**Ethnicity– harmonisation notes**

*Studies (waves) with relevant data (n=18)*

ALSPAC (1), Ballabeina (2), CHAMPS UK, CHAMPS US, CLAN (1), EYHS Denmark (1,2), EYHS Portugal (1), EYHS Norway (1), EYHS Estonia, HEAPS (1), IBDS (1-6), KISS (1), NHANES 2003-04, NHANES 2005-06, PEACH (1), Pelotas (1), SPEEDY (1), TAAG (1,2,3).

*Assessment characteristics*

Respondent: Child, Parent (mother/father/both), Other (e.g. researcher observation).

Constructs: Nationality, Country of birth, Ethnicity, Race, Skin colour.

*Variable(s) created*

|  |  |
| --- | --- |
| **Name** | **Description / Coding** |
| ICAD\_Ethnicity1 | Child ethnic group.  Coding: White (coded 0) / Other (1) / Missing (999) |
| ICAD\_Ethnicity2 | Child ethnic group.  Coding: White (coded 0) / Black (1) / Asian (2) / Mixed (3) / Other (4) / Missing (999) |
| ICAD\_Ethnicity3 | Child ethnic group.  Coding: White (coded 0) / Black (1) / Other (2) / Missing (999) |
| ICAD\_Ethnicity4 | Child Hispanic / non-Hispanic ethnicity. Restricted to studies conducted in the USA.  Coding: non-Hispanic (coded 0) / Hispanic (1) / Missing (999) |

Variables were derived for all available waves within each study where possible.

*Studies included in each harmonised variable*

|  |  |
| --- | --- |
| **Name** | **Study** |
| ICAD\_Ethnicity1 | ALSPAC (1), CHAMPS UK, CHAMPS US, EYHS Denmark (1,2), EYHS Portugal (1), EYHS Norway (1), EYHS Estonia, IBDS (1-6), NHANES 2003-04, NHANES 2005-06, PEACH (1), Pelotas (1), SPEEDY (1), TAAG (1,2,3). |
| ICAD\_Ethnicity2 | ALSPAC (1), CHAMPS UK, EYHS Denmark (1,2), EYHS Portugal (1), EYHS Norway (1), IBDS (1-6), PEACH (1). |
| ICAD\_Ethnicity3 | ALSPAC (1), CHAMPS UK, CHAMPS US, EYHS Denmark (1,2), EYHS Portugal (1), EYHS Norway (1), IBDS (1-6), NHANES 2003-04, NHANES 2005-06, PEACH (1), TAAG (1-6). |
| ICAD\_Ethnicity4 | IBDS (1-6), NHANES 2003-04, NHANES 2005-06, TAAG (1,2,3). |

*Excluded studies*

|  |  |
| --- | --- |
| **Study / wave**  **Variable(s)** | **Rationale** |
| Ballabeina / wave 2  ICAD\_Ethnicity1  ICAD\_Ethnicity2  ICAD\_Ethnicity3 | Study assessed Mother and Father nationality and country of origin. |
| CLAN / wave 1  ICAD\_Ethnicity1  ICAD\_Ethnicity2  ICAD\_Ethnicity3 | Study assessed Mother and Father country of birth. |
| HEAPS / Wave 1  ICAD\_Ethnicity1  ICAD\_Ethnicity2  ICAD\_Ethnicity3 | Study assessed Mother and Father country of birth. |
| KISS / wave 1  ICAD\_Ethnicity1  ICAD\_Ethnicity2  ICAD\_Ethnicity3 | Study assessed Mother and Father country of origin. |
| CHAMPS US  ICAD\_Ethnicity2 | The submitted variable (ethnicity) did not include response options of ‘mixed’ or ‘Asian’. |
| Pelotas / wave 1  ICAD\_Ethnicity2 | The submitted variable (W1b\_skincol12y’) did not include the response option ‘Asian’. |
| Pelotas / wave 1  ICAD\_Ethnicity3 | The submitted variable (W1b\_skincol12y’) combined ‘black and other’ into a single response category. |
| SPEEDY / Wave 1  ICAD\_Ethnicity2  ICAD\_Ethnicity3 | The items used to assess ethnicity included response options relevant to these two variables but due to low ethnic heterogeneity, the submitted variable (W1\_ethn2) included just two response categories (White / other). To avoid unnecessary duplication of information provided in ICAD\_Ethnicity1, these two variables were not derived. |
| TAAG / waves 1,2,3  ICAD\_Ethnicity2 | The ethnicity variables did not include response options of ‘mixed’ or ‘Asian’. |
| NHANES 2003-04  ICAD\_Ethnicity2 | The obtained variable (ridreth1) did not include the response option ‘Asian’ |
| NHANES 2005-06  ICAD\_Ethnicity2 | The obtained variable (ridreth1) did not include the response option ‘Asian’. |
| EYHS Estonia  ICAD\_Ethnicity2  ICAD\_Ethnicity3 | The item used to assess ethnicity included response options relevant to these two variables by no responses were recorded in the ‘Black’, Pakistan/Indian’, or ‘Other Asian countries’ categories. To avoid unnecessary duplication of information provided in ICAD\_Ethnicity1, these two variables were not derived. |
| CHAMPS US  ICAD\_Ethnicity4 | The submitted variable (ethnicity) did not include a response option of ‘hispanic’ |

*Item selection / prioritisation*

* Studies (or items) that referred to nationality and/or country of birth were excluded from harmonisation as they were considered incompatible (not inferentially equivalent) with ethnicity / race as assessed in other studies.
* None of the included studies collected information on ethnicity from multiple respondents or using multiple items, so it was not necessary to decide upon a priority order for use in creating the harmonised variables.

