

UTSW/Parkland BioTel EMS ALERT

January 3, 2018

EMS ALERT 18-002 Normal Saline & Administration of IV Fluids

Purpose:

To advise BioTel EMS Providers of updated recommendations regarding IV fluid administration.

Background:

Nationwide shortages and inventory depletion severely limit vendor capabilities to fulfill orders for Normal Saline (NS) used for IV/IO administration. Options to alleviate this shortage are being investigated. There is no indication, however, of when the shortage may end.

Medical Director Interim Recommendations, Effective Immediately and Until Further Notice:

- 1. Routine use of IV NS shall be reserved for patients who require urgent fluid resuscitation.
- 2. The need for urgent fluid resuscitation shall be defined as:
 - a. ADULTS at least 14 years of age:
 - i. Heart rate greater than 100 bpm; OR
 - ii. SBP less than 100 mmHg; OR
 - iii. Clinical signs of sepsis, shock or hypoperfusion; OR
 - iv. Any patient for whom the paramedic or BioTel staff determines that urgent fluid resuscitation is appropriate.
 - b. PEDIATRIC patients less than 14 years of age:
 - i. As above, using age-appropriate vital signs per current BioTel Treatment Guidelines;
 - ii. NOTE: Recall that hypotension is a late, ominous sign of pediatric shock.
- 3. Most patients whose vital signs and clinical presentation do not suggest the presence of sepsis, shock or hypoperfusion do not require routine, urgent fluid resuscitation.
- 4. Paramedics shall continue to obtain peripheral IV access for medications, per standing orders.
- 5. Medications will be flushed with prefilled saline syringes.
- 6. Do not hang IV fluids to "keep vein open" use a saline lock.
- 7. Do not prepare pre-spiked IV fluid bags at the start of a shift or before arriving at the scene.
- 8. Intraosseous (IO) cannulas will require the use of NS to maintain patency:
 - a. As such, the IV route generally will be preferred under most circumstances.

Summary:

- > Until further notice, routine administration of IV fluids shall be reserved for patients who require urgent fluid resuscitation.
- > IV medications shall be flushed with a prefilled saline syringe.
- > IV catheter patency at "keep vein open" rate shall be maintained with a saline lock, not an IV fluid bag.
- UTSW/Parkland BioTel EMS Providers may contact BioTel or the EMS Medical Direction Team at any time with questions or concerns about this EMS Alert