**ICAD online data dictionary – guidance for use (Mar 2017).**

You should use this online data dictionary to select which variables you need for your analysis. Please read below for guidance on how to use the data dictionary:

**General notes**

1. The data dictionary works best in Chrome or Firefox.
2. The data dictionary allows you to view individual variables as well as grouped variables. The default mode is to view the group variables, which we recommend to use. Should you wish to view all individual variables, you can change the ‘variable display’ to ‘by variable’ (please note that there may be a delay in displaying this due to large number of variables available.
3. Please use the ‘search’ option to search specific variable groupings (e.g. ‘ethnicity’ etc.).
4. To view which variables are included in a group, please click ‘show’ on the right hand side.
5. We are currently unable to display descriptions of the grouping variables online, please find a description in Table from page 3 onwards.
6. We recommend that all applicants select the ‘StD\_vitals’ and ‘Vitals’ groupings, which provide demographic, study and background variables for the non-accelerometer and accelerometer data, respectively.
7. Once you select a group, all variables in the group will automatically be included in your basket (at the bottom of the page).
8. Once you have selected all the variables you require, please click on ‘Download as CSV’ at the bottom, which will generate an Excel file of variable names. Please submit this together with your proposal.
9. Please contact [data-sharing@mrc-epid.cam.ac.uk](mailto:data-sharing@mrc-epid.cam.ac.uk) with any queries regarding the use of the ICAD online data dictionary.

**Non-accelerometer data**

1. All available non-accelerometer variables include a prefix to indicate which category of variables they below to:

|  |  |
| --- | --- |
| **Prefix** | **Group** |
| StD | Study-level information and demographics |
| AM | Anthropometric and metabolic |
| HF | Home and family |
| PA | Physical activity – behaviour and correlates |
| SB | Sedentary behaviour – behaviour and correlates |
| SCHD | School and diet |

1. Please note that only the harmonised non-accelerometer variables are available for direct release. If you are interested in using some of the other available, but not yet harmonised, data (see for more information: <http://www.mrc-epid.cam.ac.uk/research/studies/icad/data-harmonisation/>), please clearly note this in your analysis proposal.
2. For detailed notes on the harmonisation process, please visit: <http://www.mrc-epid.cam.ac.uk/research/studies/icad/data-harmonisation/>

**Accelerometer data**

1. Please review the data reduction settings document on the ICAD website to inform yourself of the data available.
2. The variable groupings are structured as follows:

|  |  |
| --- | --- |
| **Grouping construct** | **Description** |
| Wear\_Counts\_Totals | Total counts during valid wear time (per minute, per day, per weekend/week day) |
| Weartime\_Minutes\_Totals | Total minutes of valid wear time per day and per valid weekend/week day |
| Wear\_Counts\_Daily | Total counts per day (Mon-Sun) |
| Wear\_Minutes\_Daily | Total minutes of wear per day (Mon-Sun) |
| Wear\_Counts\_Hourly | Total counts for each hour of each day (0-23) |
| Wear\_Minutes\_Hourly | Total minutes of wear for each hour of each day (0-23) |
| Accumulated\_Intensity\_\*\_Totals | Total number of minutes averaged per day, per weekend/week day using \* as cut point, using valid data only |
| Accumulated\_Intensity\_\*\_Daily | Total number of minutes per day (Mon- Sun) using \* as cut point |
| Accumulated\_Intensity\_\*\_Hourly | Total number of minutes for each hour of each day (0-23) using \* as cut point |
| Bouted\_Intensity\_\*\_Totals | Total number of minutes averaged per day, per weekend day or per week day, performed in bouts using \* cpm as cut point, using valid data only |
| Bouted\_Intensity\_\*\_Daily | Total number of minutes per day (Mon- Sun) performed in bouts using \* as cut point |

\*An additional indicator provides a definition of the cut-point applied.

