# Assessing Balance Exercise Intensity: A Guide for PT Clinicians

Jennifer M. Nash, PT, DPT, NCS

# **Fact Sheet**

### Why is Balance Exercise Intensity Important?

Balance exercise training is crucial for patient safety and enhancing rehabilitation effectiveness, especially as individuals age. For adults over 65, current recommendations suggest at least 2 hours per week of balance exercises at a moderate to high level of balance challenge.

This fact sheet provides two distinct approaches focusing on the exerciser's self-perception, and another providing objective observational criteria for the clinician. This personalized assessment allows for appropriate initial prescription and subsequent modulation of balance exercises, leading to safer and more effective training programs.

## The Exerciser's Perspective: 2 Methods of Self-Rating Balance Challenge

1. The Balance Intensity Scale -Exerciser (BIS-E) by Farlie et al. is a self-rating scale that measures the level of challenge an individual experiences during a balance task. It functions similarly to pain scales or scales for perceived exertion, but instead focusses on the work to maintain balance. This allows for immediate assessment of balance intensity during or after activities.

**How to Use the BIS-E:** Orient the exerciser to the indicators of balance challenge using the 1-5 scale below (3 being moderate). Then during exercise ask the exerciser: "How hard did you have to work to keep your balance during this task? It was..."

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# Contact us:

ANPT
1935 County Rd. B2 W.
Ste 165
Roseville, MN 55113
Phone: 952.646.2038
info@neuropt.org
www.neuropt.org

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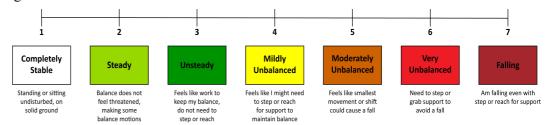
#### How hard did you work to keep your balance?



Choose the number that describes how hard you worked



2. The Rate of Perceived Stability (RPS) in Espy and Lyon is another self-rating scale. This measures the challenge to the balance systems posed by the task to that person by noting how stable or unstable the individual feels doing that task. It is independent of exertion, heart rate, or fatigue.



**How to use**: Individuals should be instructed in how to use the scale by being allowed to read the definitions and asking questions, then using the scale during a short balance training practice. To use, the scale can be presented to the individual during balance tasks if the task allows. If the task is too challenging, too fast, or if the dual-task cost is too high, the scale can be presented just after task completion.

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#### **Reference List**



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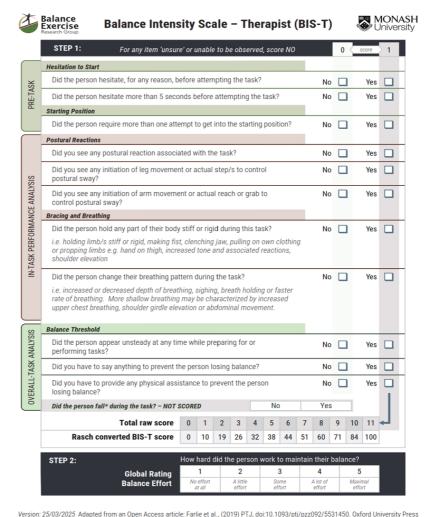




# The Therapist's Perspective: Objective Observation

The Balance Intensity Scale – Therapist (BIS-T) by Farlie et al. provides observable indicators to guide clinician's assessment of balance challenge.

**How to use**: For each item, score "Yes" (1) if observed, or "No" (0) if not observed or unsure. Calculate the Total Raw Score: Sum all the "Yes" responses from the 11 scored items. Use the conversion table below to translate the raw score into a Rasch-converted BIS-T score.



/ersion: 25/03/2025 Adapted from an Open Access article: Farlie et al., (2019) PTJ, doi:10.1093/ptj/pzzu92/5531450. Oxford University Press

BIS versions used with permission: Dr Farlie, Monash University, 2025

By using both the patient's self-report (BIS-E or RPS) and your objective ratings (BIS-T), you can gain a comprehensive understanding of the challenge posed by balance interventions, allowing for more appropriate and effective therapy. This combined approach ensures that therapeutic exercises are prescribed, monitored, and progressed effectively for each individual. It also provides an opportunity to strengthen your therapeutic relationships with patients and give them agency and opportunities to self-monitor the progress of their exercise programs.