Test Procedure for Corbett Targeted Coin Test

The Corbett Targeted Coin Test is an In-Hand Manipulation test requiring translating coins from palm to finger tips before coin insertion in vertically, as well as obliquely or horizontally, positioned slots. This skill is referred to as "squirreling". This test requires more complex visual-motor, differential tendon glide and proprioceptive coordination than most pegboards tests.

As the test is performed, use the scoring format suggested below to collect/record data.

The Corbett Targeted Coin Test is equipped with a box and fitted lid with 16 multidirectional slots in four rows. At least 20 coins can be stored, for easy access, inside the box. Test participation requires 3 criteria:
1) Participant exhibits diminished light touch sensation according to Semmes Weinstein Monofilament Test.
2) Participant exhibits complete active fist closure to the palm.
3) Participant can perform fingertip to palm translation of coins. (ability to pick up 20 individual coins from table top while simultaneously storing coins in closed ulnar fist of hand without assistance from their other hand).

The Examiner should be thoroughly familiar with the test and should be capable of demonstrating the task. The Participant should be seated comfortably at the normal table height (approximately 30"). Participant will rest closed fist with coins on table top directly in front of upper extremity with elbow flexed and forearm and wrist in neutral. The Corbett Targeted Coin Test box should be placed in line with the Participant's hand to be tested, within 1 inch of closed fist. The other hand should be placed in participant's lap. This is the "Ready Position". The Participant should take the test with the unaffected hand first. (In establishing normative data, the dominant hand should perform the test first.)

When the Participant is seated and in the "Ready Position" the Examiner introduces the test:

"This is a test to see how you can hold 20 coins in your palm and translate one coin from your palm to your thumb and finger tips and accurately target a single coin into one of the 16 sequential slots without dropping coins from your hand. If you drop or mis-target a coin, go onto the next coin in your palm and place the coin in the next slot to establish your accuracy of target placement. You have extra coins in your palm for this. If coins slip out of your palm it will be noted in the scoring. Your speed for task completion will also be recorded. You will be given an opportunity to practice the complete board before a timed and scored test."

Before each test the required task is demonstrated and practiced from the "Ready Position". Participant is further instructed:

"When I say BEGIN, place coins into the top row starting at the notch corresponding

with your hand holding the coins. Do not skip any slots and drop down to the next row in a zig zag pattern. Fill each row the same way you filled the preceding row until you have attempted to insert coins into all 16 slots. You may have remaining coins in your hand which requires you to keep a fist during this test."

For the RIGHT HAND TEST, coins are placed in slots RIGHT TO LEFT and then drop down to next row. Then reversing the direction left to right. Continue in this zig zag pattern. The last slot is on the lower right corner.
For the LEFT HAND TEST, coins are placed in slots LEFT TO RIGHT and then drop down to next row. Then reversing the direction right to left. Continue in this zig zag pattern. The last slot is on the lower left corner.

"Do you have any questions? Are you ready? Begin a trial of the complete board." (to decrease the learning effect)

Using a stop watch, start the clock when Examiner says "Begin". Stop the clock when the coin drops through the last slot and into box.

Record on spread sheet or Scoring format suggested below:

CORBETT TARGETED COIN TEST P.O.#_____Pt ID/ #_____
DX:_____ R/L dom, M/F, Age:__, Occup:
initial test date.......... / / ....f/u date / /
coin-in secs R/L / ...secs /
#coin dropped (x 5) / …(# x 5) /
...................................+____ /+____.................+_____/+____
dropped penalty score

CTCT Purchase Order #, Pt ID/ #, DX, hand dominance, sex, age, occupation, dates of initial test and follow up and 3 values: (quantifies quality of performance) per hand.
Value #1) Record, in seconds, the length of time (speed) required for placement of coins in 16 multi-directional slots.
Value #2) Record the number of "dropped" or "mis-targeted" coins times 5 second penalty.
Value #3) Summation of value #1 (speed) plus value #2 for quality of performance (accuracy).
ALTERNATIVE SCORE PER HAND: time only (quantifies speed)

Observation notes: (fine and gross motor strategies)
extraneous proximal UE compensatory AROM, for example: shoulder abduction
Supination for organizing coins into position
use of gravity with palm down or pronated forearm
dropping coins from ulnar fist