*Study specific notes*

**ALSPAC** – Two variables pertaining to ethnicity were provided by ALSPAC: mother ethnic group (self-reported during pregnancy) and child ethnic group (derived from mother reports of her own and partners ethnic group during pregnancy). The child ethnicity variable comprises only two groups – white and non-white. Child ethnicity was coded as non-white if either mother or partner ethnicity was reported as anything other than white. ICAD\_Ethnicity1 was coded according to responses from the child ethnicity variable only. For ICAD\_Ethnicity2 and 3, assignment to the ‘white’ group was made on the basis of responses for the child ethnicity variable, whilst all remaining groups were assigned using responses from the mother ethnicity variable. Harmonised variables were recorded with ‘wave 1’ as the time of assessment as this was the nearest wave to their true point of assessment.

**EYHS Denmark** – The EYHS Denmark study comprises three cohorts; two longitudinal cohorts (Cohort ‘a’ assessed in 1997/2003; Cohort ‘c’ assessed in 2003/2009) and one cross-sectional cohort (Cohort ‘b’ assessed in 1997 only). Participants belong to one cohort only. All cohorts were assessed using the same methodology. An additional prefix of ‘a’, ‘b’, ‘c’ has been used alongside the wave (W#) indicator to identify the cohort from which the data were obtained (see harmonisation table, ‘source data’, ‘variable name(s)’.

**IBDS** – Information on ethnicity was obtained at the point of recruitment into the IBDS study. Participants could join the study at any wave; information was provided for participants that joined the study in the first six waves of assessment. Where participants took part in multiple waves, ethnicity was not reassessed at later waves; information was carried forward from the recruitment wave.

