Neurological Assessment Tools

Glasgow Coma Scale

Eye Opening	Verbal Response	Motor Response	Score
		Obeys	6
	Oriented	Localizes	5
Spontaneously	Confused.	Withdraws	4
To sound	Inappropriate Uses words	Abnormal Flexion	3
To pressure	Makes sounds (without word)	Abnormal Extension	2
No eye opening	No vocalization	No Movement	1
____/4	____/5	____/6	___/15

Motor Scoring Scale

5	Able to overcome strong resistance (normal strength)
4	Able to overcome mild resistance (mild weakness)
3	Supports limb against gravity but not resistance
2	Moves but not against gravity
1	Muscle flicker but no movement
0	No muscle movement
___/5	**Score**

Revised: January 29, 2020
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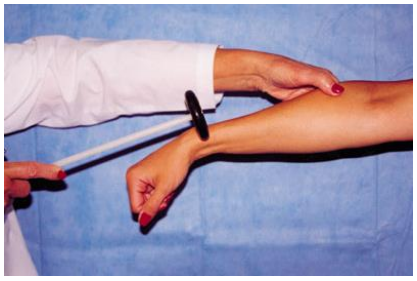
Deep Tendon Reflexes

- Motor weakness associated with increased tone and deep tendon reflexes (3 or 4+), and/or with clonus suggest an upper motor neuron cause for the weakness.
- Motor weakness associated with flaccid paralysis and decreased deep tendon reflexes (< 2+) suggest lower motor neuron cause for the weakness.

Biceps Brachii Tendon
C5, C6

Triceps Tendon
C7, C6



Brachioradialis Tendon
C6, C5

Quadriceps Tendon (knee jerk)
L4, L3, L2

Achilles Tendon (ankle jerk)
S1

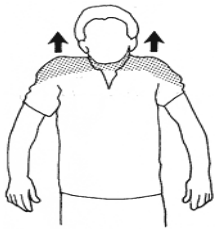
Plantar Reflex (Babinski)

Clonus: Oscillations between flexion and extension

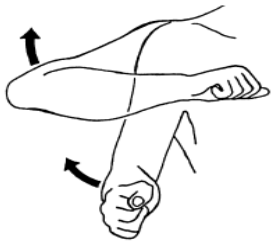
Motor Assessment/Spinal Cord Testing

Level of Function:

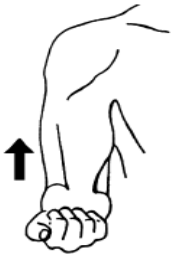
C4: Shrug shoulder



C4, C5: Abduct shoulder



C5: Bend elbow



C6, C7: Extend wrist

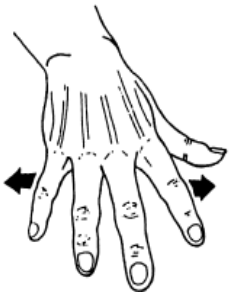
C7: Straighten elbow

C7, C8: Bend wrist toward palm

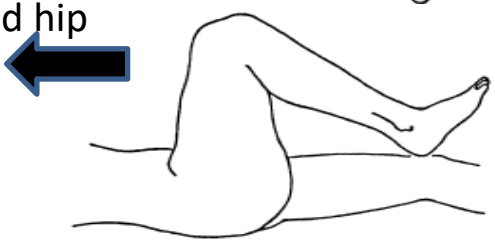
Motor Assessment/Spinal Cord Testing

Level of Function:

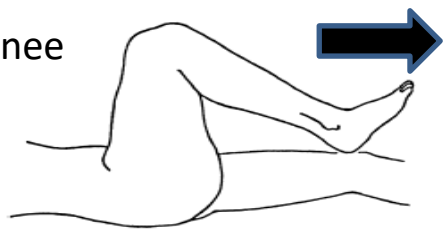
C8: Bend fingers toward palm at first digit joint



