**Car ownership – harmonisation notes**

*Studies (wave) with relevant data (n=6)*

ALSPAC (multiple), CLAN (1,2), HEAPS (1,2), PEACH (1,2,3), Pelotas (1,2), SPEEDY (1,2,3).

*Assessment characteristics*

Respondent: Parent, Child.

Constructs: Car ownership, Access to a car.

Timing: No. of waves of assessment, proximity to accelerometry.

*Variable(s) created*

|  |  |
| --- | --- |
| **Name** | **Description / Coding** |
| ICAD\_Car1 | Coding: No car (coded 0)/ At least one car (1) / Missing (999) |
| ICAD\_Car2 | Coding: No car (coded 0) / One car (1) / Two cars (2) / Three or more cars (3) / Missing (999) |
| ICAD\_Car3 | Coding: No car or one car (coded 0) / Two or more cars (1) / Missing (999) |

Variables were derived for all available waves within each study.

*Studies / waves included in each harmonised variable*

|  |  |
| --- | --- |
| **Name** | **Study** |
| ICAD\_Car1 | CLAN (1,2), HEAPS (1,2), PEACH (1,2,3), Pelotas (1,2), SPEEDY (1,3) |
| ICAD\_Car2 | CLAN (1,2), HEAPS (1,2), PEACH (1,2,3), Pelotas (1,2) |
| ICAD\_Car3 | CLAN (1,2), HEAPS (1,2), PEACH (1,2,3), Pelotas (1,2), SPEEDY (1,2,3) |

*Excluded studies / waves*

|  |  |
| --- | --- |
| **Study / wave****Variable** | **Rationale** |
| ALSPAC(all waves) | Car ownership was assessed only at ages 8, 21, 33, 61 months. This was considered too distal to the accelerometer assessments (ages 11, 13, 15 years).  |
| SPEEDY / Wave 2ICAD\_Car1 | The item used at wave 2 assessed ownership of *more than 1 car*. It did not distinguish no car access from ownership of one car.  |
| SPEEDY / all wavesICAD\_Car2 | None of the items used in SPEEDY provided participants with the option to state the number of cars owned, therefore it was not possible to derive ICAD\_Car2 for any time-point.  |

*Item selection / prioritisation (where multiple variables within a study / wave were provided)*

* Assuming the same construct was assessed, respondent was prioritised as follows: parent, child.
* Assuming the same respondent, construct was prioritised as follows: car ownership, access to a car.
* A subjective judgement was made as to whether assessment of car ownership was sufficiently proximal to accelerometry to provide reliable information – when the time lag was considered too great, the item was excluded from harmonisation (for the purposes of the variables described in ‘proposed variables’, we are treating car ownership as a correlate of behaviour rather than as a marker of socio-economic position - thus temporal proximity is important).

