**General Crush Injury**

**Purpose:**
This protocol should be considered when the patient has been entrapped at the scene for more than one hour, one or more full extremities trapped by an object capable of causing a crush injury, including machinery, dirt, rock, and rubble or there is entrapment of patient with history of previous cardiac or renal disease or dialysis treatment.

**Crush Syndrome:**
Should be suspected in patients with entrapment/compression of greater than one hour, especially when a large muscle mass/group is involved. Treatment of the patient at risk for Crush Syndrome **should begin before the patient is removed when practical**.

**Treatment:**
2. Assess for signs of Compartment Syndrome or Crush Syndrome.
3. Use tourniquet as indicated (see **Tourniquet Application** procedure).
4. Establish large bore IV(s) and infuse one (1) to two (2) liters of Normal Saline just prior to removal of patient when practical.
5. Treat patient pain per the **Pain Management Procedure**.
6. Initiate cardiac monitoring and assess for hyperkalemia, i.e. wide QRS or peaked T waves.
7. Perform 12-Lead ECG, if conditions allow.
8. Administer **Oxygen** to patient if environment allows.
9. Administer **Sodium Bicarbonate**
   a. Adults 100 mEq IVP prior to extrication and 50 mEq/hr IVPB or slow IVP if extrication is prolonged and hyperkalemia is suspected.
   b. Pediatrics 1 mEq/kg (max dose 50 mEq) IV
10. Consider **Albuterol** 2.5 mg via NMT (nebulized mist treatment) during extrication process.
11. Administer **Calcium Chloride** if hyperkalemia is suspected (peaked T waves, widened QRS, hypotension)
   a. Adults 1 gram slow IVP over 5 minutes
   b. Pediatrics 20 mg/kg, max dose 1 gram over 5 minutes