	COUNTY OF SACRAMENTO EMERGENCY MEDICAL SERVICES AGENCY	Document#	8065.12
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	Hemorrhage	Last Approval Date:	12/14/23
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Signature on File	Signature on File
EMS Medical Director	EMS Administrator

Purpose:

A. To establish guidelines for basic and advanced life support personnel in managing hemorrhage.

Authority:

- A. California Health and Safety Code, Division 2.5
- B. California Code of Regulations, Title 22, Division 9

Notes:

- A. Life-threatening hemorrhage to a limb is best managed with splinting or stabilization of the limb to reduce movement and progress rapidly through the hemorrhage control algorithm below until bleeding is controlled.
- B. Patients with major arterial bleeding can bleed to death in as little as two to three minutes. It is important to control external bleeding before the patient is in shock.
- C. Any patient who requires a tourniquet is considered to have a time-dependent injury and should be transported immediately to an appropriate trauma center per Trauma Destination Policy, PD# 5052.
 - 1. Pediatric patients ≤ fourteen (14) years of age who require a tourniquet shall be transported to the University of California Davis Medical Center (UCDMC), with the following exceptions:
 - a. Pediatric patients without an effective airway may be transported to the nearest available facility for emergent airway establishment.
 - b. Pediatric trauma patients under Cardiopulmonary Resuscitation (CPR) shall be transported to the time closest trauma facility.
- D. It is critical that the time of tourniquet application be documented in the PCR, on the tourniquet when possible, and communicated to all providers.
- E. The use of approved Hemostatic Agents shall be documented in the PCR and communicated to all providers.
- F. While most life-threatening bleeding is a result of trauma, hemorrhage control strategies and sections of this policy also apply to non-traumatic hemorrhage, including but not limited to bleeding AV-shunts and non-traumatic bleeding in patients on anticoagulants. TXA is only indicated by the protocol below for traumatic bleeding, epistaxis, and oral bleeding.

NOTE: Consider base hospital physician base consult for TXA use in the control of head and neck bleeding.

Epistaxis/Oral Hemorrhage:

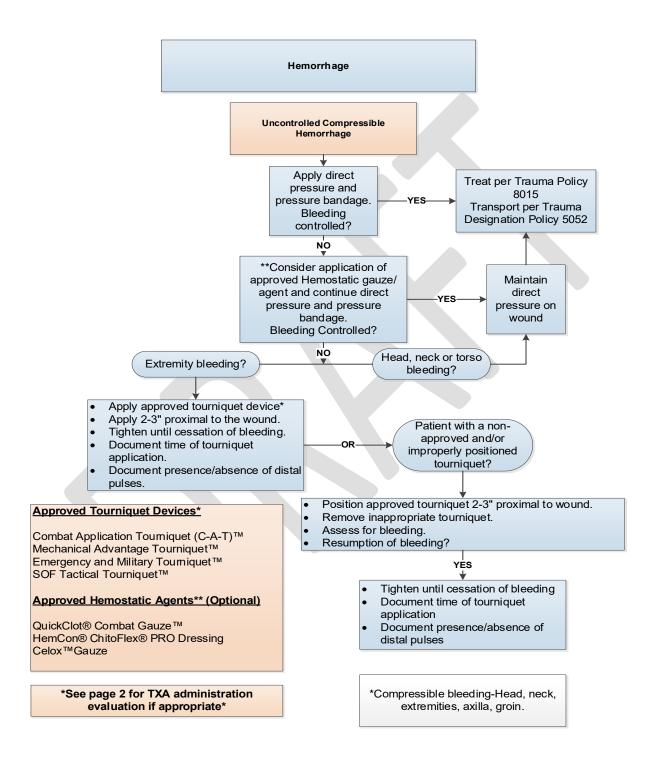
BLS

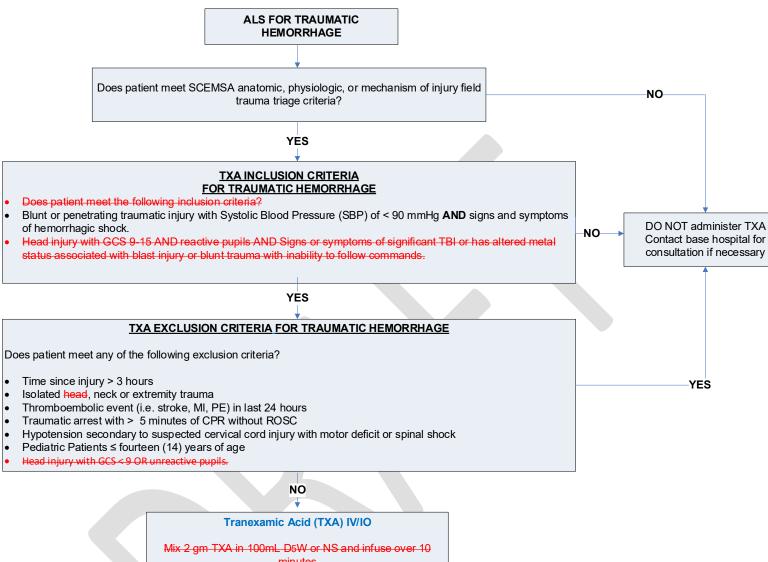
- 1. Assess C-A-B.
- 2. Secure airway.
- 3. Position of Comfort, reduce anxiety.
- 4. Suction as needed.
- 5. Apply ice and direct pressure across the bridge of the nose.
- 6. SpO2 with supplemental O2 as needed.

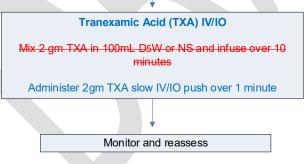
ALS

- 1. Cardiac monitoring and ETCO2 measurement as available.
- 2. Vascular access, but do not delay airway management for suspected posterior hemorrhage.
- 3. Consider intubation for significant hypoxia, dyspnea, or impending airway loss.
- 4. For stable patients with epistaxis, encourage vigorous nose blowing to remove clotted blood.









Cross References: PD# 5052 –Trauma Destination Policy

PD# 5053 - Trauma Triage Criteria Policy

PD# 8015 – Trauma Policy PD# 9017 – Pediatric Trauma,