

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 2.0 date 23/08/2017

## **Gastrointestinal haemorrhage**

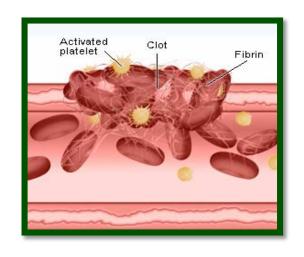
- A common emergency
- Important cause of mortality and morbidity
- Case fatality is high (10–20% in the UK)



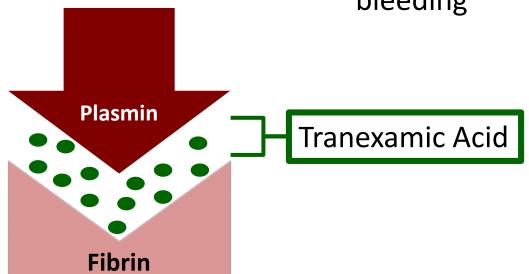
<sup>•</sup> Rockall TA et al. BMJ, 1995. 311(6999): p. 222-6.

<sup>•</sup> Williams JG et al. Gut, 2007. 56 Suppl 1: p. 1-113.

## Fibrinolysis & Tranexamic Acid (TXA)

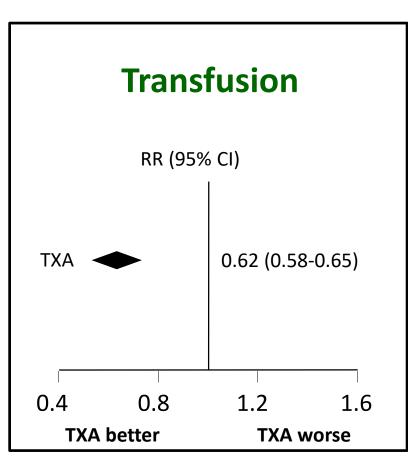


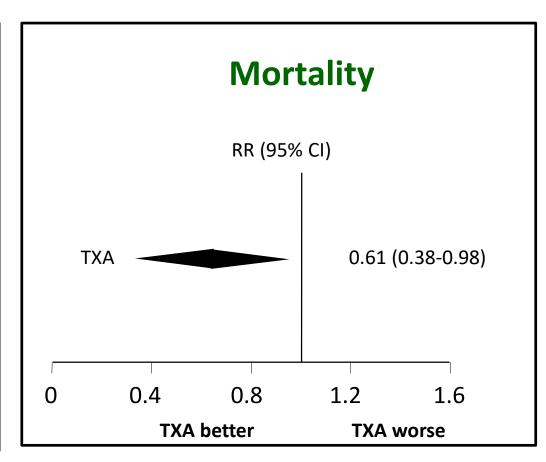
- At the site of damaged blood vessel, a fibrin blood clot forms
- Plasmin can impair clot stability and worsen bleeding
- TXA inhibits plasmin and reduces bleeding



