

University of Nottingham UK | CHINA | MALAYSIA



ISRCTN97695350

TRANEXAMIC ACID FOR INTRACEREBRAL HAEMORRHAGE: TICH-3 TRIAL

### ENROLLING INVESTIGATORS & EMERGENCY DEPARTMENT STAFF

Professor Nikola Sprigg and Brittany Dutton

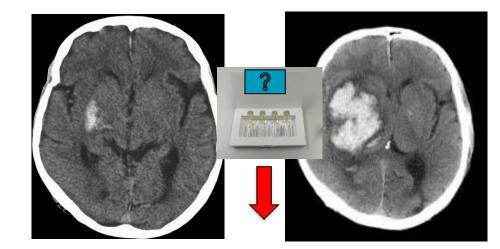
On behalf TICH-3 Trial Team

Final 3.0 23/04/2024



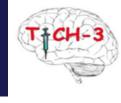
### Intracerebral haemorrhage can be devastating

- Haematoma expansion (HE) is common occurs early and is main cause of death
- Predictors time, haematoma volume, anticoagulation and antiplatelets



 Drugs that stop bleeding (such as tranexamic acid), are effective in other bleeding conditions and could potentially reduce haematoma expansion

TICH-3: does giving tranexamic acid early after ICH prevent haematoma expansion and reduce death and disability





## Tranexamic acid in other trials



- TXA acts through antifibrinolytic mechanisms
- CRASH-2 In patients with traumatic haemorrhage (including from head injuries), TXA significantly reduces death due to bleeding and all-cause mortality, with no increase in vascular occlusive events.
- Analysis of the CRASH-2 trial showed that because death due to bleeding occurred early after trauma, hyperacute administration of TXA was necessary for patients to receive any benefit.
- A meta-analysis of TXA in traumatic intracranial haemorrhage showed that it was associated with a significant reduction in subsequent intracranial bleeding.
- CRASH-3, reduced head injury related deaths in patients with traumatic brain injury, with early treatment more effective than later treatment.
- In TICH-2 (in 2325 patients with ICH within 8 hours of onset) TXA was safe, reduced haematoma expansion and early death. It did not significantly change outcome at 3 months
- Tranexamic acid is inexpensive, easy to administer, seems to be safe, and is widely available, so even a modest treatment effect could have an important impact on the global scale.

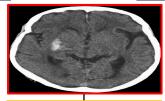
# PROTOCOL

Final version 3.1 25/04/2024



# **TICH-3 Synopsis**





Verbal permission

Randomise - open lowest numbered treatment pack



- 2 ampoules 2 ampoules 100ml NaCl 250ml NaCl 10 mins 8 hours **Recruitment Alert** Written consent **Primary outcome:** Mortality day 7 Secondary:

mRS day 180



- **Design:** Double blind randomised clinical trial, pragmatic streamlined design
- **Participants:** Inclusion: Adults (≥ 18 years) within < 4.5 hours of stroke onset
- **Exclusion:** Massive ICH (Glasgow Coma Scale < 5 or Haematoma Volume > 60ml)
- **Consent:** Rapid emergency process oral consent followed by written consent
- **Intervention:** Tranexamic 1g IV bolus added to 100ml sodium chloride over 10 mins then 1g added to 250ml sodium chloride infusion over 8hrs or saline by identical regime Given alongside standard ICH care, including BP lowering as per clinical guidelines<sup>1</sup>
- **Randomisation:** Simple use the lowest available treatment pack number
- **Primary Outcome:** Early death (day 7)
- **Secondary outcome:** Function-Shift analysis modified Rankin Scale day at 6 months
- Sample size: 5500 (3900 UK and 1900 Internationally)
- **Cost/funder:** UK NIHR plus others internationally
- **Duration:** 7.25 years Aim 5 yrs UK recruitment note STOP GO DECISION OCT 23



# TICH-3 Eligibility Criteria



### **Inclusion criteria**

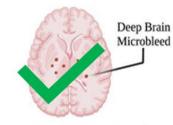
 Spontaneous ICH (confirmed on brain imaging) < 4.5 hours of onset

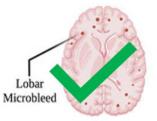
It is not necessary to exclude underlying vascular lesions – but if they are known please do not include.

IMP treatment should be started within the 4.5 hours inclusion window.

### **Exclusion criteria**

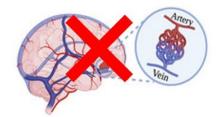
- Known indication for TXA treatment (e.g. traumatic brain injury) or contra-indication for TXA treatment (e.g. active seizures) in view of treating physician
- Patient known to be taking therapeutic anticoagulation with warfarin or low molecular weight heparin at time of enrolment. (DOAC is permitted)
- Massive ICH (usually when haematoma volume > 60ml HV – only estimation is needed (+/- 10%)
- Severe coma, Glasgow Coma Scale <5, palliative (end of life) care

