

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 \leq 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 (\geq 15 year old)**
1 Gm in 100mL NS IV/IO infused over >10 min

No pediatric dose approved

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

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