Progress ICAD approved analysis proposals (updated Jan 25)

Note: Shaded proposals have been completed (published), proposals in italics have been discontinued.

Summary: 68 proposals approved (37 published/in press; 3 in submission; 0 in circulation; 13 in progress; 15 discontinued)

Proposal	Lead	On behalf of	Title	Approval	Data release	Expire date	Status
No	applicant	partner		date	date	protected	
						access	
1	L Sherar	Steering	International children's accelerometry database	NA (core)	NA	NA	Published
		Committee	(ICAD): Design and methods.				BMC PH 2011
2	U Ekelund	SPEEDY	Combined Associations of Moderate-to-Vigorous	NA (core)	NA	NA	Published
			Physical Activity and Sedentary Time with Cardio-				JAMA 2013
			Metabolic Risk Factors in Youth (ICAD)				
3	L Sherar	Steering	The association between parental education, weight	NA (core)	NA	NA	Published
		Committee	status and objectively assessed physical activity and				J Epi Comm Health 2016
			sedentary behaviour in youth: A cross country				
			comparison				
4	A Cooper	PEACH	A cross country comparison of body mass index,	NA (core)	NA	NA	Published
			accelerometer assessed physical activity and				IJBNPA 2015
			sedentary behaviour of children and adolescents				
5	S Kwon	Iowa Bone	Tracking of accelerometry-measured physical activity	Mar-11	Sep-11	NA	Published
		Dev Study	during childhood: ICAD pooled analysis				IJBNPA 2012
6	G Cardon	Belgium Pre-	Are patterns of sedentary behaviours and physical	Mar-11	Sep-11	Sep-12	Discontinued
		school Study	activity associated with weight status in preschool				
			aged children?				
7	K Wijndaele	PEACH	Breaks in sedentary time and cardiovascular risk in	May-11	Apr-13*	Jul-17#	Published
			children and youth.				IJBNPA 2019
8	A Timperio	CLAN/HEAPS	Independent associations between TV viewing and	Feb-12	Apr-13*	Apr-18#	Discontinued
			weight status and cardio-metabolic health among				
			children.				

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9	N Ridgers	CLAN/HEAPS	Physical activity levels according to different cut-point	Feb-12	Apr-13*	Apr-18 [#]	Discontinued
			thresholds and associations with health outcomes.				
10	J Salmon	CLAN/HEAPS	Is children's TV viewing and computer use more	Feb-12	Apr-13*	Apr-18#	Discontinued
			strongly associated with light-intensity than				
			moderate- to vigorous-intensity physical activity?				
			(Brief report)				
11	U Ekelund	SPEEDY	Does physical activity moderate or modify the	Feb-12	May-13	Aug-16#	Discontinued – re-applied for
			association between birth weight and cardio-				ICAD2 data (#35)
			metabolic health outcomes.				
12	R Pate / J	TAAG	Physical Activity and Pediatric Obesity: a Quantile	Feb-12	Apr-13*	Jan-15 [#]	Published
	Mitchell		Regression Analysis.				MSSE 2016
13	U Ekelund /	Open access	Associations between birth weight, waist	Mar-12	May-13	May-14	Published
	M Hildebrand		circumference and sedentary time – a mediation				AJCN 2015
			analysis.				
14	A Atkin	Open access	TV viewing and computer use in children and	Jan-13	May-13	May-14	Published
			adolescents: A descriptive epidemiology using the				AJPM 2014
			International Children's Accelerometry Database				
15	R Pate / J	Open access	Associations of Vigorous-intensity Physical Activity	Jun-13	Jul-13	May-15#	Published
	Moore		with Biomarkers in Youth				MSSE 2017
16	A Cooper / A	Open access	Seasonal variation in physical activity and day length	Jun-13	Jul-13	Jul-14	Published
	Goodman						IJBNPA 2014
17	K Corder	Open access	Characterising age-related differences in the ratios of	Oct-13	Oct-13	Apr-15#	Published
			vigorous physical activity and moderate physical				PMR 2016
			activity				

