

# CITATION REPORT

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## Large Scale Population Assessment of Physical Activity Using Wrist Worn Accelerometers: The UK Biobank Study

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#	Paper	IF	Citations
534	. <b>2017</b> , 5, 13028-13037		21
533	Adiposity and grip strength as long-term predictors of objectively measured physical activity in 93 015 adults: the UK Biobank study. <b>2017</b> , 41, 1361-1368		22
532	Objective Measures of Activity in the Elderly: Distribution and Associations With Demographic and Health Factors. <b>2017</b> , 18, 838-847		22
531	An Evaluation of the Evidence Relating to Physical Inactivity, Sedentary Behavior, and Cancer Incidence and Mortality. <b>2017</b> , 4, 221-231		21
530	Wearable Internet of Things - from human activity tracking to clinical integration. <b>2017</b> , 2017, 2361-2364		10
529	Developing Fine-Grained Actigraphies for Rheumatoid Arthritis Patients from a Single Accelerometer Using Machine Learning. <b>2017</b> , 17,		12
528	Is sedentary behaviour just physical inactivity by another name?. <b>2017</b> , 14, 142		128
527	Describing objectively measured physical activity levels, patterns, and correlates in a cross sectional sample of infants and toddlers from South Africa. <b>2017</b> , 14, 176		20
526	Physical activity, sedentary behaviour and colorectal cancer risk in the UK Biobank. <b>2018</b> , 118, 920-929		32
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524	Biological Insights Into Muscular Strength: Genetic Findings in the UK Biobank. <b>2018</b> , 8, 6451		42
523	Defining Adherence. <b>2018</b> , 2, 1-22		23
522	The Problem of Physical Inactivity Worldwide Among Older People. <b>2018</b> , 25-41		2
521	Associations of Fitness, Physical Activity, Strength, and Genetic Risk With Cardiovascular Disease: Longitudinal Analyses in the UK Biobank Study. <b>2018</b> , 137, 2583-2591		85
520	Increasing the use of mobile technology-derived endpoints in clinical trials. <b>2018</b> , 15, 313-315		8
519	Beyond Cut Points: Accelerometer Metrics that Capture the Physical Activity Profile. <b>2018</b> , 50, 1323-1332		57
518	The association of pre-operative home accelerometry with cardiopulmonary exercise variables. <b>2018</b> , 73, 738-745		5

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509	Influence of Accelerometer Calibration Approach on Moderate-Vigorous Physical Activity Estimates for Adults. <b>2018</b> , 50, 2285-2291	17
508	A Wearable Internet of Things Based System with Edge Computing for Real-Time Human Activity Tracking. <b>2018</b> ,	2
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506	Sleep and BMI: Do (Fitbit) bands aid?. <b>2018</b> , 7, 511	4
505	Human activity recognition from inertial sensor time-series using batch normalized deep LSTM recurrent networks. <b>2018</b> , 2018, 1-4	37
504	Using Accelerometers to Measure Physical Activity in Older Patients Admitted to Hospital. <b>2018</b> , 2018, 3280240	15
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385	A Temporal Threshold for Distinguishing Off-Wrist from Inactivity Periods: A Retrospective Actigraphy Analysis. <b>2020</b> , 2, 466-472	0	
384	Does Multiple Sclerosis Differently Impact Physical Activity in Women and Man? A Quantitative Study Based on Wearable Accelerometers. <b>2020</b> , 17,	4	
383	Cross-generational comparability of hip- and wrist-worn ActiGraph GT3X+, wGT3X-BT, and GT9X accelerometers during free-living in adults. <b>2020</b> , 38, 2794-2802	8	
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364	Automated Method for Detecting Acute Insomnia Using Multi-Night Actigraphy Data. <b>2020</b> , 8, 74413-74422	7
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339	Mendelian randomization study indicates lack of causal relationship between physical activity and lung cancer. <b>2021</b> , 147, 177-181		2
338	The Use of Frailty Scoring to Predict Early Physical Activity Levels After Cardiac Surgery. <b>2021</b> , 111, 36-43		2

