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1 *****
2 *   UTILITY TO ANALYSE RPAQ DATA, ENTERED AND CLEANED ACCORDING TO MRC EPI UNIT GUIDELINES *
3 *   NOTE: This script uses median values within dataset for missing imputation! *
4 * *
5 *   Authors: Robert Scott, Marcel den Hoed, Kate Westgate, Soren Brage (MRC Epidemiology Unit, Cambridge, UK) *
6 *   Version: NDNS Processing V1.0 (Y2-11) *
7 *   Date 19/11/2021 *
8 *****
9
10 /*
11 Version history:
12 v1.3 - Incorporated version and template differences for Fenland R6 - June 2013
13 v1.4 - Specifically for Fenland R6.1 (merge in R6 dataset to use for median imputation when missing values) - July 2013
14 v1.5 - Generic version for web (removed Fenland specific information) - Oct 2013
15 v2.0 - Updated to include Cambridge Index & process version 10 (web and paper) as well as continue to process versions 8 & 9 - Jul 2018
16       Home and Lesiure variables redefined: Household, mowing the lawn, watering the lawn, heavy gardening, weeding and pruning and DIY
17       have been moved from Leisure to Home classification. Leisure also includes ActiveComputerGames
18       and Skiing (added to Version 10).
19       MAJOR UPDATE: Computer use at home has been updated from 1.5 MET to 1 MET due to the inclusion of active computer games.
20
21 Version 3.0: Adapted by LG & KW Jan2021
22 Occupational activity quantified according to the approach outlined by Golubic et al (PLoS One 2014). Average intensity for each
23 work category derived from 12,435 UK adults with RPAQ concurrently with objective assessment of PAEE, estimated from individually
24 calibrated combined heart rate and movement sensing (Lindsay et al, IJBNPA 2019).
25
26 NDNS Processing V1.0 (Y2-11):
27 Updated to process Y2-11 NDNS RPAQ data. For these questionnaires the following recreation activities were split into the
28 into indoor/outdoor activities. To process the data has been kept seperate, but all processed with the same MET score. The follow is a
29 list of those that were split and the matching variables:
30 swimLeis: swimLeisIn & swimLeisOut
31 bowling: bowlingIn & bowlingOut
32 tennisBadminton: tennisIn, tennisOut, badminton
33 footballRugbyHockey: footRugHockIn & footRugHockOut
34 netVolleyBasketBall: netVolBasketIn & netVolBasketOut
35
36 The NDNS code is set up to take in the variables _EpiA from the NDNS Archive. These need altering to be able to run through the
37 main processing code using up to line 126 in the code below.
38 EpiA relates to the variables being updated by MRC Epidemiology unit from the original RPAQ variables. This was needed as some
39 earlier processing has been completed and it did not want to be confused. The A relates to the versions of processing code being
40 used (Y2-11: Version 1.0 & Y12, DNAC a above using Version 2.0).
41
42 */
43
44 clear
45 set more off
46 set mem 600m
47 capture log close
48
49 *****
50 *** GLOBAL VARIABLES ***
51 *****
52 global INPUT_FOLDER = "" //Folder where input file is saved
53 global OUTPUT_FOLDER = "" //Folder where output is directed to
54
55 global INPUT_FILE = "" //Name of CSV file of input (do not include .csv)
56 global OUTPUT_SUFFIX = "" //Suffix of the output file (do not include any extensions). Displayed after each year.
57
58 *****
59 *** PROCESSING ***
60 *****
61 insheet using "$INPUT_FOLDER/$INPUT_FILE.csv", comma case clear
62
63 //taking the variables from the NDNS archive and renaming to match that of the processing code
64 rename StudyYr_EpiA StudyYr
65 rename template_EpiA template
66 rename *_EpiA* *_CLEAN*
67
68 //If re-creating dataset - remove possible output variables tha have been provided

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69  foreach var in TOTMETHRS TOTMETHRS_w_UNACctime TOTtime TOTALtime ACTMETS ACTMETS_w_UNACctime ///
70  HOME_METS WORK_METS LEIS_METS COMMUTE_METS HOME_ACTMETS WORK_ACTMETS LEIS_ACTMETS COMMUTE_ACTMETS PAEE HOME_PAEE ///
71  WORK_PAEE LEIS_PAEE COMMUTE_PAEE SED_INTENSITY LIGHT_INTENSITY MODERATE_INTENSITY VIGOROUS_INTENSITY SEDtime ///
72  LIGHTtime MODERATEtime VIGOROUStime {
73      cap drop `var'*
74  }
75
76  //Replacing converted to frequencies per week back to entry coding for recreational activities
77  foreach activity in swimComp swimLeis swimLeisIn swimLeisOut backPackMountainClimb ///
78  walkPleasure cyclingRacingRough cyclePleasure mowing waterLawn heavyGardening ///
79  weedPrune dIY Household aerobicsHigh aerobicsOther exerciseWeights conditionExercise ///
80  floorExercise dancing compRun jog bowling bowlingIn bowlingOut tennisBadminton ///
81  tennisIn tennisOut badminton squash tableTennis golf footballRugbyHockey ///
82  footRugHockIn footRugHockOut cricket rowing netVolleyBasketBall ///
83  netVolBasketIn netVolBasketOut huntingShootingFish horseBased snookerBilliardsDarts ///
84  musicalInstrumentSing iceSkating Skiing sailingWindsurfBoat combatsSports ActiveComputerGames {
85      replace `activity'_CLEAN = `activity'_CLEAN_orig
86      drop `activity'_CLEAN_orig
87
88      //replacing hr + min with missing as when used it will be set to 0 but needed for marking in MISSING code
89      replace `activity'Hr_CLEAN = -1 if `activity'Hr_CLEAN == 0
90      replace `activity'Min_CLEAN = -1 if `activity'Min_CLEAN == 0
91  }
92  }
93
94  //This code is designed to run on Years 2-11 only. Dropping anything beyond that
95  drop if StudyYr == "Y12" | StudyYr == "DNAC"
96
97  //Replacing anything that is missing with -1 as this would be how the dataset would be entered
98  foreach var in Gettingabout_CLEAN Mediaweekdaypre6pm_CLEAN Mediaweekdaypost6pm_CLEAN Mediaweekendpre6pm_CLEAN ///
99  Mediaweekendpost6pm_CLEAN Computerweekdaypre6pm_CLEAN Computerweekdaypost6pm_CLEAN Computerweekendpre6pm_CLEAN ///
100 Computerweekendpost6pm_CLEAN Stairweekday_CLEAN Stairweekend_CLEAN Paidemployment_CLEAN Work4wkago_CLEAN ///
101 Work3wkago_CLEAN Work2wkago_CLEAN Work1wkago_CLEAN Worktype_CLEAN Wrkmiles_CLEAN Wrkkms_CLEAN Wrktimesperweek_CLEAN ///
102 Wrkbycar_CLEAN Wrkbypubtran_CLEAN Wrkbybicycle_CLEAN Wrkbyfoot_CLEAN swimComp_CLEAN swimCompHr_CLEAN ///
103 swimCompMin_CLEAN swimLeis_CLEAN swimLeisHr_CLEAN swimLeisMin_CLEAN swimLeisIn_CLEAN swimLeisInHr_CLEAN ///
104 swimLeisInMin_CLEAN swimLeisOut_CLEAN swimLeisOutHr_CLEAN swimLeisOutMin_CLEAN backPackMountainClimb_CLEAN ///
105 backPackMountainClimbHr_CLEAN backPackMountainClimbMin_CLEAN walkPleasure_CLEAN walkPleasureHr_CLEAN ///
106 walkPleasureMin_CLEAN cyclingRacingRough_CLEAN cyclingRacingRoughHr_CLEAN cyclingRacingRoughMin_CLEAN ///
107 cyclePleasure_CLEAN cyclePleasureHr_CLEAN cyclePleasureMin_CLEAN mowing_CLEAN mowingHr_CLEAN mowingMin_CLEAN ///
108 waterLawn_CLEAN waterLawnHr_CLEAN waterLawnMin_CLEAN heavyGardening_CLEAN heavyGardeningHr_CLEAN ///
109 heavyGardeningMin_CLEAN weedPrune_CLEAN weedPruneHr_CLEAN weedPruneMin_CLEAN dIY_CLEAN dIYHr_CLEAN dIYMin_CLEAN ///
110 Household_CLEAN HouseholdHr_CLEAN HouseholdMin_CLEAN aerobicsHigh_CLEAN aerobicsHighHr_CLEAN aerobicsHighMin_CLEAN ///
111 aerobicsOther_CLEAN aerobicsOtherHr_CLEAN aerobicsOtherMin_CLEAN exerciseWeights_CLEAN exerciseWeightsHr_CLEAN ///
112 exerciseWeightsMin_CLEAN conditionExercise_CLEAN conditionExerciseHr_CLEAN conditionExerciseMin_CLEAN ///
113 floorExercise_CLEAN floorExerciseHr_CLEAN floorExerciseMin_CLEAN dancing_CLEAN dancingHr_CLEAN dancingMin_CLEAN ///
114 compRun_CLEAN compRunHr_CLEAN compRunMin_CLEAN jog_CLEAN jogHr_CLEAN jogMin_CLEAN bowling_CLEAN bowlingHr_CLEAN ///
115 bowlingMin_CLEAN bowlingIn_CLEAN bowlingInHr_CLEAN bowlingInMin_CLEAN bowlingOut_CLEAN bowlingOutHr_CLEAN ///
116 bowlingOutMin_CLEAN tennisBadminton_CLEAN tennisBadmintonHr_CLEAN tennisBadmintonMin_CLEAN tennisIn_CLEAN ///
117 tennisInHr_CLEAN tennisInMin_CLEAN tennisOut_CLEAN tennisOutHr_CLEAN tennisOutMin_CLEAN badminton_CLEAN ///
118 badmintonHr_CLEAN badmintonMin_CLEAN squash_CLEAN squashHr_CLEAN squashMin_CLEAN tableTennis_CLEAN ///
119 tableTennisHr_CLEAN tableTennisMin_CLEAN golf_CLEAN golfHr_CLEAN golfMin_CLEAN footballRugbyHockey_CLEAN ///
120 footballRugbyHockeyHr_CLEAN footballRugbyHockeyMin_CLEAN footRugHockIn_CLEAN footRugHockInHr_CLEAN ///
121 footRugHockInMin_CLEAN footRugHockOut_CLEAN footRugHockOutHr_CLEAN footRugHockOutMin_CLEAN cricket_CLEAN ///
122 cricketHr_CLEAN cricketMin_CLEAN rowing_CLEAN rowingHr_CLEAN rowingMin_CLEAN netVolleyBasketBall_CLEAN ///
123 netVolleyBasketBallHr_CLEAN netVolleyBasketBallMin_CLEAN netVolBasketIn_CLEAN netVolBasketInHr_CLEAN ///
124 netVolBasketInMin_CLEAN netVolBasketOut_CLEAN netVolBasketOutHr_CLEAN netVolBasketOutMin_CLEAN ///
125 huntingShootingFish_CLEAN huntingShootingFishHr_CLEAN huntingShootingFishMin_CLEAN horseBased_CLEAN ///
126 horseBasedHr_CLEAN horseBasedMin_CLEAN snookerBilliardsDarts_CLEAN snookerBilliardsDartsHr_CLEAN ///
127 snookerBilliardsDartsMin_CLEAN musicalInstrumentSing_CLEAN musicalInstrumentSingHr_CLEAN ///
128 musicalInstrumentSingMin_CLEAN Skiing_CLEAN SkiingHr_CLEAN SkiingMin_CLEAN iceSkating_CLEAN iceSkatingHr_CLEAN ///
129 iceSkatingMin_CLEAN sailingWindsurfBoat_CLEAN sailingWindsurfBoatHr_CLEAN sailingWindsurfBoatMin_CLEAN ///
130 combatsSports_CLEAN combatsSportsHr_CLEAN combatsSportsMin_CLEAN ActiveComputerGames_CLEAN ///
131 ActiveComputerGamesHr_CLEAN ActiveComputerGamesMin_CLEAN {
132     replace `var' = -1 if `var' == .