*Study specific notes*

N/A

**Car ownership – harmonisation table**

**Construct**: Car Ownership

**Variable**: ICAD\_Car1

**Coding**: No car (coded 0)/ At least one car (1) / Missing (999)

|  |  |  |  |
| --- | --- | --- | --- |
| **Study / Wave** | **Source data** |  | **Harmonisation** |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| CLAN Wave: 1 | Var’ name: W1\_p1q12Parent-reportedNo. of cars in household | 0, n=221, n=3052, n=7723, n=854, n=155, n=56, n=1missing, n=15 |  | No car (0) | If [W1\_p1q12] = 0 | n=22 |
|  | At least one car (1) | If [W1\_p1q12] = 1,2,3,4,5,6 | n=1183 |
|  | Missing (999) | If [W1\_p1q12] = missing. | n=15 |
|  |  |  |  |  |  |  |
| CLAN Wave: 2 | Var’ name: W2\_p2q9Parent-reportedNo. of cars in household | 0, n=71, n=1282, n=3563, n=724, n=135, n=46, n=29, n=2missing, n=636 |  | No car (0) | If [W2\_p2q9] = 0 | n=7 |
|  | At least one car (1) | If [W2\_p2q9] = 1,2,3,4,5,6,9 | n=577 |
|  | Missing (999) | If [W2\_p2q9] = missing. | n=636 |
|  |  |  |  |  |  |  |
| HEAPSWave: 1 | Var’ name: W1\_p1q8Parent-reportedNo. of cars in household | 0, n=261, n=3882, n=10153, n=984, n=305, n=37, n=1missing, n=1 |  | No car (0) | If [W1\_p1q8] = 0 | n=26 |
|  | At least one car (1) | If [W1\_p1q8] = 1,2,3,4,5,7 | n=1535 |
|  | Missing (999) | If [W1\_p1q8] = missing. | n=1 |
|  |  |  |  |  |  |  |
| HEAPSWave: 2 | Var’ name: W2\_p2q8Parent-reportedNo. of cars in household | 0, n=11, n=762, n=2653, n=374, n=95, n=27, n=1missing, n=1171 |  | No car (0) | If [W2\_p2q8] = 0 | n=1 |
|  | At least one car (1) | If [W2\_p2q8] = 1,2,3,4,5,7 | n=390 |
|  | Missing (999) | If [W1\_p1q8] = missing. | n=1171 |
|  |  |  |  |  |  |  |
| PEACHWave: 1 | Var’ name: W1\_p24Parent-reportedNo. of cars parent has access to | 0, n=731, n=3542, n=3113, n=204, n=25, n=1missing, n=546 |  | No car (0) | If [W1\_p24] = 0 | n=73 |
|  | At least one car (1) | If [W1\_p24] = 1,2,3,4,5 | n=688 |
|  | Missing (999) | If [W1\_p24] = missing. | n=546 |
|  |  |  |  |  |  |  |
| PEACHWave: 2 | Var’ name: W2\_p24Parent-reportedNo. of cars parent has access to | 0, n=451, n=2102, n=1883, n=224, n=15, n=1missing, n=840 |  | No car (0) | If [W2\_p24] = 0 | n=45 |
|  | At least one car (1) | If [W2\_p24] = 1,2,3,4,5 | n=422 |
|  | Missing (999) | If [W2\_p24] = missing. | n=840 |
|  |  |  |  |  |  |  |
| PEACHWave: 3 | Var’ name: W3\_Q9\_parent\_T3Parent-reportedNo. of cars parent has access to | 0, n=391, n=1922, n=1713, n=304, n=45, n=1missing, n=870 |  | No car (0) | If [W3\_Q9\_parent\_T3] = 0 | n=39 |
|  | At least one car (1) | If [W3\_Q9\_parent\_T3] = 1,2,3,4,5 | n=398 |
|  | Missing (999) | If [W3\_Q9\_parent\_T3] = missing. | n=870 |
|  |  |  |  |  |  |  |
| PelotasWave: 1 | Var’ name: W1a\_car\_numberParent-reportedNo. of cars owned | 0, n=3061, n=1362, n=123, n=3Missing, n=4847 |  | No car (0) | If [W1a\_car\_number] = 0 | n=306 |
|  | At least one car (1) | If [W1a\_car\_number] = 1,2,3 | n=151 |
|  | Missing (999) | If [W1a\_car\_number] = missing. | n=4847 |
|  |  |  |  |  |  |  |
| PelotasWave: 3 | Var’ name: W3\_kcarqtosSelf-reported (age 18 survey)No. of cars owned | 0, n=22081, n=14672, n=3233, n=844, n=165, n=56, n=2missing, n=1199 |  | No car (0) | If [W3\_kcarqtos] = 0 | n=2208 |
|  | At least one car (1) | If [W3\_kcarqtos] = 1,2,3,4,5,6 | n=1897 |
|  | Missing (999) | If [W3\_kcarqtos] = missing. | n=1199 |
|  |  |  |  |  |  |  |
| SPEEDY Wave: 1 | Var’ name: W1\_ses\_carParent-reportedCar ownership | “No”, n=97“Yes”, n=1823Missing, n=144 |  | No car (0) | If [W1\_ses\_car] = “No” | n=97 |
|  | At least one car (1) | If [W1\_ses\_car] = “Yes” | n=1823 |
|  | Missing (999) | If [W1\_ses\_car] = missing. | n=144 |
|  |  |  |  |  |  |  |
| SPEEDY Wave: 3 | Var’ name: W3\_s3\_q083cnoneW3\_s3\_q083aonevehicleW3\_s3\_q083bmorethanonevehicleParent-reportedOwnership of more than 1 car | W3\_s3\_q083cnone:0 (no), n=4221 (yes), n=16Missing, n=1626W3\_s3\_q083aonevehicle:0 (no), n=2631 (yes), n=175Missing, n=1626W3\_s3\_q083bmorethanonevehicle:0 (no), n=1911 (yes), n=247Missing, n=1626 |  | No car (0) | If [W3\_s3\_q083cnone] = 0 | n=16 |
|  | At least one car (1) | If [W3\_s3\_q083aonevehicle] = 1 OR [W3\_s3\_q083bmorethanonevehicle] = 1 | n=422 |
|  | Missing (999) |  | n=1626 |

