Twenty-four Hours of Sleep, Sedentary Behavior, and P Devices

Medicine and Science in Sports and Exercise

48, 457-465

DOI: 10.1249/mss.0000000000000778

Citation Report

#	Article	IF	Citations
1	Reliability of Sleep Measures from Four Personal Health Monitoring Devices Compared to Research-Based Actigraphy and Polysomnography. Sensors, 2016, 16, 646.	2.1	248
2	Comparisons of Portable Sleep Monitors of Different Modalities: Potential as Naturalistic Sleep Recorders. Frontiers in Neurology, 2016, 7, 110.	1.1	42
3	Sleep disturbance in patients with chronic concussive effects. Concussion, 2016, 1, CNC15.	1.2	15
4	Advances in the management of chronic insomnia. BMJ, The, 2016, 354, i2123.	3.0	99
5	Health at hand: A systematic review of smart watch uses for health and wellness. Journal of Biomedical Informatics, 2016, 63, 269-276.	2.5	274
6	Novel technology to help understand the context of physical activity and sedentary behaviour. Physiological Measurement, 2016, 37, 1834-1851.	1.2	24
7	A statistical estimation framework for energy expenditure of physical activities from a wrist-worn accelerometer. , 2016, 2016, 2631-2635.		11
8	Study protocol for Chronic Obstructive Pulmonary Disease-Sitting and ExacerbAtions Trial (COPD-SEAT): a randomised controlled feasibility trial of a home-based self-monitoring sedentary behaviour intervention. BMJ Open, 2016, 6, e013014.	0.8	9
10	Exercise Dose in Clinical Practice. Circulation, 2016, 133, 2297-2313.	1.6	137
11	Wearable Devices to Improve Physical Activity and Sleep. Journal of Black Studies, 2016, 47, 610-625.	0.5	32
12	The Wild Wild West: A Framework to Integrate mHealth Software Applications and Wearables to Support Physical Activity Assessment, Counseling and Interventions for Cardiovascular Disease Risk Reduction. Progress in Cardiovascular Diseases, 2016, 58, 584-594.	1.6	90
13	Accuracy of a step counter during treadmill and daily life walking by healthy adults and patients with cardiac disease. BMJ Open, 2017, 7, e011742.	0.8	41
14	Sleepâ€“wake rhythm disturbances and perceived sleep in adolescent chronic fatigue syndrome. Journal of Sleep Research, 2017, 26, 595-601.	1.7	20
15	Relationship Between Meeting 24-Hour Movement Guidelines and Cardiometabolic Risk Factors in Children. Journal of Physical Activity and Health, 2017, 14, 779-784.	1.0	44
16	A Validation Study of the Fitbit One in Daily Life Using Different Time Intervals. Medicine and Science in Sports and Exercise, 2017, 49, 1270-1279.	0.2	25
17	How consumer physical activity monitors could transform human physiology research. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R358-R367.	0.9	192
18	Accelerometer Data Collection and Processing Criteria to Assess Physical Activity and Other Outcomes: A Systematic Review and Practical Considerations. Sports Medicine, 2017, 47, 1821-1845.	3.1	1,126
19	Feasibility of Obtaining Measures of Lifestyle From a Smartphone App. JAMA Cardiology, 2017, 2, 67.	3.0	207

#	Article	IF	Citations
20	Using Activity Monitors to Measure Sit-to-Stand Transitions in Overweight/Obese Youth. Medicine and Science in Sports and Exercise, 2017, 49, 1592-1598.	0.2	8
21	Of weekend warriors and couch potatoes: Socio-economic determinants of physical activity in Swiss middle-aged adults. Preventive Medicine, 2017, 105, 350-355.	1.6	15
22	Using consumer-grade wearables and novel measures of sleep and activity to analyze changes in behavioral health during an 8-month simulated Mars mission. Computers in Industry, 2017, 92-93, 32-42.	5.7	10
23	Bidirectional associations of accelerometer-determined sedentary behavior and physical activity with reported time in bed: Women's Health Study. Sleep Health, 2017, 3, 49-55.	1.3	23
24	Validity and reliability of Fitbit activity monitors compared to ActiGraph GT3X+ with female adults in a free-living environment. Journal of Science and Medicine in Sport, 2017, 20, 578-582.	0.6	101
25	A Spinal Column Exergame for Occupational Health Purposes. Lecture Notes in Computer Science, 2017, , 83-92.	1.0	1
26	A cluster randomised controlled trial to evaluate the effectiveness and cost-effectiveness of the GoActive intervention to increase physical activity among adolescents aged 13â€“14 years. BMJ Open, 2017, 7, e014419.	0.8	23
27	Behavior Change with Fitness Technology in Sedentary Adults: A Review of the Evidence for Increasing Physical Activity. Frontiers in Public Health, 2016, 4, 289.	1.3	285
28	Accuracy in Wrist-Worn, Sensor-Based Measurements of Heart Rate and Energy Expenditure in a Diverse Cohort. Journal of Personalized Medicine, 2017, 7, 3.	1.1	420
29	Application of N-of-1 Experiments to Test the Efficacy of Inactivity Alert Features in Fitness Trackers to Increase Breaks from Sitting in Older Adults. Methods of Information in Medicine, 2017, 56, 427-436.	0.7	7
30	Comparison of wrist-worn Fitbit Flex and waist-worn ActiGraph for measuring steps in free-living adults. PLoS ONE, 2017, 12, e0172535.	1.1	102
31	Systematic review of the relationships between combinations of movement behaviours and health indicators in the early years (0-4Âyears). BMC Public Health, 2017, 17, 849.	1.2	128
32	Cross-sectional associations between sleep duration, sedentary time, physical activity, and adiposity indicators among Canadian preschool-aged children using compositional analyses. BMC Public Health, 2017, 17, 848.	1.2	71
33	Promise of Wearable Physical Activity Monitors in Oncology Practice. Journal of Oncology Practice, 2017, 13, 82-89.	2.5	77
34	The use of ambulatory assessment in smoking cessation. Addictive Behaviors, 2018, 83, 18-24.	1.7	22
35	Sleep assessment in aging adults with type 2 diabetes: agreement between actigraphy and sleep diaries. Sleep Medicine, 2018, 46, 88-94.	0.8	17
36	Routine Assessment and Promotion of Physical Activity in Healthcare Settings: A Scientific Statement From the American Heart Association. Circulation, 2018, 137, e495-e522.	1.6	237
37	Computerised decision support in physical activity interventions: A systematic literature review. International Journal of Medical Informatics, 2018, 111, 7-16.	1.6	11

