

TRANEXAMIC ACID FOR INTRACEREBRAL HAEMORRHAGE: TICH-3 TRIAL

WARD TRAINING

Professor Nikola Sprigg and Brittany Hare

On behalf TICH-3 Trial Team

Final v2.0 23/04/2024



Introduction

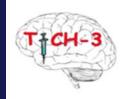


 TICH-3 is a double-blinded, randomised study recruiting patients with confirmed Intracerebral Haemorrhage (ICH)

- Participants must be randomised within 4.5 hours of stroke onset (or symptom discovery following wake-up)
- Participants will also receive usual Standard of Care e.g. blood pressure lowering treatment, DOAC reversal with PCC, referral to neurosurgery



Rationale

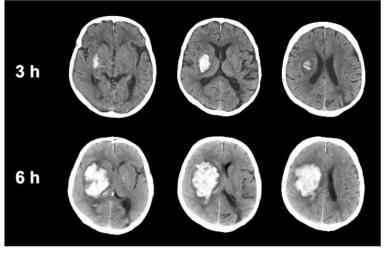


- 1.7 million strokes worldwide per year with a mortality of over 40%
- 10,000+ people suffered an Intracerebral Haemorrhage (ICH) last year in England
- There is no effective drug treatment to stop continued bleeding (haematoma growth) after ICH
- Tranexamic acid (TXA) reduces bleeding and death in other emergency bleeding conditions

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



Case courtesy of Dr Farzad Pirzad, Radiopaedia.org, rID: 9620



Bornes, Troy & Butcher, Ken. (2009). Management of Hypertension in the Acute Phase of Stroke. Current Hypertension Reviews. 5.

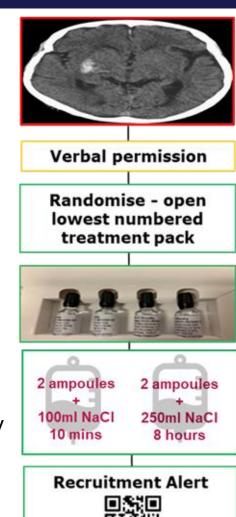


Streamlined recruitment process



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

- 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





TICH-3 Eligibility Criteria



Inclusion criteria

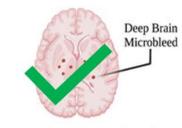
 Spontaneous ICH (confirmed on brain imaging) < 4.5 hours of onset

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

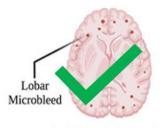
IMP treatment should be started within the 4.5 hours inclusion window.

Exclusion criteria

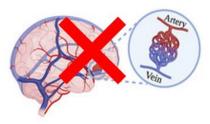
- Known indication for TXA treatment (e.g. traumatic brain injury) or contra-indication for TXA treatment (e.g. active seizures) in view of treating physician
- Patient known to be taking therapeutic anticoagulation with warfarin or low molecular weight heparin at time of enrolment. (DOAC is permitted)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



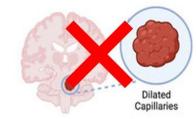
Hypertension Microangiopathy



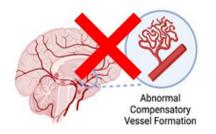
Cerebral Amyloid Angiopathy



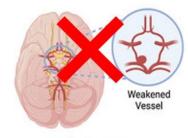
Arteriovenous Malformation



Cavernous Angioma



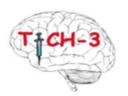
Moyamoya Disease



Aneurysm



Emergency Consent Process

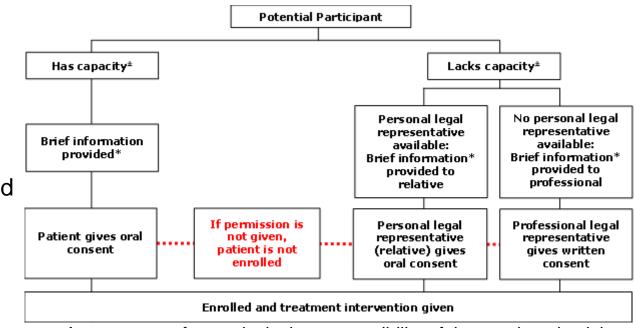


Rapid consent process, initial verbal consent

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
- 3. 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



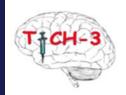
± Assessment of capacity is the responsibility of the treating physician

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

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)



Professional legal representative enrolment consent by an independent doctor



If patient does not have capacity to consent and no relatives are contactable then an independent doctor can act as professional legal representative for the patient.