**Construct**: Car Ownership

**Variable**: ICAD\_Car2

**Coding**: No car (coded 0) / One car (1) / Two cars (2) / Three or more cars (3) / missing (999)

|  |  |  |  |
| --- | --- | --- | --- |
| **Study / Wave** | **Source data** |  | **Harmonisation** |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| CLAN Wave: 1 | Var’ name: W1\_p1q12Parent-reportedNo. of cars in household | 0, n=221, n=3052, n=7723, n=854, n=155, n=56, n=1missing, n=15 |  | No car (0) | If [W1\_p1q12] = 0 | n=22 |
|  | One car (1) | If [W1\_p1q12] = 1 | n=305 |
|  | Two cars (2) | If [W1\_p1q12] = 2 | n=772 |
|  | Three or more cars (3) | If [W1\_p1q12] = 4,5,6 | n=106 |
|  | Missing (999) | If [W1\_p1q12] = missing | n=15 |
|  |  |  |  |  |  |  |
| CLAN Wave: 2 | Var’ name: W2\_p2q9Parent-reportedNo. of cars in household | 0, n=71, n=1282, n=3563, n=724, n=135, n=46, n=29, n=2missing, n=636 |  | No car (0) | If [W2\_p2q9] = 0 | n=7 |
|  | One car (1) | If [W2\_p2q9] = 1 | n=128 |
|  | Two cars (2) | If [W2\_p2q9] = 2 | n=356 |
|  | Three or more cars (3) | If [W2\_p2q9] = 3,4,5,6,9 | n=93 |
|  | Missing (999) | If [W2\_p2q9] = missing | n=636 |
|  |  |  |  |  |  |  |
| HEAPSWave: 1 | Var’ name: W1\_p1q8Parent-reportedNo. of cars in household | 0, n=261, n=3882, n=10153, n=984, n=305, n=37, n=1missing, n=1 |  | No car (0) | If [W1\_p1q8] = 0 | n=26 |
|  | One car (1) | If [W1\_p1q8] = 1 | n=388 |
|  | Two cars (2) | If [W1\_p1q8] = 2 | n=1015 |
|  | Three or more cars (3) | If [W1\_p1q8] = 3,4,5,7 | n=132 |
|  | Missing (999) | If [W1\_p1q8] = missing | n=1 |
|  |  |  |  |  |  |  |
| HEAPSWave: 2 | Var’ name: W2\_p2q8Parent-reportedNo. of cars in household | 0, n=11, n=762, n=2653, n=374, n=95, n=27, n=1missing, n=1171 |  | No car (0) | If [W2\_p2q8] = 0 | n=1 |
|  | One car (1) | If [W2\_p2q8] = 1 | n=76 |
|  | Two cars (2) | If [W2\_p2q8] = 2 | n=265 |
|  | Three or more cars (3) | If [W2\_p2q8] = 3,4,5,7 | n=49 |
|  | Missing (999) | If [W2\_p2q8] = missing | n=1171 |
|  |  |  |  |  |  |  |
| PEACHWave: 1 | Var’ name: W1\_p24Parent-reportedNo. of cars parent has access to | 0, n=731, n=3542, n=3113, n=204, n=25, n=1missing, n=546 |  | No car (0) | If [W1\_p24] = 0 | n=73 |
|  | One car (1) | If [W1\_p24] = 1 | n=354 |
|  | Two cars (2) | If [W1\_p24] = 2 | n=311 |
|  | Three or more cars (3) | If [W1\_p24] = 3,4,5 | n=23 |
|  | Missing (999) | If [W1\_p24] = missing | n=546 |
|  |  |  |  |  |  |  |
| PEACHWave: 2 | Var’ name: W2\_p24Parent-reportedNo. of cars parent has access to | 0, n=451, n=2102, n=1883, n=224, n=15, n=1missing, n=840 |  | No car (0) | If [W2\_p24] = 0 | n=45 |
|  | One car (1) | If [W2\_p24] = 1 | n=210 |
|  | Two cars (2) | If [W2\_p24] = 2 | n=188 |
|  | Three or more cars (3) | If [W2\_p24] = 3,4,5 | n=24 |
|  | Missing (999) | If [W2\_p24] = missing | n=840 |
|  |  |  |  |  |  |  |
| PEACHWave: 3 | Var’ name: W3\_Q9\_parent\_T3Parent-reportedNo. of cars parent has access to | 0, n=391, n=1922, n=1713, n=304, n=45, n=1missing, n=870 |  | No car (0) | If [W3\_Q9\_parent\_T3] = 0 | n=39 |
|  | One car (1) | If [W3\_Q9\_parent\_T3] = 1 | n=192 |
|  | Two cars (2) | If [W3\_Q9\_parent\_T3] = 2 | n=171 |
|  | Three or more cars (3) | If [W3\_Q9\_parent\_T3] = 3,4,5 | n=35 |
|  | Missing (999) | If [W3\_Q9\_parent\_T3] = missing | n=870 |
|  |  |  |  |  |  |  |
| PelotasWave: 1 | Var’ name: W1a\_car\_numberParent-reportedNo. of cars owned | 0, n=3061, n=1362, n=123, n=3Missing, n=4847 |  | No car (0) | If [W1a\_car\_number] = 0 | n=306 |
|  | One car (1) | If [W1a\_car\_number] = 1 | n=136 |
|  | Two cars (2) | If [W1a\_car\_number] = 2 | n=12 |
| Three or more cars (3) | If [W1a\_car\_number] = 3 | n=3 |
| Missing (999) | If [W1a\_car\_number] = missing | n=4847 |
|  |  |  |  |  |  |  |
| PelotasWave: 3 | Var’ name: W3\_kcarqtosSelf-reported (age 18 survey)No. of cars owned | 0, n=22081, n=14672, n=3233, n=844, n=165, n=56, n=2missing, n=1199 |  | No car (0) | If [W3\_kcarqtos] = 0 | n=2208 |
|  | One car (1) | If [W3\_kcarqtos] = 1 | n=1467 |
|  | Two cars (2) | If [W3\_kcarqtos] = 2 | n=323 |
|  | Three or more cars (3) | If [W3\_kcarqtos] = 3,4,5,6 | n=107 |
|  | Missing (999) | If [W3\_kcarqtos] = missing | n=1199 |

