

IDATA - ActiGraph 10 Second File: Data Dictionary

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Document Summary

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04/27/2016

Dataset: actigraph_10sec

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Section 1: Identifiers

Variable	Label	Description	Format Text
Admin	Administration Flag	Participants were asked to do two administrations with the goal to have seven full, consecutive days of activity information collected at two points at least six months apart during the year-long study.	1="Admin 1" 2="Admin 2"
build	Build Date		SAS Date
lid	IDATA ID		char
Measurement_date	Date Of Measurement	Date of ActiGraph device measurement.	sasdate
Measurement_time	Time Of Measurement	Time of ActiGraph device measurement in seconds, this is the start of each ten second block.	numeric
Status	Status For Each Day	Status of the day's data, based on timing of day in reference to protocol. The first seven days of data are kept. If the day is outside the protocol window, but has a physical activity wear log, then the status is two. Status of three represents days without corresponding wear logs, after the first seven days of wear data but before the last day with a PAL.	1="Instrument data from first 7 days" 2="Instrument data after first 7 days, but with wear log present" 3="Instrument data after first 7 days, no wear log present"

Section 2: ActiGraph Results

Variable	Label	Description	Format Text
Acm_non_wear	Calculated Wear Flag	Indicates that the device was not worn, based on ActiGraph data. Set to not worn if the current ten second block falls within a 60 minute window where no Axis 1 acceleration was detected.	0="Worn" 1="Not Worn"
Axis1	Instrument Data: Per-epoch Vertical Activity	Sum of axis 1 data over 10 second epoch	numeric
Axis2	Instrument Data: Per-epoch Horizontal Activity	Sum of axis 2 data over 10 second epoch	numeric
Axis3	Instrument Data: Per-epoch Perpendicular Activity	Sum of axis 3 data over 10 second epoch	numeric
EE	Calculated Energy Expenditure Value, From Crouter Regression	Energy expenditure value, in METS, generated using the Crouter regression model.	numeric
Inclinometer_lying_seconds	Instrument Data: Per-epoch Number Seconds Device Orientation was 'lying'	The number of seconds in the 10 second epoch that the inclinometer had an orientation value = 'lying'	numeric
Inclinometer_notworn_seconds	Instrument Data: Per-epoch Number Seconds Device Orientation was 'not worn'	The number of seconds in the 10 second epoch that the inclinometer had an orientation value = 'not worn'	numeric
Inclinometer_sitting_seconds	Instrument Data: Per-epoch Number Seconds Device Orientation was 'sitting'	The number of seconds in the 10 second epoch that the inclinometer had an orientation value = 'sitting'	numeric
Inclinometer_standing_seconds	Instrument Data: Per-epoch Number Seconds Device Orientation was 'standing'	The number of seconds in the 10 second epoch that the inclinometer had an orientation value = 'standing'	numeric
Seconds_with_data	Number of seconds with data in Ten Second interval, indicates full or partial epoch	The number of seconds in the 10 second epoch for which there is data; a value less than 10 indicates a partial epoch.	numeric
Steps	Instrument Data: Per-epoch Total Steps	Sum of steps taken over 10 second epoch	numeric
Type	Energy Expenditure Estimate Type	Provides the type of energy expenditure calculated. Walking/running is continuous EE, Lying/Sitting is for intermittent EE.	0="Non-wear 1 MET" 1="1 Met, worn but no activity" 2="Intermittent activity (lying/sitting)" 3="Continuous activity (walking/running)"

Variable	Label	Description	Format Text
Type2	Energy Expenditure Estimate Type, Includes Energy Expenditure Level	Provides the type of energy expenditure calculated plus levels of EE. Walking/running is continuous EE, Lying/Sitting is for intermittent EE.	0="Non-wear 1 MET" 1="1 Met, worn but no activity" 2="Low (<3 METS) Intermittent activity (lying/sitting)" 3="Medium (3-6 METS) Intermittent activity (lying/sitting)" 4="High (6+ METS) Intermittent activity (lying/sitting)" 5="Low (<3 METS) Continuous activity (walking/running)" 6="Medium (3-6 METS) Continuous activity (walking/running)" 7="High (6+ METS) Continuous activity (walking/running)"
Vector_Magnitude_sum	Calculated Sum Of One Second Vector Magnitude Data Over Ten Second Interval	Calculated as the sum of the one second vector magnitude data over the ten second epoch. This variable is not calculated directly from the summed axis variable.	numeric

Section 3: Physical Activity Wear Log Data

Variable	Label	Description	Format Text
day_impaired	Flag Indicating That Some Data From This Day Have Issues	Indicator that some data from this day has issues. At least one ten second block of data during this day was from a period of time where the participant indicated the device was impaired. Reasons for impairment include they forgot to wear the device, the device fell off, was worn incorrectly, became wet, was lost, or irritated the skin.	.N="N/A" 0="No" 1="Yes"

