*This assessment review was compiled by our students and is intended to be used as a guide in assisting clinicians. We encourage you to review the evaluations and assessments for yourself to guarantee the most accurate and updated information.

I. General Information

Title of the test: Nine-Hole Peg Test (NHPT) - 1985

Author: Not Specified

Publisher: Sammons Preston Rolyan, Inc.

Time required to administer: 10 minutes for both hands

Cost of the Test: \$64.82-129.99 (Amazon)

II. Description of Test

Type/Purpose of Test: To measure unilateral finger dexterity to determine the extent of fine motor impairment in people experiencing difficulties with functional performance. (Nine-Hole Peg Test, 2007)

Population: Children and adolescents age 5 to 19; adults age 20 to 94

Focus of measurement:						
X Organic systems	X Abilities	X Participation/life habits	Environmental Factors			

III. Practical Administration

Ease of Administration: This test is incredibly easy to administer. The only materials that are required are a test kit (small pegboard and 9 pegs), a stopwatch, instructions, and norm tables. The test itself requires little set-up and is quick to administer.

Clarity of Directions: The directions/instructions given by Mathiowetz et al. (1985) are very straightforward and easy to follow. They include information regarding the order of testing, number of practice trials, when to start/stop stopwatch, specifics on materials, and step-by-step instructions to be given to client when testing.

Scoring Procedures:

- Subject is seated at a table; tool is placed in front of subject at midline.
- Pegs are placed off to the side being assessed, in close proximity to the board.
- Subject is read standardized instructions to put pegs into the board as quickly as possible and then remove them, placing them into a small container. Time is recorded in seconds.
- Two consecutive trials with the dominant hand are immediately followed by two consecutive trials with the non-dominant hand.
- Times reported for each hand are compared with normative tables, according to subject age. Faster time generally indicates better function. (Rehabilitations Measures Database, 2010)

Examiner Qualification & Training:

"Can be administered by a wide variety of trained examiners." (Hitech Therapy, 2013)

IV. Technical Considerations		

Standardization: X Norms ____ Criterion Referenced ____ Other _____

Reliability: High interrater reliability using Pearson correlation coefficient (right = 0.97, left r = 0.99). Test –retest reliability was high for the right hand (r = 0.69) and moderate (r = 0.43) for the left. Several versions of this test are available, including homemade. To improve reliability, choose one style and use it consistently. (Mathiowetz, 1985)

Validity: Concurrent validity was assessed between the Nine-Hole Peg Test and the Purdue Pegboard using Pearson correlation coefficient (right r = -0.61, left r = -0.53), with the results indicating strong concurrent validity. (Mathiowetz, 1985)

Manual: ____ Excellent ____ Adequate ____ Poor *Cannot be reported since the OT program kits do not have manuals with them.

What is (are) the setting/s that you would anticipate using this assessment?

Outpatient clinic, home therapy, hand clinic, or hospital rehabilitation clinic. Any setting where clients present with impairments in UE or finger dexterity.

Summary of strengths and weaknesses Weakness:

- Only tests a small area of function; therefore, should not be used in isolation.
- Performance may be sensitive to practice effects (improved performance after practice trials).
- Patients often display poorer performance when first tested due to lack of familiarity with the task.
- Should not be used to test normal subjects (i.e. for job placement). Other tests are more suitable or appropriate (i.e. Purdue Pegboard).
- While it was said that "faster time generally indicates better function" (Rehabilitations Measures Database, 2010), there is no other mention of whether or not this test gives a good idea of how someone might function in daily tasks that require fine motor skills.

Strength:

- Written and verbal standardized instructions.
- Can be administered by wide variety of trained examiners.
- Norms are available.
- Relatively inexpensive construction cost and brief administration time.
- Used with wide range of populations.
- Easily portable.

References:

Hitech Therapy (2013). Mobilis Rolyan Workshop: 9 Hole Peg Test. Retrieved from

http://www.htherapy.co.za/user_images/splinting/Hole_Peg_Test_2009.pdf

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Nine-Hole Peg Test (2007). Nine-Hole Peg Test. In I. E. Asher (Eds.), *Occupational therapy* assessment tools: An annotative index (p. 324). Bethesda, MD: AOTA Press.

Rehabilitation Measures Database (2010). Nine Hole Peg Test instructions. Retrieved from http://www.rehabmeasures.org/PDF%20Library/Nine%20Hole%20Peg%20Test%20Instructions.pdf