#	Article	IF	Citations
38	Feeling validated yet? A scoping review of the use of consumer-targeted wearable and mobile technology to measure and improve sleep. Sleep Medicine Reviews, 2018, 40, 151-159.	3.8	119
40	â€œHealthcare on a Wristâ€: Increasing Compliance Through Checklists on Wearables in Obesity (Self-)Management Programs. Computers in Health Care, 2018, , 65-81.	0.2	6
41	Validity of Consumer Activity Wristbands and Wearable EEG for Measuring Overall Sleep Parameters and Sleep Structure in Free-Living Conditions. Journal of Healthcare Informatics Research, 2018, 2, 152-178.	5.3	70
42	Physical activity is associated with higher sleep efficiency in the general population: the CoLaus study. Sleep, 2018, 41, .	0.6	38
43	Promises and Challenges in the Use of Consumer-Grade Devices for Sleep Monitoring. IEEE Reviews in Biomedical Engineering, 2018, 11, 53-67.	13.1	52
44	Australian employee perceptions of an organizational-level intervention to reduce sitting. Health Promotion International, 2018, 33, 968-979.	0.9	18
45	Validation of a Novel Device to Measure and Provide Feedback on Sedentary Behavior. Medicine and Science in Sports and Exercise, 2018, 50, 525-532.	0.2	17
46	Pulmonary exposure to metal fume particulate matter cause sleep disturbances in shipyard welders. Environmental Pollution, 2018, 232, 523-532.	3.7	40
47	Evaluation of waist-worn actigraphy monitors for the assessment of sleep in older adults with and without Alzheimerâ€™s disease. Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831877798.	0.6	5
48	Classification and Processing of 24-Hour Wrist Accelerometer Data. Journal for the Measurement of Physical Behaviour, 2018, 1, 51-59.	0.5	20
49	AmICare: Ambient Intelligent and Assistive System for Caregivers Support. , 2018, , .		9
50	A Dual-Accelerometer System for Classifying Physical Activity in Children and Adults. Medicine and Science in Sports and Exercise, 2018, 50, 2595-2602.	0.2	34
51	A Novel User Sleep Information Monitoring System Based on Non-contact Mattress. , 2018, , .		2
52	OBSOLETE: Behavior Modification and Cardiovascular Disease. , 2018, , .		0
53	Direct and Indirect Associations of Sleep Knowledge and Attitudes With Objective and Subjective Sleep Duration and Quality via Sleep Hygiene. Journal of Primary Prevention, 2018, 39, 555-570.	0.8	33
54	Ambulatory monitoring of respiratory effort using a clothing-adhered biosensor. , 2018, , .		17
55	Behavior Modification and Cardiovascular Disease. , 2018, , 257-262.		0
56	The mobile sleep lab app: An open-source framework for mobile sleep assessment based on consumer-grade wearable devices. Computers in Biology and Medicine, 2018, 103, 8-16.	3.9	16

