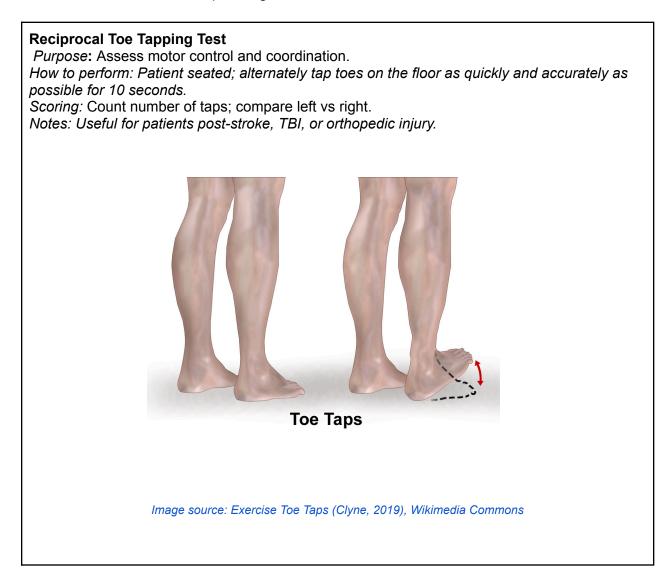


Neuromuscular Control & Proprioception Test Guide

Neuromuscular control refers to the unconscious activation of muscles to maintain joint stability. Proprioception, the body's ability to sense position and movement, is vital for balance and coordination. Deficits in these areas can lead to poor performance and increased injury risk. This guide provides clinicians with evidence-based tests to assess and monitor these deficits for more effective rehabilitation planning.





Y Balance Test (Lower Quarter)

Purpose: Dynamic balance and proprioceptive control. How to perform: Stand on one leg and reach with the other leg in three directions: anterior, posteromedial, and posterolateral. Scoring: Measure reach distance normalized to leg length.

Notes: Commonly used for return-to-sport readiness.

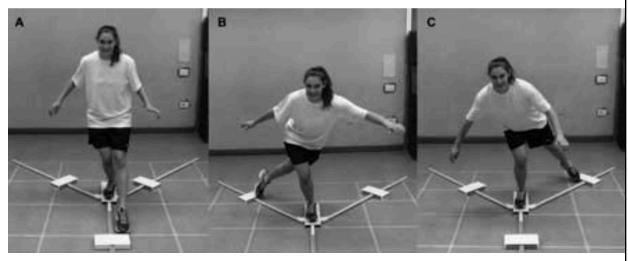


Image source: The Y-Balance Test: A Clinical Assessment Tool for Lower Extremity Function (Gorman, Nitz, & Collins, 2017), ResearchGate

Reference:

Clyne, E. (2019). *Exercise Toe Taps* [Photograph]. Wikimedia Commons. <u>https://commons.wikimedia.org/wiki/File:Exercise Toe Taps.png</u>

Gorman, S. L., Nitz, J. C., & Collins, L. (2017). *Participant performing the* Y-Balance Test in the A (anterior), B (posteromedial), and C (posterolateral) [Figure]. In The Y-Balance Test: A Clinical Assessment Tool for Lower Extremity Function. ResearchGate. https://www.researchgate.net/figure/Participant-performing-the-Y-Balance-Test-in-the-A-anterior-B-posteromedial-and-C fig2_309771601