

SAN FRANCISCO EMERGENCY MEDICAL SERVICES AGENCY

Effective: 01/01/11
Supersedes: 09/01/06

Protocol: P-034

HEAD, NECK AND FACIAL TRAUMA

SUBJECTIVE FINDINGS

- Mechanism of injury.
- Medical history: cardiovascular problems, diabetes, seizure disorder.

OBJECTIVE FINDINGS:

- Signs of airway obstruction: stridor, abnormal voice, difficulty breathing.
- Glasgow Coma Scale.
- Neurologic impairment or focal deficit (paralysis/paresthesias).
- External evidence of trauma: wounds, deformities, swelling, ecchymosis, contusions, tenderness, crepitus, pupil exam, double vision, altered extra-ocular movement, blood or fluid from ears or nose.

BLS Treatment	ALS Treatment
<ul style="list-style-type: none">• High flow oxygen 10-15 L/min via non-rebreather mask.• C-spine immobilization.• Control external bleeding with direct pressure.• Stabilize impaled objects with bulky damp dressing and leave in place (only impaled objects that obstruct the airway can be removed).• Apply cold pack to soft tissue swelling.• If eye is injured, cover both eyes with dressings.• Keep avulsed teeth in saline soaked gauze and transport with patient.• Routine Medical Care.	<ul style="list-style-type: none">• Monitor for airway obstruction (i.e. swelling, blood, secretions).• Advanced airway management as indicated while maintaining spinal immobilization. NOTE: Nasotracheal intubation should NOT be performed in the presence of significant mid-facial trauma.• IV of NS.• Fluid challenge if patient is hypotensive according to the following guidelines:<ul style="list-style-type: none">- Injury mechanism of blunt trauma: for the SBP of 90 with AMS infuse a bolus of 300 ml of crystalloid. Document full effect of bolus i.e. B/P, heart rate, and improvement in mental status when infusion is finished- Injury mechanism of penetrating trauma: IV access TKO, unless SBP drops to less than 60. If SBP is less than 60, infuse a bolus of 300 ml of crystalloid to achieve SBP of 60.
BASE HOSPITAL CONTACT CRITERIA	
<ul style="list-style-type: none">• Consider Morphine sulfate, 4 mg slow IVP, 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.• Consider Ondansetron 4 mg IV/IM for nausea/vomiting, may be repeated q 20" to a maximum dose of 12 mg.	

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DOCUMENTATION

C-spine precautions.

Airway interventions follow AIRWAY MANAGEMENT algorithm (P-004).

PRECAUTIONS AND COMMENTS

- If head injury patient deteriorates, recheck for problems with airway, breathing, or circulation.
- Be prepared to turn entire spine board on side and suction if patient vomits.
- Avoid prophylactic hyperventilation in the field. Hyperventilation for head trauma is indicated **only** for signs of cerebral herniation such as posturing, pupillary abnormalities or sudden neurologic deterioration not due to hypotension or hypoxemia. Hyperventilation for adults is 16-20 breaths per minute.
- If there is any question as to the hemodynamic status of a patient when administering **Morphine sulfate** the Base Hospital shall be contacted.