133 }
134
135 //Processing split into the different years so any means used can be from that year:
136 levelsof StudyYr, local(YEARS)

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137
138 qui foreach YEAR in `YEARS' {
139     nois di "`YEAR'"
140
141     preserve
142
143     keep if StudyYr == "`YEAR'"
144     count
145
146     local N=r(N)
147     if `N' < 1000 {
148         * This dataset includes less than 1000 individuals.
149         * Please note that in many cases, missing values will be imputed using in-sample median values for those particular variables.
150         * If you are happy with this approach, just comment out the stop line below (add "*" at beginning of line) and rerun the script.
151         *stop
152     }
153
154     *****
155     /* Derivation of variables */
156     *****
157     * MISSINGA, data on TV-viewing, computer use and stairclimbing
158     gen MISSINGA = 2
159     * Default is no missingness: MISSINGA=2
160     replace MISSINGA = 1 if Gettingabout_CLEAN < 1 & Mediaweekdaypre6pm_CLEAN < 1 & Mediaweekdaypost6pm_CLEAN < 1 & ///
161     Mediaweekendpre6pm_CLEAN < 1 & Mediaweekendpost6pm_CLEAN < 1 & Computerweekdaypre6pm_CLEAN < 1 & ///
162     Computerweekdaypost6pm_CLEAN < 1 & Computerweekendpre6pm_CLEAN < 1 & Computerweekendpost6pm_CLEAN < 1 & ///
163     Stairweekday_CLEAN < 1 & Stairweekend_CLEAN < 1
164     * If all data is missing, then MISSINGA=1
165
166     /* MISSINGJOB AND EMPLOYED */
167     gen MISSINGJOB = 2
168     * Default is no missingness: MISSINGJOB=2 */
169     *MISSINGJOB == 1 also includes individuals who report being (un)employed and who record no work activities. i.e. they are still seen as missing.
170     replace MISSINGJOB = 1 if (Work4wkago_CLEAN < 0 & Work3wkago_CLEAN < 0 & ///
171     Work2wkago_CLEAN < 0 & Work1wkago_CLEAN < 0 & (Worktype_CLEAN < 1 | Worktype_CLEAN == .))
172     *rpaqversion 8 has no data on work hours or employment status, but does have worktype data
173     replace MISSINGJOB = 1 if QVersion_CLEAN == 8 & (Worktype_CLEAN < 1 | Worktype_CLEAN == .)
174     gen EMPLOYED = .
175     replace EMPLOYED = 2 if Paidemployment_CLEAN == 2
176     replace EMPLOYED = 1 if Paidemployment_CLEAN == 1 | MISSINGJOB == 2
177     * EMPLOYED = 1 if they are in employment
178     * NDNS Y2-8 data entry for Paidemployment was the same as electronic entry (1 = Yes & 2 = No)
179
180     /* MISSINGCOMMUT */
181     gen MISSINGCOMMUT = 2
182     replace MISSINGCOMMUT = 1 if Wrktimesperweek_CLEAN < 0 & Wrkbycar_CLEAN < 1 & Wrkbypubtran_CLEAN < 1 & ///
183     Wrkbybicycle_CLEAN < 1 & Wrkbyfoot_CLEAN < 1
184
185     /* MISSINGC */
186     /*Updated to include broken down indoor/outdoor activities from NDNS */
187     gen MISSINGC = 2
188     replace MISSINGC = 1 if ///
189     swimComp_CLEAN < 1 & swimCompHr_CLEAN < 0 & swimCompMin_CLEAN < 0 & ///
190     swimLeis_CLEAN < 1 & swimLeisHr_CLEAN < 0 & swimLeisMin_CLEAN < 0 & ///
191     swimLeisIn_CLEAN < 1 & swimLeisInHr_CLEAN < 0 & swimLeisInMin_CLEAN < 0 & ///
192     swimLeisOut_CLEAN < 1 & swimLeisOutHr_CLEAN < 0 & swimLeisOutMin_CLEAN < 0 & ///
193     backPackMountainClimb_CLEAN < 1 & backPackMountainClimbHr_CLEAN < 0 & backPackMountainClimbMin_CLEAN < 0 & ///
194     walkPleasure_CLEAN < 1 & walkPleasureHr_CLEAN < 0 & walkPleasureMin_CLEAN < 0 & ///
195     cyclingRacingRough_CLEAN < 1 & cyclingRacingRoughHr_CLEAN < 0 & cyclingRacingRoughMin_CLEAN < 0 & ///
196     cyclePleasure_CLEAN < 1 & cyclePleasureHr_CLEAN < 0 & cyclePleasureMin_CLEAN < 0 & ///
197     mowing_CLEAN < 1 & mowingHr_CLEAN < 0 & mowingMin_CLEAN < 0 & ///
198     waterLawn_CLEAN < 1 & waterLawnHr_CLEAN < 0 & waterLawnMin_CLEAN < 0 & ///
199     heavyGardening_CLEAN < 1 & heavyGardeningHr_CLEAN < 0 & heavyGardeningMin_CLEAN < 0 & ///
200     weedPrune_CLEAN < 1 & weedPruneHr_CLEAN < 0 & weedPruneMin_CLEAN < 0 & ///
201     dIY_CLEAN < 1 & dIYHr_CLEAN < 0 & dIYMin_CLEAN < 0 & ///
202     Household_CLEAN < 1 & HouseholdHr_CLEAN < 0 & HouseholdMin_CLEAN < 0 & ///
203     aerobicsHigh_CLEAN < 1 & aerobicsHighHr_CLEAN < 0 & aerobicsHighMin_CLEAN < 0 & ///
204     aerobicsOther_CLEAN < 1 & aerobicsOtherHr_CLEAN < 0 & aerobicsOtherMin_CLEAN < 0 & ///

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205 exerciseWeights_CLEAN < 1 & exerciseWeightsHr_CLEAN < 0 & exerciseWeightsMin_CLEAN < 0 & ///
206 conditionExercise_CLEAN < 1 & conditionExerciseHr_CLEAN < 0 & conditionExerciseMin_CLEAN < 0 & ///
207 floorExercise_CLEAN < 1 & floorExerciseHr_CLEAN < 0 & floorExerciseMin_CLEAN < 0 & ///
208 dancing_CLEAN < 1 & dancingHr_CLEAN < 0 & dancingMin_CLEAN < 0 & ///
209 compRun_CLEAN < 1 & compRunHr_CLEAN < 0 & compRunMin_CLEAN < 0 & ///
210 jog_CLEAN < 1 & jogHr_CLEAN < 0 & jogMin_CLEAN < 0 & ///
211 bowling_CLEAN < 1 & bowlingHr_CLEAN < 0 & bowlingMin_CLEAN < 0 & ///
212 bowlingIn_CLEAN < 1 & bowlingInHr_CLEAN < 0 & bowlingInMin_CLEAN < 0 & ///
213 bowlingOut_CLEAN < 1 & bowlingOutHr_CLEAN < 0 & bowlingOutMin_CLEAN < 0 & ///
214 tennisBadminton_CLEAN < 1 & tennisBadmintonHr_CLEAN < 0 & tennisBadmintonMin_CLEAN < 0 & ///
215 tennisIn_CLEAN < 1 & tennisInHr_CLEAN < 0 & tennisInMin_CLEAN < 0 & ///
216 tennisOut_CLEAN < 1 & tennisOutHr_CLEAN < 0 & tennisOutMin_CLEAN < 0 & ///
217 badminton_CLEAN < 1 & badmintonHr_CLEAN < 0 & badmintonMin_CLEAN < 0 & ///
218 squash_CLEAN < 1 & squashHr_CLEAN < 0 & squashMin_CLEAN < 0 & ///
219 tableTennis_CLEAN < 1 & tableTennisHr_CLEAN < 0 & tableTennisMin_CLEAN < 0 & ///
220 golf_CLEAN < 1 & golfHr_CLEAN < 0 & golfMin_CLEAN < 0 & ///
221 footballRugbyHockey_CLEAN < 1 & footballRugbyHockeyHr_CLEAN < 0 & footballRugbyHockeyMin_CLEAN < 0 & ///
222 footRugHockIn_CLEAN < 1 & footRugHockInHr_CLEAN < 0 & footRugHockInMin_CLEAN < 0 & ///
223 footRugHockOut_CLEAN < 1 & footRugHockOutHr_CLEAN < 0 & footRugHockOutMin_CLEAN < 0 & ///
224 cricket_CLEAN < 1 & cricketHr_CLEAN < 0 & cricketMin_CLEAN < 0 & ///
225 rowing_CLEAN < 1 & rowingHr_CLEAN < 0 & rowingMin_CLEAN < 0 & ///
226 netVolleyBasketBall_CLEAN < 1 & netVolleyBasketBallHr_CLEAN < 0 & netVolleyBasketBallMin_CLEAN < 0 & ///
227 netVolBasketIn_CLEAN < 1 & netVolBasketInHr_CLEAN < 0 & netVolBasketInMin_CLEAN & ///
228 netVolBasketOut_CLEAN < 1 & netVolBasketOutHr_CLEAN < 0 & netVolBasketOutMin_CLEAN & ///
229 huntingShootingFish_CLEAN < 1 & huntingShootingFishHr_CLEAN < 0 & huntingShootingFishMin_CLEAN < 0 & ///
230 horseBased_CLEAN < 1 & horseBasedHr_CLEAN < 0 & horseBasedMin_CLEAN < 0 & ///
231 snookerBilliardsDarts_CLEAN < 1 & snookerBilliardsDartsHr_CLEAN < 0 & snookerBilliardsDartsMin_CLEAN < 0 & ///
232 musicalInstrumentSing_CLEAN < 1 & musicalInstrumentSingHr_CLEAN < 0 & musicalInstrumentSingMin_CLEAN < 0 & ///
233 iceSkating_CLEAN < 1 & iceSkatingHr_CLEAN < 0 & iceSkatingMin_CLEAN < 0 & ///
234 Skiing_CLEAN < 1 & SkiingHr_CLEAN < 0 & SkiingMin_CLEAN < 0 & ///
235 sailingWindsurfBoat_CLEAN < 1 & sailingWindsurfBoatHr_CLEAN < 0 & sailingWindsurfBoatMin_CLEAN < 0 & ///
