

Tranexamic acid for the treatment of gastrointestinal bleeding: an international randomised, double blind placebo controlled trial

RATIONALE AND OVERVIEW

Gastrointestinal haemorrhage

- A common emergency
- Important cause of mortality and morbidity
- Case fatality is high (10–20% in the UK)



Rockall TA et al. BMJ, 1995. 311(6999): p. 222-6.
Williams JG et al. Gut, 2007. 56 Suppl 1: p. 1-113.

Fibrinolysis & Tranexamic Acid (TXA)



- At the site of damaged blood vessel, a fibrin blood clot forms
- Plasmin can impair clot stability and worsen bleeding
- TXA inhibits plasmin and reduces bleeding



TXA use in surgery

TXA reduces bleeding in surgery



Ker et al. BMJ 2012; 344:e3054

CRASH-2 trial results

TXA reduces death due to bleeding in trauma patients



The CRASH-2 Collaborators. The Lancet. 2010; 376(9734):23-32

TXA in upper GI bleeding

TXA may reduce death in GI bleeding but the quality of the trials is poor



Risk ratio, M-H, Fixed, 95% Cl

Manno D et al. BMJ 2014; 348:g1421

TXA in upper GI bleeding (2)

Trials are too small to assess the effect of TXA on thromboembolic events



Rationale for HALT-IT



- GI bleeding is an important cause of death
- TXA reduces bleeding in surgery
- TXA reduces death due to bleeding in trauma patients
- TXA may reduce deaths in GI bleeding but the evidence is poor
- TXA could reduce death and morbidity in GI bleeding



To quantify the effect of TXA on mortality and morbidity

Primary outcome: death in hospital within 28 days of randomisation (cause-specific mortality will also be recorded)

Secondary outcomes:

- Death from haemorrhage
- Re-bleeding
- Need for surgery or radiological intervention
- Blood product transfusion
- Thromboembolic events
- Other adverse medical events
- Patient's selfcare capacity
- Days spent in ICU or HDU
- Patient status (death, hospital readmission) at 12 months*

Study characteristics

Trial design: randomised, double blind, placebo controlled

- Target sample size: 12,000 adults with acute significant upper or lower GI bleeding
- Where? Worldwide



Before the trial starts

- A completed Hospital & Principal Investigator CV Form
- GCP training certificate(s)
- Approval of your hospital (if required)
- Ethics Approval (local and/or national)
- Ministry of Public Health approval (if applicable)
- > A signed Principal Investigator Agreement
- A copy of the approved Patient Information Sheet & Consent form (if different from the protocol sent to you)

Good Clinical Practice (GCP)

Good Clinical Practice (GCP) is an international standard for designing, conducting, recording and reporting trials that involve the participation of human subjects.

- Free online training via our website
- All staff should complete training before the study starts at your hospital



Create a trial team

Provide information and training to all team members Identify people to be responsible for specific trial processes – they must be interested in the trial

Nominate someone to be responsible in your absence



Roles may include:

- principal investigator
- sub-investigator
- data collection
- study coordinator

Every specialty should be represented:

- emergency medicine
- gastroenterology
- intensive care
- general surgery
- nurses
- clerical staff
- pharmacy
- managers
- administrators

Overview

ELIGIBILITY (data collected on entry form)

Adults with significant acute upper or lower gastrointestinal bleeding
 Responsible clinician is substantially uncertain as to the appropriateness of tranexamic acid in a patient



All clinically indicated treatment is given in addition to trial enrolment

Adverse events are reported up to day 28

If prior consent waiver used, consent from patient or relative required after emergency is over

Consent

- Significant acute GI bleeding is an emergency and the priority is to provide appropriate emergency care.
- Eligible patients have a life threatening condition. Their physical, mental and emotional state may be affected by their condition.
- Consent procedures need to consider these factors.



Entry form

1. Country								
2. Hospital code (in your Study File)	0							
ABOUT THE PATIENT (please ensure all in)	formation below	v is containe	d in the me	dical records)				
3. Patient's initials	first		last					
4. Sex (circle)	MALE		Female					
5. Do you know the date of birth? (orde)	YES	day mar	th year	NO – appro	oximate age	years		
6. Time since onset of GI bleed symptoms	hours	in rele	tion to THIS ac	ute episode only				
7. Suspected location of GI bleed (circle one)	UPPER		LOWER					
8. Haematemesis or coffee-ground vomitus (circle)	YES		NO	Also circle YES if presence of blood in nasogastric aspirate				
9. Melaena or fresh blood per rectum (circle)	YES		NO	Also circle YES (foccult or gross blood present on rectal examination				
10. Suspected variceal bleed? (circle)	YES		NO					
11. Systolic blood pressure	mmHg	Most	Most recent measurement prior to randomisation					
12. Heart rate	beats per min		Most recent measurement prior to randomisation					
13. Signs of shock present? (circle)	YES		NO	Shock assessment based on clinical signs (eg lav BP, tachycordia, faking wine output) that require intervention (eg intravenous fluids)				
14. Suspected current active bleeding? (circle)	YES		NO	Clinical judgement after considering history, si and symptoms				
15. Other co-morbidities? (circle all that apply)	CARDIOVASCULAR	RESPRATORS	LIVER	RENAL	MAUGNANCY	OTHER MAJOR CO-MORBIDITY		
16. On anti-coagulant therapy? (circle)	YES		NO	UNKNOW	N			
17. Emergency admission? <i>teirclei</i>	YES		NO	if patient already hospitalised, circle 'No'				

