

Operational K9 Fluid Resuscitation Guideline

CONDITION

Acute Trauma *without* Active Hemorrhage

Acute Trauma with *Controlled* Hemorrhage

Options for Resuscitation are in the Order of Preference

1. Hypertonic Saline (HTS) + Colloid (e.g., Hetastarch or Vetstarch/ Voluven):

5mL/kg of each (Ex., 75 mL HTS : 75 mL Colloid for a 25 kg dog)

2. Colloid Only: 10 mL/kg (250 mL for a 25kg dog)

3. Crystalloid Only: 20 mL/kg (500 mL for a 25kg dog)

Note: All doses may be repeated twice to achieve palpable femoral pulse

CONDITION

Traumatic Shock with *Active* Hemorrhage

1. Uncontrolled

2. Internal Body Cavity bleeding

Options for Resuscitation are in the Order of Preference

1. Buddy Transfusion: Fresh Whole Blood 500mL

2. Canine pRBC: FFP @ 10mL/kg of each (*Ex: 25kg dog give 250 mL pRBC: 250 mL FFP*)

(Note K9 blood units are not standard all the same standard size)

DO NOT give human blood products to an injured K9

3. Colloid only: 5 mL/kg (125 mL for a 25 kg operational K9)

4. Crystalloid Only: 10 mL/kg ONLY as a last resort if no other above fluids are available and anticipated evacuation times are > 30 min (repeat only twice)

**Note: Colloids may be repeated in 5 mL/kg aliquots to achieve palpable femoral pulse. Not to exceed of a total volume of 500 mL*

CONDITION

Acute trauma with:

1. Head trauma

2. Pulmonary contusions

(e.g., blast overpressure or blunt trauma)

Options for Resuscitation are in the Order of Preference

"Small Volume Resuscitation"

1: Colloid + HTS @ 2-5 mL/kg total volume in 1:1 ratio (*HTS provides hyperosmotic therapy*)

(Ex: 50-125 mL total volume for a 25 kg dog)

2: Colloid: 5 mL/kg (*Ex: 125mL of each in equal volumes for a 25 kg dog*)

3: Crystalloid 10 mL/kg (250 mL given ONCE); Use only as a last resort when no colloids or HTS is available and the down OpK9 is suffering circulatory shock

All doses may be repeated twice to achieve palpable femoral pulse

EXCEPTION : Avoid administering more than one 250 mL bolus of isotonic crystalloids if pulmonary contusions are known or highly suspected