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

ASIA American Spinal Injury Association — ISCOS International Spinal Cord Society

Date of Exam: EXAMDATE Time of Exam: EXAMTIME

Examiner Name: EXAMINERNAME Signature:

O PT O Spine Surgeon O Physiatrist O CNS O Other (specify): EXAMINERTYPEOTHER

EXAMINERTYPE

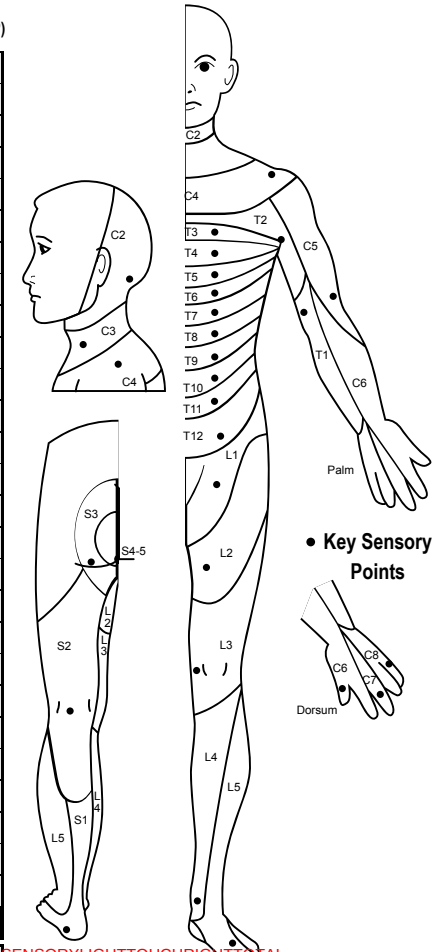
RIGHT

		MOTOR KEY MUSCLES	SENSORY KEY SENSORY POINTS Light Touch (LT)	SENSORY KEY SENSORY POINTS Pin Prick (PP)
	C2		SENSORYLIGHTTOUCHC2RIGHT	SENSORYPINPRICKC2RIGHT
	C3		SENSORYLIGHTTOUCHC3RIGHT	SENSORYPINPRICKC3RIGHT
	C4		SENSORYLIGHTTOUCHC4RIGHT	SENSORYPINPRICKC4RIGHT
UER (Upper Extremity Right)	C5 Elbow flexors	MOTORUPPERLIMBC5RIGHT	SENSORYLIGHTTOUCHC5RIGHT	SENSORYPINPRICKC5RIGHT
	C6 Wrist extensors	MOTORUPPERLIMBC6RIGHT	SENSORYLIGHTTOUCHC6RIGHT	SENSORYPINPRICKC6RIGHT
	C7 Elbow extensors	MOTORUPPERLIMBC7RIGHT	SENSORYLIGHTTOUCHC7RIGHT	SENSORYPINPRICKC7RIGHT
	C8 Finger flexors	MOTORUPPERLIMBC8RIGHT	SENSORYLIGHTTOUCHC8RIGHT	SENSORYPINPRICKC8RIGHT
	T1 Finger abductors (little finger)	MOTORUPPERLIMBT1RIGHT	SENSORYLIGHTTOUCHT1RIGHT	SENSORYPINPRICKT1RIGHT
	T2		SENSORYLIGHTTOUCHT2RIGHT	SENSORYPINPRICKT2RIGHT
	T3		SENSORYLIGHTTOUCHT3RIGHT	SENSORYPINPRICKT3RIGHT
	T4		SENSORYLIGHTTOUCHT4RIGHT	SENSORYPINPRICKT4RIGHT
	T5		SENSORYLIGHTTOUCHT5RIGHT	SENSORYPINPRICKT5RIGHT
	T6		SENSORYLIGHTTOUCHT6RIGHT	SENSORYPINPRICKT6RIGHT
	T7		SENSORYLIGHTTOUCHT7RIGHT	SENSORYPINPRICKT7RIGHT
	T8		SENSORYLIGHTTOUCHT8RIGHT	SENSORYPINPRICKT8RIGHT
	T9		SENSORYLIGHTTOUCHT9RIGHT	SENSORYPINPRICKT9RIGHT
	T10		SENSORYLIGHTTOUCHT10RIGHT	SENSORYPINPRICKT10RIGHT
	T11		SENSORYLIGHTTOUCHT11RIGHT	SENSORYPINPRICKT11RIGHT
	T12		SENSORYLIGHTTOUCHT12RIGHT	SENSORYPINPRICKT12RIGHT
	L1		SENSORYLIGHTTOUCHL1RIGHT	SENSORYPINPRICKL1RIGHT
LER (Lower Extremity Right)	L2 Hip flexors	MOTORLOWERLIMBL2RIGHT	SENSORYLIGHTTOUCHL2RIGHT	SENSORYPINPRICKL2RIGHT
	L3 Knee extensors	MOTORLOWERLIMBL3RIGHT	SENSORYLIGHTTOUCHL3RIGHT	SENSORYPINPRICKL3RIGHT
	L4 Ankle dorsiflexors	MOTORLOWERLIMBL4RIGHT	SENSORYLIGHTTOUCHL4RIGHT	SENSORYPINPRICKL4RIGHT
	L5 Long toe extensors	MOTORLOWERLIMBL5RIGHT	SENSORYLIGHTTOUCHL5RIGHT	SENSORYPINPRICKL5RIGHT
	S1 Ankle plantar flexors	MOTORLOWERLIMBS1RIGHT	SENSORYLIGHTTOUCHS1RIGHT	SENSORYPINPRICKS1RIGHT
	S2		SENSORYLIGHTTOUCHS2RIGHT	SENSORYPINPRICKS2RIGHT
	S3		SENSORYLIGHTTOUCHS3RIGHT	SENSORYPINPRICKS3RIGHT
	S4-5		SENSORYLIGHTTOUCHS4_5RIGHT	SENSORYPINPRICKS4_5RIGHT
	RIGHT TOTALS		SENSORYLIGHTTOUCHRIGHTTOTAL	SENSORYPINPRICKRIGHTTOTAL
	(MAXIMUM)	(50)	(56)	(56)