Variable	Label	Description	Format Text
pal_coded_activity1-4	Coded Reason That Device Was Not Worn, From Physical Activity Log	Coded reason for device being taken off, from physical activity wear log.	.N="N/A" 1="Aerobic dance or water aerobics - Water aerobics" 2="Attending service" 3="Backpacking hiking; camping" 4="Ball games - Basketball, competitive game" 5="Bicycling or exercise bike" 6="Boating; power boat" 7="Bowling ten pin; duckpin bowling" 8="Canoeing or rowing a boat paddling" 9="Cardio machines - Elliptical machine" 10="Clean floors (vacuum; mop; sweep)" 11="Cleaning (not floors)" 12="Cultural or sporting events" 13="Dancing, pace unspecified" 14="Dressing or undressing" 15="Driving or riding in car or truck" 16="Eating a meal or snack" 17="Eating out" 18="Exercise, unspecified" 19="Food preparation and serving" 20="Gardening, task unspecified" 21="Going to movies" 22="Going to the bathroom" 23="Golf - Playing, not using cart" 24="Golf, cart use unspecified" 25="Grooming activities" 26="Household repairs" 27="Kayaking" 28="Making the bed" 29="Medical or dental appointments" 30="Mowing the lawn, unspecified if using riding or push mower" 31="Other shopping (not for food)" 32="Painting (not arts and crafts)" 33="Personal services" 34="Pet care (feed; let outside; groom)" 35="Pick up lawn (debris; toys; tools)" 36="Public transportation (bus; train)" [continued...]

Variable	Label	Description	Format Text
[...continued] pal_coded_activity1-4			[...continued] 37="Racquet sports - Singles tennis" 38="Rehab Exercises" 39="Running or jogging" 40="Sex" 41="Showering or bathing" 42="Sitting quietly" 43="Sitting: attend meeting" 44="Sitting: other work" 45="Sleeping; or in bed" 46="Snow and ice removal - Used shovel" 47="Socializing with others" 48="Standing: some walking in work area" 49="Swimming - Swimming a distance in a pool" 50="Swimming - Swimming a distance in open water" 51="Swimming - Swimming for recreation" 52="Taking a Nap" 53="Talking with others (in-person)" 54="Treadmill, unspecified if walking or jogging" 55="Using a hot tub" 56="Volleyball; competitive games or on sand/beach beach volleyball" 57="Volunteer work" 58="Waiting (in line or for others)" 59="Walking for exercise" 60="Walking for pleasure; or strolling strolling" 61="Walking the dog" 62="Wash car or boat" 63="Watching TV; movies; DVDs" 64="Water skiing (only active periods)" 65="Whitewater rafting" 66="Yoga" 67="No Useful Information" 68="Work, unspecified"
Pal_coded_reason	Coded Reason That Device Was Not Worn, From Physical Activity Log	Coded reason for device not being worn, based on the how the physical activity wear log was filled out.	.N="N/A" 0="Device worn" 1="Monitor data impaired" 2="Has reason text" 3="Asleep" 4="Time between first on/off and Out/in bed" 5="No time in/out of bed" 6="No On time" 7="Invalid PAL data"
pal_count_activity	Number Of Coded Reason That Device Was Not Worn, From Physical Activity Log	Count variable indicating the number of reasons for removing the device, coded from the physical activity wear log.	.N="N/A" 0="No reason coded" 1="1 reason coded" 2="2 reasons coded" 3="3 reasons coded"

Variable	Label	Description	Format Text
pal_fell_off	Flag Indicating Device Fell Off, From Physical Activity Log	Indicator variable that this ten second block is from a time interval where the device had fallen off, as indicated in the physical activity wear log.	.N="N/A" 0="No" 1="Yes"
pal_forgot	Flag Indicating Participant Forgot to Wear Device, From Physical Activity Log	Indicator variable that this ten second block is from a time interval where the participant had forgotten to put on the device, as indicated in the physical activity wear log.	.N="N/A" 0="No" 1="Yes"
pal_has_coded_reason	Flag Indicating Coded Reason That Device Was Not Worn, From Physical Activity Log	Indicator variable that this ten second block has a reason why the device was not worn from the physical activity wear log.	.N="N/A" 0="No" 1="Yes"
pal_improp_placement	Flag Indicating Device Was Placed Improperly, From Physical Activity Log	Indicator variable that this ten second block is from a time interval where the device was placed improperly on the participant, as indicated in the physical activity wear log.	.N="N/A" 0="No" 1="Yes"
pal_in_water	Flag Indicating Device Was Put In Water, From Physical Activity Log	Indicator variable that this ten second block is from a time interval where the device became wet, as indicated in the physical activity wear log.	.N="N/A" 0="No" 1="Yes"
pal_lost_device	Flag Indicating Device Was Lost, From Physical Activity Log	Indicator variable that this ten second block is from a time interval where the device was lost, as indicated in the physical activity wear log.	.N="N/A" 0="No" 1="Yes"
pal_met1-4	Coded MET Value of Activity	Coded MET value of activity.	numeric .N="N/A"
pal_monitor_data_impaired	Flag Indicating Monitor Data Is Impaired, From Physical Activity Log	Flag variable indicating that device data for this ten second block may be impaired, based on the reasons provided in the physical activity wear log.	.N="N/A" 0="No" 1="Yes"
Pal_non_wear	Wear Flag Based On Physical Activity Log	Indicator that the device was not worn. Based on the physical activity (PAL) wear log. If no PAL, invalid PAL data, or no on time from PAL then flag is set to missing.	.N="No PAL" 0="Worn" 1="Not Worn" 8="No On Time" 9="Invalid PAL"
pal_skin_irritation	Flag Indicating Device Irritated Skin, From Physical Activity Log	Indicator variable that this ten second block is from a time interval where the device was not worn due to skin irritation, as indicated in the physical activity wear log.	.N="N/A" 0="No" 1="Yes"