236 combatsSports_CLEAN < 1 & combatsSportsHr_CLEAN < 0 & combatsSportsMin_CLEAN < 0 & ///
237 ActiveComputerGames_CLEAN < 1 & ActiveComputerGamesHr_CLEAN < 0 & ActiveComputerGamesMin_CLEAN < 0
238
239 /* MISSING */
240 gen MISSING = 2
241 replace MISSING = 1 if MISSINGJOB == 1 & MISSINGCOMMUT == 1 & MISSINGGC == 1
242
243 /* CALCULATION OF DAILY DURATIONS */
244 gen GETABOUT = Gettingabout_CLEAN
245 replace GETABOUT = 0 if Gettingabout_CLEAN < 1 & MISSINGA == 2
246 replace GETABOUT = . if Gettingabout_CLEAN < 1 & MISSINGA == 1
247
248 /* TO ASSIGN THE MEDIAN FOR TV WHEN MISSING */
249 gen TVDUR1 = . if Mediaweekdaypre6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed' */
250 replace TVDUR1 = 0 if Mediaweekdaypre6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed' */
251 replace TVDUR1 = 0 if Mediaweekdaypre6pm_CLEAN == 1
252 replace TVDUR1 = 2.5 if Mediaweekdaypre6pm_CLEAN == 2
253 replace TVDUR1 = 7.5 if Mediaweekdaypre6pm_CLEAN == 3
254 replace TVDUR1 = 12.5 if Mediaweekdaypre6pm_CLEAN == 4
255 replace TVDUR1 = 17.5 if Mediaweekdaypre6pm_CLEAN == 5
256 replace TVDUR1 = 22.5 if Mediaweekdaypre6pm_CLEAN == 6
257 gen TVDUR2 = . if Mediaweekdaypost6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed' */
258 replace TVDUR2 = 7.5 if Mediaweekdaypost6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed' */
259 replace TVDUR2 = 0 if Mediaweekdaypost6pm_CLEAN == 1
260 replace TVDUR2 = 2.5 if Mediaweekdaypost6pm_CLEAN == 2
261 replace TVDUR2 = 7.5 if Mediaweekdaypost6pm_CLEAN == 3
262 replace TVDUR2 = 12.5 if Mediaweekdaypost6pm_CLEAN == 4
263 replace TVDUR2 = 17.5 if Mediaweekdaypost6pm_CLEAN == 5
264 replace TVDUR2 = 22.5 if Mediaweekdaypost6pm_CLEAN == 6
265 gen TVDUR3 = . if Mediaweekendpre6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed' */
266 replace TVDUR3 = 1 if Mediaweekendpre6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed' */
267 replace TVDUR3 = 0 if Mediaweekendpre6pm_CLEAN == 1
268 replace TVDUR3 = 1 if Mediaweekendpre6pm_CLEAN == 2
269 replace TVDUR3 = 3 if Mediaweekendpre6pm_CLEAN == 3
270 replace TVDUR3 = 5 if Mediaweekendpre6pm_CLEAN == 4
271 replace TVDUR3 = 7 if Mediaweekendpre6pm_CLEAN == 5
272 replace TVDUR3 = 9 if Mediaweekendpre6pm_CLEAN == 6
```

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273 gen TVDUR4 = . if Mediaweekendpost6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed'*/
274 replace TVDUR4 = 5 if Mediaweekendpost6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed'*/
275 replace TVDUR4 = 0 if Mediaweekendpost6pm_CLEAN == 1
276 replace TVDUR4 = 1 if Mediaweekendpost6pm_CLEAN == 2
277 replace TVDUR4 = 3 if Mediaweekendpost6pm_CLEAN == 3
278 replace TVDUR4 = 5 if Mediaweekendpost6pm_CLEAN == 4
279 replace TVDUR4 = 7 if Mediaweekendpost6pm_CLEAN == 5
280 replace TVDUR4 = 9 if Mediaweekendpost6pm_CLEAN == 6
281 gen DURTV = (TVDUR1+TVDUR2+TVDUR3+TVDUR4)/7
282
283 /* TO ASSIGN THE MEDIAN FOR COMPUTER WHEN MISSING */
284 gen COMPDUR1 = . if Computerweekdaypre6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed'*/
285 replace COMPDUR1 = 0 if Computerweekdaypre6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed'*/
286 replace COMPDUR1 = 0 if Computerweekdaypre6pm_CLEAN == 1
287 replace COMPDUR1 = 2.5 if Computerweekdaypre6pm_CLEAN == 2
288 replace COMPDUR1 = 7.5 if Computerweekdaypre6pm_CLEAN == 3
289 replace COMPDUR1 = 12.5 if Computerweekdaypre6pm_CLEAN == 4
290 replace COMPDUR1 = 17.5 if Computerweekdaypre6pm_CLEAN == 5
291 replace COMPDUR1 = 22.5 if Computerweekdaypre6pm_CLEAN == 6
292 gen COMPDUR2 = . if Computerweekdaypost6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed'*/
293 replace COMPDUR2 = 2.5 if Computerweekdaypost6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed'*/
294 replace COMPDUR2 = 0 if Computerweekdaypost6pm_CLEAN == 1
295 replace COMPDUR2 = 2.5 if Computerweekdaypost6pm_CLEAN == 2
296 replace COMPDUR2 = 7.5 if Computerweekdaypost6pm_CLEAN == 3
297 replace COMPDUR2 = 12.5 if Computerweekdaypost6pm_CLEAN == 4
298 replace COMPDUR2 = 17.5 if Computerweekdaypost6pm_CLEAN == 5
299 replace COMPDUR2 = 22.5 if Computerweekdaypost6pm_CLEAN == 6
300 gen COMPDUR3 = . if Computerweekendpre6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed'*/
301 replace COMPDUR3 = 1 if Computerweekendpre6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed'*/
302 replace COMPDUR3 = 0 if Computerweekendpre6pm_CLEAN == 1
303 replace COMPDUR3 = 1 if Computerweekendpre6pm_CLEAN == 2
304 replace COMPDUR3 = 3 if Computerweekendpre6pm_CLEAN == 3
305 replace COMPDUR3 = 5 if Computerweekendpre6pm_CLEAN == 4
306 replace COMPDUR3 = 7 if Computerweekendpre6pm_CLEAN == 5
307 replace COMPDUR3 = 9 if Computerweekendpre6pm_CLEAN == 6
308 gen COMPDUR4 = . if Computerweekendpost6pm_CLEAN < 1 & MISSINGA == 1 /* 'Not completed'*/
309 replace COMPDUR4 = 1 if Computerweekendpost6pm_CLEAN < 1 & MISSINGA == 2 /* 'Not completed'*/
310 replace COMPDUR4 = 0 if Computerweekendpost6pm_CLEAN == 1
311 replace COMPDUR4 = 1 if Computerweekendpost6pm_CLEAN == 2
312 replace COMPDUR4 = 3 if Computerweekendpost6pm_CLEAN == 3
313 replace COMPDUR4 = 5 if Computerweekendpost6pm_CLEAN == 4
314 replace COMPDUR4 = 7 if Computerweekendpost6pm_CLEAN == 5
315 replace COMPDUR4 = 9 if Computerweekendpost6pm_CLEAN == 6
316 gen DURCOMP = (COMPDUR1+COMPDUR2+COMPDUR3+COMPDUR4)/7
317
318 /* FLIGHTS OF STAIRS */
319 gen STAIRFLIGHT1 = . if Stairweekday_CLEAN < 1 & MISSINGA == 1 /* 'Not completed'*/
320 replace STAIRFLIGHT1 = 40 if Stairweekday_CLEAN < 1 & MISSINGA == 2 /* 'Not completed'*/
321 replace STAIRFLIGHT1 = 0 if Stairweekday_CLEAN == 1
322 replace STAIRFLIGHT1 = 15 if Stairweekday_CLEAN == 2
323 replace STAIRFLIGHT1 = 40 if Stairweekday_CLEAN == 3
324 replace STAIRFLIGHT1 = 65 if Stairweekday_CLEAN == 4
325 replace STAIRFLIGHT1 = 90 if Stairweekday_CLEAN == 5
326 replace STAIRFLIGHT1 = 115 if Stairweekday_CLEAN == 6
327 gen STAIRFLIGHT2 = . if Stairweekend_CLEAN < 1 & MISSINGA == 1 /* 'Not completed'*/
328 replace STAIRFLIGHT2 = 16 if Stairweekend_CLEAN == . & MISSINGA == 2 /* 'Not completed'*/
329 replace STAIRFLIGHT2 = 0 if Stairweekend_CLEAN == 1
330 replace STAIRFLIGHT2 = 6 if Stairweekend_CLEAN == 2
331 replace STAIRFLIGHT2 = 16 if Stairweekend_CLEAN == 3
332 replace STAIRFLIGHT2 = 26 if Stairweekend_CLEAN == 4
333 replace STAIRFLIGHT2 = 36 if Stairweekend_CLEAN == 5
334 replace STAIRFLIGHT2 = 46 if Stairweekend_CLEAN == 6
335 *assign 10 seconds per flights of stairs
336 gen DURSTAIRFLIGHT = ((STAIRFLIGHT1+STAIRFLIGHT2)/7)/360
337
338
339 /* JOB ACTIVITY */
340 foreach var in Work4wkago_CLEAN Work3wkago_CLEAN Work2wkago_CLEAN Work1wkago_CLEAN {

```

```

341     replace `var' = . if `var' < 0
342 }
343
344 forvalues i = 1/4 {
345     gen DURATIONJOB`i' = Work`i'wkago_CLEAN
346     replace DURATIONJOB`i' = . if Work`i'wkago_CLEAN < 0
347 }
348
349
350 egen DURATIONJOB = rowtotal(DURATIONJOB1 DURATIONJOB2 DURATIONJOB3 DURATIONJOB4)
351 replace DURATIONJOB = . if DURATIONJOB1 ==. & DURATIONJOB2 == . & DURATIONJOB3 == . & DURATIONJOB4 == .
