

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

RATIONALE AND OVERVIEW

Protocol Code: ISRCTN11225767 Rationale and overview – version 3.0 date 08/10/2018

Gastrointestinal haemorrhage

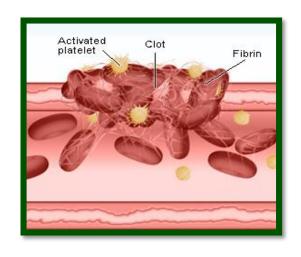
- A common emergency
- Important cause of mortality and morbidity
- Case fatality is high (10–20% in the UK)



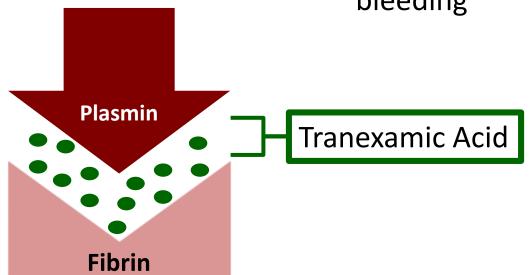
[•] Rockall TA et al. BMJ, 1995. 311(6999): p. 222-6.

[•] Williams JG et al. Gut, 2007. 56 Suppl 1: p. 1-113.

Fibrinolysis & Tranexamic Acid (TXA)

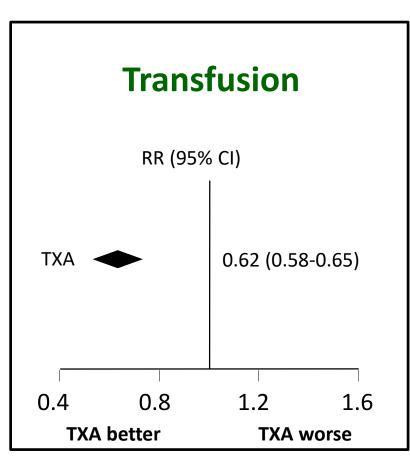


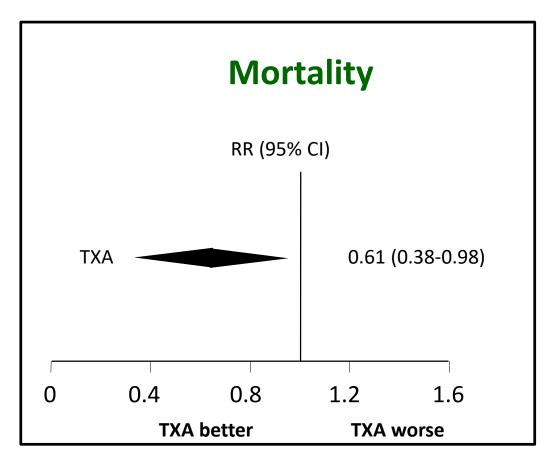
- At the site of damaged blood vessel, a fibrin blood clot forms
- Plasmin can impair clot stability and worsen bleeding
- TXA inhibits plasmin and reduces bleeding