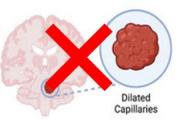




Hypertension Microangiopathy

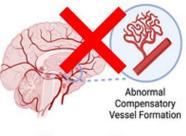
Cerebral Amyloid Angiopathy



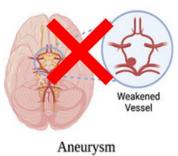


Arteriovenous Malformation

Cavernous Angioma

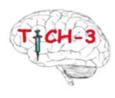


Moyamoya Disease





# Eligibility checklist (optional document)



	firm that I have been given a copy of the eligibility checklist (version 1.0 dated 23/11/202		
asse		3) and	l h
	ssed the participant as suitable using the below approved checklist.		
	Inclusion Criteria (protocol Final v2.0 07/10/2022)	Vac	
1	(all criteria must be yes for participant to be enrolled into TICH-3) Adult (18 years and over).	Yes	1
2	Clinical diagnosis of acute spontaneous ICH (confirmed on brain imaging).		+
3	Within 4.5 hours of symptom onset (When onset of symptoms are unknown patient	-	+
0	must be within 4.5 hours of symptom discovery and have no other exclusion criteria).		
_			_
	Exclusion Criteria (protocol Final v2.0 07/10/2022)	Yes	
	(Patients cannot be enrolled if 'YES' is ticked for any exclusion criteria)	Tes	ľ
1	Patient with a known indication for TXA treatment (e.g. traumatic brain injury). Patient with contraindication for TXA treatment (e.g. seizures or known active venous	-	⊢
2	thromboembolism).		
3	Patient known to be taking therapeutic anticoagulation with warfarin or low molecular	-	+
•	weight heparin at 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		t
	when haematoma volume is estimated as larger than 60ml).		
	Any recognised method for estimating haematoma volume is accepted, automated		
	software or ABC/2 calculation. If measurement is not possible in the time available a		
	simple single measurement of the largest haematoma diameter provides an accurate estimate, if the length measurement is greater than 5cm the haematoma volume is		
	likely to be greater than 60mls and the patient should be excluded.		
5	Severe coma (Glasgow Coma Scale <5).	-	t
6	Decision already taken for palliative (end of life) care with withdrawal of active	-	t
-	treatment.		L
		00	
E	gibility must be confirmed by a Medic*		
	medic does not have to be on the TICH-3 delegation log or GCP trained)		
me	medic does not have to be on the non-s delegation log of GOP trained)		
Nar	ne of Doctor confirming eligibility) (Date)		
	se document eligibility confirmation in the participant's medical notes (this form ca eir medical notes).	an be s	sto

Eligibility can be confirmed by a medic that is not on the TICH-3 delegation log. An appropriate research team member on the delegation will then take oral enrolment consent, this can be completed remotely.

There is an eligibility checklist on the TICH-3 documents page that can be used to document participants eligibility whether this was completed remotely or on site.

This is an optional document that is not required to be completed but is available if you wish to use this.

All processes off eligibility assessment and consent must be documented in the participants medical notes.



# **TICH-3: Patients taking DOACs**



### Which DOACs can the patients be on to be recruited for TICH 3?

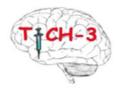
- Direct thrombin inhibitor Dabigatran
- Factor 10a inhibitor Apixaban, rivaroxaban, edoxaban
- If patients on DOAC with ICH are enrolled to TICH-3 can they still have reversal agents?
- Yes, all patients should receive standard care, and be treated as per local DOAC ICH guidelines and given anticoagulation reversal agent in accordance with local guidance i.e Idarucizumab or PCC.
  - Please ensure you document which reversal agents were given in eCRF
- Can a reversal agent/PCC be administered at the same time as TICH-3 treatment?
   Yes do not delay starting the TICH-3 trial treatment, reversal agent/PCC can be administered at the same time as the TICH-3 trial treatment as long as through separate IV cannula.
- Types of anticoagulation (blood thinners) that cannot be included:
- 1. warfarin exclude if INR shows levels high (>1.5). Cannot include unless the INR is sub therapeutic
- LWHM low molecular weight heparins at treatment dose eg for treating a DVT or PE. Note if LMWH is being used prophylactically at low dose to prevent DVT and PE these patients can be included in TICH-3

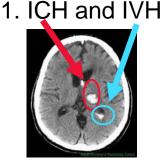
# Eligibility: Frequently asked questions

- If time of stroke onset is unknown? Patient can be enrolled if presenting within 4.5 hours of discovery if HV < 60mls on CT scan.</li>
- Can patients with intraventricular haemorrhage (IVH) be enrolled? Yes, so long as they have intracerebral haemorrhage, (fig 1) do not have other exclusion criteria. Isolated IVH (fig 2) should not be included.
- Can patient be enrolled if they are a candidate for neurosurgery? Yes, neurosurgery is not an exclusion UNLESS the patient is being given TXA as part of standard neurosurgical care
- Can patient be enrolled if they have a DNAR/from care home/already dependent? Yes, so long as they are still for active care and consent is obtained
- Can patients with recurrent bleeds be enrolled? Yes, it is likely that most patients will have an arteriopathy due to hypertension or cerebral amyloid angiopathy.
- Can a nurse consultant assess eligibility? Confirming eligibility is defined as a medical decision, so must be undertake by a medically qualified doctor under the clinical trials regulations.

### Final decision on eligibility rests with treating physician

For additional FAQs please see TICH-3 documents page <a href="https://stroke.nottingham.ac.uk/sif/docs/?sid=TICH-3">https://stroke.nottingham.ac.uk/sif/docs/?sid=TICH-3</a>





2. IVH only

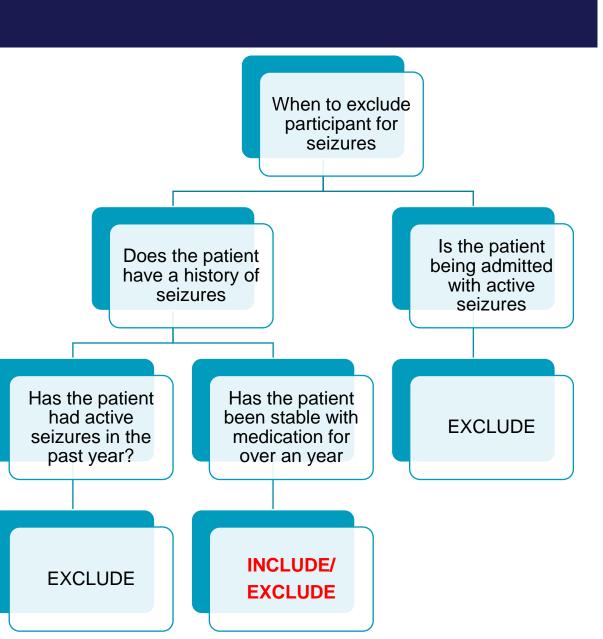




# **Eligibility: seizures**

- Eligibility for TICH 3 in patients with a history of seizures is at the discretion of the treating physician
- If you have an eligibility query please call the emergency phone number