**Ethnicity – harmonisation table**

**Construct**: Ethnicity

**Variable**: ICAD\_Ethnicity1

**Coding**: White (coded 0) / Other (1) / Missing (999)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Study / Wave** | **Source data** | |  | **Harmonisation** | | |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| ALSPAC  Wave: 1 | Var’ name:  c804  Mother-reported  Mother and partner ethnicity | White, n=11537  Non-white, n=613  Missing, n=3293 |  | White (0) | If [c804] = White | n=11537 |
| Other (1) | If [c804] = Non-white | n=613 |
| Missing (999) | If [c804] =missing | n=3293 |
|  |  |  |  |  |  |  |
| CHAMPS UK | Var’ name: EthnCode  Information provided by participant’s school | Unknown, n=2  Any other asian, n=1  Bangladeshi, n=3  Indian, n=2  Pakistani, n=30  Blk Carib, n=2  Blk Afr, n=3  Chinese, n=1  Any other mixed, n=1  Wte&Asian, n=8  Wt&Blk Carib, n=2  Any other Wte, n=4  Wte British, n=550  Wte Irish, n=1 |  | White (0) | If [EthnCode] = White British OR Wte Irish OR Any other Wte | n=555 |
|  | Other (1) | If [EthnCode] = Any other asian OR Bangladeshi OR Indian OR Pakistani OR Blk Carib OR Blk Afr OR Chinese OR Any other mixed OR Wte&Asian OR Wt&Blk Carib | n=53 |
|  | Missing (999) | If [EthnCode] = Unknown | n=2 |
|  |  |  |  |  |  |  |
| CHAMPS US | Var’ name: ethnicity  Parent-reported  Childs ethnicity / race | White, n=203  Black, n=289  Other, n=52  Missing, n=26 |  | White (0) | If [ethnicity] = White | n=203 |
|  | Other (1) | If [ethnicity] = Black OR Other | n=341 |
|  | Missing (999) | If [ethnicity] = Missing | n=26 |
|  |  |  |  |  |  |  |
| EYHS Denmark  Wave: 1 | Var’ name(s): W1a\_a6, W1b\_a6  Parent-reported  Childs ethnicity | W1a\_a6:  White, n=539  Black, n=1  Pakistan/Indian, n=7  Other Asian countries, n=2  Other countries, n=32  Missing, n=1037  W1b\_a6:  White, n=388  Black, n=0  Pakistan/Indian, n=1  Other Asian countries, n=7  Other countries, n=25  Missing, n=1197 |  | White (0) | If [W1a\_a6 OR W1b\_a6] = White | n=927 |
|  | Other (1) | If [W1a\_a6 OR W1b\_a6] = Black OR Pakistan/Indian OR Other Asian countries OR Other countries | n=75 |
|  | Missing (999) | If none of the statements above are true | n=616 |
|  |  |  |  |  |  |  |
| EYHS Denmark  Wave: 2 | Var’ name: W2c\_a6  Parent-reported  Childs ethnicity | White, n=402  Black, n=0  Pakistan/Indian, n=1  Other Asian countries, n=5  Other countries, n=20  Missing, n=1190 |  | White (0) | If [W2c\_a6] = White | n=402 |
| Other (1) | If [W2c\_a6] = Black OR Pakistan/Indian OR Other Asian countries OR Other countries | n=26 |
| Missing (999) | If [W2c\_a6] = Missing | n=1190 |
|  |  |  |  |  |  |  |
| EYHS Estonia | Var’ name: a6  Parent-reported  Childs ethnicity | White, n=1054  Black, n=0  Pakistan/Indian, n=0  Other Asian countries, n=0  Other countries, n=30  Missing, n=90 |  | White (0) | If [a6] = White | n=1054 |
|  | Other (1) | If [a6] ≠ White & ≠ Missing | n=30 |
|  | Missing (999) | If [a6] = Missing | n=90 |
|  |  |  |  |  |  |  |
| EYHS Norway  Wave: 1 | Var’ name: a6  Parent-reported  Childs ethnicity | White, n=589  Black, n=19  Pakistan/Indian, n=54  Other Asian countries, n=43  Other countries, n=3  Missing, n=160 |  | White (0) | If [a6] = White | n=589 |
|  | Other (1) | If [a6] ≠ White & ≠ Missing | n=119 |
|  | Missing (999) | If [a6] = Missing | n=160 |
|  |  |  |  |  |  |  |
| EYHS Portugal  Wave: 1 | Var’ name: W1\_a6  Parent-reported  Childs ethnicity | White, n=1051  Black, n=4  Pakistan/Indian, n=1  Other Asian countries, n=0  Other countries, n=18  Missing, n=556 |  | White (0) | If [W1a\_a6] = White | n=1051 |
|  | Other (1) | If [W1a\_a6] ≠ White & ≠Missing | n=23 |
|  | Missing (999) | If [W1a\_a6] = Missing | n=556 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 1 | Var’ name: W1\_Race  Parent-reported  Childs ethnicity / race | White, n=422  Black, n=6  Asian, n=2  Hispanic, n=11  Nat Amer, n=1  Mixed, n=6  Missing, n=180 |  | White (0) | If [W1\_Race] = White | n=422 |
|  | Other (1) | If [W1\_Race] ≠ White & ≠ Missing | n=26 |
|  | Missing (999) | If [W1\_Race] = Missing | n=180 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 2 | Var’ name: W2\_Race  Parent-reported  Childs ethnicity / race | White, n=528  Black, n=10  Asian, n=4  Hispanic, n=13  Nat Amer, n=1  Mixed, n=7  Missing, n=65 |  | White (0) | If [W2\_Race] = White | n=528 |
| Other (1) | If [W2\_Race] ≠ White & ≠ Missing | n=35 |
| Missing (999) | If [W2\_Race] = Missing | n=65 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 3 | Var’ name: W3\_Race  Parent-reported  Childs ethnicity / race | White, n=504  Black, n=8  Asian, n=4  Hispanic, n=14  Nat Amer, n=1  Mixed, n=3  Missing, n=94 |  | White (0) | If [W3\_Race] = White | n=504 |