Comments (Non-key Muscle / Reason for NT / Pain / ...)

COMMENTS

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



LEFT

		MOTOR KEY MUSCLES	SENSORY KEY SENSORY POINTS Light Touch (LT)	SENSORY KEY SENSORY POINTS Pin Prick (PP)
	C2		SENSORYLIGHTTOUCHC2LEFT	SENSORYPINPRICKC2LEFT
	C3		SENSORYLIGHTTOUCHC3LEFT	SENSORYPINPRICKC3LEFT
	C4		SENSORYLIGHTTOUCHC4LEFT	SENSORYPINPRICKC4LEFT
UEL (Upper Extremity Left)	C5 Elbow flexors	MOTORUPPERLIMBC5LEFT	SENSORYLIGHTTOUCHC5LEFT	SENSORYPINPRICKC5LEFT
	C6 Wrist extensors	MOTORUPPERLIMBC6LEFT	SENSORYLIGHTTOUCHC6LEFT	SENSORYPINPRICKC6LEFT
	C7 Elbow extensors	MOTORUPPERLIMBC7LEFT	SENSORYLIGHTTOUCHC7LEFT	SENSORYPINPRICKC7LEFT
	C8 Finger flexors	MOTORUPPERLIMBC8LEFT	SENSORYLIGHTTOUCHC8LEFT	SENSORYPINPRICKC8LEFT
	T1 Finger abductors (little finger)	MOTORUPPERLIMBT1LEFT	SENSORYLIGHTTOUCHT1LEFT	SENSORYPINPRICKT1LEFT
	T2		SENSORYLIGHTTOUCHT2LEFT	SENSORYPINPRICKT2LEFT
	T3		SENSORYLIGHTTOUCHT3LEFT	SENSORYPINPRICKT3LEFT
	T4		SENSORYLIGHTTOUCHT4LEFT	SENSORYPINPRICKT4LEFT
	T5		SENSORYLIGHTTOUCHT5LEFT	SENSORYPINPRICKT5LEFT
	T6		SENSORYLIGHTTOUCHT6LEFT	SENSORYPINPRICKT6LEFT
	T7		SENSORYLIGHTTOUCHT7LEFT	SENSORYPINPRICKT7LEFT
	T8		SENSORYLIGHTTOUCHT8LEFT	SENSORYPINPRICKT8LEFT
	T9		SENSORYLIGHTTOUCHT9LEFT	SENSORYPINPRICKT9LEFT
	T10		SENSORYLIGHTTOUCHT10LEFT	SENSORYPINPRICKT10LEFT
	T11		SENSORYLIGHTTOUCHT11LEFT	SENSORYPINPRICKT11LEFT
	T12		SENSORYLIGHTTOUCHT12LEFT	SENSORYPINPRICKT12LEFT
	L1		SENSORYLIGHTTOUCHL1LEFT	SENSORYPINPRICKL1LEFT
LEL (Lower Extremity Left)	L2 Hip flexors	MOTORLOWERLIMBL2LEFT	SENSORYLIGHTTOUCHL2LEFT	SENSORYPINPRICKL2LEFT
	L3 Knee extensors	MOTORLOWERLIMBL3LEFT	SENSORYLIGHTTOUCHL3LEFT	SENSORYPINPRICKL3LEFT
	L4 Ankle dorsiflexors	MOTORLOWERLIMBL4LEFT	SENSORYLIGHTTOUCHL4LEFT	SENSORYPINPRICKL4LEFT
	L5 Long toe extensors	MOTORLOWERLIMBL5LEFT	SENSORYLIGHTTOUCHL5LEFT	SENSORYPINPRICKL5LEFT
	S1 Ankle plantar flexors	MOTORLOWERLIMBS1LEFT	SENSORYLIGHTTOUCHS1LEFT	SENSORYPINPRICKS1LEFT
	S2		SENSORYLIGHTTOUCHS2LEFT	SENSORYPINPRICKS2LEFT
	S3		SENSORYLIGHTTOUCHS3LEFT	SENSORYPINPRICKS3LEFT
	S4-5		SENSORYLIGHTTOUCHS4_5LEFT	SENSORYPINPRICKS4_5LEFT
	LEFT TOTALS		SENSORYLIGHTTOUCHLEFTTOTAL	SENSORYPINPRICKLEFTTOTAL
	(MAXIMUM)	(50)	(56)	(56)