+44 (0)7725 580 092 +44 (0)7736 843 592 +44 (0)7798 670 726 +44 (0)7810 540 604





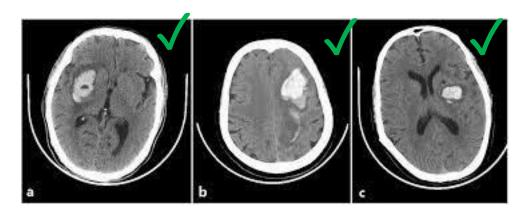


## Size matters – but estimates are ok!



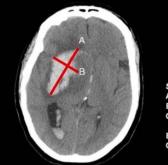
### Exclude patients with massive haematoma (usually > 60ml)

- 1. If CT scan uses automated haematoma volume software patient can be enrolled if HV not greater than 60mls (+/- 10%)
- 2. Calculate HV manually using TICH-3 HV=ABC/2 calculator on the website<sup>1</sup> or alternatives e.g. mdcalc app<sup>2</sup> (ignore 25 75% calculator and count all slices where ICH visable due to time critical nature)
- 3. If ABC/2 not possible: measure the maximum length of the haematoma. Exclude if max length A > 5cm
- Do not include IVH volume in calculation
- HV can be estimated by anyone trained to do so





### Formula for Estimating ICH Hematoma Volume



Select CT slice with largest ICH A = longest axis (cm) B = longest axis perpendicular to A (cm) C = # of slices x slice thickness (cm)

AxBxC

Estimated volume of spheroid Correlates well w/ planimetric CT analysi

aematoma volume calculator	
Estimated volume of largest haematoma	
View guide	
Maximum haematoma length 'A'	cm
Maximum haematoma width 'B' (up to 4 decimal places)	cm
Number of slices where haematoma visible	slices
Scan slice thickness (up to 3 decimal places)	mm

Please enter the individual components and then the calculated volume will be shown.

The <u>ABC/2 calculator</u> can be used to calculate haematoma volumes during eligibility checks, without needing to be logged in.



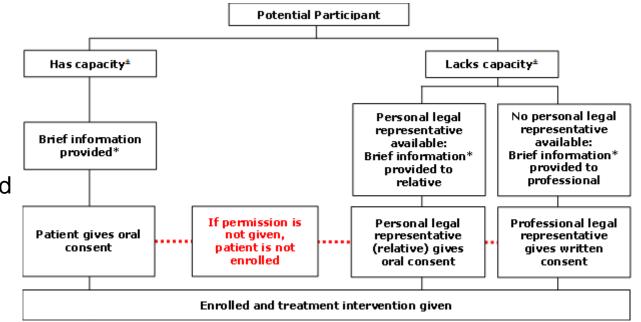
# **Emergency Consent Process**

### Rapid consent process, initial verbal consent

Full informed written consent to be obtained later after administration of IMP

### Hierarchy approach in UK

- 1. Patient has capacity gives oral consent
- 2. Patient does not have capacity relative or close friend likely to know patient wishes provides oral consent
- Patient does not have capacity and no relatives available – independent doctor provides written consent
- Oral consent can be given over the telephone and then follow-on written consent obtained when relative is on site
- A delegated doctor may assess the patient via telemedicine to obtain verbal consent.
- Medical record must document that the patient meets TICH-3 eligibility criteria and oral consent was given



 $\pm$  Assessment of capacity is the responsibility of the treating physician

### Members of research team taking consent must be appropriately trained and authorised on the TICH-3 deleagtion log

<u>If research team are not available participant can be consented by</u> a member of clinical team and documented via the eligibility checklist and enrolment form (SA\_06\_24)



### Professional legal representative consent by an independent doctor

#### Enrolment consent by independent doctor

Short Information Sheet and Consent form should be used (pictured to the right). In this scenario the professional legal representative enrolment consent is handwritten and then a followon written consent form is not required to be completed by the independent doctor. If the participant regains capacity or a relative becomes available, they should complete the written follow-on consent.

### Follow on written consent by independent doctor

The follow-on written consent form for professional legal representative should only be used if participant has capacity and consents for enrolment orally, then loses capacity and no relatives are contactable to provide the handwritten follow-on consent. If the participant regains capacity or a relative becomes available, they should complete the written follow-on consent.

### **Informing relatives**

The clinician at site has full responsibility for informing relatives of participant when professional legal representative consent has taken place. In event of a patient dying after being enrolled by a professional legal representative but before relatives can be contacted the clinical team should inform the relatives of the patient's involvement in the study and provide information about the study.

#### Name of Researcher: Name of Participant: I confirm that I have been given a copy of the Short Professional Legal Representative Information Sheet (Version 1.0 dated 3/11/2021) and I agree as professional Legal Representative on behalf of this stroke patient • The negligent will take part in the TICH-3 study and he nixed the study merilication

CTA ref: 03057/0074/001-0001

[Form to be printed on local headed paper

PROFESSIONAL LEGAL REPRESENTATIVE

SHORT INFORMATION SHEET AND CONSENT

(Draft Version 0.2 / Final Version 1.0: 03/11/2021)

- The patient will take part in the TICH-3 study and be given the study medication
- For their medical records to be accessed
   To be followed up at 6 months
- To be followed up at 6 mont
   For their GP to be informed

University of Nottingham

Title of Study: TICH-3

IRAS Project ID: 297457

- For their or to be informed
   For their contact details to be collected and used for the purpose of the study
- For their anonymised research data to be used in further research analysis about ICH.

I understand that they are free to withdraw from the study at any point without giving a reason.