**Table:** Description of VarGroupings

|  |  |
| --- | --- |
| **VarGrouping** | **Description** |
| StD\_vitals | Non-accelerometer vitals (study-related and basic demographic variables) |
| HF\_Mother\_ed | Maternal education |
| HF\_Father\_ed | Paternal education |
| AM\_Height | Participant height |
| AM\_Weight | Participant weight |
| PA\_School\_travel | Travel to/from school |
| HF\_Car | Household car ownership |
| Vitals | Accelerometer vitals |
| Wear\_Counts\_Totals | Total counts during wear time (counts per valid day, per valid minute, per valid weekend day, per valid weekend minute, per valid week day and per valid week day minute). |
| Weartime\_Minutes\_Totals | Total minutes of wear time averaged per valid day, per valid weekend day or per valid week day |
| Wear\_Counts\_Daily | Total counts (during wear time) per day (Mon-Sun) |
| Wear\_Minutes\_Daily | Total minutes of wear per day (Mon-Sun) |
| Wear\_Counts\_Hourly | Total counts (during wear time) for each hour of each day (0-23) |
| Wear\_Minutes\_Hourly | Total minutes of wear for each hour of each day (0-23) |
| Accumulated\_Intensity\_Sedentary(0\_50)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Sedentary using <50 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Sedentary(0\_100)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Sedentary using <100 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Sedentary(0\_150)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Sedentary using <150 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Light (50\_2000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light using 50 - <2000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Light (100\_2000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light using 100 - <2000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Light (150\_2000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light using 150 - <2000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Light (50\_3000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light using 50 - <3000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Light (100\_3000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light using 100 - <3000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Light (150\_3000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light using 150 - <3000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Moderate (2000\_6000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Moderate using 2000 - <6000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Moderate (3000\_6000)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Moderate using 3000 - <6000 cpm as cut point, using valid data only |
| Accumulated\_Intensity\_Vigorous (6000\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Vigorous using 6000 cpm and up as cut point, using valid data only |
| Accumulated\_Intensity\_MVPA (2000\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Moderate-to-Vigorous using 2000 cpm and up as cut point, using valid data only |
| Accumulated\_Intensity\_MVPA (3000\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Moderate-to-Vigorous using 3000 cpm and up as cut point, using valid data only |
| Accumulated\_Intensity\_LVPA (50\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light-to-Vigorous using 50 cpm and up as cut point, using valid data only |
| Accumulated\_Intensity\_LVPA (100\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light-to-Vigorous using 100 cpm and up as cut point, using valid data only |
| Accumulated\_Intensity\_LVPA (150\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled as Light-to-Vigorous using 150 cpm and up as cut point, using valid data only |
| Accumulated\_Intensity\_Evenson\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled using the Evenson cut points, using valid data only |
| Accumulated\_Intensity\_Pate\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled using the Pate cut points, using valid data only |
| Accumulated\_Intensity\_Blocks\_Totals | Total number of minutes averaged per day, per weekend day and per week day labelled using the block-approach (0-50, 50-100, 100-150, etc) as cut points, using valid data only |
| Accumulated\_Intensity\_Sedentary(0\_50)\_Daily | Total number of minutes per day (Mon- Sun) labelled as Sedentary using <50 cpm as cut point |
| Accumulated\_Intensity\_Sedentary(0\_100)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Sedentary using <100 cpm as cut point |
| Accumulated\_Intensity\_Sedentary(0\_150)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Sedentary using <150 cpm as cut point |
| Accumulated\_Intensity\_Light (50\_2000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light using 50 - <2000 cpm as cut point |
| Accumulated\_Intensity\_Light (100\_2000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light using 100 - <2000 cpm as cut point |