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336	Patient-centred measurement of recovery from day-case surgery using wrist worn accelerometers: a pilot and feasibility study. <b>2021</b> , 76, 785-797	0
335	Additive Functional Cox Model.. <b>2021</b> , 30, 780-793	3
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333	Association of Timing and Balance of Physical Activity and Rest/Sleep With Risk of COVID-19: A UK Biobank Study. <b>2021</b> , 96, 156-164	14
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331	Does physical activity lower the risk for metabolic syndrome: a longitudinal study of physically active older women. <b>2021</b> , 21, 11	5
330	Physical Activity Intensity Cut-Points for Wrist-Worn GENEActiv in Older Adults. <b>2020</b> , 2, 579278	3
329	Reconstruction of Pulse Wave and Respiration from Wrist Accelerometer During Sleep. <b>2021</b> , PP,	0
328	Approaches to minimising the epidemiological impact of sources of systematic and random variation that may affect biochemistry assay data in UK Biobank. <b>2020</b> , 5, 222	10
327	Objectively Measured Physical Activity in Patients with COPD: Recommendations from an International Task Force on Physical Activity. <b>2021</b> , 8, 528-550	7
326	Fractal motor activity regulation and sex differences in preclinical Alzheimer's disease pathology. <b>2021</b> , 13, e12211	1
325	Linking objective measures of physical activity and capability with brain structure in healthy community dwelling older adults.	4
324	Genetically predicted physical activity levels are associated with lower colorectal cancer risk: a Mendelian randomisation study. <b>2021</b> , 124, 1330-1338	2
323	Wearable Based Calibration of Contactless In-home Motion Sensors for Physical Activity Monitoring in Community-Dwelling Older Adults. <b>2020</b> , 2, 566595	1
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321	Lab-on-a-chip: wearables as a one stop shop for free-living assessments. <b>2021</b> , 43-60	
320	Sleep classification from wrist-worn accelerometer data using random forests. <b>2021</b> , 11, 24	17

319	Genome-wide analyses of behavioural traits are subject to bias by misreports and longitudinal changes. <b>2021</b> , 12, 20211	16
318	Impact of Reduced Sampling Rate on Accelerometer-Based Physical Activity Monitoring and Machine Learning Activity Classification. <b>2021</b> , 1-13	1
317	Applying Deep Learning Techniques to Estimate Patterns of Musical Gesture. <b>2020</b> , 11, 575971	1
316	Study protocol: health survey of Sao Paulo: ISA-Physical Activity and Environment. <b>2021</b> , 21, 283	1
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313	Diurnal Physical Activity Patterns across Ages in a Large UK Based Cohort: The UK Biobank Study. <b>2021</b> , 21,	3
312	Can Trunk Acceleration Differentiate Stroke Patient Gait Patterns Using Time- and Frequency-Domain Features?. <b>2021</b> , 11, 1541	1
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296	Self-supervised transfer learning of physiological representations from free-living wearable data. <b>2021</b> ,	2
295	A novel algorithm to detect non-wear time from raw accelerometer data using deep convolutional neural networks. <b>2021</b> , 11, 8832	2
294	Recent Academic Research on Clinically Relevant Digital Measures: Systematic Review (Preprint).	
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292	Remote monitoring technologies in Alzheimer's disease: design of the RADAR-AD study. <b>2021</b> , 13, 89	10
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286	Calibration and Cross-Validation of Accelerometer Cut-Points to Classify Sedentary Time and Physical Activity from Hip and Non-Dominant and Dominant Wrists in Older Adults. <b>2021</b> , 21,	4
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259	Applying Machine Learning for Sensor Data Analysis in Interactive Systems. <b>2021</b> , 54, 1-25	4
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248	Using accelerometers in the assessment of sarcopenia in older adults attending a day hospital service in Ireland. <b>2021</b> , 6, 98-110	