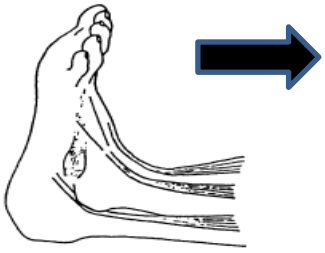
T1: Spread fingers apart



L2, L3: Bend hip



L3, L4: Straighten knee

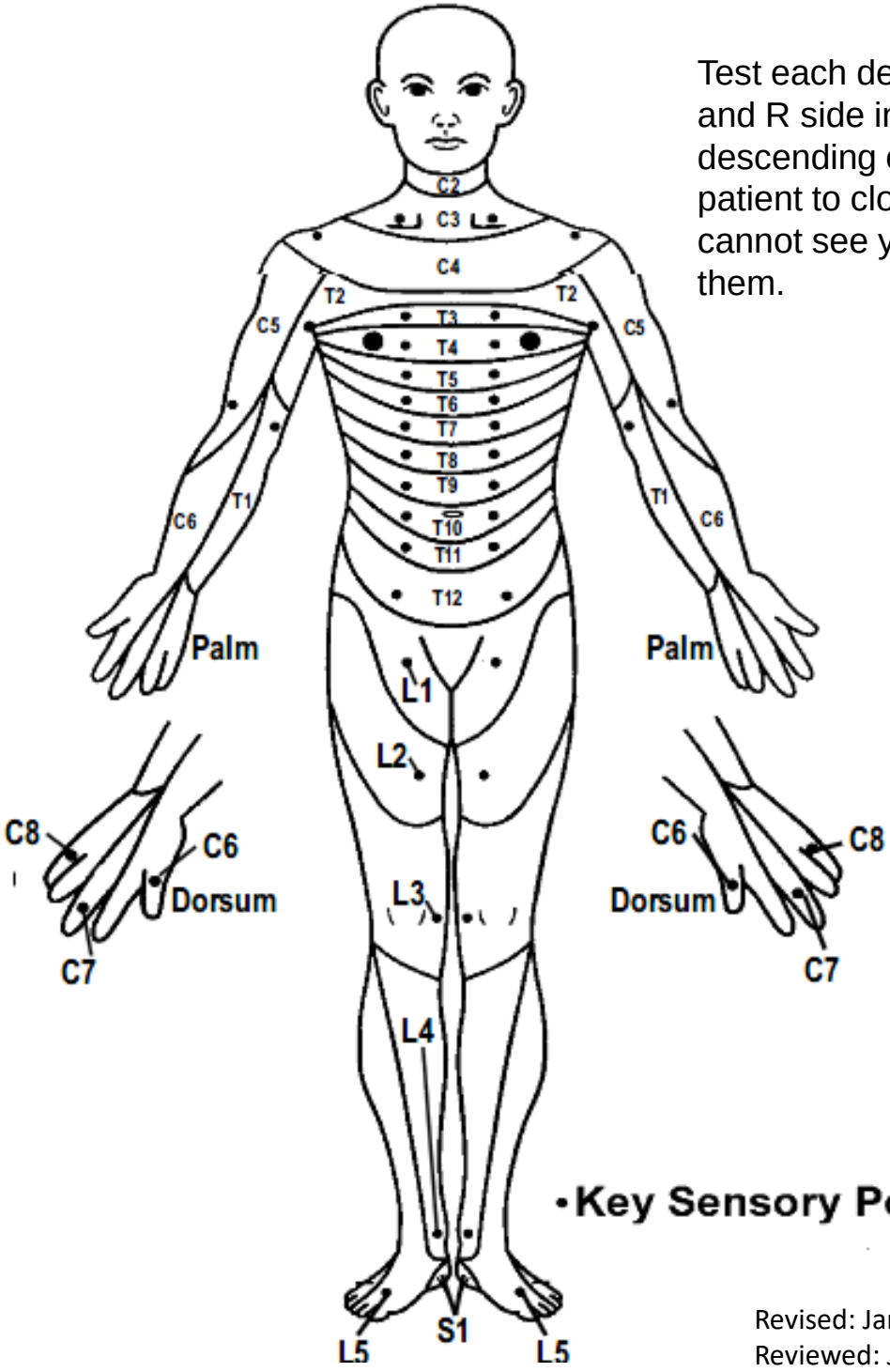


L4, L5: Dorsiflexion (pull toes toward nose)

S1, S2: Plantar flexion (point toes downward)

Sensory Assessment/Spinal Cord Testing

Test sensation twice, once for pin and once for light touch . Use a whisp of tissue for light touch and blunt end needle for pain/pin. Record the highest level of sensation using the dermatome chart below.



Test each dermatome on L and R side in anatomical descending order. Ask patient to close eyes so they cannot see you touching them.

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