| Accumulated\_Intensity\_Light (150\_2000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light using 150 - <2000 cpm as cut point |
| Accumulated\_Intensity\_Light (50\_3000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light using 50 - <3000 cpm as cut point |
| Accumulated\_Intensity\_Light (100\_3000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light using 100 - <3000 cpm as cut point |
| Accumulated\_Intensity\_Light (150\_3000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light using 150 - <3000 cpm as cut point |
| Accumulated\_Intensity\_Moderate (2000\_6000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Moderate using 2000 - <6000 cpm as cut point |
| Accumulated\_Intensity\_Moderate (3000\_6000)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Moderate using 3000 - <6000 cpm as cut point |
| Accumulated\_Intensity\_Vigorous (6000\_up)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Vigorous using 6000 cpm and up as cut point |
| Accumulated\_Intensity\_LVPA (50\_up)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light-to-Vigorous using 50 cpm and up as cut point |
| Accumulated\_Intensity\_LVPA (100\_up)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light-to-Vigorous using 100 cpm and up as cut point |
| Accumulated\_Intensity\_LVPA (150\_up)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Light-to-Vigorous using 150 cpm and up as cut point |
| Accumulated\_Intensity\_MVPA (2000\_up)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Moderate-to-Vigorous using 2000 cpm and up as cut point |
| Accumulated\_Intensity\_MVPA (3000\_up)\_Daily | Total number of minutes per day (Mon-Sun) labelled as Moderate-to-Vigorous using 3000 cpm and up as cut point |
| Accumulated\_Intensity\_Evenson\_Daily | Total number of minutes per day (Mon-Sun) labelled using the Evenson cut points |
| Accumulated\_Intensity\_Pate\_Daily | Total number of minutes per day (Mon-Sun) labelled using the Pate cut points |
| Accumulated\_Intensity\_Blocks\_Daily | Total number of minutes per day (Mon-Sun) labelled using the block-approach (0-50, 50-100, 100-150, etc) as cut points |
| Accumulated\_Intensity\_Sedentary(0\_50)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Sedentary using <50 cpm as cut point |
| Accumulated\_Intensity\_Sedentary(0\_100)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Sedentary using <100 cpm as cut point |
| Accumulated\_Intensity\_Sedentary(0\_150)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Sedentary using <150 cpm as cut point |
| Accumulated\_Intensity\_Light (50\_2000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light using 50 - <2000 cpm as cut point |
| Accumulated\_Intensity\_Light (100\_2000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light using 100 - <2000 cpm as cut point |
| Accumulated\_Intensity\_Light (150\_2000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light using 150 - <2000 cpm as cut point |
| Accumulated\_Intensity\_Light (50\_3000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light using 50 - <3000 cpm as cut point |
| Accumulated\_Intensity\_Light (100\_3000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light using 100 - <3000 cpm as cut point |
| Accumulated\_Intensity\_Light (150\_3000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light using 150 - <3000 cpm as cut point |
| Accumulated\_Intensity\_Moderate (2000\_6000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Moderate using 2000 - <6000 cpm as cut point |
| Accumulated\_Intensity\_Moderate (3000\_6000)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Moderate using 3000 - <6000 cpm as cut point |
| Accumulated\_Intensity\_Vigorous (6000\_up)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Vigorous using 6000 cpm and up as cut point |
| Accumulated\_Intensity\_LVPA (50\_up)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light-to-Vigorous using 50 cpm and up as cut point |
| Accumulated\_Intensity\_LVPA (100\_up)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light-to-Vigorous using 100 cpm and up as cut point |
| Accumulated\_Intensity\_LVPA (150\_up)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Light-to-Vigorous using 150 cpm and up as cut point |
| Accumulated\_Intensity\_MVPA (2000\_up)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Moderate-to-Vigorous using 2000 cpm and up as cut point |
| Accumulated\_Intensity\_MVPA (3000\_up)\_Hourly | Total number of minutes for each hour of each day (0-23) labelled as Moderate-to-Vigorous using 3000 cpm and up as cut point |
| Accumulated\_Intensity\_Evenson\_Hourly | Total number of minutes for each hour of each day (0-23) labelled using the Evenson cut points |
| Accumulated\_Intensity\_Pate\_Hourly | Total number of minutes for each hour of each day (0-23) labelled using the Pate cut points |