TXA use in surgery

TXA reduces bleeding in surgery

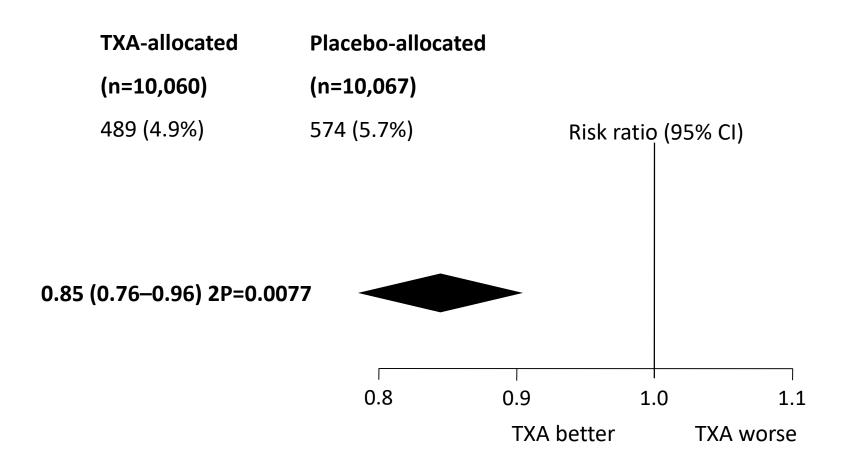




95 trials 72 trials

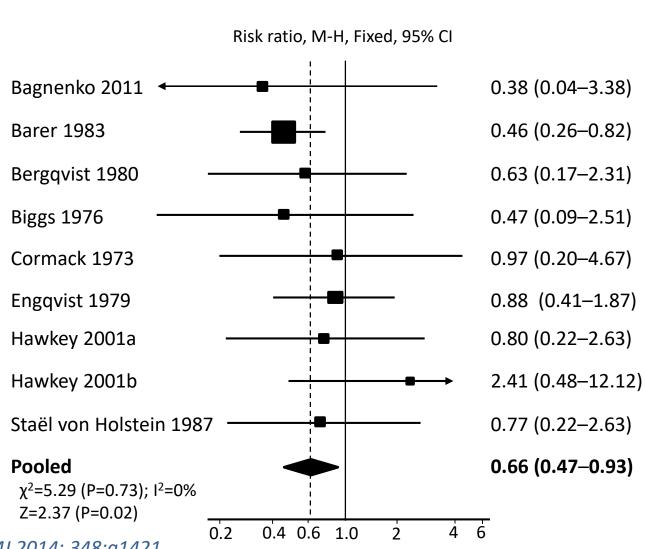
CRASH-2 trial results

TXA reduces death due to bleeding in trauma patients



TXA in upper GI bleeding

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



Manno D et al. BMJ 2014; 348:q1421

TXA in upper GI bleeding (2)

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

	TXA		Placebo		Risk Rat	tio (95% CI)	
	Events	Total	Events	Total			
Engquist 1979	5	102	2	102	_		_
Barer 1983	5	256	2	260	_		
von Holstein 1987	1	164	2	164			
Total	11	522	6	526			1.86 (0.66, 5.24)
				0.02			10 50
				F	avours TXA	Favou	rs placebo

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

Aims

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



RANDOMISE (tranexamic acid or placebo)

Entry form completed

LOADING DOSE over 10 minutes

MAINTENANCE DOSE over 24 hours

Complete OUTCOME FORM at discharge, death or day 28 whichever is earlier

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

ABOUT THE HOSPITAL 1. Country								
2. Hospital code (in your Study File)								
ABOUT THE PATIENT (please ensure all in)	formation held	w is contain	ed in the me	dical records)				
3. Patient's initials	first		last					
4. Sex (circle)	MALE		FEMALE					
5. Do you know the date of birth? (circle)	YES	day ma	nth war	NO – appro	NO – approximate age			
6. Time since onset of GI bleed symptoms	hours			ute episode only		years		
7. Suspected location of GI bleed (circle one)	UPPER		LOWER					
8. Haematemesis <u>or</u> coffee-ground vomitus (circle)	YES		NO	Also circle YES if p aspirate	resence of blood	d in nasogastric		
9. Melaena <u>or</u> fresh blood per rectum <i>(circle)</i>	YES		NO	Also circle YES if a rectal examinatio		ood present on		
10. Suspected variceal bleed? (circle)	YES		NO					
11. Systolic blood pressure	mmHg	Most	recent measur	ement prior to rando	misation			
12. Heart rate	beats per mi	Most	recent measur	ement prior to rando	versation			
13. Signs of shock present? (circle)	YES		NO	Shock assessment based on clinical signs (eg la BP, tachycardia, falling wrine output) that require intervention (eg introvenous fluids)				
14. Suspected current active bleeding? (circle)	YES		NO		intervention (eg introvenous (hinth) Clinical judgement after considering history, signal symptoms			
15. Other co-morbidities? (circle all that apply)	CARDIOVASCULAR	RESPIRATOR	LIVER	RENAL	MAUGNANCY	OTHER MAJOR CO-MORBIDIT		
16. On anti-coagulant therapy? (circle)	YES		NO	UNKNOWN				
17. Emergency admission? (circle)	YES		NO	if putient already hospitalised, circle 'No'				
RANDOMISATION INFORMATION	(fully eligible if a antifibrinolytic in			GI bleed, AND uncer	tainty about the	use of an		
18. Eligible? (circle)		YES		4	NO			
19. Consent for entry obtained from (orcle)	Waiver	6 0	RELATIVE	OTHER		ord an screening log PATIENT		
20. Treatment pack number Take lowest available number treatment pack	вох				ACK			
21. Date of randomisation	day		manth	VEGY				
22. Time of randomisation (24-hour clock)	hours		minutes	peur				
23. a) Name of person randomising patient	nours	first name	mmydes		last name			
b) Signature		Ause mante		-	mos surfic			