#	Article	IF	Citations
57	Physical Activity Patterns and Correlates of 9-Month-Old Chinese Infants in the Macau Population. Maternal and Child Health Journal, 2018, 22, 1526-1533.	0.7	6
58	Association of activity behaviours and patterns with cardiovascular risk factors in Swiss middle-aged adults: The CoLaus study. Preventive Medicine Reports, 2018, 11, 31-36.	0.8	6
59	The Influence of Daily Stress on Sedentary Behavior: Group and Person (N of 1) Level Results of a 1-Year Observational Study. Psychosomatic Medicine, 2018, 80, 620-627.	1.3	15
60	Relationship between sleep disturbance and self-care in adults with type 2 diabetes. Acta Diabetologica, 2018, 55, 963-970.	1.2	31
61	Wearables for health and fitness: Measurement characteristics and accuracy. , 2018, , .		20
62	A â€œSmartâ€•Undershirt for Tracking Upper Body Motions: Task Classification and Angle Estimation. IEEE Sensors Journal, 2018, 18, 7650-7658.	2.4	37
63	Integrated Framework of Load Monitoring by a Combination of Smartphone Applications, Wearables and Point-of-Care Testing Provides Feedback that Allows Individual Responsive Adjustments to Activities of Daily Living. Sensors, 2018, 18, 1632.	2.1	55
64	Neighborhood disadvantage is associated with actigraphy-assessed sleep continuity and short sleep duration. Sleep, 2018, 41, .	0.6	49
65	Association of activity status and patterns with salivary cortisol: the population-based CoLaus study. European Journal of Applied Physiology, 2018, 118, 1507-1514.	1.2	9
66	Advances and Controversies in Diet and Physical Activity Measurement in Youth. American Journal of Preventive Medicine, 2018, 55, e81-e91.	1.6	26
67	Mobile Health Advances in Physical Activity, Fitness, and Atrial Fibrillation. Journal of the American College of Cardiology, 2018, 71, 2691-2701.	1.2	94
69	Validation of fitness tracker for sleep measures in women with asthma. Journal of Asthma, 2019, 56, 719-730.	0.9	10
70	Compositional analysis of the association between mortality and 24-hour movement behaviour from NHANES. European Journal of Preventive Cardiology, 2021, 28, 791-798.	0.8	44
71	Distance Ratio-based Weighted Rank Outlier Detection on Wearable Health Data. , 2019, , .		2
72	Wearable sensors for monitoring the internal and external workload of the athlete. Npj Digital Medicine, 2019, 2, 71.	5.7	150
73	Vital Sign Measurement in Telemedicine Rehabilitation Based on Intelligent Wearable Medical Devices. IEEE Access, 2019, 7, 54819-54823.	2.6	31
74	Multi-Sensor-Fusion Approach for a Data-Science-Oriented Preventive Health Management System: Concept and Development of a Decentralized Data Collection Approach for Heterogeneous Data Sources. International Journal of Telemedicine and Applications, 2019, 2019, 1-18.	1.1	11
75	Daily Step Counts: A New Prognostic Factor in Locally Advanced Non-Small Cell Lung Cancer?. International Journal of Radiation Oncology Biology Physics, 2019, 105, 745-751.	0.4	44

#	Article	IF	Citations
76	A validation study of a consumer wearable sleep tracker compared to a portable EEG system in naturalistic conditions. Journal of Psychosomatic Research, 2019, 126, 109822.	1.2	34
77	Daily metabolic expenditures: estimates from US, UK and polish time-use data. BMC Public Health, 2019, 19, 453.	1.2	14
78	Accuracy of consumer-level and research-grade activity trackers in ambulatory settings in older adults. PLoS ONE, 2019, 14, e0216891.	1.1	80
79	Comparing measures of free-living sleep in school-aged children. Sleep Medicine, 2019, 60, 197-201.	0.8	16
80	Actigraphic sleep tracking and wearables: Historical context, scientific applications and guidelines, limitations, and considerations for commercial sleep devices. , 2019, , 147-157.		19
81	Physical Activity, Cardiorespiratory Fitness, and Obesity. , 2019, , 229-250.		0
82	Visualising Combined Time Use Patterns of Childrenâ€™s Activities and Their Association with Weight Status and Neighbourhood Context. International Journal of Environmental Research and Public Health, 2019, 16, 897.	1.2	5
83	Preschool family irregularity and the development of sleep problems in childhood: a longitudinal study. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2019, 60, 857-865.	3.1	36
84	Janitor workload and occupational injuries. American Journal of Industrial Medicine, 2019, 62, 222-232.	1.0	12
85	The 24-Hour Activity Cycle: A New Paradigm for Physical Activity. Medicine and Science in Sports and Exercise, 2019, 51, 454-464.	0.2	182
86	Concurrent validity of the Fitbit for assessing sedentary behavior and moderate-to-vigorous physical activity. BMC Medical Research Methodology, 2019, 19, 29.	1.4	49
87	Physical activity and sedentary activity: population epidemiology and concordance in Australian children aged 11â€“12 years and their parents. BMJ Open, 2019, 9, 136-146.	0.8	24
88	Use of accelerometer-based activity monitoring in orthopaedics: benefits, impact and practical considerations. EFORT Open Reviews, 2019, 4, 678-685.	1.8	14
89	Concurrent agreement between ActiGraphâ€‡ and activPALâ€‡ in measuring moderate to vigorous intensity physical activity for adults. Medical Engineering and Physics, 2019, 74, 82-88.	0.8	16
90	Computational Sleep Behavior Analysis: A Survey. IEEE Access, 2019, 7, 142421-142440.	2.6	35
91	Comparison of the Physical Activity Frequency Questionnaire (PAFQ) with accelerometry in a middle-aged and elderly population: The CoLaus study. Maturitas, 2019, 129, 68-75.	1.0	10
92	A pilot randomized controlled trial examining the impact of a sleep intervention targeting home routines on young children's (3â€“6Âyears) physical activity. Pediatric Obesity, 2019, 14, e12481.	1.4	16
93	Wearable Activity Trackers in Clinical Research and Practice. Kinesiology Review, 2019, 8, 11-15.	0.4	12

