Guidelines for Assessment of Gait and Reference Values Parameters in Older Adults: The Biomathics and Canadi

Citation Report

#	Article	IF	Citations
2	The Association of Clinic‑Based Mobility Tasks and Measures of Community Performance and Risk. PM and R, 2018, 10, 704.	0.9	10
3	A systematic review of the gait characteristics associated with Cerebellar Ataxia. Gait and Posture, 2018, 60, 154-163.	0.6	108
4	Brain comorbidities in normal pressure hydrocephalus. European Journal of Neurology, 2018, 25, 542-548.	1.7	30
5	Development of Spatio-Temporal, and Kinetics Database of Undergraduate Malaysian University Students : Further Investigations, and Opportunities. , 2018, , .		0
6	Normal limits of home measured spatial gait parameters of the elderly population and their association with health variables. Scientific Reports, 2018, 8, 13193.	1.6	8
7	Step Length Estimation Methods Based on Inertial Sensors: A Review. IEEE Sensors Journal, 2018, 18, 6908-6926.	2.4	62
8	Objective measures of gait and balance in healthy non-falling adults as a function of age. Gait and Posture, 2018, 65, 100-105.	0.6	21
9	Sex-dependent and sex-independent muscle activation patterns in adult gait as a function of age. Experimental Gerontology, 2018, 110, 1-8.	1.2	26
10	Do spatiotemporal parameters and gait variability differ across the lifespan of healthy adults? A systematic review. Gait and Posture, 2018, 64, 181-190.	0.6	157
11	Gait as predictor of physical function in axial spondyloarthritis: the prospective longitudinal FOLOMI (Function, Locomotion, Measurement, Inflammation) study protocol. Rheumatology International, 2019, 39, 1681-1688.	1.5	8
12	A taxonomy of cognitive tasks to evaluate cognitive-motor interference on spatiotemoporal gait parameters in older people: a systematic review and meta-analysis. European Review of Aging and Physical Activity, 2019, 16, 12.	1.3	38
13	Gait health monitoring through footstep-induced floor vibrations. , 2019, , .		8
15	Multiscale Approximate Entropy for Gait Analysis in Patients with Neurodegenerative Diseases. Entropy, 2019, 21, 934.	1.1	8
16	Gait characteristics and their associations with clinical outcomes in patients with chronic obstructive pulmonary disease. Gait and Posture, 2019, 74, 60-65.	0.6	15
17	Age-related changes in attention control and their relationship with gait performance in older adults with high risk of falls. NeuroImage, 2019, 189, 551-559.	2.1	36
18	Walking Along Curved Trajectories. Changes With Age and Parkinson's Disease. Hints to Rehabilitation. Frontiers in Neurology, 2019, 10, 532.	1.1	30
20	Gait characteristics of CKD patients: a systematic review. BMC Nephrology, 2019, 20, 83.	0.8	19
21	Pedestrian Stride-Length Estimation Based on LSTM and Denoising Autoencoders. Sensors, 2019, 19, 840.	2.1	60