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)	YES				do not i	NO do not randomise, record on screening log			
19. Consent for entry obtained from (circle)	WAIVER		RELATIVE		OTHER REPRESENTATIVE		PATIENT		
20. Treatment pack number Take lowest available number treatment pack	вох					PACK			
21. Date of randomisation	day		month		year				
22. Time of randomisation (24-hour clock)	ho	urs	min	utes		·			
23. a) Name of person randomising patient	first name			last name					
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

6 ampoules over 24 hours

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

Palt				ete at disc	harge fro	COME om the randomising hos	500000000000000000000000000000000000000	i pa	Attach trea ick sticker ox/pack n	or write
1. HOSPITAL	uca		lospit	ai vi zo uc	iys aiter i	8. BLOOD PRODUCTS T	Villa Control	VIII 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	antor Ol	
a) Country					23	a) Were blood products trai		SICIV (I) HOHE	YES	NO
	- 19				7.0	b) Units whole blood/red ce		nit = 1 unit)	122	110
b) Hospital code	- 10				- 3			at - 1 ormly		NO.
2. PATIENT DET	AILS					c) Frozen plasma (part unit				AVI
a) Initials		1	10		lant	d) Platelets (part unit = 1 un	utj			.am
b) Age at entry		- 1	.00	SE.	52.00	MANAGEMENT (if no	ne enter 0,	1		
c) Written consen	t obtained fr	om	34	. 1	- 6°	a) Days in Intensive Care Un	it (ICU)			glo
patient or repre		7301	YE	ES .	NO	b) Days in High Dependency	Unit (HDL	J)		tha
d) If no written					- 07	10. COMPLICATIONS (c	ircle one o	ption on each I	ine)	679
consent, give re	eason				198	a) Re-bleeding (up to point	AND DESCRIPTION OF REAL PROPERTY.		YES	NO
3. PATIENT STA	TUS					i) If yes, number of re-bleed		-		
3.1 Death in hos	pital (if yes o	omplete	below-	if no complet	e 3.2)	ii) Date of episode 1		T I		
a) Date of death			SE .	rever	000	Transcondination of the contract of the contra		- W	an in	UW
b) Time of death (2	24-hr clock)		heure	Tarketen		Date of episode 2		de.	rever	Livre.
	□Haemorr	2		1 Malignancy		Date of episode 3		- 11/4/2	********	1,750
c) Main cause	500000000000000000000000000000000000000			2 Pneumonia			isades to I	ne recorded on	reverse	460
of death (tick one option only)	☐ Stroke			2 Pulmonary	embolism	b) Deep vein thrombosis			YES	NO
Option only)	□Other (de	escribe,				c) Pulmonary embolism			YES	NO
						d) Stroke			YES	NO
3.2 Patient alive	(if yes comple	te one	section b	elow – if no co	mplete 3.1)	e) Myocardial infarction			YES	NO
a) Discharged from	hospital?	- 49	- 1	723	12	f) Other significant cardiac e	went		YES	NO
(Date) b) Still in hospital a	t day 282	73	44	rear	999	g) Sepsis	venc		YES	NO
(Date)	it day 20:		66	ma /	10000	h) Pneumonia			YES	NO
4. PROCEDURES	Voisele ann a	ntian a	n aach li	inal		i) Respiratory failure			YES	NO
a) Diagnostic endo	The second second		euch ii	YES	NO	j) Liver failure			YES	NO
b) Therapeutic end				YES	NO				YES	220
c) Diagnostic radio				YES	NO	k) Renal failure			YES	NO NO
d) Therapeutic rad				YES	NO	Seizures Any complications not liste	d ahous -	nlagra rapart (
e) Surgical interve		Leuure		YES	NO	an Adverse Event Reporting		pieuse report t	is per pro	LULUI USI
e) Surgical Intervel	nuon			YES	INO	11. PATIENT'S SELF CA	DE CADA	CITY		
5. PRIMARY CA	USE OF BLE	ED (tie			- 13	(circle one option on each line)	NE CAPA	uit	INDEP	ENDENT?
UPPER GI	BLEED		L	OWER GI BLEE	D	a) Bathing (sponge both, tu				
☐ Erosion or pept	ie ulese		Divertic	ular disease		- Receives either no assistar		stance in	YES	NO
☐ Varices	ic uicei	10000	Colitis			bathing only one part of boo b) Dressing – Gets clothed a		l without	19806	2000
☐ Vascular lesion		10000	Vascula			assistance except for tying s			YES	NO
☐ Malignancy		1900	Maligna	0.74		c) Toileting - Goes to toilet				
☐ Other/unknow	n	1000	Infectio	n unknown			arranges clothes, and returns without assistance			NO
CONTROL DESCRIPTION OF THE			Other/t	IINIOWII		(may use cane or walker for bedpan/urinal at night)	Support u	nu .	0.007	
6. TRIAL TREATI	MENT (only	circle Y	ES if con	nalete dase ai	ven)	d) Transferring – Moves in a	ind out of	bed and chair	YES	NO
a) Loading dose giv				YES	NO	without assistance (may use			1 500	
b) Maintenance do	1000			YES	NO	 e) Continence – Controls bo completely by self (without 			YES	NO
						f) Feeding - Feeds self without	ut assista	nce (except	YES	NO
7. OTHER TREAT	CONTRACTOR OF THE PARTY OF THE		eoption		NO	for help with cutting meat a			i	
a) Helicobacter py	The state of the s	υn		YES	NO NO	12. PERSON COMPLETI	NG FOR	M (PI is responsi	ble for date	submitte
b) H2 receptor ant				YES	NO NO	a) Name	Dect owns		And an	orae :
c) Proton pump inl				YES		b) Position				
d) Vasopressin / ar		2.57		YES	NO	c) Signature				
e) Antibiotics for y	ariceal bleed	ing		YES	NO	d) Date		0		
f) Antifibrinolytics				YES	NO .	uj Date	1000	mn -	00	1500

