

- Ensure Physical therapy and occupational therapy consulted
- Mobilize once cleared by primary spine team per provider order
- Upright positioning and transfer strategies per therapy team goal of three times a day
- With PT/OT Recommendations:
 - May sit up at 90 degrees on ischium when sitting up in a chair. Start 30 minutes twice daily. Advance 15-30 minutes every 3-5 days as long as skin remains free of wounds or no wound progression. When sitting in chair, provide pressure relief every 15 minutes by leaning side to side and then forward for 15 seconds each or may push up in chair to relieve all buttocks pressure for 15 seconds.
- Range of motion and positioning per therapy team goal of three times a day
- Bedrest on Dolphin mattress/Stryker bed (contraindicated for patient with unstable spine)

Pressure injury prevention

- Refer to the Skin Care and Pressure Injury Prevention and Treatment Pediatric protocol
- All spinal cord injuries should be identified as high-risk despite Braden/Braden QD score; wound nurse consult for high level monitoring and wound prevention;
- Pressure relief seating strategy per therapy team with goal of ninety-degree upright positioning;
- Upright positioning in Neuro chair no longer than two-hour interval;
- Positioning Recommendations:
- Full side-lying
- Implementation of prone positioning as recommended by therapy teams
- Avoid back-lying
- Do not recline chair for comfort return to patient bed
- Turn patient at least every two hours from side to side 30 degrees from supine using patient positioning system;
- Positioning device to bedside: Z-Flo positioners, pressure relief cushion, heel lift boots;
- Do not use foam donuts for pressure relief;
- Send pressure relief cushion with patient at discharge; and
- Elevate HOB less than or equal to 30 degrees due to increased pressure on sacrum when sitting in upright positions.

Pediatric Spinal Cord Injury Post-Acute Management



Disposition

Inpatient rehab recommendations initiated immediately per case management as indicated.

Autonomic Dysreflexia

For patients with injuries T6 and higher:

- Monitor for:
 - Hypertension (> 20 points above baseline) which is sudden and severe in nature;
 - Severe pounding headache;
 - Skin rash (flushed, blotchy, transient);
 - Vasodilation above the level of injury or sweating;
 - Vasoconstriction below the level of the injury pale, cool skin with goosebumps;
 - Blurred vision/pupillary dilation;
 - Anxiety
 - Nausea.
- Management:
 - Notify primary team immediately
 - Remove noxious stimuli where possible
 - Loosen clothing, remove compression stockings, removal abdominal binder
 - Perform urinary catheterization or ensure foley catheter not blocked
 - Bowel disimpaction per provider
 - Look for areas of pressure
 - Position patient upright with head of bed elevated
 - Monitor blood pressure and heart rate Q 5 minutes
 - Discuss potential administration of antihypertensive agent with primary provider

Definitions:

- Incomplete spinal cord injury: preservation of sensory function below the level of injury, or combination of varying degrees of sensory and motor preservation below the level of injury.
- <u>Complete spinal cord injury</u>: complete loss of sensory and motor function below the level of injury.
- <u>ASIA (American Spinal Injury Association) Impairment Scale</u>: International classification system for level of impairment as a result of spinal cord injury.
- <u>Spinal Shock</u>: Temporary loss of autonomic control and muscle tone below the level of injury. May lasts up to 6 weeks after injury. Typically occurs in spinal cord injury to cervical and upper thoracic spinal cord.