#	Article	IF	Citations
94	Fitness band accuracy in older community dwelling adults. Health Informatics Journal, 2019, 25, 676-682.	1.1	6
95	Tailored Daily Activity: An Adaptive Physical Activity Smartphone Intervention. Telemedicine Journal and E-Health, 2020, 26, 426-437.	1.6	12
96	SIT LESS: A prototype home-based system for monitoring older adults sedentary behavior. Assistive Technology, 2020, 32, 79-91.	1.2	4
97	Physical Activity, Sleep and Quality of Life in Older Adults: Influence of Physical, Mental and Social Well-being. Behavioral Sleep Medicine, 2020, 18, 797-808.	1.1	47
98	Associations between adolescentsâ€™ preference for fitness activities and achieving the recommended weekly level of physical activity. Journal of Exercise Science and Fitness, 2020, 18, 31-39.	0.8	17
99	Research Combining Physical Activity and Sleep: A Bibliometric Analysis. Perceptual and Motor Skills, 2020, 127, 154-181.	0.6	25
100	The Potential Mediation of the Effects of Physical Activity on Cognitive Function by the Gut Microbiome. Geriatrics (Switzerland), 2020, 5, 63.	0.6	3
101	Seafarersâ€™ Physical Activity and Sleep Patterns: Results from Asia-Pacific Sea Routes. International Journal of Environmental Research and Public Health, 2020, 17, 7266.	1.2	6
102	Development of cut-points for determining activity intensity from a wrist-worn ActiGraph accelerometer in free-living adults. Journal of Sports Sciences, 2020, 38, 2569-2578.	1.0	57
103	Future possibilities for artificial intelligence in the practical management of hypertension. Hypertension Research, 2020, 43, 1327-1337.	1.5	19
104	Sleep, a Governor of Morbidity in PTSD: A Systematic Review of Biological Markers in PTSD-Related Sleep Disturbances . Nature and Science of Sleep, 2020, Volume 12, 545-562.	1.4	8
105	Technologic advances in the assessment and management of obstructive sleep apnoea beyond the apnoea-hypopnoea index: a narrative review. Journal of Thoracic Disease, 2020, 12, 5020-5038.	0.6	21
106	Sing4Health: protocol of a randomized controlled trial of the effects of a singing group intervention on the well-being, cognitive function and health of older adults. BMC Geriatrics, 2020, 20, 354.	1.1	6
107	Health Applications of Gerontechnology, Privacy, and Surveillance: A Scoping Review. Surveillance & Society, 2020, 18, 216-230.	0.4	12
108	Preliminary investigations of the agreement between two wearable accelerometers for use in clinical studies. , 2020, , .		2
109	Data privacy-related behavior and concerns of activity tracking technology users from Germany and the USA. Aslib Journal of Information Management, 2020, 73, 180-200.	1.3	7
110	Reliability of Trapezius Muscle Hardness Measurement: A Comparison between Portable Muscle Hardness Meter and Ultrasound Strain Elastography. Sensors, 2020, 20, 7200.	2.1	21
111	The potential of digital phenotyping to advance the contributions of mobile health to self-management science. Nursing Outlook, 2020, 68, 548-559.	1.5	13

#	Article	IF	Citations
112	The Association between Sleep Duration and Quality with Readmissions: An Exploratory Pilot-Study among Cardiology Inpatients. Clocks & Sleep, 2020, 2, 120-142.	0.9	3
113	A Dual-Accelerometer System for Detecting Human Movement in a Free-living Environment. Medicine and Science in Sports and Exercise, 2020, 52, 252-258.	0.2	27
114	Wearable Technology and How This Can Be Implemented into Clinical Practice. Current Allergy and Asthma Reports, 2020, 20, 36.	2.4	87
115	Does sedentary time increase in older adults in the days following participation in intense exercise?. Aging Clinical and Experimental Research, 2020, 32, 2517-2527.	1.4	6
116	Association of Daily Step Count and Step Intensity With Mortality Among US Adults. JAMA - Journal of the American Medical Association, 2020, 323, 1151.	3.8	365
117	Can Smartphone-Derived Step Data Predict Laboratory-Induced Real-Life Like Fall-Risk in Community-Dwelling Older Adults?. Frontiers in Sports and Active Living, 2020, 2, 73.	0.9	1
118	Prevalence and correlates of obstructive sleep apnea in urban-dwelling, low-income, predominantly African-American women. Sleep Medicine, 2020, 73, 187-195.	0.8	9
119	The Use and Effects of an App-Based Physical Activity Intervention â€œActive2Getherâ€•in Young Adults: Quasi-Experimental Trial. JMIR Formative Research, 2020, 4, e12538.	0.7	12
120	Wrist-worn and chest-strap wearable devices: Systematic review on accuracy and metrological characteristics. Measurement: Journal of the International Measurement Confederation, 2020, 159, 107789.	2.5	74
121	Reconnecting the Brain With the Rest of the Body in Musculoskeletal Pain Research. Journal of Pain, 2021, 22, 1-8.	0.7	15
122	Parallel Assessment Challenges in Nutritional and Sleep Epidemiology. American Journal of Epidemiology, 2021, 190, 954-961.	1.6	4
123	Smart wearable devices as a psychological intervention for healthy lifestyle and quality of life: a randomized controlled trial. Quality of Life Research, 2021, 30, 791-802.	1.5	20
124	IoT-Based Unobtrusive Sensing for Sleep Quality Monitoring and Assessment. IEEE Sensors Journal, 2021, 21, 3799-3809.	2.4	22
125	Wearable Devices to Monitor and Reduce the Risk of Cardiovascular Disease: Evidence and Opportunities. Annual Review of Medicine, 2021, 72, 459-471.	5.0	37
126	2021 ISHNE/HRS/EHRA/APHRS collaborative statement on mHealth in Arrhythmia Management: Digital Medical Tools for Heart Rhythm Professionals. Journal of Arrhythmia, 2021, 37, 271-319.	0.5	21
127	Validity of Wrist-Wearable Activity Devices for Estimating Physical Activity in Adolescents: Comparative Study. JMIR MHealth and UHealth, 2021, 9, e18320.	1.8	19
128	Characteristics of Aerobic Resistance Strength Training With Different Load Intensity Based on Acceleration Sensor. Procedia Computer Science, 2021, 187, 7-11.	1.2	2
129	Physical Activity Evaluation Using a Voice Recognition App: Development and Validation Study. JMIR Biomedical Engineering, 2021, 6, e19088.	0.7	2