## TXA use in surgery

### TXA reduces bleeding in surgery

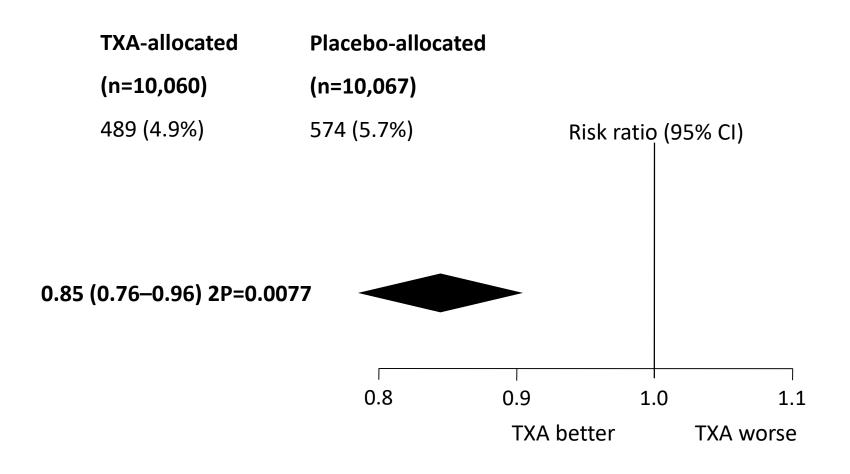




95 trials 72 trials

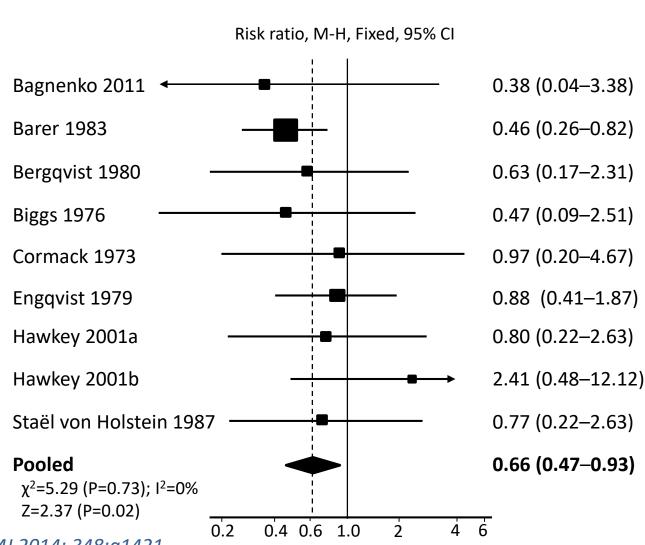
## **CRASH-2** trial results

### 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 Ratio (	95% CI)
	Events	Total	Events	Total		
Engquist 1979	5	102	2	102	+	-
Barer 1983	5	256	2	260		<b></b>
von Holstein 1987	1	164	2	164	-	
Total	11	522	6	526		1.86 (0.66, 5.24)
				<del> </del> 0.02 F	0.1 1	10 50 Favours 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

Appropriate CONSENT PROCESS (patient, representative or waiver)

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	1							
2. Hospital code (in your Study File)								
ABOUT THE PATIENT (please ensure all i	nformation bel	ow is contain	ed in the	med	ical records)			
3. Patient's initials	first		last					
4. Sex (circle)			FEMALE					
5. Do you know the date of birth? (circle)	YES	day mo	nth y	ear	NO – appro	ximate age	years	
6. Time since onset of GI bleed symptoms	hours		ation to Th	VS acu	te episode only			
7. Suspected location of GI bleed (circle one)	UPPE	2	LOWER	7				
8. Haematemesis <u>or</u> coffee-ground vomitus (circle	yes		NO		Also circle YES if p aspirate	resence of blood	in nasogastric	
9. Melaena or fresh blood per rectum (circle)	YES		NO		Also circle YES if a rectal examination		od present on	
10. Suspected variceal bleed? (circle)	YES		NO					
11. Systolic blood pressure	mmHg	Mos	t recent me	asure	ment prior to rando	misation		
12. Heart rate	beats per m	Mos	recent me	asure	ment prior to rando	misation		
13. Signs of shock present? (circle)	YES		NO		Shock assessmen BP, tachycardia, j intervention (eg in	falling urine outp	ut) that require	
14. Suspected current active bleeding? (circle)	YES		NO		intervention (eg intravenous fluids)  Clinical judgement after considering history, sign and symptoms			
15. Other co-morbidities? (circle all that apply)	CARDIOVASCULAR	RESPIRATOR	Y L	IVER	RENAL	MAUGNANCY	OTHER MAJOR CO-MORBIDIT	
16. On anti-coagulant therapy? (circle)	YES		NO		UNKNOWN			
17. Emergency admission? (circle)	YES		NO		If patient already	hospitalised, circ	le 'No'	
RANDOMISATION INFORMATION		adult, significant in that particula		ower G	il bleed, AND uncert	tainty about the c	use of an	
18. Eligible? (circle)		YES			do not rand	NO lamise, record on	screening log	
19. Consent for entry obtained from (circle)	Walve		RELATIV	E	OTHER		PATIENT	
20. Treatment pack number  Take lowest available number treatment pack	вох				P	ACK		
21. Date of randomisation	day		month		year			
22. Time of randomisation (24-hour clock)	hours		minutes		, rui			
23. a) Name of person randomising patient	mours	first	menances			last		
	_	first name			_	last name		

### 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	di	'ay	mo	onth	y.	ear				
22. Time of randomisation (24-hour clock)	ho	ours	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**

