Tranexamic Acid (TXA) *(Cyklokapron)*

**Classification:** Antifibrinolytic, plasminogen inactivator

**Actions:** Reduces fibrinolysis and clot breakdown; stabilizes clot formation; inhibits conversion of plasminogen to plasmin

**Indications:**
1. Blunt or penetrating traumatic injury with SBP ≤90
2. Significant hemorrhage not controlled by direct pressure, hemostatic agents, or tourniquet application

**Contraindications:**
- >3 hours post injury
- Isolated spinal shock
- Isolated head injury
- Non-blood loss conditions
- Isolated extremity hemorrhage when bleeding has been controlled and if there is a strong expectation for re-implantation
- Patients <15 years old
- Active Thromboembolic event (within 24 hrs); i.e. CVA, MI, Pulmonary Embolism, or DVT
- Hypersensitivity or anaphylactic reaction to TXA
- Traumatic Arrest with >5 min of CPR without ROSC
- Drowning or hanging victims

**Precautions:**
- Severe kidney diseases
- Pregnancy

**Adverse Effects:** <1%
- **Hypotension** with rapid IV infusion
- Chest tightness, difficulty breathing
- Facial flushing, swelling in hands or feet
- Blurred vision
- Anaphylactoid reaction

*Frequency not defined for IV solution*
- Headache
- Musculoskeletal pain

**Administration:**

**Adult Dosage (>15 year old)**

1 Gm in 100mL NS IV/IO infused over >10 min

**Pharmacology:**
Onset: 20 min – 2 hrs
Duration: 2 – 8 hrs

**Notes:** Rate of administration should not exceed 100 mg/min