hôpital Pierre Paul Riquet
Service de Neurologie Vasculaire
Hôpital Pierre Paul Riquet
CHU Purpan
Place du Docteur Baylac
Toulouse
France
31059

Study participating centre
University Hospital of Wales
Heath Park
Cardiff
United Kingdom
CF14 4XW

Study participating centre
University Hospital Hairmyres
Eaglesham Road

East Kilbride
United Kingdom
G75 8RG

Study participating centre
Rigshospitalet
Department of Neurology
Rigshospitalet
Inge Lehmanns vej 8
Copenhagen
Denmark
DK-2100

Study participating centre
Presidio Ospedale San Carlo
Neurologia e Stroke Unit
Presidio Ospedale San Carlo
ASST Santi Paolo e Carlo
Via Pio II, n. 3
Milan
Italy
20153

Study participating centre
Aalborg University Hospital
Department of Neurology
Aalborg University Hospital
Reberbansgade
Aalborg
Denmark
9000

Study participating centre
Hospital de la Santa Creu i Sant Pau
Barcelona
Spain
08025

Sponsor information

Organisation
University of Nottingham

ROR
https://ror.org/01ee9ar58

Funder(s)

Funder type
Government

Funder Name
National Institute for Health 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

Funder Name
Programme Hospitalier de Recherche Clinique

Results and Publications

Individual participant data (IPD) sharing plan
An anonymised dataset, collected during the duration of the trial by the University of Nottingham, will be stored securely and in a password-protected database by the University of Nottingham. Individual anonymised participant data will be shared with the Virtual International Stroke Trials Archive (VISTA).

IPD sharing plan summary
Stored in repository

Study outputs

	Date	Date	Peer	Patient-

Output type	Details	created	added	reviewed?	facing?
HRA research summary			28/06/2023	No	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Protocol file	version 2.0	07/10/2022	16/05/2023	No	No
Protocol file	Protocol for the CTIS EU countries version 4.2	30/03/2023	16/05/2023	No	No
Study website	Study website	11/11/2025	11/11/2025	No	Yes