**Three Decades of Gait Index Development: A Comparative Review   
of Clinical and Research Gait Indices**

Sérgio Barroso Gonçalvesa, Siddhi Bianca Camila Lamaa, Miguel Tavares da Silvaa

*aIDMEC, Instituto Superior Técnico, Universidade de Lisboa*

**Supplementary Data**

# List of Acronyms

## Observational Indices

APRS – Abbreviated Physician’s Rating Scale

EVGS – Edinburgh Visual Gait Score

G.A.I.T. – Gait Assessment and Intervention Tool

MPRS – Modified Physician’s Rating Scale

OGA – Observational Gait Analysis

OGS – Observational Gait Scale

PRS – Physician’s Rating Scale

PRS-OGS – PRS-Based Observational Gait Scale

RVGA – Rivermead Visual Gait Assessment

SF-GT – Salford Gait Tool

SMS – Stroke Mobility Score

VGAS – Visual Gait Analysis Scale

WGS – Wisconsin Gait Scale

## Instrumented Indices

EGVI – Enhanced Gait Variability Index

FAPS – Functional Ambulation Performance Score

GAMS – Gait Analysis and Motion Score

GDI – Gait Deviation Index

GGI – Gillette Gait Index

GKI – Gait Kinetic Index

GPS – Gait Profile Score

GVI – Gait Variability Index

GVS – Gait Variable Score

HFI – Hip Flexor Index

INI – IMU-based Gait Normalcy Index

KeR-EGI – Kerpape-Rennes EMG-based Gait Index

MAP – Movement Analysis Profile

MDP – Movement Deviation Profile

MGS – Multifeature Gait Score

NI – Normalcy Index

TDI – Pediatric Temporal-Spatial Deviation Index

TESYC – Tingley’s Extended Scale for Young Children

TSYC – Tingley’s Scale for Young Children

TTDI – Toddle Temporal-Spatial Deviation Index

## Comparative Indices and Functional Scales

BI – Barthel Index for Activities of Daily Living

BSID-III – Bayley Scales of Infant and Toddler Development - 3rd version

FAQ – Gillette Functional Assessment Questionnaire

FIM – Functional Independence Measure

FTSST – Five-times-sit-to-stand-test

GMFCS – Gross Motor Function Classification System

GMFM – Gross Motor Function Measure

ICARS – International Cooperative Ataxia Rating Scale

NIHSC – National Institutes of Health Stroke Scale

PGD – Posture and Gait Disturbance

POMA – Tinetti Performance-oriented Mobility Assessment

RMI – Rivermead Mobility Index;

TGS – Tinetti Gait Scale

TUG – Time Up and Go

6MWT – 6 Minute Walk Test

## Statistics Acronyms

CI – Confidence Interval

ICC – Intraclass Correlation Coefficient

IQR – Inter-quartile ranges

K-S – Kolmogorov-Smirnov test

LSD – Least Significant Difference

MAR – Mean Agreement Rate

McN – McNemar test

MDC – Minimum/Smallest Detectable Change

MSA – Kaiser-Meyer-Olkin measurement of sampling adequacy

PCA – Principal Component Analysis

RA – Rating Agreement

RMSD – Root-Mean-Square Deviation

SEM – Standard Error of Measurement

STD – Standard Deviation

: p-value

: Pearson coefficient

: Coefficient of determination

: Kendall’s coefficient of concordance

: Wilcoxon Signed Ranks test z-value

: Weighted kappa coefficient

: Spearmen correlation coefficient

*τ*-B: Kendall’s tau-b correlation coefficient

: Chi-squared distribution

## Other Acronyms

AFO – Ankle-Foot Orthosis

ANNs – Artificial Neural Networks

COP – Center-of-Pressure

CP – Cerebral Palsy

EMG – Electrocardiography

EMG – Electromyography

FRDA – Friedreich’s Ataxia

IMU – Inertial Measurement Unit

ISB – International Society of Biomechanics

LS/RS – Left/Right Side

MOCAP – Motion Capture System

MS – Multiple Sclerosis

RoM – Range-of-Motion

sEMG – Surface Electromyography

TDP – Time-Distance Parameters

3D – Three-Dimensional