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18	B Hansen	Open access	Cross-sectional associations of reallocating time	Jan-14	Jan-14	May-17#	Published
			between sedentary and active behaviours on				Sports Med 2018
			cardiometabolic risk factors in young people: an				
			International Children's Accelerometry Database				
			(ICAD) analysis				
19	B Hansen	Open access	Does age affect the magnitude of associations	Jan-14	Jan-14	Mar-16#	Discontinued – re-applied for
			between sporadic and bouted time spent in				ICAD2 data (#37)
			moderate-to-vigorous intensity physical activity and				
			adiposity and markers of cardio-metabolic risk factors				
20	K Brazendale	Open access	in children and adolescents? Not all minutes are created equal: Rosetta Stone Part	Mar-14	Mar-14	Mar-15	Published
20	K Brazeridale	Open access	2	IVIAI-14	IVIAI-14	IVIAI-13	JSAMS 2015
21	F Harrison	Open access	Weather and physical activity; how and why do	Sep-14	Oct-14	Mar-16#	Published
			relationships vary between countries?				IJBNPA 2017
22	E Murtagh	Open Access	The relationship between inverse BMI, physical	Mar-15	Apr-15	Apr-16	Discontinued
			activity and cardiometabolic risk in children and				
22	5.4		young people				
23	E Murtagh	Open Access	The relationship between inverse BMI and physical	Mar-15	Apr-15	Apr-16	Discontinued
24	J Tarp / S	Open Access	activity in children and young people Physical activity patterns and metabolic health in	May-15	May-15	Jul-17#	Published
24	Brage	Open Access	youth	Ividy 15	Widy 15	Jul 17	IJO 2018
25	J Tarp	Open Access	Assessing mediation by adiposity in the association	Nov-15	Feb-16	Feb-17	Published
			between physical activity and cardiometabolic risk				IJO 2017
			factors in youth – A cross-sectional mediation				
			analysis				
26	N Kuzik	Open Access	The role of physical activity and sedentary behaviour	Feb-16	Mar-16	Mar-17	Published
			in metabolic health of children across different weight statuses				Obesity 2017
27	S Kriemler	KISS	ICAD preschool data for comparison to establish	Apr-16	May-16	May-17	Discontinued
_,		1,133	Swiss physical activity guidelines for preschool	7.101		, 1/	2.550mmaca
			children (from birth to the fifth year of life)				

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28	J Steene- Johannessen	Open Access	Variation in objectively measured physical activity and sedentary behaviors across European youth	Apr-16	Oct-16	Oct-18#	Published IJBNPA 2020
29	E van Ekris	Open Access	Tracking of total sedentary time and prolonged uninterrupted sedentary time during childhood and adolescence	Jul-16	Oct-16	Oct-18#	Published IJBNPA 2020
ICAD2 pro	posals (release f	rom Mar 2017) [*]					
30	S Kwon	IBDS	A closer look at the relationship among accelerometer-based physical activity metrics	Jan-17	Jun-18**	Jun-19	Published IJBNPA 2019
31	A Atkin	SPEEDY	Age related change in physical activity during childhood and adolescence	Jan-17	Apr-18**	May-23*	In submission
32	U Ekelund/ J Tarp	Open access	Independent prospective associations between sedentary time, light, moderate and vigorous intensity physical activity with cardio-metabolic risk factors and adiposity in young people	Jan-17	Apr-18**	Jun-25*	In progress (new release Sept 20)
33	J Tarp	EYHS Denmark	Prospective associations between PA and anthropometrical indices of adiposity – examining sources of heterogeneity in population and study characteristics	Jan-17	Sep-18	Sep-19	Discontinued (combined with #32)
34	E Aadland	CoSCIS	Uncovering relationships between physical activity and metabolic health in children and adolescents by means of multivariate pattern analyses	Jan-17	Apr-18**	Apr-19	Published Prev Med 2020
35	GP Bernhardsen	Open Access	Birth weight and cardio-metabolic risk factors in youth- does physical activity matter? (update of #11)	Jan-17	May-17	Oct-19*	Published IJO 2020
36	E van Sluijs	SPEEDY	Is ubiquitous car ownership driving physical inactivity in young people?	Jan-17	Apr-18**	Apr-19	Published JPAH 2024
37	BH Hansen	Open access	Does age affect the magnitude of associations between sporadic and bouted time spent in moderate-to-vigorous intensity physical activity and adiposity and markers of cardio-metabolic risk factors in children and adolescents? (update of #19)	Jan-17	Apr-18**	Apr-19	Discontinued

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38	P Collings	Open access	Sleep dimensions and cardiometabolic risk markers: analysis of mediation by physical activity and sedentary time in the International Children's Accelerometry Database	Jan-17	Apr-20	Apr-21	Published Ped Obes 2021
39	M Renninger/ U Ekelund	Open access	Is objectively measured sedentary time and physical activity associated with the metabolic syndrome in children and adolescents?	Apr-17	May-17	May-18	Published Ped Obes 2019
40	A Atkin	No data	Harmonising data on the correlates of physical activity and sedentary behaviour in young people: Methods and lessons learnt from the International Children's Accelerometry Database (ICAD)	Nov-16	NA	NA	Published IJBNPA 2017
41	H Hussein	Open access	Estimating the existence and direction of a causal relationship between activity levels and obesity in children	Jul-17	Aug-17	Aug-18	Discontinued
42	L Sherar	Open access	Reactivity to accelerometer measurement of children and adolescents: The International Children's Accelerometery Database	Oct-17	May-18**	Mar-25*	In progress
43	N Pearson	Open access	The relationship between physical activity, sedentary time, and weight in preschool aged children: Analysis from the International Children's Accelerometry Database	Oct-17	May-18**	Mar-25*	In progress
44	K Dias	Open access	Levels and determinants of sedentary, light and moderate to vigorous physical activity levels in preschool aged children	Nov-17	May-18**	May-19	Published IJERPH 2019
45	DR Pereira da Silva	Open access	To examine the joint associations of different intensities (light, moderate and vigorous) of physical activity and obesity status with metabolic risk in youth	Jan-18	May-18**	May-19	Published IJO 2020
46	PB Júdice	Open access	Can physical activity offset the harmful effects of specific sedentary patterns? A trans-national prospective study from childhood to adulthood (ICAD 2)	Jan-18	May-18**	May-19	Published J Pediatrics 2020