#	Article	IF	Citations
130	2021 ISHNE/ HRS/ EHRA/ APHRS collaborative statement on mHealth in Arrhythmia Management: Digital Medical Tools for Heart Rhythm Professionals. Annals of Noninvasive Electrocardiology, 2021, 26, e12795.	0.5	29
131	IoT Applications in Healthcare. Profiles in Operations Research, 2021, , 115-133.	0.3	2
132	Annoyed to Discontinue: Factors Influencing (Dis)Continuance of Using Activity Tracking Wearables. Lecture Notes in Computer Science, 2021, , 372-389.	1.0	0
133	Evaluation framework for selecting wearable activity monitors for research. MHealth, 2021, 7, 6-6.	0.9	8
134	Effects of eHealth-Based Multiple Health Behavior Change Interventions on Physical Activity, Healthy Diet, and Weight in People With Noncommunicable Diseases: Systematic Review and Meta-analysis. Journal of Medical Internet Research, 2021, 23, e23786.	2.1	59
135	Scoping Review of Healthcare Literature on Mobile, Wearable, and Textile Sensing Technology for Continuous Monitoring. Journal of Healthcare Informatics Research, 2021, 5, 270-299.	5.3	11
136	2021 ISHNE/HRS/EHRA/APHRS Expert Collaborative Statement on mHealth in Arrhythmia Management: Digital Medical Tools for Heart Rhythm Professionals: From the International Society for Holter and Noninvasive Electrocardiology/Heart Rhythm Society/European Heart Rhythm Association/Asia-Pacific Heart Rhythm Society. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009204.	2.1	45
137	2021 ISHNE/HRS/EHRA/APHRS Collaborative Statement on mHealth in Arrhythmia Management: Digital Medical Tools for Heart Rhythm Professionals. Cardiovascular Digital Health Journal, 2021, 2, 4-54.	0.5	10
138	Effects of physical activity and sleep quality on wellâ€being: A wrist actigraphy study during the pandemic. Applied Psychology: Health and Well-Being, 2021, 13, 394-405.	1.6	20
139	Modeling Risk Factors for Sleep- and Adiposity-Related Cardiometabolic Disease: Protocol for the Short Sleep Undermines Cardiometabolic Health (SLUMBRx) Observational Study. JMIR Research Protocols, 2021, 10, e27139.	0.5	2
140	Comparisons of physical activity and sedentary behavior between owners and non-owners of commercial wearable devices. Perspectives in Public Health, 2021, 141, 89-96.	0.8	4
141	The Digital Neurologic Examination. Digital Biomarkers, 2021, 5, 114-126.	2.2	15
142	A Comparison of Sedentary Behavior as Measured by the Fitbit and ActivPAL in College Students. International Journal of Environmental Research and Public Health, 2021, 18, 3914.	1.2	13
143	2021 ISHNE/HRS/EHRA/APHRS Collaborative Statement on mHealth in Arrhythmia Management: Digital Medical Tools for Heart Rhythm Professionals. Russian Journal of Cardiology, 0, 26, 4420.	0.4	2
144	Effects of Two Randomized and Controlled Multi-Component Interventions Focusing On 24-Hour Movement Behavior among Office Workers: A Compositional Data Analysis. International Journal of Environmental Research and Public Health, 2021, 18, 4191.	1.2	12
145	Changes in 24-Hour Physical Activity Patterns and Walking Gait Biomechanics After Primary Total Hip Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1166-1174.	1.4	2
146	Validation of Data Imputation by Ensemble Averaging to Quantify 24-h Behavior Using Heart Rate of Stroke Rehabilitation Inpatients. Journal of Medical and Biological Engineering, 2021, 41, 322-330.	1.0	5
147	Defining Valid Activity Monitor Data: A Multimethod Analysis of Weight-Loss Intervention Participantsâ€™ Barriers to Wear and First 100 Days of Physical Activity. Informatics, 2021, 8, 39.	2.4	11

