



INTERNATIONAL STANDARDS FOR NEUROLOGICAL
CLASSIFICATION OF SPINAL CORD INJURY
(ISNCSCI)



Date of Exam _____ Time of Exam _____

Examiner Name _____ Signature _____

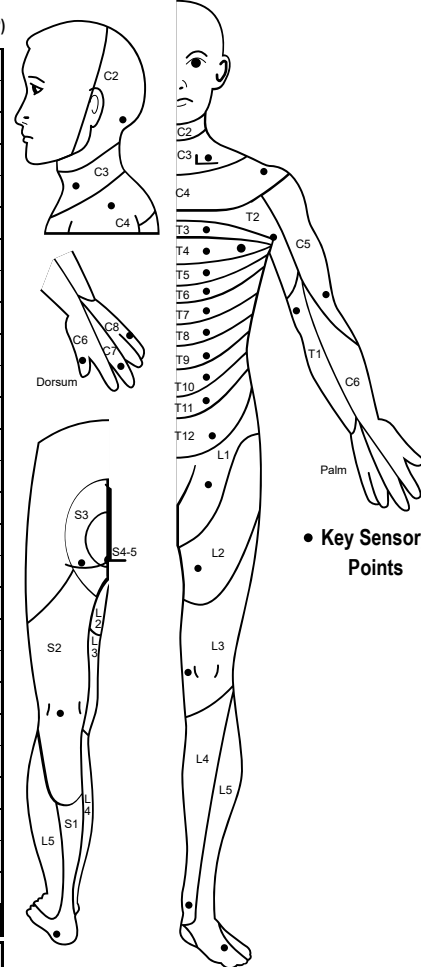
☐ PT ☐ Spine Surgeon ☐ Physiatrist ☐ CNS ☐ Other (specify): _____

RIGHT

**MOTOR
KEY MUSCLES**

**SENSORY
KEY SENSORY POINTS**
Light Touch (LT) Pin Prick (PP)

C2			
C3			
C4			
C5			
C6			
C7			
C8			
T1			
T2			
T3			
T4			
T5			
T6			
T7			
T8			
T9			
T10			
T11			
T12			
L1			
L2			
L3			
L4			
L5			
S1			
S2			
S3			
S4-5			
RIGHT TOTALS			



• Key Sensory Points

**SENSORY
KEY SENSORY POINTS**
Light Touch (LT) Pin Prick (PP)

C2			
C3			
C4			
C5			
C6			
C7			
C8			
T1			
T2			
T3			
T4			
T5			
T6			
T7			
T8			
T9			
T10			
T11			
T12			
L1			
L2			
L3			
L4			
L5			
S1			
S2			
S3			
S4-5			
LEFT TOTALS			

**MOTOR
KEY MUSCLES**

LEFT

C2			
C3			
C4			
C5			
C6			
C7			
C8			
T1			
T2			
T3			
T4			
T5			
T6			
T7			
T8			
T9			
T10			
T11			
T12			
L1			
L2			
L3			
L4			
L5			
S1			
S2			
S3			
S4-5			
LEFT TOTALS			

UER
(Upper Extremity Right)

Elbow flexors C5
Wrist extensors C6
Elbow extensors C7
Finger flexors C8
Finger abductors (little finger) T1

UEL
(Upper Extremity Left)

Elbow flexors C5
Wrist extensors C6
Elbow extensors C7
Finger flexors C8
Finger abductors (little finger) T1

**MOTOR
(SCORING ON REVERSE SIDE)**

0 = total paralysis
1 = palpable or visible contraction
2 = active movement, gravity eliminated
3 = active movement, against gravity
4 = active movement, against some resistance
5 = active movement, against full resistance
NT = not testable
0*, 1*, 2*, 3*, 4*, NT* = Non-SCI condition present

**SENSORY
(SCORING ON REVERSE SIDE)**

0 = absent
1 = altered
2 = normal
NT = not testable
0*, 1*, NT* = Non-SCI condition present

Comments (Non-key Muscle? Reason for NT? Pain? Non-SCI condition?):

LER
(Lower Extremity Right)

Hip flexors L2
Knee extensors L3
Ankle dorsiflexors L4
Long toe extensors L5
Ankle plantar flexors S1

LEL
(Lower Extremity Left)

Hip flexors L2
Knee extensors L3
Ankle dorsiflexors L4
Long toe extensors L5
Ankle plantar flexors S1

(VAC) Voluntary anal contraction (Yes/No) ☐

(DAP) Deep anal pressure (Yes/No) ☐

MOTOR SUBSCORES

UER + UEL = UEMS TOTAL
MAX (25) (25) (50)

LER + LEL = LEMS TOTAL
MAX (25) (25) (50)

SENSORY SUBSCORES

LTR + LTL = LT TOTAL
MAX (56) (56) (112)

PPR + PPL = PP TOTAL
MAX (56) (56) (112)

BCR Status ☐ Present ☐ Absent ☐ Unknown

Cauda Equina Syndrome: ☐ Yes ☐ No ☐ Unknown

Need help? Automated classification available at: www.isncscialgorithm.com

**NEUROLOGICAL
LEVELS**

Steps 1-6 for classification as on reverse

1. SENSORY R L
2. MOTOR R L
3. NEUROLOGICAL LEVEL OF INJURY (NLI)

4. COMPLETE OR INCOMPLETE?
Incomplete = Any sensory or motor function in S4-5
5. ASIA IMPAIRMENT SCALE (AIS)

(In injuries with absent motor OR sensory function in S4-5 only)

6. ZONE OF PARTIAL PRESERVATION
Most caudal level with any innervation

SENSORY R L
MOTOR R L

Other Neurological Deficit

☐ Myelopathy
☐ Periph. nerve injury NO cord injury
☐ Periph. nerve injury with cord injury
☐ None
☐ Unknown