| Other (1) | If [W3\_Race] ≠ White & ≠ Missing | n=30 |
| Missing (999) | If [W3\_Race] = Missing | n=94 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 4 | Var’ name: W4\_Race  Parent-reported  Childs ethnicity / race | White, n=463  Black, n=7  Asian, n=2  Hispanic, n=13  Nat Amer, n=1  Mixed, n=2  Missing, n=140 |  | White (0) | If [W4\_Race] = White | n=463 |
| Other (1) | If [W4\_Race] ≠ White & ≠ Missing | n=25 |
| Missing (999) | If [W4\_Race] = Missing | n=140 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 5 | Var’ name: W5\_childrace  Parent-reported  Childs ethnicity / race | White, n=381  Black, n=6  Asian, n=2  Hispanic, n=12  Nat Amer, n=1  Mixed, n=3  Missing, n=223 |  | White (0) | If [W5\_childrace] = White | n=381 |
| Other (1) | If [W5\_childrace] ≠ White & ≠ Missing | n=21 |
| Missing (999) | If [W5\_childrace] = Missing | n=226 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 6 | Var’ name: W6\_childrace  Parent-reported  Childs ethnicity / race | White, n=361  Black, n=4  Asian, n=1  Hispanic, n=8  Nat Amer, n=0  Mixed, n=1  Missing, n=253 |  | White (0) | If [W6\_childrace] = White | n=361 |
| Other (1) | If [W6\_childrace] ≠ White & ≠ Missing | n=14 |
| Missing (999) | If [W6\_childrace] = Missing | n=253 |
|  |  |  |  |  |  |  |
| NHANES 2003-04 | Var’ name: ridreth1  Self-report for age >16 yr / adult proxy report for <16yr.  Child race / ethnicity | Mexican American, n=1360  Other Hispanic, n=173  Non-Hispanic White, n=1268  Non-Hispanic Black, n=1475  Other Race - Including Multi-Racial, n=226  Summary statistics limited to only those<18 yr age |  | White (0) | If [ridreth1] = Non-Hispanic White | n=1268 |
|  | Other (1) | If [ridreth1] = Mexican American OR Other Hispanic OR Non-Hispanic Black OR Other Race - Including Multi-Racial | n=3234 |
|  | Missing (999) | N/A | n=0 |
|  |  |  |  |  |  |  |
| NHANES 2005-06 | Var’ name: ridreth1  Self-report for age >16 yr / adult proxy report for <16yr.  Child race / ethnicity | Mexican American, n=1662  Other Hispanic, n=178  Non-Hispanic White, n=1295  Non-Hispanic Black, n=1369  Other Race - Including Multi-Racial, n=281  Summary statistics limited to only those<18 yr age |  | White (0) | If [ridreth1] = Non-Hispanic White | n=1295 |
|  | Other (1) | If [ridreth1] = Mexican American OR Other Hispanic OR Non-Hispanic Black OR Other Race - Including Multi-Racial | n=3490 |
|  | Missing (999) | N/A | n=0 |
|  |  |  |  |  |  |  |
| PEACH  Wave: 1 | Var’ name: W1\_ethnicity  Child ethnicity determined by visual inspection by research team | White, n=1080  Mixed, n=61  Asian, n=63  Black, n=86  White eastern European, n=1  Not coded, n=7  Missing, n=9 |  | White (0) | If [W1\_ethnicity] = White OR White eastern European | n=1081 |
|  | Other (1) | If [W1\_ethnicity] = Mixed OR Asian OR Black | n=210 |
|  | Missing (999) | If [W1\_ethnicity] = Not coded OR Missing | n=16 |
|  |  |  |  |  |  |  |
| Pelotas  Wave: 1 | Var name: W1b\_skincol\_12y  Assessment uncertain  Race / skin colour | White, n=303  Black or mixed, n=127  Others, n=22  Missing, n=4852 |  | White (0) | If [W1b\_skincol\_12y] = White | n=303 |
|  | Other (1) | If [W1b\_skincol\_12y] ≠ White & ≠ Missing | n=149 |
|  | Missing (999) | If [W1b\_skincol\_12y] = Missing | n=4852 |
|  |  |  |  |  |  |  |
| SPEEDY  Wave: 1 | Var name: W1\_ethn2  Parent-reported  Child ethnicity | White, n=1841  Other, n=73  Missing, n=150 |  | White (0) | If [W1\_ethn2] = White | n=1841 |
|  | Other (1) | If [W1\_ethn2] = Other | n=73 |
|  | Missing (999) | If [W1\_ethn2] = Missing | n=150 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 1 | Var name: W1\_race3  Child-reported  Child ethnicity | Black, n=368  White, n=818  Hispanic, n=405  Other, n=204  Missing, n=5807 |  | White (0) | If [W1\_race3] = White | n=818 |
|  | Other (1) | If [W1\_race3] ≠ White & ≠ Missing | n=977 |
|  | Missing (999) | If [W1\_race3] = Missing | n=5807 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 2 | Var name: W2\_race3  Child-reported  Child ethnicity | Black, n=746  White, n=1589  Hispanic, n=714  Other, n=391  Missing, n=4162 |  | White (0) | If [W2\_race3] = White | n=1589 |
| Other (1) | If [W2\_race3] ≠ White & ≠ Missing | n=1851 |
| Missing (999) | If [W2\_race3] = Missing | n=4162 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 3 | Var name: W3\_race3  Child-reported  Child ethnicity | Black, n=624  White, n=1613  Hispanic, n=781  Other, n=456  Missing, n=4128 |  | White (0) | If [W3\_race3] = White | n=1613 |
| Other (1) | If [W3\_race3] ≠ White & ≠ Missing | n=1861 |
| Missing (999) | If [W3\_race3] = Missing | n=4128 |