#	Article	IF	Citations
22	The Role of Movement Analysis in Diagnosing and Monitoring Neurodegenerative Conditions: Insights from Gait and Postural Control. Brain Sciences, 2019, 9, 34.	1.1	109
23	Motoric Cognitive Risk Syndrome: Could It Be Defined Through Increased Five-Times-Sit-to-Stand Test Time, Rather Than Slow Walking Speed?. Frontiers in Aging Neuroscience, 2018, 10, 434.	1.7	13
24	Association of hippocampal volume with gait variability in pre-dementia and dementia stages of Alzheimer disease: Results from a cross-sectional study. Experimental Gerontology, 2019, 115, 55-61.	1.2	29
25	Spatiotemporal gait analysis of older persons in clinical practice and research. Zeitschrift Fur Gerontologie Und Geriatrie, 2020, 53, 171-178.	0.8	36
26	Gait analysis with videogrammetry can differentiate healthy elderly, mild cognitive impairment, and Alzheimer's disease: A cross-sectional study. Experimental Gerontology, 2020, 131, 110816.	1.2	15
27	Does variability in motor output at individual joints predict stride time variability in gait? Influences of age, sex, and plane of motion. Journal of Biomechanics, 2020, 99, 109574.	0.9	9
28	Age-Related Changes in Gait and Mobility. , 2020, , 201-219.		0
29	<p>Reference Values of Gait Speed and Gait Spatiotemporal Parameters for a South East Asian Population: The Yishun Study</p>. Clinical Interventions in Aging, 2020, Volume 15, 1753-1765.	1.3	20
30	Spatiotemporal gait parameters for older adults â€" An interactive model adjusting reference data for gender, age, and body height. Gait and Posture, 2020, 82, 220-226.	0.6	12
31	Age-related differences in gait adaptations during overground walking with and without visual perturbations using a virtual reality headset. Scientific Reports, 2020, 10, 15376.	1.6	24
32	Mobility in Older Community-Dwelling Persons: A Narrative Review. Frontiers in Physiology, 2020, 11, 881.	1.3	55
33	Dispersion of knee helical axes during walking in young and elderly healthy subjects. Journal of Biomechanics, 2020, 109, 109944.	0.9	6
34	Effects of a 16-week multimodal exercise program on gait performance in individuals with dementia: a multicenter randomized controlled trial. BMC Geriatrics, 2020, 20, 245.	1.1	11
35	Foot-Worn Inertial Sensors Are Reliable to Assess Spatiotemporal Gait Parameters in Axial Spondyloarthritis under Single and Dual Task Walking in Axial Spondyloarthritis. Sensors, 2020, 20, 6453.	2.1	10
36	Differential Gait Decline in Parkinsonâ€™s Disease Enhances Discrimination of Gait Freezers from Non-Freezers. Journal of Parkinson's Disease, 2020, 10, 1657-1673.	1.5	7
37	Gait Analysis of Patients After Allogeneic Hematopoietic Cell Transplantation Reveals Impairments of Functional Performance. Integrative Cancer Therapies, 2020, 19, 153473542091578.	0.8	6
38	A new lower limb portable exoskeleton for gait assistance in neurological patients: a proof of concept study. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 60.	2.4	26
39	Key gait findings for diagnosing three syndromic categories of dynamic instability in patients with balance disorders. Journal of Neurology, 2020, 267, 301-308.	1.8	7

#	ARTICLE	IF	CITATIONS
40	Neuroanatomical predictors of L-DOPA response in older adults with psychomotor slowing and depression: A pilot study. Journal of Affective Disorders, 2020, 265, 439-444.	2.0	5
41	Three-axis accelerometer system for comparison of gait parameters in children with cystic fibrosis and healthy peers. Gait and Posture, 2020, 78, 60-64.	0.6	6
42	Gait Characteristics Based on Shoe-Type Inertial Measurement Units in Healthy Young Adults during Treadmill Walking. Sensors, 2020, 20, 2095.	2.1	9
43	Nonâ€memory subjective cognitive concerns predict incident motoric cognitive risk syndrome. European Journal of Neurology, 2020, 27, 1146-1154.	1.7	9
44	Asymmetry and Variability Should Be Included in the Assessment of Gait Function in Poststroke Hemiplegia With Independent Ambulation During Early Rehabilitation. Archives of Physical Medicine and Rehabilitation, 2021, 102, 611-618.	0.5	12
45	Machine-Learning Based Determination of Gait Events from Foot-Mounted Inertial Units. Sensors, 2021, 21, 839.	2.1	12
46	Functional autonomy and sarcopenia markers in women over 55 years of age. Revista Facultad De Medicina, 2021, 69, .	0.0	0
47	Fast gait spatiotemporal parameters in adults and association with muscle strength â€" The Yishun study. Gait and Posture, 2021, 85, 217-223.	0.6	10
48	Characteristics of Gait Variability in the Elderly While Walking on a Treadmill with Gait Speed Variation. International Journal of Environmental Research and Public Health, 2021, 18, 4704.	1.2	8
49	Asymmetric Gait Analysis Using a DTW Algorithm with Combined Gyroscope and Pressure Sensor. Sensors, 2021, 21, 3750.	2.1	12
50	Spatio-temporal gait parameters obtained from foot-worn inertial sensors are reliable in healthy adults in single- and dual-task conditions. Scientific Reports, 2021, 11, 10229.	1.6	19
51	Domain-specific self-perceptions of aging are associated with different gait patterns in older adults: a cross-sectional latent profile analysis. BMC Geriatrics, 2021, 21, 392.	1.1	1
52	Computer-aided identification of degenerative neuromuscular diseases based on gait dynamics and ensemble decision tree classifiers. PLoS ONE, 2021, 16, e0252380.	1.1	8
53	Signatures of Gait Movement Variability in CKD Patients Scheduled for Hemodialysis Indicate Pathological Performance Before and After Hemodialysis: A Prospective, Observational Study. Frontiers in Medicine, 2021, 8, 702029.	1.2	4
54	Gait Variability and Complexity during Single and Dual-Task Walking on Different Surfaces in Outdoor Environment. Sensors, 2021, 21, 4792.	2.1	18
55	Algorithm based on one monocular video delivers highly valid and reliable gait parameters. Scientific Reports, 2021, 11, 14065.	1.6	36
57	Basic gait pattern and impact of fall risk factors on gait among older adults in India. Gait and Posture, 2021, 88, 16-21.	0.6	6
58	An interrater reliability study of gait analysis systems with the dual task paradigm in healthy young and older adults. European Review of Aging and Physical Activity, 2021, 18, 17.	1.3	5

