Maine EMS Trauma Advisory Committee
Consensus Statement and Clinical Advice for Trauma Management

Tranexamic Acid Use for Bleeding Trauma Patients

**Part 1: Key Concepts**

TXA (Tranexamic Acid) -- Tranexamic acid is a synthetic derivative of the amino acid lysine that inhibits fibrinolysis by blocking the lysine binding sites on plasminogen. Tranexamic acid safely reduced the risk of death in bleeding trauma patients in the CRASH-2 study. On the basis of these results, tranexamic acid should be considered for use in bleeding trauma patients in Maine.

A. **Administration of TXA will be at the discretion of the receiving Trauma Surgeon**

B. **Patient Eligibility for TXA** = Trauma Patients of any age who meet the first two categories of the 2011 CDC Trauma Triage Protocol (or comparable version in the Maine EMS Protocol reversion):

   **Step One:**
   - GCS ≤ 13
   - SBP < 90
   - RR ≤ 10 or > 29, < 20 in infant less than one year old, or need for ventilatory support

   **Step Two:**
   - All penetrating injuries to head, neck, torso and extremities proximal to elbow or knee
   - Chest wall instability or deformity (e.g. flail chest)
   - Two or more proximal long-bone fractures
   - Crushed, degloved, mangled, or pulseless extremity
   - Amputation proximal to wrist or ankle
   - Pelvic fractures
   - Open or depressed skull fracture
   - Paralysis

C. **Timeframe:** Administered within the first 3 hours post-injury, preferably within the first hour

D. **Dosing -- Weight-Based Bolus:**

   a) < 60 kg: 20 mg/kg IV bolus
   b) 60-75 kg: 1.5 gm IV bolus
   c) > 75 kg: 2.0 gm IV bolus

**Part II: Annotations and Rationale**

E. **Caution:** Avoid concurrent use of TXA with rFVIIa or PCCs (Profilnine); Avoid if Allergy to TXA

F. **PI Tracking:** "Is TXA making a difference for the people of Maine?"

   Data to be tracked by the three Trauma Centers and reported regularly to the State Trauma Advisory Committee:
   a) Identification of Trauma Registry patients who received TXA
   b) Outcome (Lived / Died)
   c) Blood products transfused
   d) Other data points from the Trauma Registries

**Part III: References**


(Revised 04/23/2013)