For participants who are enrolled following agreement by a professional legal representative as soon as relatives are available or when the patient regains capacity, a detailed information sheet will be provided, and written consent sought for continuation in the trial.

Name of Person giving nominee consent	Date	Signature
Relationship to patient (please tick):	Healthcare Professional	
Name of Person taking consent	Date	Signature
Telemedicine used (please tick if Ye	25)	

3 copies: 1 for participant, 1 for the project notes and 1 for the medical notes

Professional (Legal Rep) Short Information Sheet and Consent - TICH-3 Draft v0.2 Final v1.0 3/11/2021

#### [Form to be printed on local headed paper]

You have been asked to act as a professional legal representative to consider if you think that the patient named above should take part in the TICH-3 study.

TICH-3 aims to assess whether the drug tranexamic acid reduces the risk of death and/or improves disability 6 months after stroke due to intracerebral haemorrhage (ICH).

Because intracerebral haemorrhage is an emergency and the potential benefits of the study treatment (tranexamic acid) are likely to be related to how soon after stroke the treatment is given, every minute counts. We need to decide about giving the treatment as quickly as possible. As the patient is not well enough to decide, and no relatives are immediately available you have been asked to decide on their behalf. You are able to make this decision in accordance with emergency consent procedures.

The patient has been identified because they have had a stroke caused by intracerebral haemorrhage - and they fit the requirements for this research project. At present they are not able to tell us whether to take part, so we are asking your opinion. If you do decide they would take part you will be given this information sheet to keep and be asked to sign a consent form. We are inviting approximately 5500 participants with intracerebral haemorrhage to take part from around the UK and worldwide.

Tranexamic acid is approved for use in emergency patients with bleeding after trauma, labour or surgery. The side effects from tranexamic acid are generally mild and can include diarrhoea, low blood pressure and diziness. Importantly, because the treatment works by stopping bleeding there is a chance it can cause a deep vein thrombosis (DVT) or Pulmonary embolism (PE). However, in previous studies in stroke patients, and in people with emergency bleeding due to trauma, involving many thousands of patients, tranexamic acid at the dose used in this study (2g) was safe and did not increase blood clots.

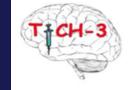
In this study the treatment (either tranexamic acid or saline) is administered as intravenous infusion through a venous cannula with a loading dose infusion over 10 minutes followed by an infusion over 8 hours.

During the next 7 days members of the clinical and research team will monitor the potential participants condition and record relevant information from their medical notes.

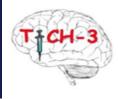
For participants who are enrolled following agreement by a professional legal representative as soon as relatives are available or when the patient regains capacity, a detailed information sheet will be provided, and written consent sought for continuation in the trial.

The participants' decision to withdraw would overrule the decision of either a professional or relative acting as the legal representative.

Professional (Legal Rep) Short Information Sheet and Consent - TICH-3 Draft v0.2 Final v1.0 3/11/2021



# Eligibility checklist and enrolment form FAQs (SA\_06\_24 and MA\_24\_24)



When can this method of consent be used? This is <u>ONLY</u> to be used when the delegated research team are not available to consent participants into TICH-3.

Who can take consent via this method? Site PI may delegate enrolment and administration of the IMP to appropriately trained members of the treating clinical team (not on TICH-3 delegation log, does not need to be GCP trained or have CV on file). There is no minimum grade doctor. Eligibility must be assessed by a medically qualified practitioner under the clinical trial regulations.

**How is this consent process documented?** This would be facilitated and documented by the use of an approved study synopsis, eligibility checklist and enrolment form which then would be stored in the participant's medical record.

What happens after this consent? Participant will be enrolled, and treatment administered by appropriate trained team members at the site. Full written consent would then be obtained as soon as practicable by a member of the local research team who is GCP trained and delegated the responsibility on the study delegation log.

Alternative text: screenshot of the eligibility checklist and enrolment form

TICH-3 EMERGENCY ENROLMENT SYNOPSIS You have been asked to consider if you think that the patient is eligible to take part in the TICH-3 trial. Please read below carefully then use the checklist above to assess if the patient is eligible. If eligible, ask verbal permiss If the patient is (Form to be printed on local headed paper) Background of TICH-3 is a rando and/or improves ELIGIBILITY CHECKLIST AND ENROLMENT FOR emergency and (Draft Version 1.1:25/04/2024) stroke the treatm Title of Study: TICH-3 RAS Project ID: 297457 as possible. Trea Participant name **Risks** of tranex nfirm that I have been given a copy of the eligibility checklist and verbal enrolment consent form and TICH-3 synopsis (Version 1.1 dated 25042034) and I have assessed the participant as suitable using the Tranexamic acid below approved checklist. The participant has been briefly asked, due to the time critical nature of the trial, pressure and dia If they wish to proceed with the study treatment as part of the TICH-3 trial, in which case they will receive previous studies the trial treatment and then a detailed information sheet will be provided and full written consent will be patients, tranexa ibtained afterwards by research trained member of staff on the study delegation log Tranexamic acid TICH-3 is performed in accordance with good clinical practice - if unsure please emergency numbers below Consent Inclusion/Exclusion Criteria p 0001 v3 1 25/04/202 ICH is an emerge solucion oriteria the patient or the Adults within 4.5 hours of onset of acute spontaneous intracerebral haemonhage ICH with emergency (confirmed on brain imaging). When onset of symptoms is unknown, patient must be within 4.5 Please explain the hours of symptom discovery and have no other exclusion oriteria. It is not necessary to exclude with ICH by redu rysmal - but if they are known that is not enrolled in the st xolusion oriteria medicine (a liqui Patient with a known indication for TXA treatment (e.g. traumatic brain injury) where TXA is to shown to improve be given as part of standard clinical care. to be safe. Howe Patient with known contraindication for TXA treatment (e.g. active seizures or known active cannot be sure a venous thromboembolism) Please explain Patient known to be taking therapeutic anticoagulation with warfarin or low molecular weight the trial is entire heparin at time of enrolment. Patients taking direct oral anticoapulants can be included. Massive ICH for which haemostatic treatment seems futile (This would ordinarily be when The participant is haematoma volume is estimated as larger than 60ml +(-10%) would not affect t Severe coma (Glasgow Coma Scale 45) or decision already taken for califative (end of life) Further informa care with withdrawal of active treatment confirm the patient satisfies the above inclusion and criteria (please circle): Yes I.N. A brief informatio be provided as objects to the ir not be enrolled Name of Doctor confirming eligibility Registration number Date Treatment: Eligibility must be confirmed by a Medically qualified practitioner If the participan administration of Decision to proceed with trial treatment administration g Brief information has been given and patient or relative had opportunity to ask quaster Full written consent to be obtained afterwards Safety: · Prescription of trial treatment to be written in accordance with prescribing and administration If you are conce stop the infusion) puide found within the treatment pack. Use the treatment pack with the lowest pack number or Treatment to be started within 4.5 hours of stroke onset and trial team notified following the report this to the idance within the pack There is an emer 07725 580 092 confirm the patient, relative or independent doctor gives p treatment (please circle): Yes i No Name of person giving permission if not pati Further guidan Eligibility checklis Please document eligibility confirmation and store this form in the participant's medical notes You must inform the research team within 24 hours should the patient experience an adverse reaction during or following administration of the treatment. 24 hours emergency helpline numbers: 07725 580 092 07736 843 592 07798 670 726 07810 540 604 Btv checklist and verbal enrolment consent TICH-3 - Draft v1.1 25/06/0104