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
5* = normal, corrected for pain/disuse
NT = not testable

SENSORY (SCORING ON REVERSE SIDE)
0 = absent
1 = altered
2 = normal
NT = not testable

(DAP) Deep anal pressure (Yes/No) ANALSENSATION

MOTOR SUBSCORES

MOTORUPPERLIMBLEFTTOTAL MOTORUPPERLIMBTOTAL MOTORLOWERLIMBLEFTTOTAL

UER [ ] + UEL [ ] = *UEMS TOTAL* [ ] LER [ ] + LEL [ ] = *LEMS TOTAL* [ ]

MAX (25) (25) (50) MAX (25) (25) (50)

MOTORUPPERLIMBRIGHTTOTAL MOTORLOWERLIMBRIGHTTOTAL MOTORLOWERLIMBTOTAL

SENSORY SUBSCORES

SENSORYLIGHTTOUCHTOTAL SENSORYPINPRICKTOTAL

LTR [ ] + LTL [ ] = *LT TOTAL* [ ] PPR [ ] + PPL [ ] = *PP TOTAL* [ ]

MAX (56) (56) (112) MAX (56) (56) (112)

BCR Status O Present O Absent O Unknown BCRSTATUS

Cauda Equina Syndrome: ☐ Yes ☐ No ☐ Unknown CAUDAEQUINASYNDROME

SENSORYZONEPARTIALPRESERVATIONRIGHT SENSORYZONEPARTIALPRESERVATIONLEFT
MOTORZONEPARTIALPRESERVATIONRIGHT MOTORZONEPARTIALPRESERVATIONLEFT

NEUROLOGICAL LEVELS

Steps 1-5 for classification as on reverse

	R	L
1. SENSORY		
2. MOTOR		

SENSORYNEUROLOGICALLEVELRIGHT MOTORNEUROLOGICALLEVELRIGHT

3. NEUROLOGICAL LEVEL OF INJURY (NLI) [ ]

SENSORYNEUROLOGICALLEVELLEFT MOTORNEUROLOGICALLEVELLEFT

SINGLENEUROLOGICALLEVEL

4. COMPLETE OR INCOMPLETE? [ ]
Incomplete = Any sensory or motor function in S4-5

ASIAIMPAIRMENTSCALE

5. ASIA IMPAIRMENT SCALE (AIS) [ ]

SINGLENEUROLOGICALLEVELCALCULATED
ASIAIMPAIRMENTSCALECALCULATED

ZONE OF PARTIAL PRESERVATION
(In complete injuries only)
Most caudal level with any innervation

	R	L
SENSORY		
MOTOR		

Other Neurological Deficit
☐ Myelopathy OTHERNEUROLOGICALDEFICIT
☐ Periph. nerve injury NO cord injury
☐ Periph. nerve Injury with cord injury
☐ None
☐ Unknown

BCRSTATUS CAUDAEQUINASYNDROME