352 su DURATIONJOB if MISSINGJOB == 2, detail
353 *version 8 had no work duration question. assigning median to those who answered the worktype question.
354 replace DURATIONJOB = r(p50) if QVersion_CLEAN == 8 & MISSINGJOB == 2
355 *if median not computable, assign 37hrs/wk where worktype is reported but no duration
356 replace DURATIONJOB = 4*37 if Worktype_CLEAN > 0 & Worktype_CLEAN < 5 & (DURATIONJOB < 0 | DURATIONJOB ==.)
357 *also assign median where worktype is reported but no duration
358 replace DURATIONJOB = r(p50) if Worktype_CLEAN > 0 & Worktype_CLEAN < 5 & (DURATIONJOB < 0 | DURATIONJOB ==.)
359
360 *generate average weekly hours over last 4 weeks
361 replace DURATIONJOB = DURATIONJOB/4
362 *generate average daily hours of work
363 gen DURJOB = DURATIONJOB/7 if DURATIONJOB > 0 & DURATIONJOB <= 84
364 replace DURJOB = 0 if DURATIONJOB == 0
365 *truncate to max 12hrs per day
366 replace DURJOB = 12 if DURATIONJOB > 84 & DURATIONJOB !=.
367
368
369 /* TRANSPORTATION ACTIVITY */
370 gen FREQCARINI = 0 if (Wrkbycar_CLEAN < 1 | Wrkbycar_CLEAN > 4) & MISSINGCOMM == 2 /* 'NOT COMPLETED'*/
371 replace FREQCARINI = 0 if Wrkbycar_CLEAN == 4 /* 'Never or rarely'*/
372 replace FREQCARINI = .25 if Wrkbycar_CLEAN == 3 /* 'Occasionally'*/
373 replace FREQCARINI = .75 if Wrkbycar_CLEAN == 2 /* 'Usually'*/
374 replace FREQCARINI = 1 if Wrkbycar_CLEAN == 1 /* 'Always'*/
375 gen FREQPUBLICINI = 0 if (Wrkbypubtran_CLEAN < 1 | Wrkbypubtran_CLEAN > 4) & MISSINGCOMM == 2 /* 'NOT COMPLETED'*/
376 replace FREQPUBLICINI = 0 if Wrkbypubtran_CLEAN == 4 /* 'Never or rarely'*/
377 replace FREQPUBLICINI = .25 if Wrkbypubtran_CLEAN == 3 /* 'Occasionally'*/
378 replace FREQPUBLICINI = .75 if Wrkbypubtran_CLEAN == 2 /* 'Usually'*/
379 replace FREQPUBLICINI = 1 if Wrkbypubtran_CLEAN == 1 /* 'Always'*/
380 gen FREQCYLEINI = 0 if (Wrkbybicycle_CLEAN < 1 | Wrkbybicycle_CLEAN > 4) & MISSINGCOMM == 2 /* 'NOT COMPLETED'*/
381 replace FREQCYLEINI = 0 if Wrkbybicycle_CLEAN == 4 /* 'Never or rarely'*/
382 replace FREQCYLEINI = .25 if Wrkbybicycle_CLEAN == 3 /* 'Occasionally'*/
383 replace FREQCYLEINI = .75 if Wrkbybicycle_CLEAN == 2 /* 'Usually'*/
384 replace FREQCYLEINI = 1 if Wrkbybicycle_CLEAN == 1 /* 'Always'*/
385 gen FREQWALKINI = 0 if (Wrkbyfoot_CLEAN < 1 | Wrkbyfoot_CLEAN > 4) & MISSINGCOMM == 2 /* 'NOT COMPLETED'*/
386 replace FREQWALKINI = 0 if Wrkbyfoot_CLEAN == 4 /* 'Never or rarely'*/
387 replace FREQWALKINI = .25 if Wrkbyfoot_CLEAN == 3 /* 'Occasionally'*/
388 replace FREQWALKINI = .75 if Wrkbyfoot_CLEAN == 2 /* 'Usually'*/
389 replace FREQWALKINI = 1 if Wrkbyfoot_CLEAN == 1 /* 'Always'*/
390 gen FREQTOTAL = FREQCARINI + FREQPUBLICINI + FREQCYLEINI + FREQWALKINI
391
392
393 gen DISTWORKMILES = .
394 replace DISTWORKMILES = 0 if Wrkmiles_CLEAN <= 0 & Wrkkms_CLEAN <= 0
395 replace DISTWORKMILES = (Wrkkms_CLEAN*0.62) if (Wrkkms_CLEAN > 0 & Wrkmiles_CLEAN <= 0)
396 replace DISTWORKMILES = (Wrkmiles_CLEAN) if (Wrkmiles_CLEAN > 0 & Wrkkms_CLEAN <= 0)
397 replace DISTWORKMILES = ((Wrkmiles_CLEAN + 0.62*Wrkkms_CLEAN)/2) if (Wrkkms_CLEAN > 0 & Wrkmiles_CLEAN > 0)
398
399 *Truncation of total distance ****set maximum miles to 100miles for anyone claiming more than that as a distance
400 replace DISTWORKMILES = 100 if (DISTWORKMILES > 100 & DISTWORKMILES != .)
401
402 gen CARMILES = 0
403 replace CARMILES = DISTWORKMILES * FREQCARINI if FREQCARINI >= 0.25
404 gen PUBLICMILES = 0
405 replace PUBLICMILES = DISTWORKMILES * FREQPUBLICINI if FREQPUBLICINI >= 0.25
406 gen CYCLEMILES = 0
407 replace CYCLEMILES = DISTWORKMILES * FREQCYLEINI if FREQCYLEINI >= 0.25
408 gen WALKMILES = 0

```

```

409  replace WALKMILES = DISTWORKMILES * FREQWALKINI if FREQWALKINI >= 0.25
410
411  gen TOTALTRAVMILES_DER = CARMILES + PUBLICMILES + CYCLEMILES + WALKMILES
412
413  gen DISTFACTOR = DISTWORKMILES/TOTALTRAVMILES_DER
414
415  *Assigning distance to multi-mode commuters.
416  * We have made many assumptions here. We have only made amendments when the total frequency of travel is > 1.25. Eg when someone reports always travelling by car
417  * and walking, we make the assumption that they drive most (90%) of the way. This may get further truncated in the next section.
418
419  replace CARMILES = (0.5*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI <0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
420  replace PUBLICMILES = (0.5*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI <0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
421
422  replace CARMILES = (0.95*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQPUBLICINI <0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
423  replace CYCLEMILES = (0.05*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQPUBLICINI <0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
424
425  replace CARMILES = (0.99*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCYLEINI <0.25 & FREQPUBLICINI < 0.25 & FREQTOTAL >= 1.25
426  replace WALKMILES = (0.01*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCYLEINI <0.25 & FREQPUBLICINI < 0.25 & FREQTOTAL >= 1.25
427
428  replace PUBLICMILES = (0.9*DISTWORKMILES) if FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQCARINI <0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
429  replace CYCLEMILES = (0.1*DISTWORKMILES) if FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQCARINI <0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
430
431  replace PUBLICMILES = (0.99*DISTWORKMILES) if FREQPUBLICINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCYLEINI <0.25 & FREQCARINI < 0.25 & FREQTOTAL >= 1.25
432  replace WALKMILES = (0.01*DISTWORKMILES) if FREQPUBLICINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCYLEINI <0.25 & FREQCARINI < 0.25 & FREQTOTAL >= 1.25
433
434  replace CYCLEMILES = (0.95*DISTWORKMILES) if FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCARINI <0.25 & FREQPUBLICINI < 0.25 & FREQTOTAL >= 1.25
435  replace WALKMILES = (0.05*DISTWORKMILES) if FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCARINI <0.25 & FREQPUBLICINI < 0.25 & FREQTOTAL >= 1.25
436
437  replace CARMILES = (0.475*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
438  replace PUBLICMILES = (0.475*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
439  replace CYCLEMILES = (0.05*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI < 0.25 & FREQTOTAL >= 1.25
440
441  replace CARMILES = (0.495*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCYLEINI <0.25 & FREQTOTAL >= 1.25
442  replace PUBLICMILES = (0.495*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCYLEINI <0.25 & FREQTOTAL >= 1.25
443  replace WALKMILES = (0.01*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCYLEINI <0.25 & FREQTOTAL >= 1.25
444
445  replace CARMILES = (0.9*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQPUBLICINI < 0.25 & FREQTOTAL >= 1.25
446  replace CYCLEMILES = (0.09*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQPUBLICINI < 0.25 & FREQTOTAL >= 1.25
447  replace WALKMILES = (0.01*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQPUBLICINI < 0.25 & FREQTOTAL >= 1.25
448
449  replace PUBLICMILES = (0.9*DISTWORKMILES) if FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCARINI <0.25 & FREQTOTAL >= 1.25
450  replace CYCLEMILES = (0.09*DISTWORKMILES) if FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCARINI <0.25 & FREQTOTAL >= 1.25
451  replace WALKMILES = (0.01*DISTWORKMILES) if FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQCARINI <0.25 & FREQTOTAL >= 1.25
452
453  replace CARMILES = (0.45*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQTOTAL >= 1.25
454  replace PUBLICMILES = (0.45*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQTOTAL >= 1.25
455  replace CYCLEMILES = (0.09*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQTOTAL >= 1.25
456  replace WALKMILES = (0.01*DISTWORKMILES) if FREQCARINI >= 0.25 & FREQPUBLICINI >= 0.25 & FREQCYLEINI >= 0.25 & FREQWALKINI >= 0.25 & FREQTOTAL >= 1.25
457
458  *Truncate Walking and Cycling
459  replace CYCLEMILES = 20 if CYCLEMILES > 20 & CYCLEMILES !=.
460  replace WALKMILES = 3 if WALKMILES > 3 & WALKMILES !=.