**Construct**: Car Ownership

**Variable**: ICAD\_Car3

**Coding**: No car or one car (coded 0) / Two or more cars (1) / Missing (999)

|  |  |  |  |
| --- | --- | --- | --- |
| **Study / Wave** | **Source data** |  | **Harmonisation** |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| CLAN Wave: 1 | Var’ name: W1\_p1q12Parent-reportedNo. of cars in household | 0, n=221, n=3052, n=7723, n=854, n=155, n=56, n=1missing, n=15 |  | No car or one car (0) | If [W1\_p1q12] = 0,1 | n=327 |
|  | Two or more cars (1) | If [W1\_p1q12] = 2,3,4,5,6 | n=878 |
|  | Missing (999) | If [W1\_p1q12] = missing. | n=15 |
|  |  |  |  |  |  |  |
| CLAN Wave: 2 | Var’ name: W2\_p2q9Parent-reportedNo. of cars in household | 0, n=71, n=1282, n=3563, n=724, n=135, n=46, n=29, n=2missing, n=636 |  | No car or one car (0) | If [W2\_p2q9] = 0,1 | n=135 |
|  | Two or more cars (1) | If [W2\_p2q9] = 2,3,4,5,6,9 | n=449 |
|  | Missing (999) | If [W2\_p2q9] = missing. | n=636 |
|  |  |  |  |  |  |  |
| HEAPSWave: 1 | Var’ name: W1\_p1q8Parent-reportedNo. of cars in household | 0, n=261, n=3882, n=10153, n=984, n=305, n=37, n=1missing, n=1 |  | No car or one car (0) | If [W1\_p1q8] = 0,1 | n=414 |
|  | Two or more cars (1) | If [W1\_p1q8] = 2,3,4,5,7 | n=1147 |
|  | Missing (999) | If [W1\_p1q8] = missing. | n=1 |
|  |  |  |  |  |  |  |
| HEAPSWave: 2 | Var’ name: W2\_p2q8Parent-reportedNo. of cars in household | 0, n=11, n=762, n=2653, n=374, n=95, n=27, n=1missing, n=1171 |  | No car or one car (0) | If [W2\_p2q8] = 0,1 | n=77 |
|  | Two or more cars (1) | If [W2\_p2q8] = 2,3,4,5,7 | n=314 |
|  | Missing (999) | If [W2\_p2q8] = missing. | n=1171 |
|  |  |  |  |  |  |  |
| PEACHWave: 1 | Var’ name: W1\_p24Parent-reportedNo. of cars parent has access to | 0, n=731, n=3542, n=3113, n=204, n=25, n=1missing, n=546 |  | No car or one car (0) | If [W1\_p24] = 0,1 | n=427 |
|  | Two or more cars (1) | If [W1\_p24] = 2,3,4,5 | n=334 |
|  | Missing (999) | If [W1\_p24] = missing. | n=546 |
|  |  |  |  |  |  |  |
| PEACHWave: 2 | Var’ name: W2\_p24Parent-reportedNo. of cars parent has access to | 0, n=451, n=2102, n=1883, n=224, n=15, n=1missing, n=840 |  | No car or one car (0) | If [W2\_p24] = 0,1 | n=255 |
|  | Two or more cars (1) | If [W2\_p24] = 2,3,4,5 | n=212 |
