

Spinal Cord Syndromes

Cervical Cord Syndromes



- Most commonly injured by a **trauma** or **compression** injury
- Symptoms at thoracic level are present up the L1, then the L1-L5 level of paresthesia, numbness, weakness in **upper extremities**

Thoracic Cord Syndromes



- Most commonly caused by a **trauma** or **compression** injury
- Complete loss of pain & temperature sensation in **lower extremities** below the level of lesion
- Some proprioception & vibration

Lumbar Cord Syndromes



- Most commonly caused by **damage to the thoracic vertebrae**
- Complete loss of proprioception, vibration, & sensation
- Motor function is intact

Cauda Equina Syndromes



- Caused by **damage to nerve roots of the lumbar & sacral spine**
- Loss of function in **lower extremities**
- Can cause numbness in the groin (saddle anesthesia)

Conus Medullaris Syndromes



- Most commonly caused by **compression** fracture
- Asymmetrically**, loss of motor function, vibration, sensation, & proprioception in **lower extremities**
- Complete loss of pain, temperature, & sensation

Conus Medullaris Syndromes



- Caused by **damage to the conus medullaris**, **apical ends of spinal cord**
- Asymmetrically, loss of motor function, vibration, sensation, & proprioception in **lower extremities**

The American Spinal Injury Association (ASIA) Impairment Scale

The ASIA Impairment Scale is a standardized neurological examination used to assess motor & sensory impairment following a spinal cord injury.

A

COMPLETE INJURY

- ✗ sensory function below lesion
- ✗ sensory function below lesion

B

INCOMPLETE INJURY

- ✗ sensory function below lesion
- ✓ sensory function below lesion

C

INCOMPLETE INJURY

- ✓ sensory function below lesion
- ✓ sensory function below lesion

muscle grade $\leq$ 3/5

D

INCOMPLETE INJURY

- ✓ sensory function below lesion
- ✓ sensory function below lesion

muscle grade $\geq$ 3/5

FUNCTION REMAINS

- ✓ sensory function below lesion
- ✓ sensory function below lesion

Spinal Cord Injury

Occupational Therapy Study Guide

Myelomeres & Functions

Level	Autonomic/Physiologic Function	Motor
C1-C2	Upper extremity motor control, swallowing, neck motion	Independent in most activities of daily living, can perform independent manipulations, can use shoulder extension (low function)
C4	Shoulder flexion, elbow flexion	Independent manipulations, can use shoulder extension (low function)
C5	Shoulder flexion, elbow flexion, head/neck motion, partial thoracic	Independent in most activities of daily living, can use shoulder extension (low function)
C6	Forearm wrist extension, extension, pronation, supination, shoulder flexion, head/neck	Independent in most activities of daily living, can use shoulder extension (low function)
C7	Extension, flexion, pronation, supination, forearm, wrist, extension, flexion, head/neck, head/neck	Independent in most activities of daily living, can use shoulder extension (low function)
C8	Extension, flexion, pronation, supination, forearm, wrist, extension, flexion, head/neck, head/neck	Independent in most activities of daily living, can use shoulder extension (low function)
T1-T12	Control of pelvic movement, head/neck, head/neck, extension, flexion, upper extremities	Independent in most activities of daily living, can use shoulder extension (low function)
L1-L5	Extension of leg	Independent in most activities of daily living, can use shoulder extension (low function)

Printable Pack

Spinal Cord Injury Levels

C1-C2	neck flexion & extension, no posture
C3	limited neck flexion, no shoulder
C4	shoulder extension, manipulation, no shoulder flexion
C5	shoulder able to flexion, flexion, no shoulder extension, no
C6	arm, no wrist
C7	elbow, no, wrist flex, & finger
C8	shoulder flexion, shoulder extension, & finger flexion, no
T1-T12	finger, shoulder
L1-L2	ankle, control
L3-L4	leg flexion
L5	ankle extension, no, great toe up
S1	leg flexion
S2	plantar flexion, no, great toe down

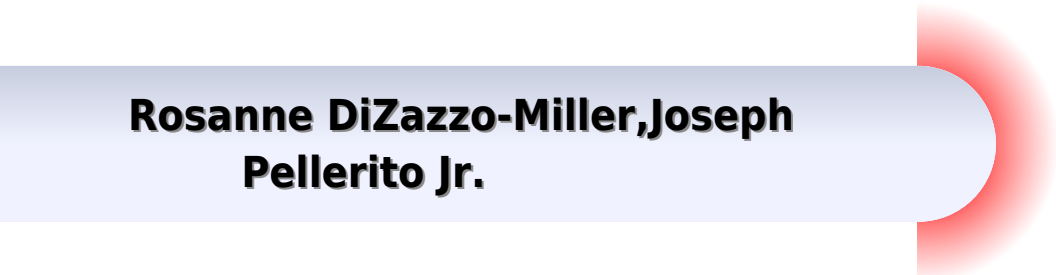
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Based on the ASIA Grade A (complete) injury. Specific functions will vary by ASIA level.

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**Rosanne DiZazzo-Miller, Joseph
Pellerito Jr.**



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