461
462
463  gen DURWALK = WALKMILES*2*(5/7)/3
464  gen DURCYCLE = CYCLEMILES*2*(5/7)/10
465  gen DURCAR = CARMILES*2*(5/7)/45
466  gen DURPUBLIC = PUBLICMILES*2*(5/7)/30
467
468  *assume 2 journeys over 5 days at 3mph (walk), cycle at 10mph, car at 45mph and public at 30mph - rescaled to daily basis in 7 day week
469
470  *****
471  /* RECREATIONAL ACTIVITY */
472  /* JP- Takes frequencies reported in categories to frequencies per week */
473  *****
474
475  foreach var in swimComp_CLEAN swimLeis_CLEAN swimLeisIn_CLEAN swimLeisOut_CLEAN backPackMountainClimb_CLEAN ///
476  walkPleasure_CLEAN cyclingRacingRough_CLEAN cyclePleasure_CLEAN mowing_CLEAN waterLawn_CLEAN heavyGardening_CLEAN ///

```

```

477 weedPrune_CLEAN dIY_CLEAN Household_CLEAN aerobicsHigh_CLEAN aerobicsOther_CLEAN exerciseWeights_CLEAN conditionExercise_CLEAN ///
478 floorExercise_CLEAN dancing_CLEAN compRun_CLEAN jog_CLEAN bowling_CLEAN bowlingIn_CLEAN bowlingOut_CLEAN tennisBadminton_CLEAN ///
479 tennisIn_CLEAN tennisOut_CLEAN badminton_CLEAN squash_CLEAN tableTennis_CLEAN golf_CLEAN footballRugbyHockey_CLEAN ///
480 footRugHockIn_CLEAN footRugHockOut_CLEAN cricket_CLEAN rowing_CLEAN netVolleyBasketBall_CLEAN ///
481 netVolBasketIn_CLEAN netVolBasketOut_CLEAN huntingShootingFish_CLEAN horseBased_CLEAN snookerBilliardsDarts_CLEAN ///
482 musicalInstrumentSing_CLEAN iceSkating_CLEAN Skiing_CLEAN sailingWindsurfBoat_CLEAN combatsSports_CLEAN ActiveComputerGames_CLEAN {
483
484     gen `var'_orig = `var' // this keeps a copy of the untranslated frequency variables so we can save them
485
486     replace `var' = 0     if `var' <= 1 & (QVersion_CLEAN == 8 | QVersion_CLEAN == 9 | QVersion_CLEAN == 10 | QVersion_CLEAN == 11) & template==1 & MISSINGC == 2
487     replace `var' = 1/4   if `var' == 2 & (QVersion_CLEAN == 8 | QVersion_CLEAN == 9 | QVersion_CLEAN == 10 | QVersion_CLEAN == 11) & template==1
488     replace `var' = 2.5/4 if `var' == 3 & (QVersion_CLEAN == 8 | QVersion_CLEAN == 9 | QVersion_CLEAN == 10 | QVersion_CLEAN == 11) & template==1
489     replace `var' = 1     if `var' == 4 & (QVersion_CLEAN == 8 | QVersion_CLEAN == 9 | QVersion_CLEAN == 10 | QVersion_CLEAN == 11) & template==1
490     replace `var' = 2.5   if `var' == 5 & (QVersion_CLEAN == 8 | QVersion_CLEAN == 9 | QVersion_CLEAN == 10 | QVersion_CLEAN == 11) & template==1
491     replace `var' = 4.5   if `var' == 6 & (QVersion_CLEAN == 8 | QVersion_CLEAN == 9 | QVersion_CLEAN == 10 | QVersion_CLEAN == 11) & template==1
492     replace `var' = 7     if `var' == 7 & (QVersion_CLEAN == 8 | QVersion_CLEAN == 9 | QVersion_CLEAN == 10 | QVersion_CLEAN == 11) & template==1
493
494     //this section handles for when the data entry has been done using the alternative data entry template(#2) where was coded 1-8 but missing 2:
495     replace `var' = 0     if `var' <= 2 & QVersion_CLEAN == 9 & template==2 & MISSINGC == 2
496     replace `var' = 1/4   if `var' == 3 & QVersion_CLEAN == 9 & template==2
497     replace `var' = 2.5/4 if `var' == 4 & QVersion_CLEAN == 9 & template==2
498     replace `var' = 1     if `var' == 5 & QVersion_CLEAN == 9 & template==2
499     replace `var' = 2.5   if `var' == 6 & QVersion_CLEAN == 9 & template==2
500     replace `var' = 4.5   if `var' == 7 & QVersion_CLEAN == 9 & template==2
501     replace `var' = 7     if `var' == 8 & QVersion_CLEAN == 9 & template==2
502
503 }
504
505 *****
506 /* JP- assigns maximum duration of activities to allow for over reporting of the duration of an episode */
507 *****
508
509 *truncated high durations
510 //Household & ActiveComputerGames need a category!
511 foreach x in swimComp swimLeis swimLeisIn swimLeisOut compRun jog bowling bowlingIn bowlingOut tennisBadminton tennisIn tennisOut ///
512 badminton tableTennis horseBased snookerBilliardsDarts musicalInstrumentSing iceSkating ActiveComputerGames {
513
514     replace `x'Hr_CLEAN = 4 if `x'Hr_CLEAN >4 & `x'Hr_CLEAN !=.
515     replace `x'Min_CLEAN = 0 if `x'Hr_CLEAN >=4 & `x'Hr_CLEAN !=.
516 }
517
518 foreach x in exerciseWeights squash {
519
520     replace `x'Hr_CLEAN = 2 if `x'Hr_CLEAN >2 & `x'Hr_CLEAN !=.
521     replace `x'Min_CLEAN = 0 if `x'Hr_CLEAN >=2 & `x'Hr_CLEAN !=.
522 }
523
524 foreach x in mowing waterLawn aerobicsHigh aerobicsOther conditionExercise floorExercise footballRugbyHockey footRugHockIn ///
525 footRugHockOut netVolleyBasketBall netVolBasketIn netVolBasketOut rowing combatsSports {
526
527     replace `x'Hr_CLEAN = 3 if `x'Hr_CLEAN >3 & `x'Hr_CLEAN !=.
528     replace `x'Min_CLEAN = 0 if `x'Hr_CLEAN >=3 & `x'Hr_CLEAN !=.
529 }
530
531 foreach x in backPackMountainClimb walkPleasure cyclingRacingRough cyclePleasure heavyGardening weedPrune dancing cricket {
532
533     replace `x'Hr_CLEAN = 8 if `x'Hr_CLEAN >8 & `x'Hr_CLEAN !=.
534     replace `x'Min_CLEAN = 0 if `x'Hr_CLEAN >=8 & `x'Hr_CLEAN !=.
535 }
536
537 foreach x in dIY golf huntingShootingFish Skiing sailingWindsurfBoat {
538
539     replace `x'Hr_CLEAN = 10 if `x'Hr_CLEAN >10 & `x'Hr_CLEAN !=.
540     replace `x'Min_CLEAN = 0 if `x'Hr_CLEAN >=10 & `x'Hr_CLEAN !=.
541 }
542
543 *where no frequency is reported (but duration is) assign median frequency from those participating in the activity
544 *major assumption

```

```

545   foreach x in swimComp swimLeis swimLeisIn swimLeisOut backPackMountainClimb walkPleasure cyclingRacingRough cyclePleasure mowing ///
546   waterLawn heavyGardening weedPrune dIY Household aerobicsHigh aerobicsOther exerciseWeights conditionExercise floorExercise ///
547   dancing compRun jog bowling bowlingIn bowlingOut tennisBadminton tennisIn tennisOut badminton squash tableTennis golf ///
548   footballRugbyHockey footRugHockIn footRugHockOut cricket rowing netVolleyBasketBall netVolBasketIn netVolBasketOut huntingShootingFish ///
549   horseBased snookerBilliardsDarts musicalInstrumentSing iceSkating Skiing sailingWindsurfBoat combatsSports ActiveComputerGames {
550
551       su `x'_CLEAN if `x'_CLEAN > 0 & `x'_CLEAN !=., detail
552       replace `x'_CLEAN = r(p50) if (`x'_CLEAN <=0 | `x'_CLEAN == .) & ((`x'Hr_CLEAN > 0 & `x'Hr_CLEAN < 20) | (`x'Min_CLEAN > 0 & `x'Min_CLEAN <= 60))
553       replace `x'_CLEAN = 0 if (`x'_CLEAN == . | `x'_CLEAN < 0 ) & MISSINGC == 2
554   }
555
556   *where no duration is reported (but frequency is) assign median duration from those participating in the activity
557   foreach x in swimComp swimLeis swimLeisIn swimLeisOut backPackMountainClimb walkPleasure cyclingRacingRough cyclePleasure mowing ///
558   waterLawn heavyGardening weedPrune dIY Household aerobicsHigh aerobicsOther exerciseWeights conditionExercise floorExercise ///
559   dancing compRun jog bowling bowlingIn bowlingOut tennisBadminton tennisIn tennisOut badminton squash tableTennis golf ///
560   footballRugbyHockey footRugHockIn footRugHockOut cricket rowing netVolleyBasketBall netVolBasketIn netVolBasketOut huntingShootingFish ///
561   horseBased snookerBilliardsDarts musicalInstrumentSing iceSkating Skiing sailingWindsurfBoat combatsSports ActiveComputerGames {
562
563       replace `x'Hr_CLEAN = 0 if `x'Hr_CLEAN < 0
564       replace `x'Min_CLEAN = 0 if `x'Min_CLEAN < 0
565       *generate total hrs of each activity
566       gen TOT_`x'Hr = .