|  | Missing (999) | If [W2\_p24] = missing. | n=840 |
|  |  |  |  |  |  |  |
| PEACHWave: 3 | Var’ name: W3\_Q9\_parent\_T3Parent-reportedNo. of cars parent has access to | 0, n=391, n=1922, n=1713, n=304, n=45, n=1missing, n=870 |  | No car or one car (0) | If [W3\_Q9\_parent\_T3] = 0,1 | n=231 |
|  | Two or more cars (1) | If [W3\_Q9\_parent\_T3] = 2,3,4,5 | n=206 |
|  | Missing (999) | If [W3\_Q9\_parent\_T3] = missing. | n=870 |
|  |  |  |  |  |  |  |
| PelotasWave: 1 | Var’ name: W1a\_car\_numberParent-reportedNo. of cars owned | 0, n=3061, n=1362, n=123, n=3Missing, n=4847 |  | No car or one car (0) | If [W1a\_car\_number] = 0,1 | n=442 |
|  | Two or more cars (1) | If [W1a\_car\_number] = 2,3 | n=15 |
|  | Missing (999) | If [W1a\_car\_number] = missing. | n=4847 |
|  |  |  |  |  |  |  |
| PelotasWave: 3 | Var’ name: W3\_kcarqtosSelf-reported (age 18 survey)No. of cars owned | 0, n=22081, n=14672, n=3233, n=844, n=165, n=56, n=2missing, n=1199 |  | No car or one car (0) | If [W3\_kcarqtos] = 0,1 | n=3675 |
|  | Two or more cars (1) | If [W3\_kcarqtos] = 2,3,4,5,6 | n=430 |
|  | Missing (999) | If [W3\_kcarqtos] = missing. | n=1199 |
|  |  |  |  |  |  |  |
| SPEEDY Wave: 1 | Var’ name: W1\_carownChild-reportedCar ownership | “No”, n=115“Yes; 1 car”, n=742“Yes; >1 car”, n=1207 |  | No car or one car (0) | If [W1\_carown] = “No”, “Yes, 1 car” | n=857 |
|  | Two or more cars (1) | If [W1\_carown] = “Yes; >1 car” | n=1207 |
|  | Missing (999) | No missing data |  |
|  |  |  |  |  |  |  |
| SPEEDY Wave: 2 | Var’ name: W2\_s2\_a3acars\_cleanedChild-reportedOwnership of more than 1 car | 0 (no), n=3381 (yes), n=573missing, n=1153 |  | No car or one car (0) | If [W2\_s2\_a3acars\_cleaned] = 0 | n=338 |
|  | Two or more cars (1) | If [W2\_s2\_a3acars\_cleaned] = 1 | n=573 |
|  | Missing (999) | If [W2\_s2\_a3acars\_cleaned] = missing | n=1153 |
|  |  |  |  |  |  |  |
| SPEEDY Wave: 3 | Var’ name: W3\_s3\_q083bmorethanonevehicleParent-reportedOwnership of more than 1 car | 0 (no), n=1911 (yes), n=247missing, n=1626 |  | No car or one car (0) | If [W3\_s3\_q083bmorethanonevehicle] = 0 | n=191 |
|  | Two or more cars (1) | If [W3\_s3\_q083bmorethanonevehicle] = 1 | n=247 |
|  | Missing (999) | If [W3\_s3\_q083bmorethanonevehicle] = missing | n=1626 |