18. Eligible? (orde)		۷	ES		NO do not randomise, record an screening k			
19. Consent for entry obtained from (circle)	Waiver		RELATIVE	OTHER REPRESENTATIVE	PATIENT			
20. Treatment pack number Take lowest available number treatment pack	BOX			РАСК				
21. Date of randomisation	d	kay :	manth	year				
22. Time of randomisation (24-hour clock)	he	ours	minutes					
23. a) Name of person randomising patient		first	name	liast mar	last-name			
b) Signature								
PLEASE SEND THESE DATA TO THE COORDINA	TING CENTR	E IMMEDIA	TELY AFTER RAN	DOMISATION - SEE GUIDAN	ICE OVERLEAF			
Protocol Code:		Page 1 of 2	1	Draft Vo	arsion 0.1c Entry P			

One page only

- Complete questions 1–18 to assess eligibility
- If eligible, follow appropriate consent process
 – complete 19

RANDOMISE: Use next lowest available pack number STRICT NUMERICAL ORDER

Randomisation

- Use next lowest available pack number
- Record on Randomisation log
- Record pack used on Drug Accountability Log



Entry form and Randomisation

RANDOMISATION INFORMATION

(fully eligible if adult, significant upper or lower GI bleed, AND uncertainty about the use of an antifibrInolytic in that particular patient)

18. Eligible? (circle)		Y	ES		do not i	N(andomise, rec		ning log
19. Consent for entry obtained from (circle)	WAIVER		RELATIVE		OTHER REPRESENTATIVE		Рат	IENT
20. Treatment pack number Take lowest available number treatment pack	вох					РАСК		
21. Date of randomisation	d	ay	ma	onth	ye	ear		
22. Time of randomisation (24-hour clock)	ho	urs	min	utes				
23. a) Name of person randomising patient		first name				last n	ame	
b) Signature								

Use next lowest available pack number

Record on Randomisation log

Record pack used on Drug Accountability Log

Dose

Treatment	Dose TXA or placebo
Loading	1 gram / 10 minutes (IV infusion)
Maintenance	3 gram / 24 hours (IV infusion)



TRANEXAMIC ACID / PLACEBO IS AN ADDITIONAL TREATMENT TO THE ROUTINE MANAGEMENT OF GI BLEEDING

How to give the trial treatment

ALL AMPOULES ARE IDENTICAL AND CONTAIN 500mg OF EITHER TRANEXAMIC ACID OR PLACEBO

LOADING DOSE

2 ampoules over 10 minutes Give immediately after randomisation PRESCRIBE: "HALT-IT Trial (1 gram of tranexamic acid/placebo) over 10 minutes"

Draw up 10mL (2 ampoules) of tranexamic acid / placebo and add to 100 mL bag of Sodium Chloride 0.9% (provided) and infuse over 10 minutes.

MAINTENANCE DOSE

<u>6 ampoules over 24 hours</u> **Start immediately after completion of loading dose** PRESCRIBE: "HALT-IT Trial (3 grams of tranexamic acid / placebo) in 1000 mL sodium chloride 0.9% or any isotonic intravenous solution. Infuse at 42 mL/hour"

Draw up 30 mL (6 ampoules) of TXA/placebo and add to 1000 mL sodium chloride 0.9% or any isotonic intravenous solution and infuse over about 24 hours.

