

International Children's Accelerometry Database (ICAD 2.0) – Available Data

The tables below indicate the data available in ICAD 2.0 for each of the contributing studies. Separate tables are provided for each of the following groups of variables:

- Study-level information and demographics
- Anthropometric and metabolic
- Home and family
- Physical activity – behaviour and correlates
- Sedentary behaviour – behaviour and correlates
- School and diet
- Harmonised variables (non-accelerometer)
- Accelerometry

The following symbols are used:

- ✓ Single wave of data available
- ✓✓ Two or more waves of data available

The 'Harmonised variables' table details which studies provided appropriate data for inclusion in each of the harmonised variables derived to date.

Study name abbreviations:

ALS	- ALSPAC	POR	- EYHS Portugal
BAL	- Ballabeina	HEA	- HEAPS
BP1	- Belgian Preschool 1	IBD	- Iowa Bone Development Study
BP2	- Belgian Preschool 2	KIS	- KISS
BP3	- Belgian Preschool 3	MAG	- MAGIC
CUK	- CHAMPS UK	N03	- NHANES 2003-04
CUS	- CHAMPS US	N05	- NHANES 2005-06
CLA	- CLAN	PEA	- PEACH
COS	- CoSCIS	PEL	- Pelotas
DEN	- EYHS Denmark	SPE	- SPEEDY
EST	- EYHS Estonia	TAG	- TAAG
NOR	- EYHS Norway		

Study-level information and demographics

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
Study identifier	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Study country	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intervention group		✓							✓						✓								✓
Wave of data collection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sex	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Age	✓✓	✓✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	✓✓
Ethnicity	✓	✓				✓	✓	✓		✓✓	✓	✓	✓	✓	✓✓	✓		✓	✓	✓	✓	✓	✓✓

Anthropometric and metabolic

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
Height	✓✓	✓✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓	✓	✓✓	✓	✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	✓✓
Weight	✓✓	✓✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓	✓	✓✓	✓	✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	✓✓
Waist circumference	✓✓	✓✓							✓✓	✓✓	✓	✓	✓✓		✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	
Thigh circumference																		✓	✓		✓✓		
Hip circumference	✓	✓✓							✓✓	✓✓	✓	✓	✓✓								✓✓		
Arm circumference	✓✓														✓✓		✓	✓	✓		✓✓		
Triceps skinfold		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓✓		✓✓
Biceps skinfold		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓							
Subscapular skinfold		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓✓		
Suprailiac skinfold		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓							
Sexual maturity	✓✓							✓	✓✓	✓✓	✓	✓	✓✓		✓✓	✓✓		✓	✓	✓✓	✓✓	✓	
Fasting blood									✓														
Diastolic BP	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓	✓	✓	✓		✓✓	✓	
Systolic BP	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓	✓	✓	✓		✓✓	✓	
HDL	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓		
LDL	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓		
Triglycerides	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓		
Glucose	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓		
Insulin	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓				
Birthweight	✓	✓					✓			✓✓	✓	✓	✓		✓✓	✓					✓	✓	

Home and family

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
Postcode			✓			✓	✓	✓✓						✓✓	✓✓	✓				✓✓		✓✓	
Home location	✓✓		✓		✓					✓✓	✓	✓	✓									✓	
State / county	✓✓	✓✓						✓✓							✓✓								
House tenure	✓✓																	✓			✓✓	✓✓	
Car ownership	✓✓							✓✓						✓✓						✓✓	✓✓	✓✓	
Income	✓✓	✓✓								✓✓	✓	✓	✓		✓✓			✓	✓	✓✓	✓✓	✓	
Mother height	✓✓	✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓				✓✓	✓	✓✓	
Mother weight	✓✓	✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓				✓✓	✓	✓✓	
Father height	✓✓	✓	✓					✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓						✓✓	
Father weight	✓✓	✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓						✓✓	
Mother education	✓✓	✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓				✓✓	✓✓	✓	✓✓
Father education	✓✓	✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓						✓	✓✓
Mother employment	✓✓	✓✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓						✓✓			✓✓
Father employment	✓✓	✓✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓						✓✓			✓✓
Siblings	✓✓	✓✓	✓		✓		✓	✓✓		✓✓				✓✓		✓				✓✓	✓	✓✓	
Parents*	✓✓		✓					✓✓		✓✓	✓	✓	✓	✓✓		✓						✓✓	✓✓
Garden	✓		✓		✓			✓✓						✓✓						✓		✓✓	

*number of parents living at home with child / parent or guardian marital status

Physical activity – behaviour and correlates

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
Organised PA	✓✓	✓✓	✓		✓			✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓✓		✓	✓		✓	✓✓	✓✓
School-travel	✓✓	✓✓	✓		✓			✓✓		✓✓	✓	✓	✓	✓		✓✓				✓✓	✓	✓✓	✓✓
Self-efficacy								✓✓		✓✓	✓	✓	✓	✓	✓✓							✓✓	✓✓
Parent support for PA		✓✓	✓		✓		✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓✓						✓✓	✓✓
Peer support for PA								✓		✓✓	✓	✓	✓	✓	✓✓							✓✓	✓✓
Mother PA	✓	✓✓	✓		✓		✓	✓✓		✓✓	✓	✓	✓		✓	✓✓				✓	✓	✓✓	
Father PA	✓	✓✓						✓✓		✓✓	✓	✓	✓		✓	✓✓						✓✓	

