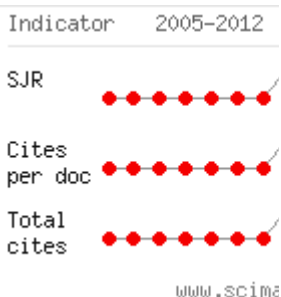


JHSE

- [Current Issue](#)
- [Back Issues](#)
- [Most read articles](#)
- [Indexing](#)
- [Advanced search](#)
- [Contact](#)
- [Site Map](#)
- [About](#)
- [Links](#)

GOOGLE TRANSLATE



[Home](#) > [Vol 6, No 2 \(2011\)](#) > [Parraca](#)

Test-Retest reliability of Biodex Balance SD on physically active old people

Jose A Parraca, Pedro R Olivares, Ana Carbonell-Baeza, Virginia A Aparicio, Jose C Adsuar, Narcis Gusi

Abstract

The purpose of this study was to determine the reliability of the Biodex Balance System in elderly. Forty-five subjects aged 66 ± 5.5 years old and weight 71.6 ± 9.8 kg were tested on the Biodex Balance System. In order to calculate the reliability, the Fall Risk Test (FRt) and the Postural Stability Test (PSt) were measured on two separate occasions 7 days apart. Every subject completed the Falls Efficacy Scale-International (FES-I)

ARTICLE TOOLS

 [Print this article](#)

 [Indexing](#)

[metadata](#)

 [How to cite item](#)

 [Finding](#)

[References](#)

 [Review policy](#)

 [Email this article](#)

(Login required)

 [Email the author](#)

(Login required)

FONT SIZE

Browse

- [By Issue](#)
- [By Author](#)
- [By Title](#)

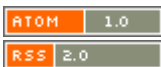
Search

All 

[Search](#)



CURRENT ISSUE



[OPEN JOURNAL SYSTEMS](#)

questionnaire the first day of testing. The Fall Risk Index (FRI) showed a good ICC (.80) and a low percentage of variation of method error. The Overall Stability Index (OSi) showed a good and acceptable reliability measured by the ICC (.69) but a percentage of variation of method error near to 25%. FES-I Score was 23.1 (± 7.2). The reliability of the BBS using Bland-Altman method showed that systematic errors (mean difference between test-retest) for the balance test developed were nearly zero and the 95% limits of agreement narrow, indicating a good reliability of the measurement. Biodex balance measures were showed reliable and may be useful for measuring the risk of falls and monitoring programs for prevent falls in elderly. This study revealed that fall risk assessment in older people must be incorporated into the evaluation process of the physical functioning.

Key words: equilibrium; elderly; stabilometry

doi: 10.4100/jhse.2011.62.25

Full Text: [PDF 253 KB](#) [STATISTICS](#)

Cited-By

1. Fiabilidad de la prueba Fall Risk de la plataforma Biodex Balance System® en las personas mayores institucionalizadas con miedo a caerse mediante test-retest de 12 semanas

H. Corzo, M.A. Hernández-Mocholí, N. Triviño-Amigo,

S. Delgado, P.R. Olivares, J.C. Adsuar-Sala

Rehabilitación vol: 47 issue: 2 first

USER



Username

Password

Remember me

[Log In](#)

[Announcements](#)

page: 64 year: 2013

doi: [10.1016/j.rh.2012.12.001](https://doi.org/10.1016/j.rh.2012.12.001)



This work is licensed under a [Creative Commons Attribution-NonCommercial-NoDerivs 3.0 Unported License](https://creativecommons.org/licenses/by-nc-nd/3.0/).

J. Hum. Sport Exerc. ISSN 1988-5202. doi:10.4100/jhse. Faculty of Education. University of Alicante. C/ San Vicente del Raspeig s/n - 03690 San Vicente del Raspeig - Alicante - Spain jhse@ua.es