**Construct**: Ethnicity

**Variable**: ICAD\_Ethnicity2

**Coding**: White (coded 0) / Black (1) / Asian (2) / Mixed (3) / Other (4) / Missing (999)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Study / Wave** | **Source data** | |  | **Harmonisation** | | |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| ALSPAC  Wave: 1 | Var’ name:  c804 (child)  c800 (mother)  Mother-reported  Mother and partner ethnicity | c804:  White, n=11537  Non-white, n=613  Missing, n=3293  c800:  White, n=12075  Black Caribbean, n=76  Black African, n=11  Other black, n=44  Indian, n=54  Pakistani, n=22  Bangladeshi, n=7  Chinese, n=30  Other, n=82  Missing, n=3042 |  | White (0) | If [c804] = White | n=11537 |
| Black (1) | If [c800] = Black Caribbean OR Black African OR Other black | n=131 |
| Asian (2) | If [c800] = Indian OR Pakistani OR Bangladeshi OR Chinese | n=113 |
| Mixed (3) | N/A | N/A |
| Other (4) | If [c800] = Other | n=82 |
| Missing (999) | If none of the statements above are true | N=3580 |
| CHAMPS UK | Var’ name: EthnCode  Information provided by participant’s school | Unknown, n=2  Any other asian, n=1  Bangladeshi, n=3  Indian, n=2  Pakistani, n=30  Blk Carib, n=2  Blk Afr, n=3  Chinese, n=1  Any other mixed, n=1  Wte & Asian, n=8  Wt & Blk Carib, n=2  Any other Wte, n=4  Wte British, n=550  Wte Irish, n=1 |  | White (0) | If [EthnCode] = Wte British OR Any other Wte OR Wte Irish | n=555 |
|  | Black (1) | If [EthnCode] = Blk Carib OR Blk Afr | n=5 |
|  | Asian (2) | If [EthnCode] = Any other asian OR Bangladeshi OR Indian OR Pakistani OR Chinese | n=37 |
|  | Mixed (3) | If [EthnCode] = Any other mixed OR Wte&Asian OR Wt&Blk Carib | n=11 |
|  | Other (4) | N/A | n=0 |
|  | Missing (999) | If [EthnCode] = Unknown | n=2 |
|  |  |  |  |  |  |  |
| EYHS Norway  Wave: 1 | Var’ name: a6  Parent-reported  Child ethnicity | White, n=589  Black, n=19  Pakistan/Indian, n=54  Other Asian countries, n=43  Other countries, n=3  Missing, n=160 |  | White (0) | If [a6] = White | n=589 |
|  | Black (1) | If [a6] = Black | n=19 |
|  | Asian (2) | If [a6] = Pakistan/Indian OR Other Asian countries | n=97 |
|  | Mixed (3) | N/A |  |
|  | Other (4) | If [a6] = Other countries | n=3 |
|  | Missing (999) | If [a6] = Missing | n=160 |
|  |  |  |  |  |  |  |
| EYHS Portugal  Wave: 1 | Var’ name: W1\_a6  Parent-reported  Childs ethnicity | White, n=1051  Black, n=4  Pakistan/Indian, n=1  Other Asian countries, n=0  Other countries, n=18  Missing, n=556 |  | White (0) | If [W1a\_a6] = White | n=1051 |
|  | Black (1) | If [W1a\_a6] = Black | n=4 |
|  | Asian (2) | If [W1a\_a6] = Pakistan/Indian OR Other Asian countries | n=1 |
|  | Mixed (3) | N/A |  |
|  | Other (4) | If [W1a\_a6] = Other countries | n=18 |
|  | Missing (999) | If [W1a\_a6] = Missing | n=556 |
|  |  |  |  |  |  |  |
| EYHS Denmark  Wave: 1 | Var’ name(s): W1a\_a6, W1b\_a6  Parent-reported  Childs ethnicity | W1a\_a6:  White, n=539  Black, n=1  Pakistan/Indian, n=7  Other Asian countries, n=2  Other countries, n=32  Missing, n=1037  W1b\_a6:  White, n=388  Black, n=0  Pakistan/Indian, n=1  Other Asian countries, n=7  Other countries, n=25  Missing, n=1197 |  | White (0) | If [W1a\_a6 OR W1b\_a6] = White | n=927 |
|  | Black (1) | If [W1a\_a6 OR W1b\_a6] = Black | n=1 |
|  | Asian (2) | If [W1a\_a6 OR W1b\_a6] = Pakistan/Indian OR Other Asian countries | n=17 |
|  | Mixed (3) | N/A |  |
|  | Other (4) | If [W1a\_a6 OR W1b\_a6] = Other countries | n=57 |
|  | Missing (999) | If none of the statements above are true | n=616 |
|  |  |  |  |  |  |  |
| EYHS Denmark  Wave: 2 | Var’ name: W2c\_a6  Parent-reported  Childs ethnicity | White, n=402  Black, n=0  Pakistan/Indian, n=1  Other Asian countries, n=5  Other countries, n=20  Missing, n=1190 |  | White (0) | If [W2c\_a6] = White | n=402 |
| Black (1) | If [W2c\_a6] = Black | n=0 |
| Asian (2) | If [W2c\_a6] = Pakistan/Indian OR Other Asian countries | n=6 |
| Mixed (3) | N/A |  |
| Other (4) | If [W2c\_a6] = Other countries | n=20 |
| Missing (999) | If [W2c\_a6] = Missing | n=1190 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 1 | Var’ name: W1\_Race  Parent-reported  Childs ethnicity / race | White, n=422  Black, n=6  Asian, n=2  Hispanic, n=11  Nat Amer, n=1  Mixed, n=6  Missing, n=180 |  | White (0) | If [W1\_Race] = White | n=422 |
|  | Black (1) | If [W1\_Race] = Black | n=6 |
|  | Asian (2) | If [W1\_Race] = Asian | n=2 |
|  | Mixed (3) | If [W1\_Race] = Mixed | n=6 |
|  | Other (4) | If [W1\_Race] = Hispanic OR Nat Amer | n=12 |
|  | Missing (999) | If [W1\_Race] = Missing | n=180 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 2 | Var’ name: W2\_Race  Parent-reported  Childs ethnicity / race | White, n=528  Black, n=10  Asian, n=4  Hispanic, n=13  Nat Amer, n=1  Mixed, n=7  Missing, n=65 |  | White (0) | If [W2\_Race] = White | n=528 |
| Black (1) | If [W2\_Race] = Black | n=10 |
| Asian (2) | If [W2\_Race] = Asian | n=4 |
| Mixed (3) | If [W2\_Race] = Mixed | n=7 |
| Other (4) | If [W2\_Race] = Hispanic OR Nat Amer | n=14 |
| Missing (999) | If [W2\_Race] = Missing | n=65 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 3 | Var’ name: W3\_Race  Parent-reported  Childs ethnicity / race | White, n=504  Black, n=8  Asian, n=4  Hispanic, n=14  Nat Amer, n=1  Mixed, n=3  Missing, n=94 |  | White (0) | If [W3\_Race] = White | n=504 |
| Black (1) | If [W3\_Race] = Black | n=8 |
| Asian (2) | If [W3\_Race] = Asian | n=4 |
| Mixed (3) | If [W3\_Race] = Mixed | n=3 |
| Other (4) | If [W3\_Race] = Hispanic OR Nat Amer | n=15 |
| Missing (999) | If [W3\_Race] = Missing | n=94 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 4 | Var’ name: W4\_Race  Parent-reported  Childs ethnicity / race | White, n=463  Black, n=7  Asian, n=2  Hispanic, n=13  Nat Amer, n=1  Mixed, n=2  Missing, n=140 |  | White (0) | If [W4\_Race] = White | n=463 |
| Black (1) | If [W4\_Race] = Black | n=7 |
| Asian (2) | If [W4\_Race] = Asian | n=2 |
| Mixed (3) | If [W4\_Race] = Mixed | n=2 |
| Other (4) | If [W4\_Race] = Hispanic OR Nat Amer | n=14 |
| Missing (999) | If [W4\_Race] = Missing | n=140 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 5 | Var’ name: W5\_childrace  Parent-reported  Childs ethnicity / race | White, n=381  Black, n=6  Asian, n=2  Hispanic, n=12  Nat Amer, n=1  Mixed, n=3  Missing, n=223 |  | White (0) | If [W5\_childrace] = White | n=381 |
| Black (1) | If [W5\_childrace] = Black | n=6 |
| Asian (2) | If [W5\_childrace] = Asian | n=2 |
| Mixed (3) | If [W5\_childrace] = Mixed | n=3 |
| Other (4) | If [W5\_childrace] = Hispanic OR Nat Amer | n=13 |
| Missing (999) | If [W5\_childrace] = Missing | n=223 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 6 | Var’ name: W6\_childrace  Parent-reported  Childs ethnicity / race | White, n=361  Black, n=4  Asian, n=1  Hispanic, n=8  Nat Amer, n=0  Mixed, n=1  Missing, n=253 |  | White (0) | If [W6\_childrace] = White | n=361 |
| Black (1) | If [W6\_childrace] = Black | n=4 |
| Asian (2) | If [W6\_childrace] = Asian | n=1 |
| Mixed (3) | If [W6\_childrace] = Mixed | n=1 |
| Other (4) | If [W6\_childrace] = Hispanic OR Nat Amer | n=8 |
| Missing (999) | If [W6\_childrace] = Missing | n=253 |
|  |  |  |  |  |  |  |
| PEACH  Wave: 1 | Var’ name: W1\_ethnicity  Child ethnicity determined by visual inspection by research team | White, n=1080  Mixed, n=61  Asian, n=63  Black, n=86  White eastern European, n=1  Not coded, n=7  Missing, n=9 |  | White (0) | If [W1\_ethnicity] = White OR White eastern European | n=1081 |
|  | Black (1) | If [W1\_ethnicity] = Black | n=86 |
|  | Asian (2) | If [W1\_ethnicity] = Asian | n=63 |
|  | Mixed (3) | If [W1\_ethnicity] = Mixed | n=61 |
|  | Other (4) | N/A | n=0 |
|  | Missing (999) | If [W1\_ethnicity] = Not coded OR Missing | n=16 |