Sedentary behaviour – behaviour and correlates

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
TV viewing	✓✓	✓✓	✓		✓		✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓✓		✓	✓	✓✓	✓✓	✓✓	
Computer use	✓✓	✓✓						✓✓		✓✓	✓	✓	✓		✓✓	✓✓		✓	✓	✓✓	✓✓	✓✓	
Parent support for SB								✓✓						✓✓						✓✓		✓✓	
Peer support for SB	✓													✓									
Mother TV viewing	✓							✓✓							✓✓							✓✓	
Father TV viewing	✓							✓✓							✓✓							✓✓	
Mother computer use								✓✓														✓✓	
Father computer use								✓✓														✓✓	
TVs in home	✓							✓✓		✓✓	✓	✓	✓	✓✓								✓	✓✓
TV in the bedroom	✓							✓✓		✓✓	✓	✓	✓	✓✓						✓✓	✓	✓✓	
Computer in the bedroom	✓													✓						✓✓		✓✓	
Internet access	✓							✓✓						✓✓							✓✓		
Sleep	✓✓	✓✓	✓		✓			✓✓		✓✓	✓	✓	✓	✓✓		✓✓				✓✓	✓	✓	

School and diet

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
School identifier	✓	✓✓	✓		✓	✓	✓	✓✓	✓✓	✓✓	✓	✓	✓	✓		✓	✓			✓✓		✓✓	✓✓
Physical education	✓							✓✓						✓								✓✓	
School start time	✓																					✓✓	
School end time	✓																					✓✓	
Fruit intake	✓✓	✓✓								✓✓	✓	✓	✓	✓✓		✓✓		✓	✓	✓✓		✓✓	
Vegetable intake	✓✓	✓✓								✓✓	✓	✓	✓	✓✓		✓✓		✓	✓	✓✓		✓✓	
Sweetened beverage intake	✓✓	✓✓								✓✓	✓	✓	✓	✓✓		✓✓		✓	✓			✓✓	
Breakfast consumption		✓✓								✓✓	✓	✓	✓	✓✓		✓✓				✓✓		✓	

Harmonised variables

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
ICAD_Height	✓✓	✓✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓	✓	✓✓	✓	✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	✓✓
ICAD_Weight	✓✓	✓✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓	✓	✓✓	✓	✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	✓✓
ICAD_Birthweight	✓						✓			✓	✓	✓	✓		✓	✓					✓	✓	
ICAD_Waist	✓✓	✓✓							✓✓	✓✓	✓	✓	✓✓		✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	
ICAD_Arm_c	✓✓														✓✓		✓	✓	✓		✓✓		
ICAD_Thigh_c																		✓	✓		✓✓		
ICAD_Subscapular_s		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓✓		
ICAD_Triceps_s		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓		✓✓		✓✓
ICAD_Biceps_s		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓							
ICAD_Suprailiac_s		✓✓							✓✓	✓✓	✓	✓	✓✓			✓✓							
ICAD_Systolic	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓	✓	✓	✓		✓✓	✓	
ICAD_Diastolic	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓	✓	✓	✓		✓✓	✓	
ICAD_Fasted_blood_samplng									✓✓	✓✓	✓	✓	✓										
ICAD_Insulin	✓✓								✓✓	✓✓	✓		✓✓			✓✓		✓	✓				
ICAD_Glucose	✓✓								✓✓	✓✓	✓		✓✓			✓✓		✓	✓				
ICAD_Hdl_chol	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓				
ICAD_Ldl_chol	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓				
ICAD_Triglycerides	✓✓								✓✓	✓✓	✓	✓	✓✓			✓✓		✓	✓				

Detailed information on each of the harmonised variables can be found on the ICAD website

Harmonised variables continued...

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
ICAD_Ethnicity1	✓					✓	✓			✓✓	✓	✓	✓		✓✓			✓	✓	✓	✓	✓	✓✓
ICAD_Ethnicity2	✓					✓				✓✓		✓	✓		✓✓					✓			
ICAD_Ethnicity3	✓					✓	✓			✓✓		✓	✓		✓✓			✓	✓	✓			✓✓
ICAD_Ethnicity4															✓✓			✓	✓				✓✓
ICAD_MotherEducation1	✓	✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓		✓	✓	✓✓		✓	✓✓
ICAD_MotherEducation2	✓	✓	✓				✓	✓✓		✓✓	✓			✓✓	✓✓	✓		✓	✓	✓✓		✓	✓✓
ICAD_FatherEducation1	✓	✓	✓				✓	✓✓		✓✓	✓	✓	✓	✓✓	✓✓	✓		✓	✓	✓✓		✓	✓✓
ICAD_FatherEducation2	✓	✓	✓				✓	✓✓		✓✓	✓			✓✓	✓✓	✓		✓	✓	✓✓		✓	✓✓
ICAD_SchoolTravel1	✓✓	✓✓						✓✓		✓✓	✓	✓	✓			✓✓				✓✓	✓	✓✓	
ICAD_SchoolTravel2	✓✓	✓✓	✓		✓			✓✓		✓✓	✓	✓	✓	✓		✓✓				✓✓	✓	✓✓	
ICAD_SchoolTravel3								✓✓		✓✓	✓	✓	✓			✓✓					✓	✓✓	
ICAD_Car1								✓✓						✓✓						✓✓	✓✓	✓✓	
ICAD_Car2								✓✓						✓✓						✓✓	✓✓		
ICAD_Car3								✓✓						✓✓						✓✓	✓✓	✓✓	
ICAD_SchoolID	✓	✓✓	✓		✓	✓	✓	✓✓	✓✓	✓✓	✓	✓	✓	✓		✓	✓			✓✓		✓✓	✓✓

Accelerometer data

CONSTRUCT	STUDY																						
	ALS	BAL	BP1	BP2	BP3	CUK	CUS	CLA	COS	DEN	EST	NOR	POR	HEA	IBD	KIS	MAG	N03	N05	PEA	PEL	SPE	TAG
Accelerometer data	✓✓	✓✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓	✓	✓	✓✓	✓	✓✓	✓✓