RCS 6080 Medical and Psychosocial Aspects of Rehabilitation Counseling

Spinal Cord Injury

Spinal Cord Injury

- Epidemiology
 - 30-40 million per year
 - 10,000 new cases per year
- Etiology
 - Motor vehicle accident: 44.5%
 - Falls: 18.1%
 - Violence: 16.6% (and increasing)

Spinal Cord Injury

- Classification
 - Paraplegia/Tetraplegia
 - ASIA Impairment Scale
 - ASIA Motor/Sensory
 - FIM functional limitations
- Acute Care Management
 - Immediate spinal immobilization
 - Methylprednisolone within 8 hours of injury

Spinal Cord Injury

- Economic Consequences
 - Between \$7.3 billion and \$8.3 billion per year
 - A person with a high cervical injury at age 25 incurs lifetime costs of more than \$3 million
- Rehabilitation Treatment
 - Systematic, intensive, coordinated team approach

Spinal Cord Injury

- · Potential Complications
 - Deep venous thrombosis (47-100%)
 - Pulmonary embolism (3-15%)
 - Pressure ulcers (25% annual incidence)
 - Pneumonia
 - Autonomic dysreflexia (usually above T6)
 - Spasticity (78%) and Spasms (95%)
 - Heterotopic ossification (16-53%)
 - Gastrointestinal complications (e.g., impactions 33%)

Spinal Cord Injury

- Potential Complications
 - Urinary tract infections
 - Chronic pain (69%, severe 33%)
 - Overuse syndrome (35-68%)
 - Post-traumatic syringomyelia (1-5%)

Spinal Cord Injury

- Capabilities and Considerations According to Level of Spinal Cord Injury (complete)
 - C1-C3
 - C4 - C5
 - C5 - C6
 - C0
 - C7 - T1-T8
 - T9-T12

Spinal Cord Injury

- Capabilities and Considerations According to Level of Spinal Cord Injury (complete)
 - L1**-**L2
 - L3**-**L5
 - S1-S5

Additional Resources and Information from the Web

- American Spinal Cord Injury Association (<u>www.asia-spinalinjury.org</u>)
- TIRR Spinal Cord Injury Research Program (<u>www.tirr.org/research/?page=54</u>)
- Spinal Cord Injury Information Network (www.spinalcord.uab.edu/show.asp?durki=19679)
- American Paraplegia Society (<u>www.apssci.org</u>)

Additional Resources and Information from the Web

- National Spinal Cord Injury Association (<u>www.spinalcord.org</u>)
- Christopher & Dana Reeve Paralysis Resource Center (<u>www.paralysis.org</u>)
- Paralyzed Veterans of America (<u>www.pva.org</u>)
- American Association of Spinal Cord Injury Psychologists and Social Workers (www.aascipsw.org)