Patient Name		\bigcirc	\square
Examiner Name	Date/Time of Exam		
AMERICAN SPINAL INJURY ASSOCIATION STANDARD NEUROLOGICAL OF SPINAL CORD			
R L Image: Control on reverse side Light: R C5 Elbow flexors R L C7 Elbow extensors C2 R L C7 Elbow extensors C2 C3 L L C7 Elbow extensors C2 C3 L L C7 Elbow extensors C2 C3 L L T1 Finger flexors (distal phalanx of middle finger) C4 L L UPPER LIMB + = = C6 C7 C8 L C6 C7 C6 C7 C6 C7 C6 C7 C6 C7 C6 C7 C8 C6 C7 C7 C6 C7 C7 C6 C7 C7 C6 C7 C	SENSORY PRICK R L 0 = absent 1 = impaired 2 = normal NT = not testable C C T T C C T T C C T D C C C C C C C C C C C C C	$\begin{array}{c} C3 \\ \hline \\ C4 \\ \hline \\ T2 \\ \hline \\ T3 \\ \hline \\ T4 \\ \hline \\ \hline \\ T5 \\ \hline \\ \hline \\ T6 \\ \hline \\ \hline \\ T7 \\ \hline \\ \hline \\ T8 \\ \hline \\ \hline \\ T9 \\ \hline \\ \hline \\ T10 \\ \hline \\ T10 \\ \hline \\ T11 \\ \hline \\ T12 \\ \hline \\ L1 $	C5 • T1 C6 Palm
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} Is \\ Any \ anal \ sensation \ (Yes/No) \\ H \\ Is \\ (56) \ (56) \end{array} $		• Key Sensory Points
NEUROLOGICAL R L LEVEL SENSORY Image: Complete and the sensory or motor function in S4-S5 The most caudal segment with normal function MOTOR Image: Complete and the sensory or motor function in S4-S5 Asia IMPAIRMENT SCALE Asia IMPAIRMENT SCALE	ZONE OF PARTIAL R L PRESERVATION SENSORY	S1 S1 S1	

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MUSCLE GRADING

- 0 total paralysis
- 1 palpable or visible contraction
- 2 active movement, full range of motion, gravity eliminated
- 3 active movement, full range of motion, against gravity
- 4 active movement, full range of motion, against gravity and provides some resistance
- 5 active movement, full range of motion, against gravity and provides normal resistance
- 5* muscle able to exert, in examiner's judgement, sufficient resistance to be considered normal if identifiable inhibiting factors were not present

NT not testable. Patient unable to reliably exert effort or muscle unavailable for testing due to factors such as immobilization, pain on effort or contracture.

ASIA IMPAIRMENT SCALE

- ☐ A = Complete: No motor or sensory function is preserved in the sacral segments S4-S5.
- □ B = Incomplete: Sensory but not motor function is preserved below the neurological level and includes the sacral segments S4-S5.
- C = Incomplete: Motor function is preserved below the neurological level, and more than half of key muscles below the neurological level have a muscle grade less than 3.

- D = Incomplete: Motor function is preserved below the neurological level, and at least half of key muscles below the neurological level have a muscle grade of 3 or more.
- **E** = **Normal:** Motor and sensory function are normal.

CLINICAL SYNDROMES	
(OPTIONAL)	

Central Cord

Brown-Sequard

Conus Medullaris

Anterior Cord

Cauda Equina

STEPS IN CLASSIFICATION

The following order is recommended in determining the classification of individuals with SCI.

- 1. Determine sensory levels for right and left sides.
- 2. Determine motor levels for right and left sides. Note: in regions where there is no myotome to test, the motor level is presumed to be the same as the sensory level.
- 3. Determine the single neurological level. *This is the lowest segment where motor and sensory function is nor mal on both sides, and is the most cephalad of the sensory and motor levels determined in steps 1 and 2.*
- 4. Determine whether the injury is Complete or Incomplete (sacral sparing).
 If voluntary anal contraction = No AND all S4-5 sensory scores = 0 AND any anal sensation = No, then injury is COMPLETE. Otherwise injury is incomplete.
- 5. Determine ASIA Impairment Scale (AIS) Grade:

Is injury <u>Complete</u> ?	If YES , AIS=A Record ZPP
NO	(For ZPP record lowest dermatome or myotome on each side with some (non-zero score) preservation)
Is injury	
motor <u>incomplete</u> ?	If NO , AIS=B
YES	(Yes=voluntary anal contraction OR motor function more than three levels below the motor level on a given side.)

Are <u>at least</u> half of the key muscles below the (single) <u>neurological</u> level graded 3 or better?

IO I	YES
V	V
AIS=C	AIS=D

If sensation and motor function is normal in all segments, AIS=E *Note: AIS E is used in follow up testing when an individual with a documented SCI has recovered normal function. If at initial testing no deficits are found, the individual is neurologically intact; the ASIA Impairment Scale does not apply.*