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# GRASSP - 2 SCORESHEETS

## SCORESHEETS

### Position of Testing (Check One):

Sitting upright in seating system	Sitting upright in bed	Half sitting in bed (head of bed up 45-60°)	Supine in bed

### Subtest 1 – STRENGTH

Right	Muscles	Left
	M. deltoideus, pars acromialis	
	M. biceps brachii	
	M. triceps brachii	
	M. extensor carpi radialis long/brevis	
	M. extensor digitorum dig 3&4	
	M. opponens pollicis	
	M. flexor pollicis longus	
	M. flexor digitorum profundus dig3	
	M. abductor digiti minimi	
	M. interosseus dorsalis	
<b>/50</b>		<b>/50</b>

### Grading for Strength Testing – Manual Muscle Testing (MMT)

- 0** - M0 - No palpable or visible muscle contraction
- 1** - M1 - Palpable or visible muscle contraction
- 2** - M2 - Moves full ROM with gravity eliminated<sup>1</sup>
- 3** - M3 - Moves full ROM against gravity without added resistance<sup>1</sup>
- 4** - M4 - Holds position of resistance against moderate resistance (moderate = more than M3, less than M5)
- 5** - M5 - Holds position of resistance against maximal resistance (relation to patient age/gender)

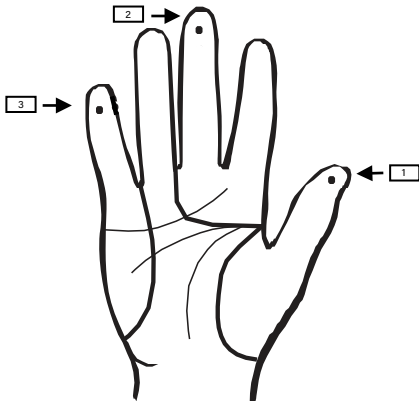
<sup>1</sup>If available pROM = 50% or more of the expected pROM, it can be assessed as full pROM. Expected pROM defined in Table 2

# SCORESHEETS

## Subtest 2 - Sensation

Score	Right Hand							Area	Left Hand							Score	
	3.61 (4)	3.61 (4)	3.61 (4)	4.31 (3)	4.56 (2)	6.65 (1)	NR (0)		3.61 (4)	3.61 (4)	3.61 (4)	4.31 (3)	4.56 (2)	6.65 (1)	NR (0)		
								1									
								2									
								3									
/12																/12	

### Diagram for Sensation Test Locations



### COMMENTS

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## SCORESHEETS

### Subtest 3 – Prehension Ability

Right	Grasp Pattern	Left
	Cylindrical grasp	
	Lateral key pinch	
	Tip to tip pinch	
/12		/12

### Prehension Ability, Instructions and Scoring

- 0 - Participant is not able to position the wrist or fingers in any specific pattern for the requested grasp.
- 1 - Participant is able to move the wrist actively with or without subsequent active or passive finger movements (wrist dominant), while the movement does not reflect the requested grasp pattern.
- 2 Participant is able to partially or completely move the fingers actively into the requested prehension pattern but fails to generate force.
- 3 - Participant is able to actively position the fingers and thumb into the requested prehension pattern with normal wrist movement for a grasp, touching the opposite finger(s) or the palm with some force.
- 4 - Participant is able to perform the grasp with normal strength.

## SCORESHEETS

### Subtest 4 – Prehension Performance

Right			Task Performance	Left		
Time	Score	Drops		Time	Score	Drops
			1. Take the bottle and pour the water into the cup, approx. ¾ full. Cylindrical grasp			
			2. Pull the 9 pegs, one by one, out of the foam and stick them back into the holes on the opposite side. Tip to tip pinch			
			3. Take the key from the table, insert it in the lock and turn it 90°. Lateral key pinch			
			4. Pick up the 4 nuts, one by one, from the table and screw them on the matching screws. Tip to tip pinch and/or tripod pinch			
	/20				/20	

### Scoring for Prehension Performance

#### Scoring (a maximum of 1 minute and 15 seconds is allowed for each task)

- 0 - the task can not be conducted at all
- 1 - the task can not be completed, (less than 50% of the task).
- 2 - the task is not completed, (50% or more of the task).
- 3 - the task is conducted (completed) using tenodesis or an alternative grasp other than the expected grasp.
- 4 - the task is conducted using the expected grasp with difficulty (lack of smooth movement or difficult slow movement).
- 5 - the task is conducted without difficulties using the expected grasping pattern and unaffected hand function.