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243	Recent Academic Research on Clinically Relevant Digital Measures: Systematic Review. <b>2021</b> , 23, e29875	1
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237	Objective assessment of physical activity patterns based on accelerometer and GPS data in adults. <b>2021</b> , 25, 112-119	1
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229	Age at puberty and accelerometer-measured physical activity: Findings from two independent UK cohorts. <b>2020</b> , 47, 391-399	1
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227	Biological Insights Into Muscular Strength: Genetic Findings in the UK Biobank.	2
226	Genetic predictors of participation in optional components of UK Biobank.	10
225	A novel algorithm to detect non-wear time from raw accelerometer data using convolutional neural networks.	1
224	Accuracy and Acceptability of Wearable Motion Tracking Smartwatches for Inpatient Monitoring.	2
223	Detecting sleep in free-living conditions without sleep-diaries: a device-agnostic, wearable heart rate sensing approach.	1
222	Automated detection of sleep-boundary times using wrist-worn accelerometry.	3
221	Accelerometry data in health research: challenges and opportunities.	1
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219	Is Sedentary Behavior or Physical Activity Associated With Loneliness in Older Adults? Results of the European-Wide SITLESS Study. <b>2019</b> , 1-7	7
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215	Providing a Basis for Harmonization of Accelerometer-Assessed Physical Activity Outcomes Across Epidemiological Datasets. <b>2019</b> , 2, 131-142	16
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202	Development and Evaluation of an Accelerometer-Based Protocol for Measuring Physical Activity Levels in Cancer Survivors: Development and Usability Study. <b>2020</b> , 8, e18491	2
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192	Rationale and design of the SafeHeart study: Development and testing of a mHealth tool for the prediction of arrhythmic events and implantable cardioverter-defibrillator therapy.. <b>2021</b> , 2, S11-S20	0
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190	Smartphone pervasive sensing of physical activity of overweight adults in a long-running randomized controlled trial (Preprint).	
189	Estimating energy expenditure from wrist and thigh accelerometry in free-living adults: a doubly labelled water study.	0
188	Objectively Monitoring Amyotrophic Lateral Sclerosis Patient Symptoms During Clinical Trials With Sensors: Observational Study (Preprint).	
187	Number of days required to estimate objectively measured physical activity constructs in different age groups.	1
186	Dominant vs. Non-Dominant Wrist Placement of Activity Monitors: Impact on Steps per Day. <b>2019</b> , 2, 118-123	1
185	Physical activity and risks of breast and colorectal cancer: A Mendelian randomization analysis.	
184	Opposing patterns in self-reported and measured physical activity levels in middle-aged adults. 1	0
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181	Is occupational physical activity associated with all-cause mortality in UK Biobank?.	
180	Equivalency of Sleep Estimates: Comparison of Three Research-Grade Accelerometers. <b>2020</b> , 3, 294-303	3
179	Dominance of Deep LSTM in Smartphone Sensor based Human Activity Classification. <b>2020</b> ,	
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175	Objective assessment of sleep regularity in 60 000 UK Biobank participants using an open-source package. <b>2021</b> , 44,		1
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173	Quantifying population levels of physical activity in Africa using wearable sensors: implications for global physical activity surveillance. <b>2020</b> , 6, e000941		2
172	Using Wearable Activity Trackers to Predict Type 2 Diabetes: Machine LearningBased Cross-sectional Study of the UK Biobank Accelerometer Cohort (Preprint).		
171	Differences in Accelerometer-Measured Patterns of Physical Activity and Sleep/Rest Between Ethnic Groups and Age: An Analysis of UK Biobank. <b>2021</b> , 1-10		1
170	Validation of open-source step-counting algorithms for wrist-worn tri-axial accelerometers in cardiovascular patients. <b>2021</b> , 92, 206-211		0
169	Machine Learning Based Sleep Phase Monitoring using Pulse Oximeter and Accelerometer. <b>2021</b> ,		
168	Methodological aspects for accelerometer-based assessment of physical activity in heart failure and health. <b>2021</b> , 21, 251		0
167	Wearable Accelerometers in Cancer Patients. <b>2022</b> , 109-147		
166	Physical activity and sleep during the first week of anorexia nervosa inpatient care. <i>PLoS ONE</i> , <b>2021</b> , 16, e0260077	3-7	0
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164	The genetic case for cardiorespiratory fitness as a clinical vital sign and the routine prescription of physical activity in healthcare. <b>2021</b> , 13, 180		2
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161	Dose-response association between device-measured physical activity and incident dementia: a prospective study from UK Biobank. <b>2021</b> , 19, 305		1
160	A Machine Learning Classifier for Detection of Physical Activity Types and Postures During Free-Living. <b>2021</b> , 1-8		1
159	Socioecological approach for identifying the determinants of objectively measured physical activity: A prospective study of the UK Biobank.. <b>2021</b> , 155, 106949		1
158	The UP150: A Multifactorial Environmental Intervention to Promote Employee Physical and Mental Well-Being.. <b>2022</b> , 19,		0