**Construct**: Ethnicity

**Variable**: ICAD\_Ethnicity3

**Coding**: White (coded 0) / Black (1) / Other (2) / Missing (999)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Study / Wave** | **Source data** | |  | **Harmonisation** | | |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| ALSPAC  Wave : 1 | Var’ name:  c804 (child)  c800 (mother)  Mother-reported  Mother and partner ethnicity | c804:  White, n=11537  Non-white, n=613  Missing, n=3293  c800:  White, n=12075  Black Caribbean, n=76  Black African, n=11  Other black, n=44  Indian, n=54  Pakistani, n=22  Bangladeshi, n=7  Chinese, n=30  Other, n=82  Missing, n=3042 |  | White (0) | If [c804] = White | n=11537 |
| Black (1) | If [c800] = Black Caribbean OR Black African OR Other black | n=131 |
| Other (2) | If [c800] = Indian OR Pakistani OR Bangladeshi OR Chinese OR Other | n=195 |
| Missing (999) | If none of the statements above are true | n=3580 |
| CHAMPS UK | Var’ name: EthnCode  Information provided by participant’s school | Unknown, n=2  Any other asian, n=1  Bangladeshi, n=3  Indian, n=2  Pakistani, n=30  Blk Carib, n=2  Blk Afr, n=3  Chinese, n=1  Any other mixed, n=1  Wte&Asian, n=8  Wt&Blk Carib, n=2  Any other Wte, n=4  Wte British, n=550  Wte Irish, n=1 |  | White (0) | If [EthnCode] = Wte British | n=555 |
|  | Black (1) | If [EthnCode] = Blk Carib OR Blk Afr | n=5 |
|  | Other (2) | If [EthnCode] = Any other asian OR Bangladeshi OR Indian OR Pakistani OR Chinese OR Any other mixed OR Wte&Asian OR Wt&Blk Carib | n=48 |
| Missing (999) | If [EthnCode] = Unknown | n=2 |
|  |  |  |  |  |  |  |
| CHAMPS US | Var’ name: ethnicity  Parent-reported  Childs ethnicity / race | White, n=203  Black, n=289  Other, n=52  Missing, n=26 |  | White (0) | If [ethnicity] = White | n=203 |
|  | Black (1) | If [ethnicity] = Black | n=289 |
|  | Other (2) | If [ethnicity] = Other | n=52 |
| Missing (999) | If [ethnicity] = Missing | n=26 |
|  |  |  |  |  |  |  |
| EYHS Denmark  Wave: 1 | Var’ name(s): W1a\_a6, W1b\_a6  Parent-reported  Childs ethnicity | W1a\_a6:  White, n=539  Black, n=1  Pakistan/Indian, n=7  Other Asian countries, n=2  Other countries, n=32  Missing, n=1037  W1b\_a6:  White, n=388  Black, n=0  Pakistan/Indian, n=1  Other Asian countries, n=7  Other countries, n=25  Missing, n=1197 |  | White (0) | If [W1a\_a6 OR W1b\_a6] = White | n=927 |
|  | Black (1) | If [W1a\_a6 OR W1b\_a6] = Black | n=1 |
|  | Other (2) | If [W1a\_a6 OR W1b\_a6] = Pakistan/Indian OR Other Asian countries OR Other countries | n=74 |
| Missing (999) | If none of the statements above are true | n=616 |
|  |  |  |  |  |  |  |
| EYHS Denmark  Wave: 2 | Var’ name: W2c\_a6  Parent-reported  Childs ethnicity | White, n=402  Black, n=0  Pakistan/Indian, n=1  Other Asian countries, n=5  Other countries, n=20  Missing, n=1190 |  | White (0) | If [W2c\_a6] = White | n=402 |
| Black (1) | If [W2c\_a6] = Black | n=0 |
| Other (2) | If [W2c\_a6] = Pakistan/Indian OR Other Asian countries OR Other countries | n=26 |
| Missing (999) | If [W2c\_a6] = Missing | n=1190 |
|  |  |  |  |  |  |  |
| EYHS Norway  Wave: 1 | Var’ name: a6  Parent-reported  Childs ethnicity | White, n=589  Black, n=19  Pakistan/Indian, n=54  Other Asian countries, n=43  Other countries, n=3  Missing, n=160 |  | White (0) | If [a6] = White | n=589 |
|  | Black (1) | If [a6] = Black | n=19 |
|  | Other (2) | If [a6] = Pakistan/Indian OR Other Asian countries OR Other countries | n=100 |
| Missing (999) | If [a6] = Missing | n=160 |
|  |  |  |  |  |  |  |
| EYHS Portugal  Wave: 1 | Var’ name: W1\_a6  Parent-reported  Childs ethnicity | White, n=1051  Black, n=4  Pakistan/Indian, n=1  Other Asian countries, n=0  Other countries, n=18  Missing, n=556 |  | White (0) | If [W1a\_a6] = White | n=1051 |
|  | Black (1) | If [W1a\_a6] = Black | n=4 |
|  | Other (2) | If [W1a\_a6] = Pakistan/Indian OR Other Asian countries OR Other countries | n=19 |
| Missing (999) | If [W1a\_a6] = Missing | n=556 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 1 | Var’ name: W1\_Race  Parent-reported  Childs ethnicity / race | White, n=422  Black, n=6  Asian, n=2  Hispanic, n=11  Nat Amer, n=1  Mixed, n=6  Missing, n=180 |  | White (0) | If [W1\_Race] = White | n=422 |
|  | Black (1) | If [W1\_Race] = Black | n=6 |
|  | Other (2) | If [W1\_Race] = Asian OR Hispanic OR Nat Amer OR Mixed | n=20 |
| Missing (999) | If [W1\_Race] = Missing | n=180 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 2 | Var’ name: W2\_Race  Parent-reported  Childs ethnicity / race | White, n=528  Black, n=10  Asian, n=4  Hispanic, n=13  Nat Amer, n=1  Mixed, n=7  Missing, n=65 |  | White (0) | If [W2\_Race] = White | n=528 |
| Black (1) | If [W2\_Race] = Black | n=10 |
| Other (2) | If [W2\_Race] = Asian OR Hispanic OR Nat Amer OR Mixed | n=25 |
