Functional Reach Test and

Modified Functional Reach Instructions

<u>General Information</u>: The Functional Reach test can be administered while the patient is standing (Functional Reach) or sitting (Modified Functional Reach).

Functional Reach (standing instructions):

- The patient is instructed to next to, but not touching, a wall and position the arm that is closer to the wall at 90 degrees of shoulder flexion with a closed fist.
- The assessor records the starting position at the 3rd metacarpal head on the yardstick.
- Instruct the patient to "Reach as far as you can forward without taking a step."
- The location of the 3rd metacarpal is recorded.
- Scores are determined by assessing the difference between the start and end position is the reach distance, usually measured in inches.
- Three trials are done and the average of the last two is noted.

Modified Functional Reach Test (Adapted for individuals who are unable to stand):

- Performed with a leveled yardstick that has been mounted on the wall at the height of the patient's acromion level in the non-affected arm while sitting in a chair
- Hips, knees and ankles positioned are at 90 degree of flexion, with feet positioned flat on the floor.
- The initial reach is measured with the patient sitting against the back of the chair with the upper-extremity flexed to 90 degrees, measure was taken from the distal end of the third metacarpal along the yardstick.
- Consists of three conditions over three trials
 - \circ Sitting with the unaffected side near the wall and leaning forward
 - Sitting with the back to the wall and leaning right
 - Sitting with the back to the wall leaning left.

- Instructions should include leaning as far as possible in each direction without rotation and without touching the wall
- Record the distance in centimeters covered in each direction
- If the patient is unable to raise the affected arm, the distance covered by the acromion during leaning is recorded
- First trial in each direction is a practice trial and should not included in the final result
- A 15 second rest break should be allowed between trials

Set-up:

- A yardstick and duck tap will be needed for the assessment.
- The yardstick should be affixed to the wall at the level of the patient's acromion.

References:

Duncan, P. W., D. K. Weiner, et al. (1990). "Functional reach: a new clinical measure of balance." J Gerontol **45**(6): M192-197.

- Katz-Leurer, M., I. Fisher, et al. (2009). "Reliability and validity of the modified functional reach test at the sub-acute stage post-stroke." Disabil Rehabil **31**(3): 243-248.
- Weiner, D. K., D. R. Bongiorni, et al. (1993). "Does functional reach improve with rehabilitation?" <u>Arch Phys Med Rehabil</u> **74**(8): 796-800.
- Weiner, D. K., P. W. Duncan, et al. (1992). "Functional reach: a marker of physical frailty." <u>J Am</u> <u>Geriatr Soc</u> **40**(3): 203-207.

Functional Reach Test and

Modified Functional Reach Score Sheet

Name:_____

Instructions:

Instruct the patient to "Reach as far as you can forward without taking a step"

Score Sheet:

Date	Trial One (Practice)	Trial Two	Trial Three	Total (average of trial 2 and 3 only)