#	Article	IF	Citations
148	Associations between meeting 24-hour movement guidelines and health in the early years: A systematic review and meta-analysis. Journal of Sports Sciences, 2021, 39, 2545-2557.	1.0	25
149	Is Sleep Timing Related to Objectively Measured Physical Activity and Sedentary Behavior in Older Women?. Nature and Science of Sleep, 2021, Volume 13, 1377-1381.	1.4	0
150	Compliance with the 24-Hour Movement Behavior Guidelines and Associations with Adiposity in European Preschoolers: Results from the ToyBox-Study. International Journal of Environmental Research and Public Health, 2021, 18, 7499.	1.2	8
151	Short Sleep Duration and Its Association with Obesity and Other Metabolic Risk Factors in Kuwaiti Urban Adults. Nature and Science of Sleep, 2021, Volume 13, 1225-1241.	1.4	18
152	Heart failure and promotion of physical activity before and after cardiac rehabilitation (HFâ€ªPProACH): a study protocol. ESC Heart Failure, 2021, 8, 3621-3627.	1.4	2
153	Daily Step Count and All-Cause Mortality: A Doseâ€“Response Meta-analysis of Prospective Cohort Studies. Sports Medicine, 2022, 52, 89-99.	3.1	38
154	Reliability and validity of the Actiwatch and Clouclip for measuring illumination in realâ€world conditions. Ophthalmic and Physiological Optics, 2021, 41, 1048-1059.	1.0	10
155	The relationships between step count and all-cause mortality and cardiovascular events: A doseâ€“response meta-analysis. Journal of Sport and Health Science, 2021, 10, 620-628.	3.3	39
156	2021 ISHNE / HRS / EHRA / APHRS Collaborative Statement on mHealth in Arrhythmia Management: Digital Medical Tools for Heart Rhythm Professionals. European Heart Journal Digital Health, 2021, 2, 7-48.	0.7	4
158	Strength Training Characteristics of Different Loads Based on Acceleration Sensor and Finite Element Simulation. Sensors, 2021, 21, 647.	2.1	6
159	A Systematic Literature Review of the Factors that Influence the Accuracy of Consumer Wearable Health Device Data. Lecture Notes in Computer Science, 2020, , 96-107.	1.0	10
160	Studying Sleep in Family Contexts Via Actigraphy and Wearable Devices. National Symposium on Family Issues, 2017, , 183-199.	0.2	1
161	Built Environment Interventions to Increase Active Travel: a Critical Review and Discussion. Current Environmental Health Reports, 2019, 6, 309-315.	3.2	34
162	An international physical activity and public health research agenda to inform coronavirus disease-2019 policies and practices. Journal of Sport and Health Science, 2020, 9, 328-334.	3.3	178
163	Real-time mobile monitoring of bipolar disorder: a review of evidence and future directions. Neuropsychopharmacology, 2021, 46, 197-208.	2.8	34
166	Measuring Time in the Office Using Bluetooth Sensors: Feasibility and Validity Considerations. Journal for the Measurement of Physical Behaviour, 2019, 2, 36-44.	0.5	2
167	Application of Raw Accelerometer Data and Machine-Learning Techniques to Characterize Human Movement Behavior: A Systematic Scoping Review. Journal of Physical Activity and Health, 2020, 17, 360-383.	1.0	43
168	Effects of Three Motivationally Targeted Mobile Device Applications on Initial Physical Activity and Sedentary Behavior Change in Midlife and Older Adults: A Randomized Trial. PLoS ONE, 2016, 11, e0156370.	1.1	117

#	Article	IF	Citations
169	Assessment of laboratory and daily energy expenditure estimates from consumer multi-sensor physical activity monitors. PLoS ONE, 2017, 12, e0171720.	1.1	92
170	Psychosocial factors affecting sleep misperception in middle-aged community-dwelling adults. PLoS ONE, 2020, 15, e0241237.	1.1	7
171	Accuracy of Fitbit Devices: Systematic Review and Narrative Syntheses of Quantitative Data. JMIR MHealth and UHealth, 2018, 6, e10527.	1.8	389
172	Accuracy of Consumer Wearable Heart Rate Measurement During an Ecologically Valid 24-Hour Period: Intraindividual Validation Study. JMIR MHealth and UHealth, 2019, 7, e10828.	1.8	204
173	Digital Interventions to Reduce Sedentary Behaviors of Office Workers: Scoping Review. Journal of Medical Internet Research, 2019, 21, e11079.	2.1	40
174	Validity Evaluation of the Fitbit Charge2 and the Garmin vivosmart HR+ in Free-Living Environments in an Older Adult Cohort. JMIR MHealth and UHealth, 2019, 7, e13084.	1.8	93
175	Accuracy of Fitbit Wristbands in Measuring Sleep Stage Transitions and the Effect of User-Specific Factors. JMIR MHealth and UHealth, 2019, 7, e13384.	1.8	57
176	Monitoring Occupational Sitting, Standing, and Stepping in Office Employees With the W@W-App and the MetaWearC Sensor: Validation Study. JMIR MHealth and UHealth, 2020, 8, e15338.	1.8	4
177	Comparing the Usability and Acceptability of Wearable Sensors Among Older Irish Adults in a Real-World Context: Observational Study. JMIR MHealth and UHealth, 2020, 8, e15704.	1.8	56
178	Adultsâ€™ Preferences for Behavior Change Techniques and Engagement Features in a Mobile App to Promote 24-Hour Movement Behaviors: Cross-Sectional Survey Study. JMIR MHealth and UHealth, 2019, 7, e15707.	1.8	19
179	Human-Centered Design Strategies for Device Selection in mHealth Programs: Development of a Novel Framework and Case Study. JMIR MHealth and UHealth, 2020, 8, e16043.	1.8	31
180	Low-Cost Consumer-Based Trackers to Measure Physical Activity and Sleep Duration Among Adults in Free-Living Conditions: Validation Study. JMIR MHealth and UHealth, 2020, 8, e16674.	1.8	37
181	Reliability and Validity of Commercially Available Wearable Devices for Measuring Steps, Energy Expenditure, and Heart Rate: Systematic Review. JMIR MHealth and UHealth, 2020, 8, e18694.	1.8	296
182	Fitbit-Based Interventions for Healthy Lifestyle Outcomes: Systematic Review and Meta-Analysis. Journal of Medical Internet Research, 2020, 22, e23954.	2.1	107
183	Usage, Acceptability, and Effectiveness of an Activity Tracker in a Randomized Trial of a Workplace Sitting Intervention: Mixed-Methods Evaluation. Interactive Journal of Medical Research, 2018, 7, e5.	0.6	21
184	Devices for Self-Monitoring Sedentary Time or Physical Activity: A Scoping Review. Journal of Medical Internet Research, 2016, 18, e90.	2.1	98
185	Evaluating the Consistency of Current Mainstream Wearable Devices in Health Monitoring: A Comparison Under Free-Living Conditions. Journal of Medical Internet Research, 2017, 19, e68.	2.1	98
186	An International Study on the Determinants of Poor Sleep Amongst 15,000 Users of Connected Devices. Journal of Medical Internet Research, 2017, 19, e363.	2.1	25

