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Author: Katren Pedroso Correa Gisele Francini de Devetak
Suzane Ketlyn Martello Juliana Carla Almeida Ana Carolina
Pauleto Elisangela Ferretti Manffra



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RELIABILITY AND MINIMUM DETECTABLE CHANGE OF THE GAIT DEVIATION INDEX (GDI) IN POST-STROKE PATIENTS

Katren Pedroso Correa ^a, Gisele Francini Devetak ^a, Suzane Ketlyn Martello ^a, Juliana Carla de Almeida ^a, Ana Carolina Pauleto ^b, Elisangela Ferretti Manffra ^a

^a Pontifícia Universidade Católica do Paraná

Health Technology Graduate Programm

Rua Imaculada Conceição, 1155

Curitiba, Brazil 80215-901

^b Centro Hospitalar de Reabilitação Ana Carolina Moura Xavier

Rua Quintino Bocaiuva, 329

Curitiba, Brazil 80035-090

Corresponding Author:

Elisangela Ferretti Manffra

E-mail adress: elisangela.manffra@pucpr.br; elisangelaferretti@gmail.com

Other authors e-mail addresses:

Katren Pedroso Correa : katren.correa@gmail.com

Gisele Francini Devetak : gidevetak@hotmail.com

Suzane Ketlyn Martello : susiketlyn@hotmail.com

Juliana Carla de Almeida : julicarla.almeida@hotmail.com

Ana Carolina Pauleto: acpauleto@gmail.com

Abstract:

The Gait Deviation Index (GDI) is a summary measure that provides a global picture of gait kinematic data. Since the ability to walk is critical for post-stroke patients, the aim of this study was to determine the reliability and Minimum Detectable Change (MDC) of the GDI in this patient population. Twenty post-stroke patients (11 males, 9 females; mean age, 55.2 ± 9.9 years) participated in this study. Patients presented with either right- ($n = 14$) or left-sided ($n = 6$) hemiparesis. Kinematic gait data were collected in two sessions (test and retest) that were 2 to 7 days apart. GDI values in the first and second sessions were, respectively, 59.0 ± 8.1 and 60.2 ± 9.4 for the paretic limb and 53.3 ± 8.3 and 53.4 ± 8.3 for the non-paretic limb. The reliability in each session was

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