

Practice Update

July 1, 2019

UNIT CHIEFS PLEASE POST

Audience: BCEHS ACP and above

Subject: **Pediatric TXA Treatment Guideline Change**

What's New? New changes to the Treatment Guidelines (TG) for the administration of Tranexamic Acid (TXA) to pediatrics have been made. ACP and above may now administer TXA to pediatrics 1 year old and above with a history of traumatic injury.

Why? The pre-hospital benefits of TXA administration in the adult trauma population have been well established. Up until now, the evidence and safety of TXA administration in the pediatric trauma population has remained controversial.

Based on expert clinical consensus, BCEHS Clinical and Medical Programs now recommend that TXA be used in the management of traumatically injured pediatric patients by ACP and above.

However, differences in pediatric physiological response to trauma necessitate the need for slightly different TXA dosing guidelines in patients less than 12 years of age. Hence, BCEHS has included the following inclusion criteria.

**How does this
affect my practice?**

TXA may be given by ACPs to any pediatric patient 1 year of age and above with the following criteria:

1. History of traumatic injury
2. HR above **and** BP below the BCEHS Handbook age-based norms

Age	Heart- Rate	Systolic BP	Weight/TXA Dose
12 months	100-180	70-110	~10 kg=150mg
2 years	80-160	70-110	~12 kg=180mg
3 years	80-130	75-110	~14 kg=210mg
4 years	70-110	80-110	~16 kg=240mg
6 years	70-110	80-110	~20kg=300mg
8 years	70-110	80-110	~24kg=360mg
10 years	70-110	80-110	~28kg=420mg

Dosing:

- >12 Years of Age = 1 gram IV over 10 minutes;
- < 12 Years of age = 15 mg/kg IV over 10 minutes

Mandatory CliniCall consult required

Reminder: IV initiation and administration of TXA should **not** delay transport.

What courses are being offered?

We encourage all staff to continually review their BCEHS TGs. However, no new training is required for this TG update.

What additional resources are available?

All relevant sections for TXA and pediatric trauma have been updated in your BCEHS Handbook.

Who do I contact if I have questions?

For more information about this change please contact your Paramedic Practice Educator, Regional Medical Director or Paramedic Practice Leader at clinicalpractice@bcehs.ca.