#	Article	IF	Citations
187	Brain Activation in Response to Personalized Behavioral and Physiological Feedback From Self-Monitoring Technology: Pilot Study. Journal of Medical Internet Research, 2017, 19, e384.	2.1	5
188	Exploring the Association Between Self-Reported Asthma Impact and Fitbit-Derived Sleep Quality and Physical Activity Measures in Adolescents. JMIR MHealth and UHealth, 2017, 5, e105.	1.8	41
192	Organizational-Level Strategies With or Without an Activity Tracker to Reduce Office Workersâ€™ Sitting Time: Rationale and Study Design of a Pilot Cluster-Randomized Trial. JMIR Research Protocols, 2016, 5, e73.	0.5	30
193	Wearables and Workload. Advances in Human and Social Aspects of Technology Book Series, 2019, , 145-170.	0.3	4
194	Implications and Recommendations for Equivalence Testing in Measures of Movement Behaviors: A Scoping Review. Journal for the Measurement of Physical Behaviour, 2021, 4, 353-362.	0.5	19
197	Not All Errors Are Created Equal: Influence of User Characteristics on Measurement Errors of Consumer Wearable Devices for Sleep Tracking. EAI Endorsed Transactions on Pervasive Health and Technology, 2018, 4, 159404.	0.7	0
201	Exploiting Wearable Technologies to Measure and Predict Studentsâ€™ Effort. , 2019, , 411-431.		1
202	Step Count and Sedentary Time Validation of Consumer Activity Trackers and a Pedometer in Free-Living Settings. Journal for the Measurement of Physical Behaviour, 2019, 2, 109-117.	0.5	2
204	Designing Videogames to Crowdsource Accelerometer Data Annotation for Activity Recognition Research. , 2019, 2019, 135-147.		4
205	Usability of Wearable Devices to Remotely Monitor Sleep Patterns Among Patients With Ischemic Heart Disease: Observational Study. JMIR Formative Research, 2020, 4, e14508.	0.7	4
207	Comparing the activPAL Softwareâ€™s Primary Time in Bed Algorithm against Self-Report and van Der Bergâ€™s Algorithm. Measurement in Physical Education and Exercise Science, 2021, 25, 212-226.	1.3	7
208	Equivalency of Sleep Estimates: Comparison of Three Research-Grade Accelerometers. Journal for the Measurement of Physical Behaviour, 2020, 3, 294-303.	0.5	13
209	Accuracy of Wearable Trackers for Measuring Moderate- to Vigorous-Intensity Physical Activity: A Systematic Review and Meta-Analysis. Journal for the Measurement of Physical Behaviour, 2020, 3, 346-357.	0.5	14
210	Intervention studies in transport and emerging evidence. , 2020, , 293-307.		1
211	Using Isotemporal Analyses to Examine the Relationships Between Daytime Activities and Cancer Recurrence Biomarkers in Breast Cancer Survivors. Journal of Physical Activity and Health, 2020, 17, 217-224.	1.0	2
214	Validation of foot plantar pressure sensor data used to estimate standing, sitting, and moving durations in one working day. Journal of Orthopaedic Science, 2023, 28, 217-221.	0.5	1
216	THE FUTURE OF MOBILE HEALTH APPLICATIONS AND DEVICES IN CARDIOVASCULAR HEALTH. European Medical Journal Innovations, 2017, 2017, 92-97.	2.0	15
217	Validation of PiezoRx Pedometer Derived Sedentary Time. International Journal of Exercise Science, 2018, 11, 552-560.	0.5	1

