

Berlin School of Public Health | BSPH

Kurzbeschreibung eines Projektthemas	
Projektanbieter	Molekulare Epidemiologie (AG Pischon)
Institution	Max-Delbrück-Centrum für Molekulare Medizin
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Projektthema	Factors associated with habitual time spent in different physical activity
	intensities using multiday accelerometry
Projektbeschreibung	Regular physical activity (PA) is an important modifiable factor for
	prevention of many chronic diseases. It is important to know and
	characterize factors that are related to habitual PA because modifiable
	factors might be targets for measures to increase PA on a public health
	level, while unmodifiable factors might allow to identify target groups that
	may particularly benefit from interventions. However, evidence is
	inconsistent for many factors and mainly based on self-reported PA, which
	is prone to measurement error, especially regarding PA intensities. Further,
	most studies focus on total activity and do not differentiate between PA
	duration and intensity; which, however, are both independent behaviors
	and risk factors. Accelerometry allows to detect accelerations of the body
	under free-living conditions, capturing PA duration and intensity more
	precisely than self-reports.
	In a previous study based on pretest data from the German National
	Cohort (NAKO), we found higher age associated with more time in low-
	intensity and less time in vigorous-to-very-vigorous activity, while higher
	BMI was related to less time in low-intensity activity (Sci Rep 2020;10:774).
	Current versus never smoking was associated with more time in low-
	intensity and less time in vigorous-to-very-vigorous activity. Finally, having
	versus not having a university entrance qualification and being not versus
	full time employed were associated with more inactivity time and less time
	in low-intensity activity. However, the sample size for that analysis was
	restricted to 249 participants who participated in the NAKO pretest study.
	NAKO is a large prospective study, including more than 205,000
	participants (Eur J Epidemiol. 2014 May;29(5):371-82). With baseline
	examination completed in 2019, we now have the ability to assess the
	association of factors that are related to habitual PA in a much larger
	population, allowing a more detailed analysis.
Autgaben	Literature research; Development of research question/hypotheses;
(Umfang 140 Stunden)	reparation of an analysis plan; quality control, data analysis, interpretation
	and reporting;
	rammanzation with software (SAS) for Gata analysis
Anzahl der Projektplätze	1