# Streamlined recruitment process



### CT/MRI scan shows bleeding and is within 4.5 hours of symptom discovery

- 1. Confirm eligibility can be completed by any clinician they do not need to be on the TICH-3 delegation log
- 2. Take initial oral enrolment consent the process of eligibility and consent just needs to be documented in the medical record. We also allow remote recruitment over phone/telemedicine. If no relatives, then ask an independent doctor and use brief consent form to document.
  - Members of research team taking consent must be appropriately trained and authorised on the TICH-3 deleagtion log with code J applied (enrolment consent for CTIMPs)
  - If research team are not available participant can be consented by a member of clinical team and documented via the eligibility checklist and enrolment form (SA\_06\_24 & MA\_24\_24)
- **3. Lowest numbered TICH-3 treatment pack** is prescribed and administered by appropriately trained staff (they do not need to be on the delegation log or GCP trained)
- 4. Complete QR code recruitment alert this is within each treatment pack and can be completed by anyone (do not need to be on delegation log, no logins required to complete the form to alert the team a recruitment has taken place)
- 5. When the research team is next on site you will see the recruitment alert in your emails to know a participant was recruited and then you would find the participant to take the follow-on written consent, add participant to website and begin data entry

### PRAGMATIC METHODS ALLOWS FOR STREAMLINED RECRUITMENT OUT OF HOURS



### **Consent process flowchart**



Trained staff on TICH-3 delegation log available

Verbal consent obtained by trained staff on TICH-3 delegation log (code J)

No trained staff on delegation log available Clinical team use eligibility checklist and enrolment form Open next lowest numbered treatment pack to randomise.

> Prescribe and administer trial treatment.

> > 2 ampoules 2 ampoules + 100ml NaCl 250ml NaCl 10 mins 8 hours

QR code recruitment alert.



Document in medical notes eligibility and consent process. When research team next on site

Follow on written consent obtained by trained staff on TICH-3 delegation log (code Z) Add participant to TICH-3

Add a new participant

Upload consent form to secure vault.

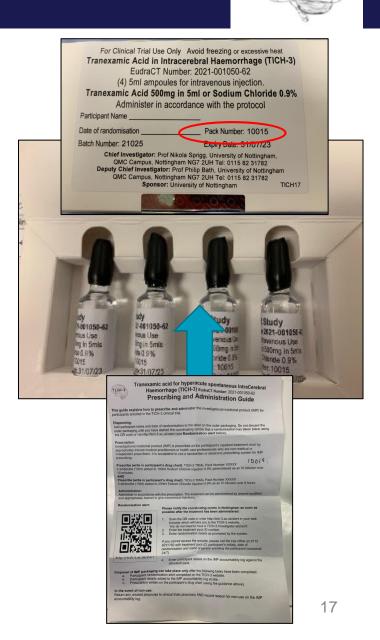
Collect contact details and add to secure vault.

Begin eCRF data collection.



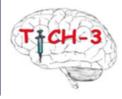
# Randomisation: open lowest pack number

- Blinded treatment packs will be randomly assigned to sites in blocks of 6 treatment packs
- TICH-3 will use simple randomisation
- After confirming eligibility and obtaining consent the investigator randomises the patient by selecting and opening the treatment pack with the lowest pack number.
- The prescribing and administration guide can be found inside each treatment pack.
- Due to emergency nature of trial randomisation is notified to the coordinating centre after the IMP has been administered by completing the randomisation alert (guidance for this is within the prescribing and administration guide).





# Prescribing and Administering the IMP



#### **Prescribing the IMP**

Investigational medicinal product (IMP) is prescribed on the participant's inpatient treatment chart by appropriately trained medical practitioners or health care professionals who are non-medical or independent prescribers. It is acceptable to use a handwritten or electronic prescribing system for IMP prescribing. *Do not need to be on delegation log or GCP trained to prescribe.* 

#### Prescribe (write in participants drug chart):

TICH-3 - TRIAL Pack Number XXXXX

TRANEXAMIC ACID OR PLACEBO

2 ampoules (10ml) added to 100ml Sodium Chloride Injection 0.9% administered as an IV infusion over 10 minutes.