| Missing (999) | If [W2\_Race] = Missing | n=65 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 3 | Var’ name: W3\_Race  Parent-reported  Childs ethnicity / race | White, n=504  Black, n=8  Asian, n=4  Hispanic, n=14  Nat Amer, n=1  Mixed, n=3  Missing, n=94 |  | White (0) | If [W3\_Race] = White | n=504 |
| Black (1) | If [W3\_Race] = Black | n=8 |
| Other (2) | If [W3\_Race] = Asian OR Hispanic OR Nat Amer OR Mixed | n=22 |
| Missing (999) | If [W3\_Race] = Missing | n=94 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 4 | Var’ name: W4\_Race  Parent-reported  Childs ethnicity / race | White, n=463  Black, n=7  Asian, n=2  Hispanic, n=13  Nat Amer, n=1  Mixed, n=2  Missing, n=140 |  | White (0) | If [W4\_Race] = White | n=463 |
| Black (1) | If [W4\_Race] = Black | n=7 |
| Other (2) | If [W4\_Race] = Asian OR Hispanic OR Nat Amer OR Mixed | n=18 |
| Missing (999) | If [W4\_Race] = Missing | n=140 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 5 | Var’ name: W5\_childrace  Parent-reported  Childs ethnicity / race | White, n=381  Black, n=6  Asian, n=2  Hispanic, n=12  Nat Amer, n=1  Mixed, n=3  Missing, n=223 |  | White (0) | If [W5\_childrace] = White | n=381 |
| Black (1) | If [W5\_childrace] = Black | n=6 |
| Other (2) | If [W5\_childrace] = Asian OR Hispanic OR Nat Amer OR Mixed | n=18 |
| Missing (999) | If [W5\_childrace] = Missing | n=223 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 6 | Var’ name: W6\_childrace  Parent-reported  Childs ethnicity / race | White, n=361  Black, n=4  Asian, n=1  Hispanic, n=8  Nat Amer, n=0  Mixed, n=1  Missing, n=253 |  | White (0) | If [W6\_childrace] = White | n=361 |
| Black (1) | If [W6\_childrace] = Black | n=4 |
| Other (2) | If [W6\_childrace] = Asian OR Hispanic OR Nat Amer OR Mixed | n=10 |
| Missing (999) | If [W6\_childrace] = Missing | n=253 |
|  |  |  |  |  |  |  |
| NHANES 2003-04 | Var’ name: ridreth1  Self-report for age >16 yr / adult proxy report for <16yr.  Child race / ethnicity | Mexican American, n=1360  Other Hispanic, n=173  Non-Hispanic White, n=1268  Non-Hispanic Black, n=1475  Other Race - Including Multi-Racial, n=226  Summary statistics limited to only those<18 yr age |  | White (0) | If [ridreth1] = Non-Hispanic White | n=1268 |
|  | Black (1) | If [ridreth1] = Non-Hispanic Black | n=1475 |
|  | Other (2) | If [ridreth1] = Mexican American OR Other Hispanic OR Other Race - Including Multi-Racial | n=1759 |
| Missing (999) | N/A | n=0 |
|  |  |  |  |  |  |  |
| NHANES 2005-06 | Var’ name: ridreth1  Self-report for age >16 yr / adult proxy report for <16yr.  Child race / ethnicity | Mexican American, n=1662  Other Hispanic, n=178  Non-Hispanic White, n=1295  Non-Hispanic Black, n=1369  Other Race - Including Multi-Racial, n=281  Summary statistics limited to only those<18 yr age |  | White (0) | If [ridreth1] = Non-Hispanic White | n=1295 |
|  | Black (1) | If [ridreth1] = Non-Hispanic Black | n=1369 |
|  | Other (2) | If [ridreth1] = Mexican American OR Other Hispanic OR Other Race - Including Multi-Racial | n=2121 |
| Missing (999) | N/A | n=0 |
|  |  |  |  |  |  |  |
| PEACH  Wave: 1 | Var’ name: W1\_ethnicity  Child ethnicity determined by visual inspection by research team | White, n=1080  Mixed, n=61  Asian, n=63  Black, n=86  White eastern European, n=1  Not coded, n=7  Missing, n=9 |  | White (0) | If [W1\_ethnicity] = White OR White eastern European | n=1081 |
|  | Black (1) | If [W1\_ethnicity] = Black | n=86 |
|  | Other (2) | If [W1\_ethnicity] = Mixed OR Asian | n=124 |
| Missing (999) | If [W1\_ethnicity] = Not coded OR Missing | n=16 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 1 | Var name: W1\_race3  Child-reported  Child ethnicity | Black, n=368  White, n=818  Hispanic, n=405  Other, n=204  Missing, n=5807 |  | White (0) | If [W1\_race3] = White | n=818 |
|  | Black (1) | If [W1\_race3] = Black | n=368 |
|  | Other (2) | If [W1\_race3] = Hispanic OR Other | n=609 |
| Missing (999) | If [W1\_race3] = Missing | n=5807 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 2 | Var name: W2\_race3  Child-reported  Child ethnicity | Black, n=746  White, n=1589  Hispanic, n=714  Other, n=391  Missing, n=4162 |  | White (0) | If [W2\_race3] = White | n=1589 |
| Black (1) | If [W2\_race3] = Black | n=746 |
| Other (2) | If [W2\_race3] = Hispanic OR Other | n=1105 |
| Missing (999) | If [W2\_race3] = Missing | n=4162 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 3 | Var name: W3\_race3  Child-reported  Child ethnicity | Black, n=624  White, n=1613  Hispanic, n=781  Other, n=456  Missing, n=4128 |  | White (0) | If [W3\_race3] = White | n=1613 |
| Black (1) | If [W3\_race3] = Black | n=624 |
| Other (2) | If [W3\_race3] = Hispanic OR Other | n=1237 |
| Missing (999) | If [W3\_race3] = Missing | n=4128 |