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.

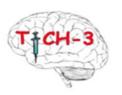
Informing relatives

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.

PROFESSIONAL LEGAL REPRESENTATIVE SHORT INFORMATION SHEET AND CONSENT	You have been asked to act as a professional legal representative to consider if you think 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
(Draft Version 0.2 / Final Version 1.0: 03/11/2021)	improves disability 6 months after stroke due to intracerebral haemorrhage (ICH).
Title of Study: TICH-3	Because intracerebral haemorrhage is an emergency and the potential benefits of the stu
IRAS Project ID: 297457 CTA ref: 03057/0074/001-0001	treatment (tranexamic acid) are likely to be related to how soon after stroke the treatmen given, every minute counts. We need to decide about giving the treatment as quickly
Name of Researcher:	possible. As the patient is not well enough to decide, and no relatives are immediately availa
Name of Participant:	you have been asked to decide on their behalf. You are able to make this decision in accordar
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 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 • For their GP 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. Professional nominee consent - to be completed if participant does not have capacity to consent	with emergency consent procedures. The patient has been identified because they have had a stroke caused by intracereb haemorrhage - and they fit the requirements for this research project. At present they are able to tell us whether to take part, so we are asking your opinion. If you do decide they we take part you will be given this information sheet to keep and be asked to sign a consent for We are inviting approximately 5500 participants with intracerebral haemorrhage to take p from around the UK and worldwide. Tranexamic acid is approved for use in emergency patients with bleeding after trauma, lab or surgery. The side effects from tranexamic acid are generally mild and can include diarrho low blood pressure and dizziness. Importantly, because the treatment works by stopp bleeding there is a chance it can cause a deep vein thrombosis (DVT) or Pulmonary embole (PE). However, in previous studies in stroke patients, and in people with emergency bleed due to trauma, involving many thousands of patients, tranexamic acid at the dose used in the study (2g) was safe and did not increase blood clots. In this study the treatment (either tranexamic acid or saline) is administered as intravenou infusion through a venous cannula with a loading dose infusion over 10 minutes followed by an infusion over 8 hours.
Name of Person giving Date Signature nominee consent	During the next 7 days members of the clinical and research team will monitor the poten participants condition and record relevant information from their medical notes.
Relationship to patient (please tick): Healthcare Professional Name of Person taking consent Date Signature	For participants who are enrolled following agreement by a professional legal representative soon as relatives are available or when the patient regains capacity, a detailed informat sheet will be provided, and written consent sought for continuation in the trial.
Telemedicine used (please tick if Yes)	The participants' decision to withdraw would overrule the decision of either a professional or relative acting as the legal representative.
Name of Witness if consent taken Date Signature	
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	Professional (Legal Rep) Short Information Sheet and Consent - TICH-3 Draft v0.2 Final v1.0 3/11/2021



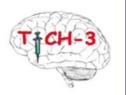
Enrolment consent when research team are not available



- We have received ethical approval to implement the eligibility checklist and enrolment form (SA_06_24 and MA_24_24)
- This form allow clinicians at the local site that are not on the TICH-3 delegation log and may not be GCP trained to be fully informed of the TICH-3 trial by reading the synopsis on the eligibility checklist and enrolment form and then using the checklist to assess their eligibility. If eligible the clinician will discuss with the potential participant and if consent is taken, they will be enrolled into the trial and will receive the trial treatment.
- All study materials, including protocol and related documents, will be available online and there will be a 24-hour telephone service, supported by medical consultant staff and trained coordinating centre research staff.
- Within each treatment pack is a prescribing and administration guide, the team member on site completes a recruitment alert (the team member does not need to be on the delegation log or have a log in for the TICH-3 website to complete) which emails all team members on the sites delegation log and the coordinating centre that a recruitment has taken place so that when the delegated research team are next on site they can follow up the participant as normal and obtain the follow on written consent.
- This approach is to ensure participants do not miss out on the opportunity to participate in the trial because they present when the research team are not present, particularly in smaller hospitals or outside working hours. This approach has the support of our stroke survivor group, and will be monitored closely, and any protocol violations reported to sponsor and the trial steering committee.
- We have worked very closely with our PPI group to develop and co-design this approach which we believe is proportional to risk benefit; tranexamic acid is a relatively low risk intervention, with an established safety profile, in the setting of a time critical medical emergency, ICH is a devastating condition with no effective drug treatment available.