AND

TICH-3 TRIAL Pack Number XXXXX

#### TRANEXAMIC ACID OR PLACEBO

2 ampoules (10ml) added to 250ml Sodium Chloride Injection 0.9% as an IV infusion over 8 hours.

#### Administering the IMP

Administer in accordance with the prescription. The treatment can be administered by anyone qualified and appropriately trained to give intravenous injections. *Do not need to be on delegation log or GCP trained to administer.* 



Tranexamic acid for hyperacute spontaneous IntraCerebral Haemorrhage (TICH-3) EudraCT Number: 2021-001050-62 EU CTIS registration number: 2022-500587-35-00

#### Prescribing and Administration Guide

This guide explains how to prescribe and administer the investigational medicinal product (IMP) for participants enrolled in the TICH-3 clinical trial.

#### Dispensing

Add participant name and date of randomisation to the label on the outer packaging. Do not discard the outer packaging until you have alerted the coordinating centre that a randomisation has taken place using the QR code or via http://tich-3.ac.uk/alert (see **Randomisation alert** below).

#### Prescription

Investigational medicinal product (IMP) is prescribed on the participant's inpatient treatment chart by appropriately trained medical practitioners or health care professionals who are non-medical or independent prescribers. It is acceptable to use a handwritten or electronic prescribing system for IMP prescribing.

Prescribe (write in participant's drug chart): TICH-3 TRIAL Pack Number XXXXX TRANEXAMIC ACID OR PLACEBO 2 ampoules (10ml) added to 100ml Sodium Chloride Injection 0.9% administered as an IV infusion over 10 minutes. AND

Prescribe (write in participant's drug chart): TICH-3 TRIAL Pack Number XXXXX TRANEXAMIC ACID OR PLACEBO 2 ampoules (10ml) added to 250ml Sodium Chloride Injection 0.9% as an IV infusion over 8 hours.

#### Administration

Administer in accordance with the prescription. The treatment can be administered by anyone qualified and appropriately trained to give intravenous injections.

Randomisation alert:



Please notify the coordinating centre in Nottingham as soon as possible after the treatment has been administered:

- Scan the QR code or enter http://tich-3.ac.uk/alert in your web browser which will take you to the TICH-3 website. You do not need to have a TICH-3 investigator account.
- 2. Enter the treatment pack ID number.

3. Enter randomisation details as prompted by the system. Note: If you cannot access the website, please call the trial office on 0115 8231782 with treatment pack ID, participant's initials, date of randomisation and name of person enrolling the participant (voicemail 24/7).

 Énter participant details on the IMP accountability log against the allocated pack.

Disposal of IMP packaging can take place only after the following tasks have been completed.

- a. Participant randomisation alert completed on the TICH-3 website.
- Participant details added to the IMP accountability log at site.
- c. Prescription written on the participant's drug chart (using the guidance above).

#### In the event of non-use:

Return any unused ampoules to clinical trials pharmacy AND record reason for non-use on the IMP accountability log.

TICH-3 Prescribing and Administration Guide - for inside treatment pack - Final v2.0 01.02.2023

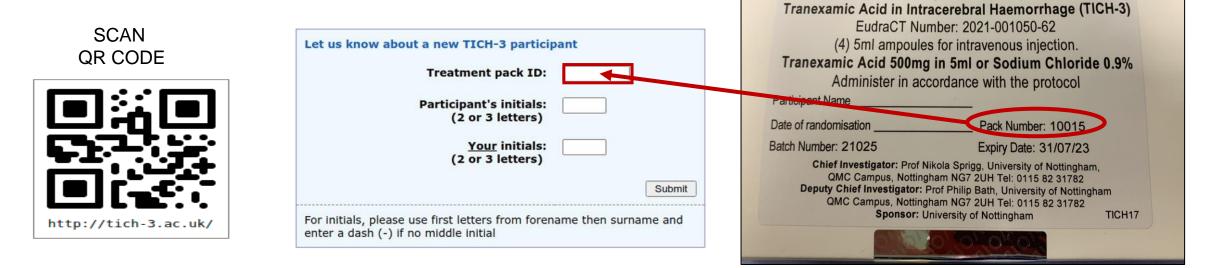


### **Randomisation Alert**



 Investigator will enter the treatment pack ID (pack number), participant initials and their own initials to alert the coordinating centre to a new randomisation.

For Clinical Trial Use Only. Avoid freezing or excessive heat



2. Investigator will then confirm that the participant was randomised at the hospital shown in the alert box.

Please confirm tha	t the TICH-3 participant was randomised at the hospital shown below.
Centre ID:	C001
City/name:	NOTTINGHAM, Nottingham DEMO Hospital
Country:	United Kingdom
	Confirm Cancel



## Standard of care for ICH

 All participants should receive standard care for ICH as per the local clinical pathway and guidelines. This is likely to include:

✓ Referral to stroke unit

 ✓ Blood pressure lowering as per clinical guidelines<sup>1</sup> target For patients with BP 150-220mmHg aim for BP 130-140mmg
 X Do not use the same cannula for study drug infusion and blood pressure lowering infusions need separate IV access line

aiming for a target of BP< 140mmHg as per clinical guidelines, supported by the recent INTERACT -3 Results <u>https://doi.org/10.1016/S0140-6736(23)00806-1</u>

The third Intensive Care Bundle with Blood Pressure	010
Reduction in Acute Cerebral Haemorrhage Trial (INTERACT3):	Cross
an international, stepped wedge cluster randomised	
controlled trial	

✓ Consideration of referral to neurosurgery or critical care if appropriate

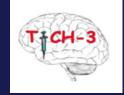
✓ Prophylaxis of venous thromboembolism with intermittent compression stockings

Please note tranexamic acid is not standard of care for spontaneous ICH

1: https://www.nice.org.uk/guidance/ng128/chapter/Recommendations



### **Broken vials:**



### Broken prior to randomisation e.g. upon receipt in pharmacy

 Inform the Nottingham coordinating centre and dispose of the pack(s) in accordance with WPD020 (Destruction of IMP).

