



Policy code	DTP_TRXA_0924	
Date	September, 2024	
Purpose	To ensure a consistent procedural approach to tranexamic acid administration.	
Scope	Applies to all Queensland Ambulance Service (QAS) clinical staff.	
Health care setting	Pre-hospital assessment and treatment.	
Population	Applies to all ages unless specifically mentioned.	
Source of funding	Internal – 100%	
Author	Clinical Quality & Patient Safety Unit, QAS	
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Tranexamic acid

September, 2024

Drug class

Antifibrinolytic [1,2]

Pharmacology

Tranexamic acid (TxA) is a competitive inhibitor of plasminogen activation through the formation of a reversible complex displacing plasminogen from fibrin. This inhibits the process of fibrinolysis in addition to the protein breakdown caused by plasmin. [1,2]

Metabolism

Hepatic matabolism with renal excretion.[1]

Indications

- **Recent traumatic injuries**^[3] (3 hours or less) with a COAST score of 3 or greater
- Management of uncontrolled primary post-partum haemorrhage (3 hours or less)[4]
- Management of post-tonsillectomy haemorrhage (evidence of active haemorrhage)

Contraindications

• Allergy AND/OR Adverse Drug Reaction

Precautions

• Nil

Side effects 1,2

- Headache
- Hypotension
- Nausea and/or vomiting
- Seizures

Presentation

• Ampoule, 1 g/10 mL tranexamic acid

Onset	Duration	Half-life
Minutes	Serum 7–8 hours	2 hours

Schedule

• S4 (Restricted drugs).

Special notes

• The coagulopathy of severe trauma (COAST) score is a highly specific predictor of acute traumatic coagulopathy (ATC) in adult blunt trauma. [4] A score (0–7) is calculated by determining a collective value of each of the five variables.

COAST SCORE				
Variable	Value	Score		
Entrapment (e.g. in vehicle)	Yes No	1 0		
Systolic blood pressure (mmHg)	> 100 90 - 100 < 90	0 1 2		
Temperature (°C)	> 35 32 - 35 < 32	0 1 2		
Major chest injury likely to require intervention (e.g. decompression, chest tube)	Yes No	1 0		
Likely intra-abdominal or pelvic injury	Yes No	1 0		

Special notes (cont.)

- Ambulance officers must only administer medications for the listed indications and dosing range. Any consideration for treatment outside the listed scope of practice requires mandatory approval via the QAS Clinical Consultation and Advice Line.
- All cannulae and IV lines must be flushed thoroughly with sodium chloride 0.9% following each medication administration.
- The use of tranexamic acid in trauma and obstetric cases is consistent with national guidelines.
- There is no role for the use of tranexamic acid during traumatic cardiac arrest.

Adult dosages [1-4]

- Recent traumatic injuries (≤ 3 hours) with a COAST score ≥ 3
- Management of uncontrolled primary post-partum haemorrhage (≤ 3 hours)
- Management of post-tonsillectomy haemorrhage (evidence of active haemorrhage)

ACP2 CCP	IV	1 g Slow push over 10 minutes. Single dose only.
ACP ² CCP	IV	1 g over 10 minutes. Single dose only. Infusion preparation: Mix 1 g of tranexamic acid in a 100 mL bag of sodium chloride 0.9%. Ensure bag is appropriately labelled. Administer over 10 minutes (approx. 3 drops/second).
GCP	10	1 g Slow push over 10 minutes. Single dose only.
CCP	IO INF	1 g over 10 minutes. Single dose only. Infusion preparation: Draw up 1 g (10 mL) of tranexamic acid in a 30 mL SPRINGFUSOR® syringe. Ensure the syringe is appropriately labelled. Administer the infusion via the SPRINGFUSOR® at a rate of 60 mL/hr

(over 10 minutes).

Paediatric dosages [1-3]

Recent traumatic injuries (≤ 3 hours) with a COAST score ≥ 3 | V | QAS Clinical Consultation and Advice Line approval required in all situations. | 15 mg/kg | Slow push over 10 minutes.

QAS Clinical Consultation and Advice Line approval required in all situations.

15 mg/kg
Slow push over 10 minutes.
Single dose only. Total maximum dose 1 g.

Single dose only. Total maximum dose 1 g.

Management of post-tonsillectomy haemorrhage (evidence of active haemorrhage)

ACP CCP	15 mg/kg Slow push over 10 minutes. Single dose only. Total maximum dose 1 g.
10	15 mg/kg Slow push over 10 minutes. Single dose only. Total maximum dose 1 g.

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