Eligibility checklist and enrolment form FAQs (SA_06_24 and MA_24_24)



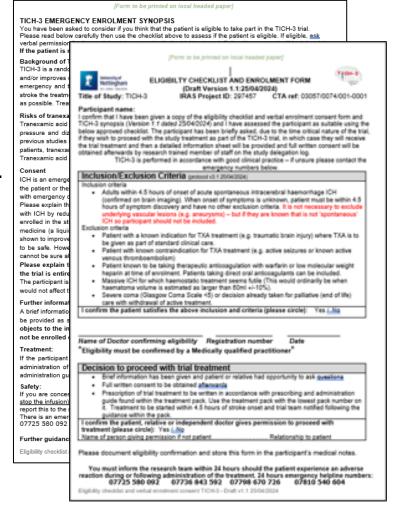
When can this method of consent be used? This is <u>ONLY</u> to be used when the delegated research team are not available to consent participants into TICH-3.

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





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, that can take enrolment consent, available

Clinical team use eligibility checklist and enrolment form Open next lowest numbered treatment pack to randomise.

Prescribe and administer trial treatment.



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

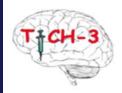
Upload consent form to secure vault.

Collect contact details and add to secure vault.

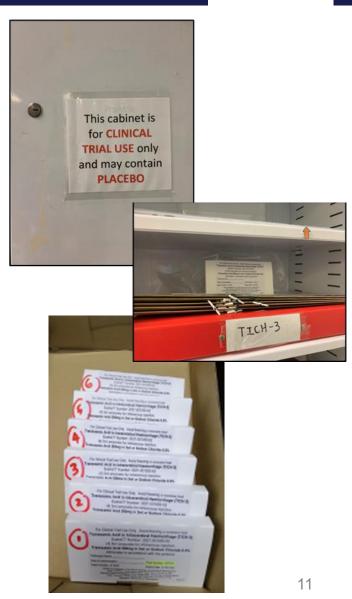
Begin eCRF data collection.



TICH-3 Treatment Packs



- Temperature monitoring is not required. The packs will be stored at room temperature and protected from excessive heat and freezing
- TICH-3 treatment packs contain 4 ampoules: Tranexamic Acid OR Sodium Chloride (placebo)
- The IMP is stored in a secure, limited access storage area, this could be in the A&E, stroke ward or thrombolysis bag
- Ensure all members of the local team are aware of where the IMP and related documents (consent forms/PIS) are stored
- Local site is responsible for the accountability and monitoring of the IMP
- Research coordinators will carry out checks monthly to ensure all treatment packs are sealed and accounted for
- TICH-3 drug should <u>NEVER</u> be given to patients that are not enrolled in to the TICH-3 trial
- To randomise open the next lowest numbered treatment pack





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: 2021-001050-82

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.

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).

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

Prescribe (write in participant's drug chart): TICH-3 TRIAL Pack Number XXXXX

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

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

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:

- 1. 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.

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

4. Enter participant details on the IMP accountability log against the

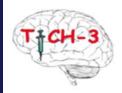
Disposal of IMP packaging can take place only after the following tasks have been completed;

- 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).

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

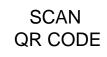


Randomisation Alert

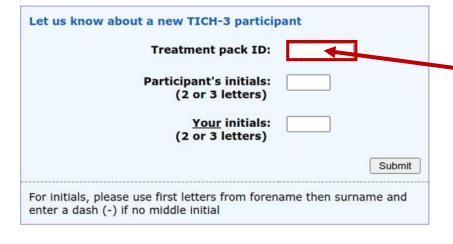


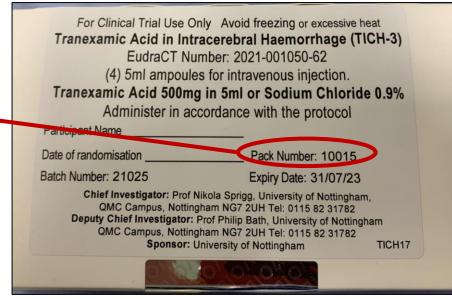
1. Enter the treatment pack ID (pack number), participant initials and their own initials to alert the coordinating

centre to a new randomisation.