567       replace TOT_`x'Hr = (`x'Hr_CLEAN + (`x'Min_CLEAN/60)) if ((`x'Hr_CLEAN > 0 & `x'Hr_CLEAN <20) | (`x'Min_CLEAN > 0 & `x'Min_CLEAN <=60))
568       su TOT_`x'Hr if TOT_`x'Hr > 0 & TOT_`x'Hr < 20, detail
569       replace TOT_`x'Hr = r(p50) if (TOT_`x'Hr == .) & (`x'_CLEAN > 0 & `x'_CLEAN < 8)
570       replace TOT_`x'Hr = 0 if (TOT_`x'Hr == . & MISSINGC == 2)
571   }
572
573   foreach x in swimComp swimLeis swimLeisIn swimLeisOut backPackMountainClimb walkPleasure cyclingRacingRough cyclePleasure mowing ///
574   waterLawn heavyGardening weedPrune dIY Household aerobicsHigh aerobicsOther exerciseWeights conditionExercise floorExercise ///
575   dancing compRun jog bowling bowlingIn bowlingOut tennisBadminton tennisIn tennisOut badminton squash tableTennis golf ///
576   footballRugbyHockey footRugHockIn footRugHockOut cricket rowing netVolleyBasketBall netVolBasketIn netVolBasketOut huntingShootingFish ///
577   horseBased snookerBilliardsDarts musicalInstrumentSing iceSkating Skiing sailingWindsurfBoat combatsSports ActiveComputerGames {
578
579       *generate total hrs of each activity per day
580       gen TOTDUR_`x' = (TOT_`x'Hr * `x'_CLEAN)/7
581   }
582
583   *****
584   /* calculates total reported leisure time activities per day */
585   *****
586   egen DURATIONLEIS = rowtotal (TOTDUR_swimComp TOTDUR_swimLeis TOTDUR_swimLeisIn TOTDUR_swimLeisOut TOTDUR_backPackMountainClimb ///
587   TOTDUR_walkPleasure TOTDUR_cyclingRacingRough TOTDUR_cyclePleasure TOTDUR_mowing TOTDUR_waterLawn ///
588   TOTDUR_heavyGardening TOTDUR_weedPrune TOTDUR_dIY TOTDUR_Household TOTDUR_aerobicsHigh TOTDUR_aerobicsOther ///
589   TOTDUR_exerciseWeights TOTDUR_conditionExercise TOTDUR_floorExercise TOTDUR_dancing TOTDUR_compRun TOTDUR_jog ///
590   TOTDUR_bowling TOTDUR_bowlingIn TOTDUR_bowlingOut TOTDUR_tennisBadminton TOTDUR_tennisIn TOTDUR_tennisOut ///
591   TOTDUR_badminton TOTDUR_squash TOTDUR_tableTennis TOTDUR_golf TOTDUR_footballRugbyHockey TOTDUR_footRugHockIn ///
592   TOTDUR_footRugHockOut TOTDUR_cricket TOTDUR_rowing TOTDUR_netVolleyBasketBall TOTDUR_netVolBasketIn ///
593   TOTDUR_netVolBasketOut TOTDUR_huntingShootingFish TOTDUR_horseBased TOTDUR_snookerBilliardsDarts ///
594   TOTDUR_musicalInstrumentSing TOTDUR_iceSkating TOTDUR_Skiing TOTDUR_sailingWindsurfBoat TOTDUR_combatsSports ///
595   TOTDUR_ActiveComputerGames) if MISSINGC == 2
596
597   *****
598   /* re-weights total reported activities per day if total is greater than 18hrs per day */
599   *****
600   gen TVadj = DURTV
601   gen COMPadj = DURCOMP
602   gen JOBadj = DURJOB
603   gen CARadj = DURCAR
604   gen PUBLICadj = DURPUBLIC
605   gen CYCLEadj = DURCYCLE
606   gen WALKadj = DURWALK
607   gen LEISadj = DURATIONLEIS
608   gen STAIRadj = DURSTAIRFLIGHT
609   egen DURATIONINI = rowtotal(TVadj COMPadj JOBadj CARadj STAIRadj PUBLICadj CYCLEadj WALKadj LEISadj) if (MISSINGA == 2 | MISSINGCOMMUT == 2 | MISSINGJOB == 2 | MISSINGC == 2)
610
611   replace TVadj = DURTV*18/DURATIONINI if DURATIONINI > 18
612   replace COMPadj = DURCOMP*18/DURATIONINI if DURATIONINI > 18

```

```

613 replace STAIRadj = DURSTAIRFLIGHT*18/DURATIONINI if DURATIONINI > 18
614 replace JOBadj= DURJOB*18/DURATIONINI if DURATIONINI > 18
615 replace CARadj = DURCAR*18/DURATIONINI if DURATIONINI > 18
616 replace PUBLICadj = DURPUBLIC*18/DURATIONINI if DURATIONINI > 18
617 replace CYCLEadj = DURCYCLE*18/DURATIONINI if DURATIONINI > 18
618 replace WALKadj = DURWALK*18/DURATIONINI if DURATIONINI > 18
619
620 foreach x in TOTDUR_swimComp TOTDUR_swimLeis TOTDUR_swimLeisIn TOTDUR_swimLeisOut TOTDUR_backPackMountainClimb ///
621 TOTDUR_walkPleasure TOTDUR_cyclingRacingRough TOTDUR_cyclePleasure TOTDUR_mowing TOTDUR_waterLawn ///
622 TOTDUR_heavyGardening TOTDUR_weedPrune TOTDUR_dIY TOTDUR_Household TOTDUR_aerobicsHigh TOTDUR_aerobicsOther ///
623 TOTDUR_exerciseWeights TOTDUR_conditionExercise TOTDUR_floorExercise TOTDUR_dancing TOTDUR_compRun TOTDUR_jog ///
624 TOTDUR_bowling TOTDUR_bowlingIn TOTDUR_bowlingOut TOTDUR_tennisBadminton TOTDUR_tennisIn TOTDUR_tennisOut ///
625 TOTDUR_badminton TOTDUR_squash TOTDUR_tableTennis TOTDUR_golf TOTDUR_footballRugbyHockey TOTDUR_footRugHockIn ///
626 TOTDUR_footRugHockOut TOTDUR_cricket TOTDUR_rowing TOTDUR_netVolleyBasketBall TOTDUR_netVolBasketIn ///
627 TOTDUR_netVolBasketOut TOTDUR_huntingShootingFish TOTDUR_horseBased TOTDUR_snookerBilliardsDarts ///
628 TOTDUR_musicalInstrumentSing TOTDUR_iceSkating TOTDUR_Skiing TOTDUR_sailingWindsurfBoat TOTDUR_combatsSports ///
629 TOTDUR_ActiveComputerGames {
630     gen `x'a = `x' /*variables postfixed with "a" stands for adjusted variable*/
631     replace `x'a = `x'*18/DURATIONINI if DURATIONINI > 18
632 }
633
634 *****
635 /* Calculating sleep time based on max reported hours of activities */
636 /* AH= Remaining time - Time not accounted for by RPAQ */
637 *****
638
639 gen UNACCOUNTED = .
640
641 gen SLEEP = .
642 replace SLEEP = 6 if DURATIONINI > 18
643 replace SLEEP = 24-DURATIONINI if DURATIONINI <= 18 & DURATIONINI > 16
644 replace SLEEP = 8 if DURATIONINI <= 16
645
646
647 replace UNACCOUNTED = 24 -(DURATIONINI+8) if DURATIONINI <= 16
648 replace UNACCOUNTED = 24-DURATIONINI - SLEEP if DURATIONINI <= 18 & DURATIONINI > 16
649 replace UNACCOUNTED = 0 if DURATIONINI > 18
650
651
652 *generate adjusted durations for each domain considering maximum value of 18 for total activities
653
654 *HOME
655 egen HOMETime = rowtotal(TVadj COMPadj STAIRadj TOTDUR_Householda TOTDUR_mowinga TOTDUR_waterLawna TOTDUR_heavyGardeninga ///
656 TOTDUR_weedPrunea TOTDUR_dIYa) if MISSINGA == 2
657
658 *WORK
659 gen WORKtime = JOBadj if MISSINGJOB == 2
660
661 *COMMUTING
662 egen COMMUTetime = rowtotal(CARadj PUBLICadj CYCLEadj WALKadj) if MISSINGCOMMUT == 2
663
664 *LEISURE
665 egen LEIStime = rowtotal(TOTDUR_swimCompa TOTDUR_swimLeisa TOTDUR_swimLeisIna TOTDUR_swimLeisOuta TOTDUR_backPackMountainClimba ///
666 TOTDUR_walkPleasurea TOTDUR_cyclingRacingRougha TOTDUR_cyclePleasurea TOTDUR_aerobicsHigha TOTDUR_aerobicsOthera ///
667 TOTDUR_exerciseWeightsa TOTDUR_conditionExercisea TOTDUR_floorExercisea TOTDUR_dancinga TOTDUR_compRuna TOTDUR_joga ///
668 TOTDUR_bowlinga TOTDUR_bowlingIna TOTDUR_bowlingOuta TOTDUR_tennisBadmintona TOTDUR_tennisIna TOTDUR_tennisOuta ///
669 TOTDUR_badmintona TOTDUR_squasha TOTDUR_tableTennisa TOTDUR_golfa TOTDUR_footballRugbyHockeya TOTDUR_footRugHockIna ///
670 TOTDUR_footRugHockOuta TOTDUR_cricketa TOTDUR_rowinga TOTDUR_netVolleyBasketBalla TOTDUR_netVolBasketIna ///
671 TOTDUR_netVolBasketOuta TOTDUR_huntingShootingFisha TOTDUR_horseBaseda TOTDUR_snookerBilliardsDartsa ///
672 TOTDUR_musicalInstrumentSinga TOTDUR_iceSkatinga TOTDUR_Skiinga TOTDUR_sailingWindsurfBoata TOTDUR_combatsSportsa ///
673 TOTDUR_ActiveComputerGamesa) if MISSINGGC == 2
674
675 egen TOTALtime = rowtotal(HOMETime WORKtime COMMUTetime LEIStime SLEEP)
676 *TOTALtime always = 24 (minus AH)
677
678 *****
679 /* Calculation of MET scores as per Ainsworth's PA Compendium */
680 *****

```

```

681  /* Home section */
682  gen SCORETV = TVadj
683  gen SCORECOMP = COMPadj //redefined to be a MET score of 1 (as active computer use has been removed).