Outcome form

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	death	(1.1.4 Mar. 1.1.4 Mar.			m the randomising hos	pital, I		$ \square $
L. HOSPITAL	death	i în nospital	OF 28 08	ys after f	andomisation, whichev 8. BLOOD PRODUCTS T			
a) Country	22			2	a) Were blood products trai		YES	NO
	22			34	b) Units whole blood/red ce		16	OH Inte
b) Hospital code				3	c) Frozen plasma (part unit			vert
PATIENT DET	AILS				 d) Platelets (part unit = 1 unit) 			ann
a) Initials		End		lant				ann
b) Age at entry				19	9. MANAGEMENT (if no	2010 C 10 C 10 C		
c) Written consen	t obtained from	n _{YES}	8	NO	a) Days in Intensive Care Un			stay
patient or repre	esentative?	T C3		NO	b) Days in High Dependency	Unit (HDU)		days
d) If no written consent, give re	ason				10. COMPLICATIONS (c		line)	2
an manufal bacas	and the second			128	a) Re-bleeding (up to point		YES	NO
3.1 Death in hos	and the second se	nniete below 14	na comelate	2 21	i) If yes, number of re-bleed	ling episodes		
a) Date of death	predi (i) yes con	ipiece beauw - If	no complete	a.41	ii) Date of episode 1			
224000000000000000000000000000000000000			1000	000	Date of episode 2			0.00
b) Time of death (2	24-hr clock)	hears	/m/outer			da.	mm	Lbox.
c) Main cause	□Haemorrha	Construction 19, 23	Aalignancy		Date of episode 3	66	mm	400
of death (tick one	CONSIGNORS (2017)	l infarction 🗆 P				isodes to be recorded on	1 - 247 B75 - 4	50 5750 01
option only)	Stroke Other (designation)	□ F cribe, 1 diagnosi	ulmonary e	mbolism	b) Deep vein thrombosis		YES	NO
	Liother (dest	ande, i diagnosi	s orny)		c) Pulmonary embolism		YES	NO
3.2 Patient alive	lif ves complete	one section hele	w - if an m	malete 3 1	d) Stroke		YES	NO
a) Discharged from		Le section dele	11020		e) Myocardial infarction		YES	NO
Date)	New York Constraints	44	rever	999	f) Other significant cardiac e	event	YES	NO
b) Still in hospital a Date)	at day 28?			199 199	g) Sepsis		YES	NO
			1000	1000	h) Pneumonia		YES	NO
. PROCEDURES					i) Respiratory failure		YES	NO
a) Diagnostic endo			YES	NO	j) Liver failure		YES	NO
b) Therapeutic end			YES	NO	k) Renal failure		YES	NO
c) Diagnostic radio			YES	NO	I) Seizures	datase stress -	YES	NO
d) Therapeutic rad		aure	YES	NO	Any complications not liste an Adverse Event Reporting		as per prot	ocol usin
e) Surgical interve	ntion		YES	NO	The second s			
5. PRIMARY CA	USE OF BLEE	D (tick one optic	on only)	18	11. PATIENT'S SELF CAI (circle one option on each line)	RE CAPACITY	INDEPE	NDENT?
UPPER GI	BLEED	Low	ER GI BLEET	D	a) Bathing (sponge both, tu	b bath, or shower)	TUCTE	- sector :
	in ulana	Diverticula	ar disease		- Receives either no assista	nce or assistance in	YES	NO
C Exercise and	ac ulcer	Colitis			bathing only one part of boo b) Dressing – Gets clothed a		2 20000	725363
		U Vascular le			assistance except for tying s	hoes	YES	NO
Varices		Malignance Infection	Y		c) Toileting - Goes to toilet			
 Varices Vascular lesion 		Other/unk	nown		arranges clothes, and return (may use cane or walker for		YES	NO
Varices Vascular lesion Malignancy	n				bedpan/urinal at night)			
Varices Vascular lesion Malignancy	n					ind out of bed and chair	YES	NO
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No extra tests required – a short single page Outcome form completed 4 weeks (28 days) after randomisation, at discharge, or at death (whichever occurs first)

Outcome to be collected even if the trial treatment is interrupted or is not actually given

Form to be sent to the TCC as soon as possible

Adverse Event

Hospital ID Code		Hospi	tal Na	me								
Patient Initials	Prote land	Randomisa	tion nu	umber]/				. t
RIAL TITLE: Tranexamic n international random	nised, double blind p		olled tria	al	-				ack		morrhage alle examic acid - I	viation with Intestinal system
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lease report on this Please refer to th After discharge a		dy file for e	vents	which	need to	be reporte	d wh	ile the p				oital.
1. REPORT TYPE (circle	e) Initial	Follow-u	р	2. Co	DUNTRY							
I. ADVERSE EV	/ENT INFOR	MATIO	N									
3. DO YOU KNOW DATE OF BIRTH	YES day	month	ye	ear	b) NO - approxi	nate age	ye	ars	4. S PLEASE CIRCLE	E	MALE	FEMALE
5. ADVERSE EVENT IN N	IEDICAL TERMS (dia	anosis if p	ossible	2)							MedDR	A Code
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See Protocol (Section 2.9) and Investigator Study File section 7 for definition of adverse events and reporting procedures.

Sending your data

Internet: Data collection is to be done via internet.

A username and password to use this site will be sent to you by email before you start the trial.

Email: as scanned documents



Trial Materials

BEFORE YOU START THE TRIAL YOU WILL RECEIVE:

- a study file compiled specifically for your hospital, containing contact details, further information, guidance, spare forms and filing space for completed data forms
- training CD with PowerPoint presentations
- training DVD of the trial procedures and the scientific rationale
- randomisation posters with step by step guidance
- brief information leaflets and wall posters

PROTOCOLS

- protocol summaries
- pocket cards

TREATMENT PACKS

- Initially one box of 8 patient packs
- Stock level is monitored by patient entries received at the TCC
- We will send new boxes when you reach your minimum stock level, which is dependent on your randomisation rate
- With each box you will receive a document pack containing your hospital specific patient information sheets, consent forms, more alert cards and brief information leaflets

TRAINING AND PRESENTATIONS Please contact the TCC if:

- you need more training materials for staff sessions
- you are presenting the trial at meetings or conferences

JOIN THE GLOBAL COLLABORATION

haltit.Lshtm.ac.uk

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