#	ARTICLE	IF	CITATIONS
60	Gait in patients with axial spondyloarthritis: A systematic review of the literature. Current Rheumatology Reviews, 2021, 17, .	0.4	3
61	The effects of a secondary task on gait in axial spondyloarthritis. Scientific Reports, 2021, 11, 19537.	1.6	1
62	Measurement of Gait and Postural Control in Aging. Handbooks in Health, Work, and Disability, 2018, , 85-121.	0.0	1
63	Structural Property Guided Gait Parameter Estimation Using Footstep-Induced Floor Vibrations. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 191-194.	0.3	10
64	Gait and balance disturbances are common in young urbanites and associated with cognitive impairment. Air pollution and the historical development of Alzheimer's disease in the young. Environmental Research, 2020, 191, 110087.	3.7	23
65	Walking Speed Is Correlated With the Isokinetic Muscular Strength of the Knee in Patients With Charcot-Marie-Tooth Type 1A. American Journal of Physical Medicine and Rehabilitation, 2019, 98, 422-425.	0.7	3
66	Effects of stretching exercises on human gait: a systematic review and meta-analysis. F1000Research, 2020, 9, 984.	0.8	3
67	Gait Variability Using Waist- and Ankle-Worn Inertial Measurement Units in Healthy Older Adults. Sensors, 2020, 20, 2858.	2.1	6
68	Gait metrics analysis utilizing single-point inertial measurement units: a systematic review. MHealth, 2022, 8, 9-9.	0.9	23
69	Effects of stretching exercises on human gait: a systematic review and meta-analysis. F1000Research, 2020, 9, 984.	0.8	2
70	Effects of arm swing amplitude and lower limb asymmetry on motor variability patterns during treadmill gait. Journal of Biomechanics, 2022, 130, 110855.	0.9	4
71	Gait Characteristics and Falls. , 2021, , 51-86.		1
72	Gait speed reference values in community-dwelling older adults â€“ Cross-sectional analysis from the Rotterdam Study. Experimental Gerontology, 2022, 158, 111646.	1.2	15
73	On the Potential Benefit of Shunt Surgery in Idiopathic Normal-Pressure Hydrocephalus Patients with Alzheimer's Disease Pathology. Dementia and Neurocognitive Disorders, 2021, 20, 108.	0.4	1
74	Ankle-Injury Patients Perform More Microadjustments during Walking: Evidence from Velocity Profiles in Gait Analysis. Applied Bionics and Biomechanics, 2022, 2022, 1-10.	0.5	0
75	Gait characteristics in community-dwelling older persons with low skeletal muscle mass and low physical performance. Aging Clinical and Experimental Research, 2022, 34, 1563-1571.	1.4	6
76	Gait disorders in CKD patients: muscle wasting or cognitive impairment? A cross-sectional pilot study to investigate gait signatures in Stage 1â€“5 CKD patients. BMC Nephrology, 2022, 23, 72.	0.8	4
77	Measuring gait parameters from structural vibrations. Measurement: Journal of the International Measurement Confederation, 2022, 195, 111076.	2.5	2

