## SAN FRANCISCO EMERGENCY MEDICAL SERVICES AGENCY

Effective: 01/01/11 Protocol: P-032

**Supersedes: 09/01/06** 

## **CHEST AND ABDOMINAL TRAUMA**

### **SUBJECTIVE FINDINGS**

- Mechanism of injury.
- Patient complaints: chest discomfort, respiratory distress, neck discomfort, abdominal pain.
- Past medical history: particularly cardiovascular and respiratory problems, medications, and possibility of pregnancy.

### **OBJECTIVE FINDINGS**

- Wounds, bruising, paradoxical chest wall movement, rib cage/sternal and pelvic stability, crepitus, areas of tenderness, abdominal rigidity and guarding.
- Neck veins, tracheal position, air leaks, breath sounds, heart sounds, pulse pressure, oxygen saturation, skin signs, cardiac rhythm, blood pressures in both arms.

#### **BLS Treatment ALS Treatment** • High flow oxygen 10-15 L/min, assist Advanced airway as indicated ventilations with BVM and 100% oxygen as Needle thoracotomy for suspected tension needed pneumothorax Control external bleeding with direct • IV of NS with large-bore catheters pressure Fluid challenge if patient is hypotensive For open chest wound with air leak, according to the following guidelines: occlusive dressing taped on 3 sides Injury mechanism of blunt trauma: for the Cover evisceration with moist saline gauze SBP of 90 with AMS infuse a bolus of 300 to prevent further contamination or drying ml of crystalloid. Document full effect of Immobilize impaled objects in place to bolus i.e. B/P, heart rate, and prevent further movement improvement in mental status when infusion is finished RMC If pregnant > 5 months gestation, place in Injury mechanism of penetrating trauma: IV access TKO, unless SBP drops to less the left lateral position; if transporting than 60. If SBP is less than 60, infuse a with full C-Spine precautions, tilt the spine bolus of 300 ml of crystalloid to achieve board to the left SBP of 60.

### **BASE HOSPITAL CONTACT CRITERIA**

- Consider Morphine sulfate, 4 mg IVP, and repeat to max of 20 mg in patients with no
  evidence of head injury (GCS < 15) or signs of hypoperfusion. Use smaller doses if patient is
  very young or elderly.</li>
- Consider Ondansetron 4 mg IV/IM for nausea/vomiting, may be repeated q 20" to a maximum of 12 mg.

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# **DOCUMENTATION**

Oxygen given.
Chest exam documented.
IV of NS established.

### **PRECAUTIONS AND COMMENTS**

- Chest injuries significant enough to cause respiratory distress are commonly associated with significant internal blood loss. Reassess frequently for signs and symptoms of hypovolemia.
- Significant intra-thoracic or intra-abdominal injury may occur without any external signs of injury, particularly in children. Consider the mechanism of injury and the forces involved and be highly suspicious of occult trauma.
- Consider pre-existing medical causes of respiratory distress such as bronchospasm, pulmonary edema, or COPD.
- If there is any question as to the hemodynamic status of a patient when administering **Morphine sulfate** the Base Hospital shall be contacted.