



Pediatric TXA Administration

Authorization	Base Hospital order only
TXA concentration	1 gm / 10 mL vial (100 mg/mL)
Dose	15 mg / kg IV / IO over 10 minutes
Maximum dose	1 gm
Indications	• Evidence of hemorrhagic shock related to blunt or penetrating trauma mechanism. • SBP < 90 mmHg or Shock Index (SI) > 1.0 for patient age > 10 years old SBP < 80 or SI > 1.0 for patient age 5 – 10 years old SBP < 75 or SI > 1.2 for patient age 3 – 5 years old SBP < 70 or SI > 1.2 for patient age 1 – 3 years old SBP < 60 or SI > 1.2 for patient age 31 days – 1 year old SBP < 60 or SI > 1.2 for patient age 0 – 30 days old ◦ Shock Index = Pulse Rate / Systolic Blood Pressure • Significant blood loss with ongoing bleeding not controlled by direct pressure, hemostatic agents (e.g. QuikClot, Hemostatic gauze), or tourniquet applications.
Contraindications	• Traumatic injury greater than 3 hours. • Isolated neurogenic shock. • Isolated extremity injury when bleeding has been controlled. • Active thromboembolic event (within the last 24 hours); i.e., stroke, myocardial infarction, pulmonary embolism, or DVT. • History of hypersensitivity or anaphylactic reaction to TXA. • Traumatic arrest without ROSC. • Drowning or hanging victims.

PROCEDURE:

1. Confirm the patient meets the indications for TXA and has no contraindications.
2. Obtain a Base Hospital order.
3. Determine the patient's weight using actual weight when known or utilizing an appropriate length-based resuscitation tape or age-based system.
4. Using the Pediatric TXA Dosing Guide, withdraw the calculated volume of TXA into a 10-mL syringe:
5. TXA concentration: **1 gm / 10 mL vial (100 mg / mL)**
6. Dose: **15 mg / kg**
7. Add 0.9% normal saline to the syringe to make a **total volume of 10 mL**.
8. Gently mix and clearly label the syringe **"TXA IV / IO."**
9. Administer the entire 10-mL syringe IV / IO evenly over 10 minutes.
10. **Push at rate of 1 mL per minute.**

Approved:

Review Date:
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TRANEXAMIC ACID FOR BLEEDING MANAGEMENT - Pediatric

11. **Do not rapidly push IV.**
12. Flush the IV / IO line with 0.9% normal saline after administration to ensure delivery of medication remaining in the tubing.
13. Monitor the patient, including blood pressure, during administration.
14. Document the TXA dose and administration time.
15. Communicate administration to the Base Hospital.
16. Communicate administration to the Trauma Center at the time of arrival / transfer of patient care.

Example

For a 20-kg child: $20 \text{ kg} \times 0.15 \text{ mL/kg} = 3 \text{ mL TXA}$

Draw up: **3 mL TXA**

Add: **7 mL NS**

Final syringe volume: **10 mL**

Administer: **1 mL per minute for 10 minutes**

Pediatric TXA Dosing Guide

TXA 100 mg/mL | Dose 15 mg/kg | Volume 0.15 mL/kg

Weight	TXA Dose	Volume Dose (to mix with NS in a syringe to total 10 mL)
3 kg	45 mg	0.5 mL
4 kg	60 mg	0.6 mL
5 kg	75 mg	0.8 mL
6 kg	90 mg	0.9 mL
7 kg	105 mg	1.1 mL
8 kg	120 mg	1.2 mL
9 kg	135 mg	1.4 mL
10 kg	150 mg	1.5 mL
11 kg	165 mg	1.7 mL
12 kg	180 mg	1.8 mL
13 kg	195 mg	2.0 mL
14 kg	210 mg	2.1 mL
15 kg	225 mg	2.3 mL
16 kg	240 mg	2.4 mL
17 kg	255 mg	2.6 mL
18 kg	270 mg	2.7 mL
19 kg	285 mg	2.9 mL
20 kg	300 mg	3.0 mL
21 kg	315 mg	3.2 mL
22 kg	330 mg	3.3 mL
23 kg	345 mg	3.5 mL

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TRANEXAMIC ACID FOR BLEEDING MANAGEMENT - Pediatric

Weight	TXA Dose	Volume Dose (to mix with NS in a syringe to total 10 mL)
24 kg	360 mg	3.6 mL
25 kg	375 mg	3.8 mL
26 kg	390 mg	3.9 mL
27 kg	405 mg	4.1 mL
28 kg	420 mg	4.2 mL
29 kg	435 mg	4.4 mL
30 kg	450 mg	4.5 mL
31 kg	465 mg	4.7 mL
32 kg	480 mg	4.8 mL
33 kg	495 mg	5.0 mL
34 kg	510 mg	5.1 mL
35 kg	525 mg	5.3 mL
36 kg	540 mg	5.4 mL
37 kg	555 mg	5.6 mL
38 kg	570 mg	5.7 mL
39 kg	585 mg	5.9 mL
40 kg	600 mg	6.0 mL
41 kg	615 mg	6.2 mL
42 kg	630 mg	6.3 mL
43 kg	645 mg	6.5 mL
44 kg	660 mg	6.6 mL
45 kg	675 mg	6.8 mL
46 kg	690 mg	6.9 mL
47 kg	705 mg	7.1 mL
48 kg	720 mg	7.2mL
49 kg	735 mg	7.4 mL

Safety note: Administer the listed volume over 10 minutes. Do not rapidly push IV. Flush the IV / IO line with normal saline after administration.

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