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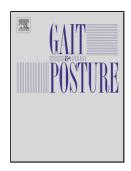
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RELIABILITY AND MINIMUM DETECTABLE CHANGE OF THE GAIT DEVIATION INDEX (GDI) IN POST-STROKE PATIENTS

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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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