	Sit		_		OME	Attach tre pack sticke box/pack	r or write
	death i	•			n the randomising hospital, Indomisation, whichever occurs first		<b>/</b>
. HOSPITAL					8. BLOOD PRODUCTS TRANSFUSION (if no	one enter 0)	
a) Country					a) Were blood products transfused?	YES	NO
b) Hospital code					b) Units whole blood/red cells (part unit = 1 unit,	)	uni
					c) Frozen plasma (part unit = 1 unit)		un
. PATIENT DETA	ILS				d) Platelets (part unit = 1 unit)		un
a) Initials		first		last			
b) Age at entry					9. MANAGEMENT (if none enter 0)		de
c) Written consent		YES		NO	a) Days in Intensive Care Unit (ICU)		
patient or repres d) If no written	entativer				b) Days in High Dependency Unit (HDU)		de
consent, give rea	son				10. COMPLICATIONS (circle one option on ea	ch line)	
. PATIENT STATI	JS				a) Re-bleeding	YES	NO
3.1 Death in hospi	ital (if yes compi	lete below – if n	no complete :	3.2)	b) Deep vein thrombosis	YES	NO
a) Date of death		44			c) Pulmonary embolism	YES	NO
b) Time of death (24	l-hr clock)	dd	mm	уууу	d) Stroke	YES	NO
, mile of death (24		hours	minutes		e) Myocardial infarction	YES	NO
) Main cause	□Haemorrhag		Malignancy		f) Other significant cardiac event	YES	NO
of death (tick one	☐ Myocardial ☐ Stroke		Pneumonia Pulmonary		g) Sepsis	YES	NO
option only)	☐ Stroke ☐Other (descr		,	embolism	h) Pneumonia	YES	NO
		ibe, I diagnos	is only)		i) Respiratory failure	YES	NO
3.2 Patient alive (i)	f ves complete o	ne section helos	w = if no com	onlete 3 1)	j) Liver failure	YES	NO
		Ne section below	w - ij no con	ipiete 3.1)	k) Renal failure	YES	NO
) Discharged from h	ospital? (Date)	dd	mm	уууу	I) Seizures	YES	NO
) Still in hospital at o		n on each line)	mm	уууу	Any complications not listed above – please protocol using an Adverse Event Reporting	e report as ¡ form.	per
a) Diagnostic endosc			YES	NO	11. PATIENT'S SELF CARE CAPACITY	INDED	TAIDEAITS
a) Diagnostic endosc b) Therapeutic endo	copic procedure			NO NO	(circle one option on each line)	INDEP	ENDENT?
	copic procedure scopic procedu	re	YES		(circle one option on each line)  a) Bathing (sponge bath, tub bath, or shower)  - Receives either no assistance or assistance in	INDEP	NO
b) Therapeutic endo	copic procedure scopic procedure gical procedure	re	YES	NO	(circle one option on each line)  a) Bathing (sponge bath, tub bath, or shower)  - Receives either no assistance or assistance in bathing only one part of body	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 Name	•							
Patient Initials	first last	Randomisa	tion num	ber	Box		/	Pack			يدفي
TRIAL TITLE: Tranexamic an international random	acid for the treatm ised, double blind p	olacebo contro	olled trial		nge:			rack		Haemorrhage all tranexamic acid	eviation with Intestinal system
	AD	VERSE	EVE	NT F	EPORT I	FOI	<u>RM</u>				
Please report on this Please refer to th After discharge a	ne Protocol / Stu	dy file for e	vents wh	ich nee	d to be reporte	ed wh	ile the				
1. REPORT TYPE (circle	) Initial	Follow-u	р 2	. COUNT	RY						
I. ADVERSE EV	ENT INFO	RMATIO	N								
3. Do you know date of Birth	YES day	month	year		NO – proximate age	ye	ears	4. PLEA		MALE	FEMALI
5. ADVERSE EVENT IN M	IEDICAL TERMS (di	agnosis if po	ossible)							MedD	RA Code
6. IS THE EVENT DUE TO UNDERLYING ILLNESS? (		NO	YES		ET OF FIRST					onth	
				SIGNS/	SYMPTOMS OF A	E	da	y	m	ontn	year
	□ NONE OF TI			SIGNS/	SYMPTOMS OF A	•	If <b>NOT</b>	serio	ıs cor	nplete (C	year (9–11) an
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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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