### Broken after randomisation, before treatment:

Disregard this pack and use the lowest treatment pack ID that is available at your centre

### Broken during treatment i.e. Bolus given but infusion vial breaks:

- ✓ Administer as much drug as possible
- Record on day 7 form that participant does not receive all of the randomised treatment as per protocol and explain why
- x Do not open another treatment pack

Always record broken vials on the inventory or accountability log as appropriate





# **Good Clinical Practice (GCP)**



- TICH-3 is to be performed in line with all the principles of good clinical practice
   Investigators must adhere to the
- Investigators must adhere to the protocol at all times
- The safety and rights of the participant are paramount
- Training for investigators should be in proportion to their role within the trial and in accordance with their experience and skills
- The participant has the right to withdraw at any time without giving a reason, without it affecting their medical care
- Investigators eligible for NIHR GCP online training learn account

https://portal.nihr.ac.uk/register



 Sponsors SOPS can be found on the document page; see TA016 GCP Breach Reporting



# Safety Events, SARS and SUSARS



Please remember that investigators have a legal responsibility to report applicable SAEs to the chief investigator within 24 hours of being made aware of the event.

TXA has an established safety record – we only collect data on focused **safety outcomes** occurring within the **first 7 days or events suspected to be related to the IMP (SAR or SUSAR)**:

**Safety outcomes:** \*\*If a safety outcome (e.g. seizure) occurs during infusion, the infusion must be stopped immediately\*\*

1. Venous occlusive events: VTE (Pulmonary embolism, Deep vein thrombosis)

2.Ischaemic events (arterial thrombosis at any site, ischaemic stroke, transient ischaemic attack peripheral artery embolism, myocardial infarction, acute coronary syndrome)

3.Seizures

4.Fatal events up to discharge from hospital

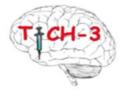
### Serious adverse reactions (SAR) or Suspected Unexpected Serious Adverse Reactions (SUSAR):

 All events suspected to be related to the IMP will be assessed for seriousness, expectedness and causality by local investigator. Section 4.8 of the SmPC, date of last revision 02 February 2021, will act as the Reference Safety Information: Tranexamic Acid <u>https://Tranexamic Acid\_SmPC\_20210202\_REVISION.pdf</u>

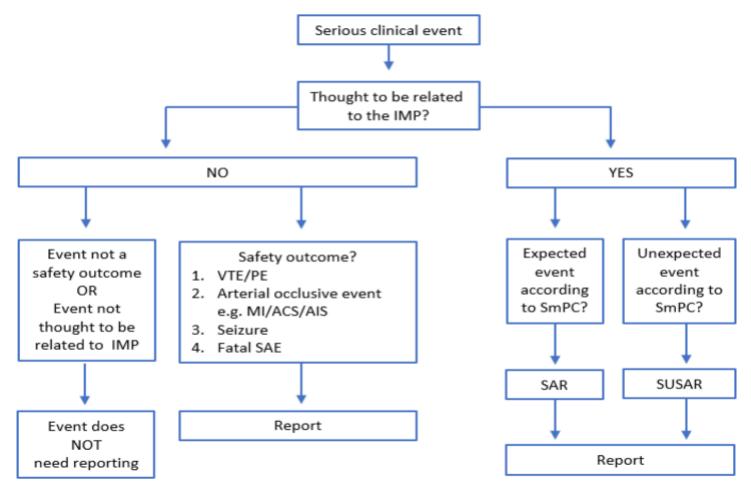
Serious Adverse Events (SAEs) that are not safety outcomes, SARS or SUSARS should not be reported E.g. Neurological deterioration, haematoma expansion, cerebral oedema that is NOT thought to be related to the IMP, and does not result in death does not need to be reported as an SAE 23



### **SAE Reporting Flowchart**



#### SAE Reporting Flowchart





# What to do in Case of Emergency

### Safety events during the infusion

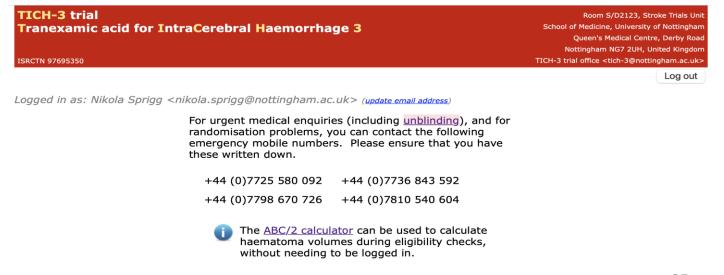
If seizure, thrombosis or arterial occlusion occurs during infusion, the infusion must be stopped immediately. This will be recorded as part of the trial documentation and safety monitoring.

### **Emergency Unblinding**

In general there should be no need to unblind the allocated treatment. If some contraindication to tranexamic acid develops after randomisation (e.g. clinical evidence of thrombosis), the trial treatment should simply be stopped. Unblinding should be done only in those rare cases when the doctor believes that clinical management depends importantly upon knowledge of whether the patient received TXA or placebo. In those few cases when urgent unblinding is considered necessary, the emergency telephone number should be telephoned, giving the name of the doctor authorising unblinding and the treatment pack number. The caller will then be told whether the patient received TXA or placebo.

#### Eligibility query or any other emergency query

Call the emergency contact number listed on TICH-3 website.