157	Genome-wide association studies of 27 accelerometry-derived physical activity measurements identified novel loci and genetic mechanisms.. <b>2022,</b>	0
156	Considerations for the Use of Consumer-Grade Wearables and Smartphones in Population Surveillance of Physical Activity. <b>2022,</b> 1-7	1
155	Changes in physical activity by context and residential greenness among recent retirees: Longitudinal GPS and accelerometer study.. <b>2021,</b> 73, 102732	
154	Correlations in sleeping patterns and circadian preference between spouses.	
153	Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study.. <b>2022,</b>	0
152	Accelerometer derived physical activity patterns in 27.890 middle-aged adults - the SCAPIS cohort study.. <b>2022,</b>	3
151	An open-label prospective pilot trial of nucleus accumbens deep brain stimulation for children with autism spectrum disorder and severe, refractory self-injurious behavior: study protocol.. <b>2022,</b> 8, 24	1
150	Putting Temperature into the Equation: Development and Validation of Algorithms to Distinguish Non-Wearing from Inactivity and Sleep in Wearable Sensors.. <b>2022,</b> 22,	0
149	Physical Activity and Systemic Lupus Erythematosus Among European Populations: A Two-Sample Mendelian Randomization Study.. <b>2021,</b> 12, 784922	0
148	Association of Physical Activity with Incidence of Dementia is Attenuated by Air Pollution. <b>2022,</b> Publish Ahead of Print,	0
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146	Physical activity intensity profiles associated with cardiometabolic risk in middle-aged to older men and women.. <b>2022,</b> 156, 106977	0
145	Association of Air Pollution and Physical Activity With Brain Volumes. <b>2021,</b>	2
144	Objective and Self-Reported Physical Activity and Risk of Falling Among Community-Dwelling Older Adults From Southern Brazil.. <b>2022,</b> 1-8	
143	Is Complexity of Daily Activity Associated with Physical Function and Life Space Mobility among Older Adults?. <b>2022,</b>	0
142	Risk/benefit tradeoff of habitual physical activity and air pollution on chronic pulmonary obstructive disease: findings from a large prospective cohort study.. <b>2022,</b> 20, 70	1
141	The Genetics of Participation: Method and Analysis.	2
140	Sleep during travel balances individual sleep needs.. <b>2022,</b>	0

139	Exploiting real-world data to monitor physical activity in patients with osteoarthritis: the opportunity of digital epidemiology.. <b>2022</b> , 8, e08991	1
138	Advancing digital health applications: priorities for innovation in real-world evidence generation.. <b>2022</b> , 4, e200-e206	3
137	Interactions of physical activity, muscular fitness, adiposity, and genetic risk for NAFLD.. <b>2022</b> ,	0
136	Rest-activity profiles among U.S. adults in a nationally representative sample: a functional principal component analysis.. <b>2022</b> , 19, 32	0
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