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| Bouted\_Intensity\_Sedentary(0\_150)\_Totals | Total number of minutes averaged per day, per weekend day and per week day, performed in bouts and labelled as Sedentary using <150 cpm as cut point, using valid data only |
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| Bouted\_Intensity\_LVPA (50\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day, performed in bouts and labelled as Light-to-Vigorous using 50 cpm and up as cut point, using valid data only |
| Bouted\_Intensity\_LVPA (100\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day, performed in bouts and labelled as Light-to-Vigorous using 100 cpm and up as cut point, using valid data only |
| Bouted\_Intensity\_LVPA (150\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day, performed in bouts and labelled as Light-to-Vigorous using 150 cpm and up as cut point, using valid data only |
| Bouted\_Intensity\_MVPA (2000\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day, performed in bouts and labelled as Moderate-to-Vigorous using 2000 cpm and up as cut point, using valid data only |
| Bouted\_Intensity\_MVPA (3000\_up)\_Totals | Total number of minutes averaged per day, per weekend day and per week day, performed in bouts and labelled as Moderate-to-Vigorous using 3000 cpm and up as cut point, using valid data only |
| Bouted\_Intensity\_Evenson\_Totals | Total number of minutes averaged per day, per weekend day and per week day, performed in bouts and labelled using the Evenson cut points, using valid data only |
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| Bouted\_Intensity\_Sedentary(0\_100)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Sedentary using <100 cpm as cut point |
| Bouted\_Intensity\_Sedentary(0\_150)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Sedentary using <150 cpm as cut point |
| Bouted\_Intensity\_Light (50\_2000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light using 50 - <2000 cpm as cut point |
| Bouted\_Intensity\_Light (100\_2000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light using 100 - <2000 cpm as cut point |
| Bouted\_Intensity\_Light (150\_2000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light using 150 - <2000 cpm as cut point |
| Bouted\_Intensity\_Light (50\_3000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light using 50 - <3000 cpm as cut point |
| Bouted\_Intensity\_Light (100\_3000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light using 100 - <3000 cpm as cut point |
| Bouted\_Intensity\_Light (150\_3000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light using 150 - <3000 cpm as cut point |
| Bouted\_Intensity\_Moderate (2000\_6000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Moderate using 2000 - <6000 cpm as cut point |
| Bouted\_Intensity\_Moderate (3000\_6000)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Moderate using 3000 - <6000 cpm as cut point |
| Bouted\_Intensity\_Vigorous (6000\_up)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Vigorous using 6000 cpm and up as cut point |
| Bouted\_Intensity\_LVPA (50\_up)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light-to-Vigorous using 50 cpm and up as cut point |
| Bouted\_Intensity\_LVPA (100\_up)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light-to-Vigorous using 100 cpm and up as cut point |
| Bouted\_Intensity\_LVPA (150\_up)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Light-to-Vigorous using 150 cpm and up as cut point |
| Bouted\_Intensity\_MVPA (2000\_up)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Moderate-to-Vigorous using 2000 cpm and up as cut point |
| Bouted\_Intensity\_MVPA (3000\_up)\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled as Moderate-to-Vigorous using 3000 cpm and up as cut point |
| Bouted\_Intensity\_Evenson\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled using the Evenson cut points |
| Bouted\_Intensity\_Pate\_Daily | Total number of minutes per day (Mon-Sun) in bouts and labelled using the Pate cut points |
| AM\_Birthweight | Particpants weight at birth in grams. |
| AM\_Glucose | Participants fasting glucose in mmol/l. |
| AM\_Insulin | Participants insulin in pmol/l |
| AM\_HDL | Participants HDL cholesterol in mmol/l. |
| AM\_LDL | Participants LDL cholesterol in mmol/l. |
| AM\_Trig | Participants fasting triglycerides in mmol/l. |
| AM\_Biceps | Participants biceps skinfold thickness in millimetres. |
| AM\_Triceps | Participants triceps skinfold thickness in millimetres. |
| AM\_Subscap | Participants subscapular skinfold thickness in millimetres |
| AM\_Suprailiac | Participants suprailiac skinfold thickness in millimetres. |
| AM\_Systolic | Participants resting systolic blood pressure in mmHg/min. |
| AM\_Diastolic | Participants resting diastolic blood pressure in mmHg/min. |
| AM\_Waist | Participants waist circumference in cm. |
| AM\_Arm | Participants arm circumference in cm. |
| AM\_Thigh | Participants thigh circumference in cm. |
| AM\_Fasting\_blood | Were blood samples taking when fasting? |