# **Co-enrolment with TICH-3**



Co-enrolment is permitted, and sponsor approved for the following University of Nottingham sponsored trials (contract with site not required)

- MAPS-2 (IC now up-to 24 hours to enrol)
- PhEAST (IC now 2 31 days)





Co-enrolment has been agreed with the following non-University of Nottingham sponsored CTIMPs (contract with site REQUIRED before co-enrolment is permitted)

- TRIDENT
- ENRICH-AF (MASTER CONTRACT NOW AGREED)





If you are taking part in either trial above, please let us know so your site (PI and R&I) can document they agree to co-enrolment at your site.

### NEW CO-ENROLMENT AGREEMENT IMPLEMENTED FOR NEW TRIALS, does not need localising at each site, the master agreement signed by the 2 trials CIs – please get in touch to discuss any co-enrolment.

Please let us know if there are any other trials you may wish to co-enrol with so that we can begin the contracts/agreement process.

### CO-ENROLMENT MUST NOT TAKE PLACE UNLESS THERE IS AN AGREEMENT IN PLACE

There is a co-enrolment log on the TICH-3 documents page <u>https://stroke.nottingham.ac.uk/sif/docs/?sid=TICH-3</u>



# **ACTION - DELEGATION LOG**

ТІСН-З

- Please use the self-referral form to create your account for the TICH-3 website after training has been completed, this also adds you to the online delegation log for PI approval: <u>http://tich-3.ac.uk/?ZSelfRef</u>
- Team members who could not attend live training can access training slides from TICH-3 website <u>https://stroke.nottingham.ac.uk/tich-</u> <u>3/docs/#UK\_site\_training</u>
  - There are 3 versions of the training slides
    - 1. Investigator training which gives a detailed description of the whole trial process, intended for the PI and research nurses/coordinators. There is also a video of this training.
    - 2. Enrolling investigator training this streamlined training is intended for team members who will only be taking enrolment consent i.e. consultants
    - 3. Pharmacy training this streamlined training is intended for members of pharmacy team
- A short 3 ½ minute video is available to introduce team members to the TICH-3 trial <u>http://tich-3.ac.uk/docs/#Videos</u>





https://stroke.nottingham.ac.uk/tich-3/?ZSelfRet



Form.

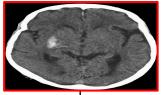
# If you are a medical trainee – we are the trial



#### NIHR PI associate scheme and join the TICH 3 team Get your GCP TICH-3 is registered for the Associate PI scheme, this is a great opportunity for doctors, nurses and other https://portal.nihr.ac.uk/register healthcare professionals to gain knowledge of what it means to deliver an NIHR portfolio trial. Would you like experience **Key points** in trials? A 6 month in-work training Join the opportunity providing practical experience for healthcare **TICH-3 team!** professionals starting their research Complete the career. Would you TICH-3 Receive a certificate endorsed by NIHR and Royal Colleges like you be a Pl in training to be the future Ideally you will apply to form the scheme 1 month before the site is added to your Are you working ready to open and begin recruitment in a hospital sites local where you see Engage with the TICH-3 TICH-3 online coordinating centre during the 6 acute ICH and month scheme (we will sign off part delegation log have not many of your checklist treatment options You can find more information here: NIHR Associate PI Scheme Website. You can register here: <u>NIHR Associate</u> <u>PI Scheme Applicant Registration</u>



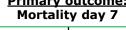
# TICH-3 Key Points



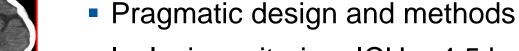
Verbal permission

Randomise - open lowest numbered treatment pack

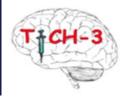


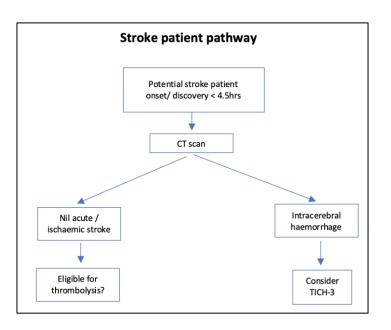


Secondary: mRS day 180



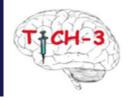
- Inclusion criteria ICH < 4.5 hours, Exclusion - massive ICH (low GCS < 5, HV > 60mls), contraindication to tranexamic acid (e.g. seizures)
- Emergency consent initially oral followed by written consent
- Simple randomisation use the lowest available treatment pack number
- QR code randomisation alert inform trial office of enrolment
- Safety monitoring safety events for 7 days, SAR and SUSAR Venous and arterial occlusive events and seizures
- Central postal/telephone follow up at 6 months







# University of Nottingham Trial Team



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### **Trial Coordinating Centre contact information:**



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TICH-3@nottingham.ac.uk



# University of Nottingham

UK | CHINA | MALAYSIA



### Any questions? TICH-3@nottingham.ac.uk

# Audit list of updates to training presentations



### Previous version 2.03 08/03/2024

- Added QR code for self-referral form
- Added IV bag image to flowchart
- Added additional information neurosurgery FAQ UNLESS the patient is being given TXA as part of standard neurosurgical care
- FAQs added note to see TICH-3 documents page for additional FAQs
- Added information new co-enrolment agreement process
   and currently have this agreed MARCH trial
- Added eligibility checklist slide

### This version 3.0 23/04/2024

- Added protocol slide with updated protocol version v3.1
   25/04/2024, removed protocol version from eligibility slide
- Added to Safety Events, SARS and SUSARS legal responsibility to inform CI within 24 hours of being aware event
- Edited Emergency Consent Process slide that person taking consent code J if research team or if not available medic can use eligibility checklist and enrolment form
- Removed consent FAQ slide as this is repeated elsewhere in presentation
- Slide Out of hours recruitment clarified members of research team must be delegated code J on delegation log, if research team not available a member of clinical team can take consent and document using the eligibility checklist and enrolment form. Combined streamlined process slide/out of hours slide/remote recruitment process slide.
- Added consent process flowchart
  - Added slide eligibility checklist and enrolment form FAQs (SA\_06\_24 and MA\_24\_24)