

Medication: Tranexamic Acid	PDN: 6990.03	Last Updated: June 9 2023	PMD: Andrew Travers*	PDC: Tanya Fraser*	Page 1 of 2
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TRANEXAMIC ACID (TXA)

1.0 Classification

- Anti-fibrinolytic

2.0 Mechanism of Action

- A lysine analogue that occupies plasminogen binding sites, inhibiting the activation of plasminogen to plasmin

3.0 Indications

- Trauma with all of the following:
 - Less than 3 hours since time of injury
 - Systolic blood pressure less than 90 mmHg OR heart rate greater than 110
 - Suspicion of hemorrhagic blood loss
- Hemorrhagic shock with lack of response to crystalloid therapy (with MCCP approval)
- Primary post-partum hemorrhage unresponsive to oxytocin (with MCCP approval)

4.0 Contraindications

- Patients less than 16 years of age without MCCP consult
- Hypersensitivity to tranexamic acid
- Active thromboembolic disease (PE, DVT, CVA)
- Hematuria
- Unable to initiate bolus within 3 hours of injury

5.0 Precautions

- TXA increases mortality if given more than 3 hours after initial trauma

6.0 Route

- May be given IV/IO

7.0 Dosage

Adult

- 1 gram mixed in 100 mL normal saline run over 10 minutes IV
- On ED arrival it is critical for the receiving team to initiate immediately upon arrival 1 gram mixed in 500 mL normal saline run at approximately 60 mL/hr with a buretrol or pump (for 8 hours)

Pediatric

- Not routinely administered in pediatric patients; must call MCCP

8.0 Supplied

- 10 mL vials of 100 mg/mL

9.0 May Be Given By

- PCP/ICP/ACP/CCP

10.0 Adverse effects

- Nausea/vomiting
- Diarrhea
- Dizziness
- Changes in vision

11.0 Special notes

- Fluid resuscitation to target permissive hypotension (SBP of 90 mmHg) should occur in conjunction with TXA administration
- It is important to ensure that ongoing infusion is maintained after transfer of care
- There is insufficient evidence to support the administration of TXA for lower gastrointestinal hemorrhage
- Pregnancy category B [if there is a clinical need for it, Category B drugs are considered safe to use]

12.0 References

- Extremity Trauma Clinical Practice Guideline
- General Major Trauma Clinical Practice Guideline
- Torso & Pelvic Trauma Clinical Practice Guideline
- Traumatic Cardiac Arrest Adult Clinical Practice Guideline
- Compendium of Pharmaceuticals and Specialties (CPS)

*Electronically Signed

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