# Four Square Step Test (FSST)

### **Equipment:**

36" square constructed from 1" diameter wood or PVC pipe, divided into 18"x18" smaller squares
Stopwatch

## Purpose:

Assess dynamic balance with change of directions and ability to follow instructions Tests moving in 4 directions while stepping over low objects.

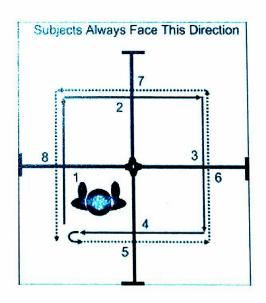
#### Procedure:

- Subject starts in the back-left quadrant and then steps forward to the left-front quadrant with both feet, then to the right-front quadrant with both feet, the to the right-back quadrant with both feet, then again to the left-back quadrant with both feet, then reverses directions.
- 2. Time starts when first foot touches the left-front quadrant and stops when both feet return to the left-back quadrant. Individual is encouraged to face forward at all times.
- 3. Examiner should demonstrate, allow one practice trial, then up to three trials to get two valid timed trials.
- 4. No instructions should be given during the timed trials.

#### Invalid trials include:

Feet touching the side walls while stepping into any of the 4 squares Any loss of balance Not getting both feet to touch the floor in any of the 4 squares

Greater than 15 sec is at risk for falls in community dwelling aging adults
Record: Time required to perform:
Trial 1 Trial 2:



Validity was done with Step test, Functional Reach and TUG (P<.1)

Inter rater Reliability (ICC=.99), Retest Reliability (ICC=.98)

Sensitivity=85%, specificity 88-100%, and positive predictive value= 86%

Dite and Temple. "A clinical test of stepping and change of direction to identify multiple falling older adults". Arch of PM & R. 83 (11). 1566-71, 2002 Nov.