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47	C Gammon	Open Access	Interpretation of the youth physical activity guidelines: implications for compliance estimates and associations with health indicators	Jun-18	Jun-18	Jun-19	Published MSSE 2022
48	R Love	Open Access	Socio-economic patterning of physical activity intensities: are the current global recommendations of physical activity appropriate?	Aug-18	Sep-18	Sep-19	Available in PhD thesis: doi.org/10.17863/CAM.44801
49	M Chinapaw	Open access	Development and validation of an analysis method for sophisticated PA and SB sequence maps using accelerometer data pooled into an international database	Sep-18	In progress		Discontinued, now #68
50	M McNarry	Open access	Patterns of objectively measured sedentary time and physical activity during and after primary and secondary school	Jan-19	Feb-19	Sep-24*	In progress
51	M McNarry	Open access	Determining clustered cardiometabolic risk variables in youth using principal component analysis	Jan-19	Feb-19	Sep-24*	In progress
52	N Pearson	Open access	Investigating the home environmental and behavioural pathways between maternal education and changes in children's objective physical activity and sedentary time: a structural equation modelling analysis	May-19	Jul-20	Mar-25*	In progress
53	K Brazendale	Open access	Children's Physical Activity During Weekdays versus Weekend Days: Testing the Structured Days Hypothesis (SDH)	May-19	Jun-19	Jun-20	Published IJBNPA 2020
54	P Collings	Open access	Screen type and time associations with cardiometabolic risk markers in a large international sample of children	Sep-19	Apr-20	Apr-21	Discontinued
55	L Sherar	Open access	Investigating the physical activity, sleep, sedentary behaviour and dietary behavioural pathways between breakfast consumption and BMI: a structural equation modelling analysis	Sep-19	Jul-20	Jul-21	In submission

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		partner					
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56	E Ikeda	Open access	Assessing the contribution of active travel, organised physical activity and physical education to moderate-to-vigorous physical activity in children and adolescents: A cross-sectional and prospective analysis	Dec-19	Feb-21	Feb-22	Published IJBNPA 2022
57	M Standage	Open access	Cross-sectional and prospective associations between the daily composition of children's movement behaviours and markers of metabolic risk: A compositional isotemporal substitution analysis	Apr-20	Sep-20	Sep-24*	In progress
58	Y Al-Ajlouni	Open access	Prospective associations between active school travel and objectively-measured physical activity patters in children and adolescents	Apr-20	Apr-20	Apr-22*	In progress
59	A Werneck	Open access	Association of active commuting to school with changes in different physical activity intensities and sedentary time: The ICAD Multi-country Study	Apr-20	Apr-20	Apr-21	Published Prev Med 2021
60	H Arnott	Open access	Using Compositional Data Analysis to Investigate Children's Patterns of Movement Behaviour and Association with Cardio-metabolic Outcomes in the International Children's Acclerometry Dataset (ICAD)	Aug-20	Feb-21	Feb-22	Discontinued
61	M Stavnsbo	Open access	Latent Profile Analysis of Physical Activity and Cardiometabolic Risk Markers in a Large International Sample of Children	Apr-21	May-21	Oct-25*	In progress
62	J Westra	Open access	Age- and behaviour-specific correlations between sedentary behaviour and physical activity	May-21	Jun-21	May-23*	In progress
63	E Murtagh	Open access	24-hour movement behaviours and associations with metabolic health, parental and family support in children.	Mar-22	Jun-22	Jun-24*	In progress
64	L Kretschmer	Open access	Investigating factors related to the variation of objectively measured physical activity in a large international sample of children.	Mar-22	May-22	May-23	Published IJBNPA 2023
65	R Salway	Open access	School-level correlations for children's physical activity to inform the design of stepped wedge and cluster randomized controlled trials	Aug-23	Aug-23	Aug-24	Published BMC Med Res Method 2024

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66	A Runacres	Open access	The influence of physical activity intensity on cardiometabolic health in children and adolescents: A five-part compositional analysis approach	Nov-23	Nov-23	Nov-24	In submission
67	J Han	Open access	Analyzing the impact of physical activity on cardiometabolic health among children	Dec-23	Jan-24	Jan-25	In progress
68	M Sone	Open access	An intersectional approach towards accelerometer- based physical activity and sedentary behaviour patterns in children	Jan-24	Sep-24	Sep-25	In progress

^{*:} Due to reprocessing of accelerometry data, all data releases were renewed in April 2013.

^{**:} Due to updating of the ICAD2, all ICAD2 data releases were re-released Apr/May 2018.

^{#:} Extension approved