Southern Illinois Regional EMS System

DD-2 SPINAL INJURIES

Suspect spinal injury in ALL patients with:

- Head or facial trauma
 - o Injuries above the clavicles
- Patients with decreased or altered level of consciousness when events leading to the episode are unknown or altered mental status.
- Suspected deceleration injuries
- Motor Vehicle Collision
 - Ejection in high speed MVC
- Falls including:
 - o Ground level fall.
 - o 3x patient's height or 15 feet
- Axial load
- Diving accidents
- Sports injuries to head or neck
- Unconscious trauma patient
- Abnormal sensory/motor exam findings
- Physical findings suggesting neck or back injury
- Other distracting injuries or positive findings consistent with a spinal injury

Management

- Patient Assessment and Initial Care protocol
- Consider spinal immobilization
 - o Including consideration of exclusion criteria (note below)
- Oxygen therapy as appropriate
 - o 1-6 LPM by cannula: minimal distress.
 - o 12-15 LPM by NRB mask: moderate/severe distress with signs of hypoxia.
 - o 15 LPM by BVM: inadequate rate/effort, severe distress, unstable.
 - o Maintain SpO2 > 94%
- Establish vascular access
 - o NS at TKO rate
- Look for signs/symptoms suggesting neurogenic / spinal shock.
 - o Absence of sweating below the level of injury.
 - o Absence of tachycardia with significant MOI and signs/symptoms of shock.
 - Acute hypotension without signs of hypovolemia.
- Treatment for Neurogenic Shock:
 - o IV fluid challenge in 200 mL increments.
 - o Repeat BP and breath sound assessments after each 200 mL bolus.
- Treat any additional injuries or conditions per appropriate protocol.
- Contact Medical Control

ALS:

- If no response to IV fluids, Medical Control physician may consider:
 - o Dopamine drip starting at 10 mcg/kg/min.
 - o Titrate to desired response (SBP 90-100 mm/Hg), not to exceed 20 mcg/kg/min.

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DD-2 SPINAL INJURIES (continued)

Note:

Backboard Exclusion Criteria:

- Patients can be transported with a cervical collar but without the use of a long backboard if the following criteria are present:
 - 1. GCS of 15 (normal level of consciousness plus the ability to communicate well)
 - 2. No spine tenderness or anatomic abnormality of the spine
 - 3. No neurologic findings or complaints
 - 4. No distracting injury which prevents accurate assessment
 - 5. No intoxication from any substance

Transport with cervical collar, but without long backboard:

- When the Backboard Exclusion Criteria are met
- When there is an extended transport time
- When the patient is found to be ambulatory on scene
 - o This eliminates the "standing take down" with a backboard
 - Assist the patient to a seated position on the stretcher

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