**Harmonisation Notes**

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*Construct:*

Physical education

*Studies (waves) with relevant data (n=4)*

ALSPAC (1), CLAN (1,2,3), HEAPS (2), SPEEDY (1,3)

*Assessment characteristics*

Respondent: Teacher, Child, Parent

Constructs: Duration

Timing: No. of waves of assessment

*Variable(s) created*

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| **Name** | **Description / Coding** |
| ICAD\_PE\_dura | Total time spent on PE (minutes per week)Continuous variable (0 – 1200)Missing (999) |

*Studies / waves included in each harmonised variable*

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| **Name** | **Study** |
| ICAD\_PE\_dura | ALSPAC (1), CLAN (2,3), SPEEDY (1,3) |

Excluded studies / waves

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| **Study / wave****Variable** | **Rationale** |
| CLAN / Wave 1 | The study reported the participation (yes/no) and frequency (times/week) of physical education, but not duration. |
| HEAPS / Wave 2 | The study reported the participation (yes/no) of physical education. |

*Item selection / prioritisation*

Assuming the same construct was assessed, respondent was prioritised as follows: teacher, child, parent.

*Study specific notes*

**CLAN** – The CLAN study comprised two cohorts of children; a ‘younger’ cohort (age 8-11 years at Wave 2) and an ‘older’ cohort (age 13-15 years at Wave 2). At Waves 2 and 3, information on PE duration was reported by parents for the younger cohort and self-reported by the older cohort. A harmonised variable is provided for the whole study, but were derived from the child or parent reported data as appropriate for each cohort. Child-reported responses were used preferentially, with missing observations replaced with parent-reported responses where possible. STATA syntax for the recoding described above will be made available on request.

**SPEEDY** – At Wave 1, information on PE duration was reported by teachers and self-reported by children. Teacher-reported responses were used preferentially. At Wave 3, child self-reports were only provided, hence were used.

STATA syntax for the recoding described above will be made available on request.

*Missing data*

Not applicable.

**Harmonisation Table**

**Construct:** Duration of physical education (minutes per week)

**Variable:** ICAD\_PE\_dura

**Coding:** Continuous variable (0 – 1200)

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| **Study / Wave** | **Source data** |  | **Harmonisation** |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| ALSPACWave: 1 | Description:Time spent on PE/games per week |  |  |  | [sf208a] (hours/week) was converted to ‘minutes/week’ and added to [sf208b] to generate a total duration variable [ICAD\_PE\_dura] (minutes/week). |  |
|  | Respondent: Teacher |  |  |  | Respondent: Teacher |  |
|  | Variable name (unit):sf208 (hour:minute:second/week) | 00:00:00, n = 100:30:00-07:10:00, n = 6942Missing, n = 8500 |  | 0 | If [ICAD\_PE\_dura] == 0 | n = 1 |
|  | sf208a (hours/week) | 0, n = 2461, n = 38512, n = 26343, n = 1334, n = 505, n = 136, n = 147, n = 2Missing, n = 8500 |  | 30-430 | If [ICAD\_PE\_dura] > 0 & [ICAD\_PE\_dura] < 999 | n = 6942 |
|  | sf208b (minutes/week) | 0, n = 34305-56, n = 3513Missing, n = 8500 |  | 999 (missing) | If [ICAD\_PE\_dura] == . | n = 8500 |
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| CLANWave: 2 | Description:How many minutes doing PE class on weekdays during a typical week |  |  |  | [W2\_c2q2iitd] and [W2\_c2q2iite] for child [W2\_p2q40tdc] and [W2\_p2q40tec] for parent variables were added (minutes/week). A total duration variable [ICAD\_PE\_dura] was generated by preferentially using the child variable, and the parent variable was only used to replace missing values in the child variable. |  |
|  | Respondent: Child |  |  |  | Respondent: Child>Parent |  |
|  | Variable name (unit):W2\_c2q2iitd (minutes/weekday) | 0, n = 757-720, n = 2669999 (missing), n = 27Missing, n = 852 |  | 0 | If [ICAD\_PE\_dura] == 0 | n = 145 |
|  | Respondent: Parent |  |  | 1-360 | If [ICAD\_PE\_dura] > 0 & [ICAD\_PE\_dura] < 1200 | n = 377 |
|  | Variable name (unit):W2\_p2q40tdc (minutes/weekday) | 0, n = 681-135, n = 1098888 (not asked – parents of older children), n = 3979999 (missing), n = 11Missing, n = 635 |  | 999 (missing) | If [ICAD\_PE\_dura] == . | [ICAD\_PE\_dura] == 9999 | n = 698 |
|  | Description:How many minutes doing PE class on weekends during a typical week |  |  | 1200 | If [ICAD\_PE\_dura] == 1200 | n = 1 |
|  | Respondent: Child |  |  |  |  |  |
|  | Variable name (unit):W2\_c2q2iite (minutes/weekend) | 0, n = 33630-60, n = 59999 (missing), n = 27Missing, n = 852 |  |  |  |  |
|  | Respondent: Parent |  |  |  |  |  |
|  | Variable name (unit):W2\_p2q40tec (minutes/weekend) | 0, n = 1759-60, n = 38888 (not asked – parents of older children), n = 3979999 (missing), n = 10Missing, n = 635 |  |  |  |  |