684  *stairs is halfway between 8 for going up and 3 for going down
685  gen SCORESTAIRS = STAIRadj*5.5
686  /*Home Activites from Recreation Section*/
687  gen SCOREHOUSEHOLD = TOTDUR_Householda * 2.3 // new for v10: Light Cleaning
688  gen SCORELAWN = TOTDUR_mowinga *5.5
689  gen SCOREWATER = TOTDUR_waterLawna *1.5
690  gen SCOREDIG = TOTDUR_heavyGardeninga *6
691  gen SCOREWEED = TOTDUR_weedPrunea *4.5
692  gen SCOREDIY = TOTDUR_dIYa *4.5
693
694  egen SCOREHOME = rowtotal(SCORETV SCORECOMP SCORESTAIRS SCOREHOUSEHOLD SCORELAWN SCOREWATER SCOREDIG SCOREWEED SCOREDIY)
695
696  replace SCOREHOME = . if MISSINGA == 1
697
698  /* Work section */
699
700  *worktype assigned as 1 (median in Fenland dataset) where worktype is missing but time in work reported
701
702  *original:
703  /*
704  local sed_met = 1.5
705  local stand_met = 2.3
706  local man_met = 3.5
707  local heavyman_met = 5.5
708  */
709
710  *Based on Fenland analysis 2015 (see relevant references in header)
711
712  local sed_met = 1.54
713  local stand_met = 1.74
714  local man_met = 1.93
715  local heavyman_met = 2.20
716
717  gen SCOREJOB = . if MISSINGJOB == 1
718  replace SCOREJOB = 0 if JOBadj == 0
719  replace SCOREJOB = `sed_met'*JOBadj if JOBadj > 0 & (Worktype_CLEAN == . | Worktype_CLEAN <0)
720  replace SCOREJOB = `sed_met'*JOBadj if Worktype_CLEAN == 1
721  replace SCOREJOB = `stand_met'*JOBadj if Worktype_CLEAN == 2
722  replace SCOREJOB = `man_met'*JOBadj if Worktype_CLEAN == 3
723  replace SCOREJOB = `heavyman_met'*JOBadj if Worktype_CLEAN == 4
724
725  /* Commuting section */
726  gen SCORECAR = 1.5*CARadj /*Compendium says driving 2METs, riding 1MET*/
727  gen SCOREPUBLIC = PUBLICadj
728  gen SCORECYCLE = 6*CYCLEadj
729  gen SCOREWALK = 3.3*WALKadj
730  egen SCORECOMMUTE = rowtotal(SCORECAR SCOREPUBLIC SCORECYCLE SCOREWALK)
731  replace SCORECOMMUTE = . if MISSINGCOMMUT == 1
732
733  *Generate MET scores for LTPA variables
734  /* Recreation section */
735  gen SCORELAPSWI = TOTDUR_swimCompa *10
736  gen SCORELESSWI = TOTDUR_swimLeisa *6
737  gen SCORELESSWIIN = TOTDUR_swimLeisIna *6
738  gen SCORELESSWIOUT = TOTDUR_swimLeisOuta *6
739  gen SCOREBAKPAK = TOTDUR_backPackMountainClimba *7
740  gen SCOREWALKPLEASURE = TOTDUR_walkPleasurea *3.5
741  gen SCORECYCRAC = TOTDUR_cyclingRacingRougha *10
742  gen SCORECYCPLE = TOTDUR_cyclePleasurea *4
743  gen SCORESTEP = TOTDUR_aerobicsHigha *7
744  gen SCOREAERO = TOTDUR_aerobicsOthera *5
745  gen SCOREWGHT = TOTDUR_exerciseWeightsa *3
746  gen SCOREEXER = TOTDUR_conditionExercisea *5.5
747  gen SCOREFLOOR = TOTDUR_floorExercisea *4
748  gen SCOREDANCE = TOTDUR_dancinga *4.5

```

```

749 gen SCORECOMRUN = TOTDUR_compRuna *12.5
750 gen SCOREJOG = TOTDUR_joga *7
751 gen SCOREBOWL = TOTDUR_bowlinga *3
752 gen SCOREBOWLIN = TOTDUR_bowlingIna *3
753 gen SCOREBOWLOUT = TOTDUR_bowlingOuta *3
754 gen SCORETENBAD = TOTDUR_tennisBadmintona *6
755 gen SCORETENIN = TOTDUR_tennisIna *6
756 gen SCORETENOUT = TOTDUR_tennisOuta *6
757 gen SCOREBAD = TOTDUR_badmintona *6
758 gen SCORESQUASH = TOTDUR_squasha *12
759 gen SCORETABTEN = TOTDUR_tableTennisa *4
760 gen SCOREGOLF = TOTDUR_golfa *4.5
761 gen SCOREFOOT = TOTDUR_footballRugbyHockeya *8
762 gen SCOREFOOTIN = TOTDUR_footRugHockIna *8
763 gen SCOREFOOTOUT = TOTDUR_footRugHockOuta *8
764 gen SCORECRICK = TOTDUR_cricketa *5
765 gen SCOREROW = TOTDUR_rowinga *7
766 gen SCORENET = TOTDUR_netVolleyBasketBalla *5.5
767 gen SCORENETIN = TOTDUR_netVolBasketIna *5.5
768 gen SCORENETOUT = TOTDUR_netVolBasketOuta *5.5
769 gen SCOREFISH = TOTDUR_huntingShootingFisha *3
770 gen SCOREHORSE = TOTDUR_horseBaseda *4
771 gen SCORESNOOK = TOTDUR_snookerBillardsDartsa *2.5
772 gen SCOREMUSIC = TOTDUR_musicalInstrumentSinga *2.7
773 gen SCORESKATE = TOTDUR_iceSkatinga *7
774 gen SCORESKI = TOTDUR_Skiinga * 6 // new for v10
775 gen SCORESAIL = TOTDUR_sailingWindsurfBoata *3
776 gen SCOREBOX = TOTDUR_combatsSportsa*10
777 gen SCOREACTCOMP = TOTDUR_ActiveComputerGamesa*2.3 // new for v10: Activity promoting video games light effort
778
779 egen SCORELEIS = rowtotal(SCORELAPSWI SCORELESSWI SCORELESSWIIN SCORELESSWIOUT SCOREBAKPAK SCOREWALKPLEASURE SCORECYCRAC SCORECYCPLA ///
780 SCORESTEP SCOREAERO SCOREWGHT SCOREEXER SCOREFLOOR SCOREDANCE SCORECOMRUN SCOREJOG SCOREBOWL SCOREBOWLIN SCOREBOWLOUT SCORETENBAD ///
781 SCORETENIN SCORETENOUT SCOREBAD SCORESQUASH SCORETABTEN SCOREGOLF SCOREFOOT SCOREFOOTIN SCOREFOOTOUT SCORECRICK SCOREROW ///
782 SCORENET SCORENETIN SCORENETOUT SCOREFISH SCOREHORSE SCORESNOOK SCOREMUSIC SCORESKATE SCORESKI SCORESAIL SCOREBOX SCOREACTCOMP)
783
784 replace SCORELEIS = . if MISSINGC == 1
785
786 *Score Unaccounted time according to getting about mode (assumption being that this is a marker for energy cost of activities not captured)
787 gen SCORE_UNACCOUNTED = UNACCOUNTED * 1
788 replace SCORE_UNACCOUNTED = UNACCOUNTED * 1.3 if Gettingabout_CLEAN ==2 | Gettingabout_CLEAN ==4
789
790 /* Total score */
791
792 egen TOTMETHRS = rowtotal(SCOREHOME SCOREJOB SCORECOMMUTE SCORELEIS) if MISSING == 2 /*awake-time only*/
793 egen TOTMETHRS_w_UNACcTime = rowtotal(SCOREHOME SCOREJOB SCORECOMMUTE SCORELEIS SCORE_UNACCOUNTED) if MISSING == 2 /*awake-time only*/
794
795 egen TOTtime = rowtotal(HOMetime WORKtime COMMUTetime LEIStime)
796
797 gen ACTMETS = TOTMETHRS - TOTtime*1
798 gen ACTMETS_w_UNACcTime = TOTMETHRS_w_UNACcTime - (24-SLEEP)*1
799 *difference between the two scores is the assignment of energy to unaccounted for time; the first score assigns 1MET to all unaccounted for time and the second assigns 1.3MET to unaccounted for time if
the person reports getting about actively
800
801 gen HOME_METS = SCOREHOME
802 gen WORK_METS = SCOREJOB
803 gen LEIS_METS = SCORELEIS
804 gen COMMUTE_METS = SCORECOMMUTE
805
806 gen HOME_ACTMETS = SCOREHOME - HOMetime
807 gen WORK_ACTMETS = SCOREJOB - WORKtime
808 gen LEIS_ACTMETS = SCORELEIS - LEIStime
809 gen COMMUTE_ACTMETS = SCORECOMMUTE - COMMUTetime
810
811 *Convert MET HRS per day to kJ/kg/day. Multiply by 60 to get to MET minutes (which cancels out minutes), multiply by 3.5 * 20.35 to convert to J.
