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Supplementary Table

Reason for exclusion of studies.

SOURCE	NUMBER	FIRST AUTHOR (YEAR)	TITLE	NO RELEVANCE TO PHYSICAL ACTIVITY	NO CHILD/ ADOLESCENT POPULATION	NO IN-SILICO/ MODEL-BASED APPROACH	SOURCE	DUPLICATE	FULL PAPER	INCLUSION AFTER FULL TEXT SCREENING
36	1	Aziza R. (2016)	SimNCD: An agent-based formalism for the study of noncommunicable diseases	no	no	no	Scopus	no	yes	no acces to fulltext
37	2	Begon M. (2009)	Effect of hip flexibility on optimal stalder performances on high bar	no	yes	no	Scopus	no	no	no
38	3	Blok D.J. (2018)	The impact of individual and environmental interventions on income inequalities in sports participation: Explorations with an agent-based model	no	yes	no	Scopus	no	no	no
39	4	Cadilhac D.A. (2011)	The economic benefits of reducing physical inactivity: An Australian example	no	yes	no	Scopus	no	no	no
40	5	Cao J. (2025)	The Prevalence of Myopia and Its Association with Sleep Duration, Physical Activity, and Eye Exercises	no	no	no	Scopus	yes	yes	no acces to fulltext
41	6	Da Costa M.G.S. (2021)	Risk factors in adolescents as predictors of arterial hypertension in adults: Protocol for a systematic review	yes	yes	yes	Scopus	no	no	no
42	7	Feng H.M. (2019)	Establishment of finite element dynamic simulation models of cervical spine facet joint in a 8-year-old child	yes	no	no	Scopus	no	no	no
43	8	Florindo A.A. (2021)	Study protocol: health survey of Sao Paulo: ISA-Physical Activity and Environment	no	yes	yes	Scopus	no	no	no
44	9	Hurt J. (2024)	Evidence-based policy-making in sports funding using a data-driven optimization approach	no	yes	no	Scopus	no	no	no
45	10	Kuo T. (2016)	Framing the local context and estimating the health impact of cppw obesity prevention strategies in los angeles county, 2010-2012	no	no	no	Scopus	yes	yes	no acces to fulltext
46	11	Maahs D.M. (2012)	Outpatient assessment of determinants of glucose excursions in adolescents with type 1 diabetes: Proof of concept	no	no	yes	Scopus	no	no	no
47	12	Oravisjärvi K. (2011)	Effects of physical activity on the deposition of traffic-related particles into the human lungs in silico	yes	no	no	Scopus	no	yes	no
48	13	Powell-Wiley T.M. (2017)	Simulating the Impact of Crime on African American Women's Physical Activity and Obesity	no	yes	no	Scopus	no	no	no
49	14	Russell S.J. (2023)	Estimating the effects of preventive and weight-management interventions on the prevalence of childhood obesity in England: a modelling study	yes	no	no	Scopus	no	no	no
50	15	Van Beek J.H.G.M. (2016)	Understanding the physiology of the ageing individual: Computational modelling of changes in metabolism and endurance	no	yes	no	Scopus	no	no	no
51	16	Wakeland W. (2009)	Assessing the prediction potential of an in silico computer model of intracranial pressure dynamics	yes	no	no	Scopus	no	no	no
52	17	Wang Y.C. (2011)	Effectiveness and cost-effectiveness of blood pressure screening in adolescents in the United States	yes	no	no	Scopus	yes	no	no
53	18	Woodcock J. (2014)	Health effects of the London bicycle sharing system: Health impact modelling study	no	yes	no	Scopus	no	no	no
54	19	Zhang S. (2022)	The Influence of a School Social Network Intervention on Adolescent's Health Behaviors: A Gender-Specific Agent-Based Model	yes	no	no	Scopus	yes	no	no