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MANAGEMENT OF SPINAL CORD INJURIES



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GW

56 yr old – 12 yrs post T7 ASIA A SCI

Chronic Pain Syndrome

Pressure sore – osteomyelitis

Suprapubic catheter – urosepsis

CTS – Ulnar neuropathy



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EPIDEMIOLOGY

40 cases/million – 12,000/year
4:1 men/women

Etiology

- MVA
- Falls
- GSW
- Diving

Mean age - 33



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Level of Injury

Cervical 53%

Thoracic 34%

Lumbosacral 10%



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Life Expectancy Treated at Model Systems

<u>Age</u>	<u>No Injury</u>	<u>Paraplegia</u>	<u>Tetraplegia</u>
Age 30	49.3	36.7	32.3 (L) 28.8 (H)



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Primary Causes of Death

Respiratory
Cardiac
Infection



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LIFETIME COSTS – model systems

(age 25) 2008 dollars

High Cervical - \$3,160,000

Low Cervical - \$1,786,000

Paraplegia - \$1,055,000



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CLASSIFICATION

ASIA scale



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Acute SCI Management

Surgical

Medical

Respiratory

Cardiovascular

DVT

PE

BP



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Acute and Chronic Spinal Cord Injury Rehabilitation

Pressure ulcers

Spasticity

Neurogenic bowel and bladder

Pain



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Musculoskeletal

Heterotopic Ossification

Contractures

Autonomic Dysreflexia

Neurologic

Compression Neuropathy

Syrinx

Spasticity



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ADJUSTMENT

Education

Self Management

Lifestyle

Weight

Smoking

Substances



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SEXUALITY



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PSYCHOSOCIAL VOCATIONAL

Caregivers



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AVOCATIONAL / SPORTS



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FOLLOW-UP CARE

PCP

Physiatrist

Urologist



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Aging with Spinal Cord Injury

Skin

MSK

Equipment

Psychosocial



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Research



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Chronic Complications of Spinal Cord Injury

Sezer, et.al

World Journal of Orthopedics

January 18, 2015, 24-33

Spinal Cord Medicine

Kirshblum, et.al

2011



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ASIA scales refer to

- 1) Customer satisfaction data for Far East travel
- 2) Classification scheme for spinal cord injuries
- 3) Ranking system for Asian economics



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A patient with ASIA A spinal cord injury has no motor or sensory function below the level of lesion.

True

False



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All of the following are recognized complications of spinal cord injury except

- 1) Pressure sores
- 2) Neurogenic bladder
- 3) Heterotopic ossification
- 4) Cataracts



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GV

18 yr old – T12 ASIA A

Colostomy

Indwelling Catheter

Heterotopic Ossification