#	ARTICLE	IF	CITATIONS
79	Surface indicator of gait cycle variability based on Principal Component Analysis. , 2022, , .		0
80	Recent Trends and Practices Toward Assessment and Rehabilitation of Neurodegenerative Disorders: Insights From Human Gait. Frontiers in Neuroscience, 2022, 16, 859298.	1.4	14
81	Multiarea Brain Activation and Gait Deterioration During a Cognitive and Motor Dual Task in Individuals With Parkinson Disease. Journal of Neurologic Physical Therapy, 2022, 46, 260-269.	0.7	3
82	Prediction of Disorientation by Accelerometric and Gait Features in Young and Older Adults Navigating in a Virtually Enriched Environment. Frontiers in Psychology, 2022, 13, 882446.	1.1	0
83	Dispersion of Knee Helical Axes during Walking after Maximal versus Resistant Strength Training in Healthy Subjects. Applied Sciences (Switzerland), 2022, 12, 5850.	1.3	1
84	Clinical assessments and gait analysis for patients with Trimalleolar fractures in the early postoperative period. BMC Musculoskeletal Disorders, 2022, 23, .	0.8	7
85	Estimating Spatial Gait Parameters from the Planar Covariation of Lower Limb Elevation Angles: a Pilot Study. , 2022, , .		1
86	Evaluation of Compensation Strategies for Gait Impairment in Patients With Parkinson Disease. Neurology, 2022, 99, .	1.5	6
87	Concurrent validity of artificial intelligence-based markerless motion capture for over-ground gait analysis: A study of spatiotemporal parameters. Journal of Biomechanics, 2022, 143, 111278.	0.9	5
88	Reference values of gait characteristics in community-dwelling older persons with different physical functional levels. BMC Geriatrics, 2022, 22, .	1.1	7
89	Physiological and Cognitive Determinants of Gait Variability of Asian Population: The Yishun Study. Gerontology, 2023, 69, 301-311.	1.4	0
90	Spatiotemporal gait parameters in young individuals wearing an age simulation suit compared to healthy older individuals. European Review of Aging and Physical Activity, 2022, 19, .	1.3	1
91	Normal gait speed varies by age and sex but not by geographical region: a systematic review. Journal of Physiotherapy, 2023, 69, 47-52.	0.7	4
92	A Predictive Analysis for Early Signs of Dementia. , 2022, , .		1
93	Impact of White Matter Hyperintensity and Age on Gait Parameters in Patients With Cerebral Small Vessel Disease. Journal of the American Medical Directors Association, 2023, 24, 672-678.	1.2	3
94	The Effect of Non-invasive Brain Stimulation on Gait in Healthy Young and Older Adults: A Systematic Review of the Literature. Neuroscience, 2023, 516, 125-140.	1.1	3
96	Effectiveness of an Individualized Exergame-Based Motor-Cognitive Training Concept Targeted to Improve Cognitive Functioning in Older Adults With Mild Neurocognitive Disorder: Study Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 0, 12, e41173.	0.5	2
98	Factors Influencing the Clinical Adoption of Quantitative Gait Analysis Technologies for Adult Patient Populations With a Focus on Clinical Efficacy and Clinician Perspectives: Protocol for a Scoping Review. JMIR Research Protocols, 0, 12, e39767.	0.5	1

#	Article	IF	Citations
99	Relationship between Muscle Strength and Gait Parameters in Healthy Older Women and Men. International Journal of Environmental Research and Public Health, 2023, 20, 5362.	1.2	7
100	Instrumental evaluation of gait smoothness and history of falling in older persons: results from an exploratory case–control study. Aging Clinical and Experimental Research, 2023, 35, 1357-1361.	1.4	1
101	Motoric Cognitive Risk Syndrome and Cognitive Frailty. Topics in Geriatric Rehabilitation, 2023, 39, 109-123.	0.2	0
104	Investigating the associations between upper limb motor function and cognitive impairment: a scoping review. GeroScience, 2023, 45, 3449-3473.	2.1	1