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





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 WPD (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



Standard of care for ICH – ABC ICH bundle of care

- All participants should receive standard care for ICH as per the local clinical pathway and guidelines. This is likely to include referral to a stroke unit and components of ABC-ICH
- ✓ Anticoagulation reversal
- ✓ Blood pressure lowering as per clinical guidelines¹ 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 https://doi.org/10.1016/S0140-6736(23)00806-1

The third Intensive Care Bundle with Blood Pressure
Reduction in Acute Cerebral Haemorrhage Trial (INTERACT3):
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



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.

- Try to contact the clinician that enrolled the patient if available
- If TICH-3 trained investigators are not available, the emergency numbers should be used for further guidance. Please make sure these numbers are noted down with the TICH-3 treatment packs for if required in an emergency.

For urgent medical enquiries (including unblinding), and for randomisation problems, you can contact the following emergency mobile numbers. Please ensure that you have these written down.

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+44 (0)7725 580 092
                     +44 (0)7736 843 592
+44 (0)7798 670 726
                     +44 (0)7810 540 604
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For non-emergency queries the TICH-3 office can also be contacted on 0115 823 1782 between 8am and 5pm Monday – Friday



Co-enrolment with TICH-3



We are open to co-enrolment however we need to have a co-enrolment agreement in place with other interventional studies before co-enrolment is permitted.

There is a co-enrolment log on the TICH-3 documents page, please check this to review if co-enrolment with the respective trial is permitted

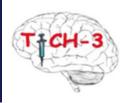
https://stroke.nottingham.ac.uk/sif/docs/?sid=TICH-3

If the trial is not listed on listed please contact us so we can start the process to get a co-enrolment agreement in place.

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



Further Information and Getting Involved



- The NIHR provides free Good Clinical Practice training and further information
- You can self-register using your NHS email via the this link: https://portal.nihr.ac.uk/register?app=LMS
- The TICH-3 documents page provides further guidance documents https://stroke.nottingham.ac.uk/sif/docs/?sid=TICH-3
- Contact your local Stroke Research Team if you are interested in becoming a TICH-3 investigator



University of Nottingham Trial Team



Name	Role	Contact Information
Brittany Hare	Clinical Trials Manager (UK Site Recruitment)	E: brittany.hare@nottingham.ac.uk
Jodie Newham	Clinical Trials Manager (International Site Recruitment)	E: jodie.newham2@nottingham.ac.uk
Solomon Adegbola	Follow Up Coordinator	E: solomon.adegbola@nottingham.ac.uk
Oliver Matias	Follow Up Coordinator	E: oliver.matias@nottingham.ac.uk
Christopher Cheung	Research Coordinator	E: christopher.cheung@nottingham.ac.uk
Kennedy Cadman	Research Coordinator	E: kennedy.cadman@nottingham.ac.uk
Chaamanti Menon	Trial Medic	E: chaamanti.menon@nottingham.ac.uk
Tiffany Hamilton	Senior Trial Manager	E: tiffany.hamilton@nottingham.ac.uk
Nikola Sprigg	Chief Investigator	E: nikola.sprigg@nottingham.ac.uk

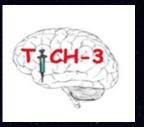
Trial Coordinating Centre contact information:







University of Nottingham UK | CHINA | MALAYSIA



THANK YOU!

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



Audit list of updates to training presentations



Previous version 1.1 08/03/2024

Added information new co-enrolment agreement process

Previous version 2.2 23/04/2024

- 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.
- 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
- Added eligibility checklist and enrolment form slide and FAQ slide
- Added out of hours recruitment slide

This version 2.1 17/12/2024

- •Updated SAE review for local PI that now is electronic
- •Updated co-enrolment slide, removing specific trial details and to refer to the log so that the training slides don't have to be updated every time a co-enrolment agreement is fully executed
- Updated contact details