#	Article	IF	Citations
218	The Impact of Physical Activity and Sleep on Physiology Following a mTBI. International Journal of Exercise Science, 2019, 12, 919-931.	0.5	0
219	The efficacy of commercial smartwatches with a blood pressureâ€monitoring feature: A pilot randomized controlled trial. Journal of Nursing Scholarship, 2022, 54, 324-331.	1.1	4
220	Arguments for Emerging Technologies Applications to Improve Manufacturing Warehouse Ergonomics. Advances in Sustainability Science and Technology, 2022, , 115-164.	0.4	1
222	Sedentary time has a stronger impact on metabolic health than moderate to vigorous physical activity in adolescents with obesity: a crossâ€sectional analysis of the Betaâ€JUDO study. Pediatric Obesity, 2022, , e12897.	1.4	13
224	Measurement of physical activity and prevention of physicalÂinactivity/sedentary behaviors in patients with septic knee arthritis before and after hospital discharge: AÂcase report. Physiotherapy Research International, 2022, 27, e1943.	0.7	2
225	Comparison of Outcomes Derived from the ActiGraph GT3X+ and the Axivity AX3 Accelerometer to Objectively Measure 24-Hour Movement Behaviors in Adults: A Cross-Sectional Study. International Journal of Environmental Research and Public Health, 2022, 19, 271.	1.2	7
226	Association between Metabolic Syndrome Diagnosis and the Physical Activityâ€"Sedentary Profile of Adolescents with Obesity: A Complementary Analysis of the Beta-JUDO Study. Nutrients, 2022, 14, 60.	1.7	6
227	Change in Objectively Measured Activity Levels Resulting from the EMPOWER Study Lifestyle Intervention. Translational Journal of the American College of Sports Medicine, 2022, 7, .	0.3	0
228	Acculturation, Discrimination and 24-h Activity in Asian American Immigrant Women. Journal of Immigrant and Minority Health, 2022, , 1.	0.8	0
229	Comparison of Wrist- and Hip-Worn Activity Monitors When Meeting Step Guidelines. Preventing Chronic Disease, 2022, 19, E18.	1.7	7
230	Mediating role of psychological distress in the associations between neighborhood social environments and sleep health. Sleep, 2022, 45, .	0.6	12
231	Quality Evaluation of Free-living Validation Studies for the Assessment of 24-Hour Physical Behavior in Adults via Wearables: Systematic Review. JMIR MHealth and UHealth, 2022, 10, e36377.	1.8	7
232	Wearable Cyberphysical Systems for Biomedicine. , 2022, , .		0
233	Association between alanine aminotransferase as surrogate of fatty liver disease and physical activity and sedentary time in adolescents with obesity. European Journal of Pediatrics, 2022, 181, 3119-3129.	1.3	2
234	Comparison of freeâ€living physical activity measurements between ActiGraph GT3Xâ€BT and Fitbit Charge 3 in young people with haemophilia. Haemophilia, 2022, 28, .	1.0	6
235	Physical behaviors and their association with type 2 diabetes mellitus risk markers in urban South African middle-aged adults: an isotemporal substitutionapproach. BMJ Open Diabetes Research and Care, 2022, 10, e002815.	1.2	3
236	Validity of the activPAL monitor to measure stepping activity and activity intensity: A systematic review. Gait and Posture, 2022, 97, 165-173.	0.6	19
237	Personalized Energy Expenditure Estimation: Visual Sensing Approach With Deep Learning. JMIR Formative Research, 2022, 6, e33606.	0.7	0

#	Article	IF	Citations
238	Objective and subjective measures of sleep in men with Muscular Dystrophy. PLoS ONE, 2022, 17, e0274970.	1.1	5
239	Validation of Fitbit Charge 4 for assessing sleep in Chinese patients with chronic insomnia: A comparison against polysomnography and actigraphy. PLoS ONE, 2022, 17, e0275287.	1.1	10
240	A Review of Frailty Analysis in Older Adults: From Clinical Tools Towards Fully Automated Preventive Systems. Irbm, 2023, 44, 100743.	3.7	0
241	The Future of Mobile Health Applications and Devices in Cardiovascular Health. European Medical Journal Innovations, 0, , 92-97.	2.0	18
242	Time-Activity Patterns. , 2022, , 1057-1112.		0
243	Device-measured physical activity and sedentary behavior in relation to cardiovascular diseases and all-cause mortality: systematic review and meta-analysis of prospective cohort studies. , 2022, , 100054.		0
244	Neighborhood Built Environment and Sleep Health: A Longitudinal Study in Low-Income and Predominantly African-American Neighborhoods. American Journal of Epidemiology, 2023, 192, 736-747.	1.6	2
245	Ensemble averaging for categorical variables: Validation study of imputing lost data in 24-h recorded postures of inpatients. Frontiers in Physiology, 0, 14, .	1.3	3
246	Data-driven systems to detect physical weakening from daily routine: A pilot study on elderly over 80 years old. PLoS ONE, 2023, 18, e0274306.	1.1	0
247	Usability of a wearable device for home-based upper limb telerehabilitation in persons with stroke: A mixed-methods study. Digital Health, 2023, 9, 205520762311537.	0.9	6
250	Association between Metabolic Syndrome Status and Daily Physical Activity Measured by a Wearable Device in Japanese Office Workers. International Journal of Environmental Research and Public Health, 2023, 20, 4315.	1.2	1
252	Accelerometer-Measured Inpatient Physical Activity and Associated Outcomes After Major Abdominal Surgery: Systematic Review. Interactive Journal of Medical Research, 0, 12, e46629.	0.6	2
253	Design of the Think PHRESH longitudinal cohort study: Neighborhood disadvantage, cognitive aging, and Alzheimerâ€™s disease risk in disinvested, Black neighborhoods. BMC Public Health, 2023, 23, .	1.2	1