Page 1 of 2

Outcome Form International Version 2.0 dated 25 July 2018

- 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

Patient Initials	· [_	R	Hospi	tal Nam	\ <u></u>						ء أم
TRIAL TITLE: Tranexa an international rand	mic acid				haemorrh	Box age:		Pack		Haemorrhage all tranggamic acid	eviation with
		AD\	VERSE	EVI	NT F	REPORT F	ORN	١			
	o the P	rotocol / Study	y file for e	vents w	hich nee	days after rando d to be reported ntoward events	while t	he pati			
1. REPORT TYPE (ci	rcle)	Initial	Follow-u	р	2. COUNT	RY					
I. ADVERSE	EVE	NT INFORM	MATIO	N							
3. DO YOU KNOW DATE OF BIRTH	a) YES	day	month	yea		NO – proximate age	years	Pi	. SEX EASE RCLE	MALE	FEMAL
5. ADVERSE EVENT I	N MEDI	CAL TERMS (diag	nosis if n	nssihle)						MedDI	RA Code
6. IS THE EVENT DUI	TO PRO	OGRESSION OF									
UNDERLYING ILLNES	s? (circ		NO	YES		SET OF FIRST SYMPTOMS OF AE		day	m	onth	year
8. SERIOUSNESS								day OT serio	-	onth mplete (C	<i>year</i> 9–11) an
8. SERIOUSNESS		CLE)	FOLLOW	ING:			If No	OT serio	ous cor	mplete (C	9–11) an
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UNDERLYING ILLNES 8. SERIOUSNESS CRITERIA (tick all that are appropriate to event)	(D	NONE OF THE Does not fulfil se Patient died	erious crite day rolonged in	ING: eria) n-patier	month nt hospit	SYMPTOMS OF AE	If NO send	OT serio I this pa RIOUS eria is ti	ous cor age on (ie if a cked) s	mplete (C I ly ny of the	9–11) an serious pages to
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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

Trial Coordinating Centre London School of Hygiene & Tropical Medicine Room 180, Keppel Street, London WC1E 7HT

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