

Clinical Practice Guideline (CPG) for use of Tranexamic Acid (TXA) in Injured Patients

Tranexamic acid (Cyclokapron®) should be administered to the injured patient who meets criteria for blood transfusion and meets all of the following additional criteria (as determined by the Emergency Medicine or Trauma Surgery Attending):

INCLUSION CRITERIA

- Age ≥ 18 years of age
- Trauma patient (blunt or penetrating)
- TXA can be initiated within **3 hours** of the time of injury
- Is being transported to/is managed at CMC- Main
- Expected need for PRBC transfusion including **ANY** initiation of the Massive Transfusion Protocol
- Based on TEG results, consider Direct thrombin inhibitor such as dabigatran (Pradaxa®) per CMC Trauma Rapid Reversal Guideline

Clinical criteria to consider in the bleeding trauma patient (2 or more of the following):

- Hypotension (SBP < 100 mmHg)
- Tachycardia (HR > 110 bpm)
- Suspected internal bleeding
- Point of care lactate > 4 mg/dL

EXCLUSION CRITERIA

- Active use of any of the following agents:
 - Anticoagulants such as warfarin (Coumadin®) or enoxaparin (Lovenox®)
 - Factor Xa inhibitors such as rivaroxaban (Xarelto®) or apixaban (Eliquis®)
- Administration of antihemophilic agents such as prothrombin complex concentrates (PCC) (Profilnine®, Bebulin®, Feiba) and/ or recombinant human factor VIIa (NovoSeven®)
- Evidence of intravascular clotting (e.g. DVT, PE, embolic stroke)

DOSING:

- Loading Dose: Tranexamic acid 1 gram/NS 50mL IV over 10 minutes
- Infusion: Tranexamic acid 1 gram/NS 50mL IV over 8 hours (125 mg/hr x 8 hours)

LABORATORY

- Consider obtaining a Thromboelastography (TEG) as soon as possible. (Initially, this will be the responsibility of the OR/ICU team but may occur in the Emergency Department).
- Draw and send **1 blue top tube to the laboratory**. Preference is to hand delivery the tube rather than using the tube system.

PATIENT HAND OFF:

- Provide the receiving staff with the tranexamic acid 1gm/NS 50mL maintenance infusion (if not started) and the sheet warning against PCC use.