

Table 1 Completed studies and clinical trials of tranexamic acid in intracerebral haemorrhage

	Sorimachi 2005 ²⁷	Sorimachi 2007 ²⁸	Ojacaastro 2008 ²⁹	TICH 2014 ³⁰	Arumugam 2015 ³¹
Design	Retrospective observational	Observational	Observational	RCT	RCT
Number of patients	156	95*	30	24	30
Intervention (intravenous tranexamic acid infusion)	2 g over 10 minutes	2 g over 10 minutes	500 mg 3 times	1 g over 10 minutes followed by 1 g over 8 hours	1 g over 10 minutes followed by 1 g over 8 hours
Control	1 g TA over 6 hours	No control	Usual care	Placebo	Placebo
Baseline to 24 hour haematoma expansion	Less HE of >20% with rapid infusion (17.5% vs. 4.3%, p=0.011)	HE of >20% in 4.2%	Less HE by day 3 with TA (no data provided)	HE of >6 mL (13% placebo vs 19% TA, p=NR)	No ICH volume change with TA (placebo median 14.53 to 17.59 mL, p = 0.001 vs TA 10.06 to 10.08 mL, p=0.313)
Clinical outcome	NR	Earlier of discharge or 30 day mRS 0- 2=29%, no control arm	No effect on length of stay or in-hospital NIHSS (p=NR)	Mean mRS (3.4 control vs 3.6 TA p=0.82)	Mean GOS score (3.6 control vs 4.3 TA, p=NR)

*Paper additionally includes all rapid infusion patients of the 2005 study, total n=188.
 RCT=randomised controlled trial, IV=intravenous, HE=haematoma expansion,
 TA=tranexamic acid, NR=not reported, NIHSS=National Institutes of Health Stroke
 Scale, mRS=modified Rankin Scale, GOS=Glasgow Outcome Scale

Table 2 Comparison of ongoing trials of tranexamic acid in intracerebral haemorrhage

	STOP-AUST	TICH-2	NOR-ICH	TRAIGE	TICH-NOAC	EsICH
Start date	Dec 2012	March 2013	June 2014	Sept 2015	November 2016	January 2017
Number recruited/target	39/100	1683/2000	20/540	-/240	0/109	0/100
TA dose (g x no.)	1 x 2	1 x 2	1 x 4	1 x 2	1 x 2	1 x 2
Age, years	≥18	≥18	18-80	≥18	≥18	≥18
Premorbid mRS	N/A	0-3	0-2	0-1	0-4	0-3
GCS	8-15	5-15	9-15	8-15	5-15	8-15
Time, hour	<4.5	<8	Arm A: <2.5 Arm B: 2.5-4.5	<8	<12, NOAC intake <48 h	<8
Haematoma location	Brainstem bleed excluded	N/A	N/A	supratentorial only	N/A	N/A
ICH volume, ml	<70	N/A	<60	<70	N/A	N/A
IVH volume, ml	N/A	N/A	<10	<50% of lateral ventricles	N/A	N/A
Spot sign positive only	Y	N	N	Y	N	N
Planned surgery < 24 hours	exclude	not excluded	exclude	exclude	exclude	exclude
Primary Outcome	HE 24 h*	mRS 90d [†]	HE 24 h*	HE 24 h*	HE 24 h*	mRS 90d [†]
Secondary Outcome	mRS 90d [†]		mRS 90d [†]	mRS 90d [†]	mRS 90d [†] mortality 90d; major TE events 90d [‡]	
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BSRG=Bergen Stroke Research Group; ECRI= European Cerebrovascular Research Infrastructure; GCS= Glasgow coma scale; HE=haematoma expansion; ICH=intracerebral haemorrhage; IVH=intraventricular haemorrhage; mRS=modified Rankin Scale; N/A=not available; NHMRC=National Health and Medical Research Council, Australia; NOAC= novel oral anticoagulants; NORSTROKE = Norwegian Stroke Research Registry; TA= Tranexamic Acid; UMF= University of Medicine & Pharmacy; *Haematoma expansion measured at 24 hour post-ictus; [†] modified Rankin Scale at 90 days; [‡]myocardial infarction, ischemic stroke, pulmonary embolism