812 gen PAEE = ACTMETS * 3.5 * 20.35 * 60 / 1000
813 gen HOME_PAEE = HOME_ACTMETS * 3.5 * 20.35 * 60 / 1000
814 gen WORK_PAEE = WORK_ACTMETS * 3.5 * 20.35 * 60 / 1000
815 gen LEIS_PAEE = LEIS_ACTMETS * 3.5 * 20.35 * 60 / 1000

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```

816 gen COMMUTE_PAEE = COMMUTE_ACTMETS * 3.5 * 20.35 * 60 / 1000
817
818 *ENERGY SPENT AT DIFFERENT INTENSITIES
819 *SPA: <=1.5 METs, not including sleep
820 egen SED_INTENSITY = rowtotal(SCORETV SCORECOMP SCORECAR SCOREPUBLIC)
821 egen SED_INTENSITY2 = rowtotal(SCORETV SCORECOMP SCORECAR SCOREPUBLIC SCOREJOB)
822 replace SED_INTENSITY = SED_INTENSITY2 if Worktype_CLEAN == 1
823 drop SED_INTENSITY2
824
825 *LPA: 1.5001-2.99 METs
826 egen LIGHT_INTENSITY = rowtotal(SCOREWATER SCORESNOOK SCOREMUSIC SCOREHOUSEHOLD SCOREACTCOMP)
827 egen LIGHT_INTENSITY2 = rowtotal(SCOREWATER SCORESNOOK SCOREMUSIC SCOREHOUSEHOLD SCOREACTCOMP SCOREJOB)
828 replace LIGHT_INTENSITY = LIGHT_INTENSITY2 if Worktype_CLEAN == 2
829 drop LIGHT_INTENSITY2
830
831 *MPA: 3-5.99 METs
832 *includes digging and commute cycling
833 egen MODERATE_INTENSITY = rowtotal(SCORESTAIRS SCOREWALK SCORECYCLE SCORELESSWI SCORELESSWIIN SCORELESSWUIOUT SCOREWALKPLEASURE SCORECYCPL //
834 SCORELAWN SCOREDIG SCOREWEED SCOREDIY SCOREAERO SCOREWGHT SCOREEXER SCOREFLOOR SCOREDANCE SCOREBOWL //
835 SCOREBOWLIN SCOREBOWLOUT SCORETENBAD SCORETENIN SCORETENOUT SCOREBAD SCORETABTEN SCOREGOLF //
836 SCORECRICK SCORENET SCORENETIN SCORENETOUT SCOREFISH SCOREHORSE SCORESAIL)
837 egen MODERATE_INTENSITY2 = rowtotal(SCORESTAIRS SCOREWALK SCORECYCLE SCORELESSWI SCORELESSWIIN SCORELESSWUIOUT SCOREWALKPLEASURE SCORECYCPL //
838 SCORELAWN SCOREDIG SCOREWEED SCOREDIY SCOREAERO SCOREWGHT SCOREEXER SCOREFLOOR SCOREDANCE SCOREBOWL //
839 SCOREBOWLIN SCOREBOWLOUT SCORETENBAD SCORETENIN SCORETENOUT SCOREBAD SCORETABTEN SCOREGOLF //
840 SCORECRICK SCORENET SCORENETIN SCORENETOUT SCOREFISH SCOREHORSE SCORESAIL SCOREJOB)
841 replace MODERATE_INTENSITY = MODERATE_INTENSITY2 if Worktype_CLEAN == 3
842 drop MODERATE_INTENSITY2
843
844 *VPA: >=6 METs
845 egen VIGOROUS_INTENSITY = rowtotal(SCORELAPSWI SCOREBAKPAK SCORECYCRAC SCORESTEP SCORECOMRUN SCOREJOG SCORESQUASH SCOREFOOT SCOREFOOTIN //
846 SCOREFOOTOUT SCOREROW SCORESKATE SCOREBOX SCORESKI)
847 egen VIGOROUS_INTENSITY2 = rowtotal(SCORELAPSWI SCOREBAKPAK SCORECYCRAC SCORESTEP SCORECOMRUN SCOREJOG SCORESQUASH SCOREFOOT SCOREFOOTIN //
848 SCOREFOOTOUT SCOREROW SCORESKATE SCOREBOX SCORESKI SCOREJOB)
849 replace VIGOROUS_INTENSITY = VIGOROUS_INTENSITY2 if Worktype_CLEAN == 4
850 drop VIGOROUS_INTENSITY2
851
852 * TIME SPENT AT DIFFERENT INTENSITIES
853 *Time spent in SPA (<=1.5 METs, not including sleep)
854 egen SEDtime = rowtotal(TVadj COMPadj CARadj PUBLICadj)
855 egen SEDtime2 = rowtotal(TVadj COMPadj CARadj PUBLICadj JOBadj)
856 replace SEDtime = SEDtime2 if Worktype_CLEAN == 1
857 drop SEDtime2
858
859 *Time spent in LPA: 1.5001-2.99 METs
860 egen LIGHTtime = rowtotal(TOTDUR_waterLawna TOTDUR_snookerBillardsDartsa TOTDUR_musicalInstrumentSinga TOTDUR_ActiveComputerGamesa //
861 TOTDUR_Householda)
862 egen LIGHTtime2 = rowtotal(TOTDUR_waterLawna TOTDUR_snookerBillardsDartsa TOTDUR_musicalInstrumentSinga TOTDUR_ActiveComputerGamesa //
863 TOTDUR_Householda JOBadj)
864 replace LIGHTtime = LIGHTtime2 if Worktype_CLEAN == 2
865 drop LIGHTtime2
866
867 *Time spent in MPA: 3-5.99 METs
868 egen MODERATEtime = rowtotal(STAIRadj WALKadj CYCLEadj TOTDUR_swimLeisa TOTDUR_swimLeisIna TOTDUR_swimLeisOuta TOTDUR_walkPleasurea //
869 TOTDUR_cyclePleasurea TOTDUR_mowinga TOTDUR_heavyGardeninga TOTDUR_weedPrunea TOTDUR_dIYa TOTDUR_aerobicsOthera //
870 TOTDUR_exerciseWeightsa TOTDUR_conditionExercisea TOTDUR_floorExercisea TOTDUR_dancinga TOTDUR_bowlinga //
871 TOTDUR_bowlingIna TOTDUR_bowlingOuta TOTDUR_tennisBadmintona TOTDUR_tennisIna TOTDUR_tennisOuta //
872 TOTDUR_badmintona TOTDUR_tableTennisa TOTDUR_golfa TOTDUR_cricketa TOTDUR_netVolleyBasketBalla //
873 TOTDUR_netVolBasketIna TOTDUR_netVolBasketOuta TOTDUR_huntingShootingFisha TOTDUR_horseBaseda //
874 TOTDUR_sailingWindsurfBoata)
875 egen MODERATEtime2 = rowtotal(STAIRadj WALKadj CYCLEadj TOTDUR_swimLeisa TOTDUR_swimLeisIna TOTDUR_swimLeisOuta TOTDUR_walkPleasurea //
876 TOTDUR_cyclePleasurea TOTDUR_mowinga TOTDUR_heavyGardeninga TOTDUR_weedPrunea TOTDUR_dIYa TOTDUR_aerobicsOthera //
877 TOTDUR_exerciseWeightsa TOTDUR_conditionExercisea TOTDUR_floorExercisea TOTDUR_dancinga TOTDUR_bowlinga //
878 TOTDUR_bowlingIna TOTDUR_bowlingOuta TOTDUR_tennisBadmintona TOTDUR_tennisIna TOTDUR_tennisOuta //
879 TOTDUR_badmintona TOTDUR_tableTennisa TOTDUR_golfa TOTDUR_cricketa TOTDUR_netVolleyBasketBalla //
880 TOTDUR_netVolBasketIna TOTDUR_netVolBasketOuta TOTDUR_huntingShootingFisha TOTDUR_horseBaseda //
881 TOTDUR_sailingWindsurfBoata JOBadj)
882 replace MODERATEtime = MODERATEtime2 if Worktype_CLEAN == 3
883 drop MODERATEtime2

```

```

884
885 *Time spent in VPA: >=6 METs
886 egen VIGOROUStime = rowtotal(TOTDUR_swimCompa TOTDUR_backPackMountainClimba TOTDUR_cyclingRacingRougha TOTDUR_aerobicsHigha ///
887 TOTDUR_compRuna TOTDUR_joga TOTDUR_squasha TOTDUR_footballRugbyHockeya TOTDUR_footRugHockIna ///
888 TOTDUR_footRugHockOuta TOTDUR_rowinga TOTDUR_iceSkatinga TOTDUR_combatsSportsa TOTDUR_Skiinga)
889 egen VIGOROUStime2 = rowtotal(TOTDUR_swimCompa TOTDUR_backPackMountainClimba TOTDUR_cyclingRacingRougha TOTDUR_aerobicsHigha ///
890 TOTDUR_compRuna TOTDUR_joga TOTDUR_squasha TOTDUR_footballRugbyHockeya TOTDUR_footRugHockIna ///
891 TOTDUR_footRugHockOuta TOTDUR_rowinga TOTDUR_iceSkatinga TOTDUR_combatsSportsa TOTDUR_Skiinga JOBadj)
892 replace VIGOROUStime = VIGOROUStime2 if Worktype_CLEAN == 4
893 drop VIGOROUStime2
894
895 *****
896 *** LABELLING OF KEY VARIABLES ***
897 *****
898 label var TOTMETHRS "Total reported duration (hours) of activity times intensity (MET) [METHrs/d]"
899 label var TOTMETHRS_w_UNACctime "Total reported plus unaccounted duration hours) times intensity (MET) [METHrs/d]"
900 label var TOTtime "Total reported duration (hours) of activity [hrs/d]"
901 label var TOTALtime "Total reported duration (hours) of activity + assumed sleep [hrs/d]"
902 label var ACTMETS "Total activity energy expenditure discounting resting [net METHrs/d]"
903 label var ACTMETS_w_UNACctime "Activity EE incl AEE for unaccounted time for active getting about [net METHrs/d]"
904 label var PAEE "Physical activity energy expenditure [kJ/kg/d]"
905
906 label var HOME_METS "Home domain energy expenditure [METHrs/d]"
907 label var WORK_METS "Work domain energy expenditure [METHrs/d]"
908 label var LEIS_METS "Leisure domain energy expenditure [METHrs/d]"
909 label var COMMUTE_METS "Commute domain energy expenditure [METHrs/d]"
910 label var HOME_ACTMETS "Home domain activity energy expenditure [net METHrs/d]"
911 label var WORK_ACTMETS "Work domain activity energy expenditure [net METHrs/d]"
912 label var LEIS_ACTMETS "Leisure domain activity energy expenditure [net METHrs/d]"
913 label var COMMUTE_ACTMETS "Commute domain activity energy expenditure [net METHrs/d]"
914 label var HOME_PAEE "Home domain activity energy expenditure [kJ/kg/d]"
915 label var WORK_PAEE "Work domain activity energy expenditure [kJ/kg/d]"
916 label var LEIS_PAEE "Leisure domain activity energy expenditure [kJ/kg/d]"
917 label var COMMUTE_PAEE "Commute domain activity energy expenditure [kJ/kg/d]"
918
919 label var SED_INTENSITY "Sedentary behavior energy expenditure [METHrs/d]"
920 label var LIGHT_INTENSITY "Light intensity energy expenditure [METHrs/d]"
921 label var MODERATE_INTENSITY "Moderate intensity energy expenditure [METHrs/d]"
922 label var VIGOROUS_INTENSITY "Vigorous intensity energy expenditure [METHrs/d]"
923 label var SEDtime "Time spent sedentary, excluding sleep [hrs/d]"
924 label var LIGHTtime "Time spent at light intensity activity [hrs/d]"
925 label var MODERATEtime "Time spent at moderate intensity activity [hrs/d]"
926 label var VIGOROUStime "Time spent at vigorous intensity activity [hrs/d]"
927
928 order ISerial template
929
930 *** SAVING THE OUTPUT ***
931 nois di in red "$OUTPUT_FOLDER/`YEAR'_$OUTPUT_SUFFIX"
932 save "$OUTPUT_FOLDER/`YEAR'_$OUTPUT_SUFFIX.dta", replace
933 outsheet using "$OUTPUT_FOLDER/`YEAR'_$OUTPUT_SUFFIX.csv", comma replace
934
935 *This is now the most up to date version of RPAQ data with METs generated that is to be used for analyses.
936
937 set more off
938 nois di "Listing extreme PAEE values"
939 nois list ISerial PAEE WORK_PAEE Worktype_CLEAN WORKtime LEIStime LIGHTtime MODERATEtime VIGOROUStime if WORK_PAEE> 120 & WORK_PAEE!=.
940 nois list ISerial PAEE LEIS_PAEE LEIStime LIGHTtime MODERATEtime VIGOROUStime if LEIS_PAEE> 120 & LEIS_PAEE!=.
941
942 restore
943 }

```