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| CLANWave: 3 | Description:How many minutes doing PE class on weekdays during a typical week |  |  |  | [W3\_c3q3iitd] and [W3\_c3q3iite] for child [W3\_p3q39lltd] and [W3\_p3q39llte] for parent variables were added (minutes/week). A total duration variable [ICAD\_PE\_dura] was generated by preferentially using the child variable, and the parent variable was only used to replace missing values in the child variable. |  |
|  | Respondent: Child |  |  |  | Respondent: Child>Parent |  |
|  | Variable name (unit):W3\_c3q3iitd (minutes/weekday) | 0, n = 16625-350, n = 1239999, n = 12Missing, n = 931 |  | 0 | If [ICAD\_PE\_dura] == 0 | n = 225 |
|  | Respondent: Parent |  |  | 25-360 | If [ICAD\_PE\_dura] > 0 & [ICAD\_PE\_dura] < 999 | n = 225 |
|  | Variable name (unit):W3\_p3q39lltd (minutes/weekday) | 0-150, n = 1579998 (not asked of cohort 2), n = 3149999 (missing), n = 15Missing, n = 734 |  | 999 (missing) | If [ICAD\_PE\_dura] == . | [ICAD\_PE\_dura] == 9999 | n = 770 |
|  | Description:How many minutes doing PE class on weekends during a typical week |  |  |  |  |  |
|  | Respondent: Child |  |  |  |  |  |
|  | Variable name (unit):W3\_c3q3iite (minutes/weekend) | 0, n = 287180, n = 19999 (missing), n = 13Missing, n = 919 |  |  |  |  |
|  | Respondent: Parent |  |  |  |  |  |
|  | Variable name (unit):W3\_p3q39llte (minutes/weekend) | 0, n = 1619998 (not asked of cohort 2), n = 3149999 (missing), n = 11Missing, n = 734 |  |  |  |  |
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| SPEEDYWave: 1 | Description:How many hours doing PE at school over the last 7 days |  |  |  | [W1\_a7yr5pe] (hours/week) was converted to ‘minutes/week’. A total duration variable [ICAD\_PE\_dura] was generated by preferentially using the teacher variable. A child variable was not used because missing values were not reported in the teacher variable. |  |
|  | Respondent: Child |  |  |  | Respondent: Teacher>Child |  |
|  | Variable name (unit):W1\_a1acthrs\_clean (hours/session) | -10, n = 13-1 (not answered), n = 90, n = 10561, n = 8622, n = 803, n = 11Missing, n = 33 |  | 0 | If [ICAD\_PE\_dura] == 0 | n = 0 |
|  | Description:How many minutes doing PE at school over the last 7 days |  |  | 90-330 | If [ICAD\_PE\_dura] > 0 & [ICAD\_PE\_dura] < 999 | n = 2064 |
|  | Respondent: Child |  |  | 999 (missing) | If [ICAD\_PE\_dura] == . | [ICAD\_PE\_dura] < 0 | n = 0 |
|  | Variable name (unit):W1\_a1actmins\_clean (minutes/session) | -10, n = 6-1 (not answered), n = 150, n = 9351-60, n = 1075Missing, n = 33 |  |  |  |  |
|  | Description:How many hours doing PE in Year 5 per week |  |  |  |  |  |
|  | Respondent: Teacher |  |  |  |  |  |
|  | Variable name (unit)W1\_a7yr5pe (hours/session) | 1.5, n = 2312, n = 15012.25, n = 122.5, n = 2183, n = 664, n = 155.5., n = 21Missing, n = 0 |  |  |  |  |

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| SPEEDYWave: 3 | Description:How many hours doing PE at school over the last 7 days |  |  |  | [W3\_S3\_q0101pehr\_clean] (hours/week) was converted to ‘minutes/session’, and added to [W3\_S3\_q0101pemin\_clean] to generate a total session length variable (minutes/session). The session length variable was multiplied by the frequency variable (times/week) to generate a total duration variable [ICAD\_PE\_dura]. |  |
|  | Respondent: Child |  |  |  | Respondent: Child |  |
|  | Variable name (unit):W3\_S3\_q0101pehr\_clean (hours/session) | 0, n = 1731, n = 1902, n = 363, n = 14Missing, n = 1651 |  | 0 | If [ICAD\_PE\_dura] == 0 | n = 14 |
|  | Description:How many minutes doing PE at school over the last 7 days |  |  | 20-810 | If [ICAD\_PE\_dura] > 0 & [ICAD\_PE\_dura] < 999 | n = 399 |
|  | Respondent: Child |  |  | 999 (missing) | If [ICAD\_PE\_dura] == . | n = 1651 |
|  | Variable name (unit):W3\_S3\_q0101pemin\_clean (minutes/session) | 0, n = 22810-75, n = 185Missing, n = 1651 |  |  |  |  |