**Construct**: Ethnicity (limited to studies conducted in the USA)

**Variable**: ICAD\_Ethnicity4

**Coding**: non-Hispanic (coded 0) / Hispanic (1) / Missing (999)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Study / Wave** | **Source data** | |  | **Harmonisation** | | |
| Variable(s): name(s), respondent, description | Summary |  | Category | Processing | Summary |
| IBDS  Wave: 1 | Var’ name: W1\_Race  Parent-reported  Childs ethnicity / race | White, n=422  Black, n=6  Asian, n=2  Hispanic, n=11  Nat Amer, n=1  Mixed, n=6  Missing, n=180 |  | Non-Hispanic (0) | If [W1\_Race] = White OR Black OR Asian OR Nat Amer OR Mixed | n=437 |
|  | Hispanic (1) | If [W1\_Race] = Hispanic | n=11 |
|  | Missing (999) | If [W1\_Race] = | n=180 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 2 | Var’ name: W2\_Race  Parent-reported  Childs ethnicity / race | White, n=528  Black, n=10  Asian, n=4  Hispanic, n=13  Nat Amer, n=1  Mixed, n=7  Missing, n=65 |  | Non-Hispanic (0) | If [W2\_Race] = White OR Black OR Asian OR Nat Amer OR Mixed | n=550 |
| Hispanic (1) | If [W2\_Race] = Hispanic | n=13 |
| Missing (999) | If [W2\_Race] = | n=65 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 3 | Var’ name: W3\_Race  Parent-reported  Childs ethnicity / race | White, n=504  Black, n=8  Asian, n=4  Hispanic, n=14  Nat Amer, n=1  Mixed, n=3  Missing, n=94 |  | Non-Hispanic (0) | If [W3\_Race] = White OR Black OR Asian OR Nat Amer OR Mixed | n=520 |
| Hispanic (1) | If [W3\_Race] = Hispanic | n=14 |
| Missing (999) | If [W3\_Race] = | n=94 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 4 | Var’ name: W4\_Race  Parent-reported  Childs ethnicity / race | White, n=463  Black, n=7  Asian, n=2  Hispanic, n=13  Nat Amer, n=1  Mixed, n=2  Missing, n=140 |  | Non-Hispanic (0) | If [W4\_Race] = White OR Black OR Asian OR Nat Amer OR Mixed | n=475 |
| Hispanic (1) | If [W4\_Race] = Hispanic | n=13 |
| Missing (999) | If [W4\_Race] = | n=140 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 5 | Var’ name: W5\_childrace  Parent-reported  Childs ethnicity / race | White, n=381  Black, n=6  Asian, n=2  Hispanic, n=12  Nat Amer, n=1  Mixed, n=3  Missing, n=223 |  | Non-Hispanic (0) | If [W5\_childrace] = White OR Black OR Asian OR Nat Amer OR Mixed | n=393 |
| Hispanic (1) | If [W5\_childrace] = Hispanic | n=12 |
| Missing (999) | If [W5\_childrace] = | n=223 |
|  |  |  |  |  |  |  |
| IBDS  Wave: 6 | Var’ name: W6\_childrace  Parent-reported  Childs ethnicity / race | White, n=361  Black, n=4  Asian, n=1  Hispanic, n=8  Nat Amer, n=0  Mixed, n=1  Missing, n=253 |  | Non-Hispanic (0) | If [W6\_childrace] = White OR Black OR Asian OR Nat Amer OR Mixed | n=367 |
| Hispanic (1) | If [W6\_childrace] = Hispanic | n=8 |
| Missing (999) | If [W6\_childrace] = | n=253 |
|  |  |  |  |  |  |  |
| NHANES 2003-04 | Var’ name: ridreth1  Self-report for age >16 yr / adult proxy report for <16yr.  Child race / ethnicity | Mexican American, n=1360  Other Hispanic, n=173  Non-Hispanic White, n=1268  Non-Hispanic Black, n=1475  Other Race - Including Multi-Racial, n=226  Summary statistics limited to only those<18 yr age |  | Non-Hispanic (0) | If [ridreth1] = Non-Hispanic White OR Non-Hispanic Black OR Other Race - Including Multi-Racial | n=2969 |
|  | Hispanic (1) | If [ridreth1] = Mexican American OR Other Hispanic | n=1533 |
|  | Missing (999) | N/A | n=0 |
|  |  |  |  |  |  |  |
| NHANES 2005-06 | Var’ name: ridreth1  Self-report for age >16 yr / adult proxy report for <16yr.  Child race / ethnicity | Mexican American, n=1662  Other Hispanic, n=178  Non-Hispanic White, n=1295  Non-Hispanic Black, n=1369  Other Race - Including Multi-Racial, n=281  Summary statistics limited to only those<18 yr age |  | Non-Hispanic (0) | If [ridreth1] = Non-Hispanic White OR Non-Hispanic Black OR Other Race - Including Multi-Racial | n=2945 |
|  | Hispanic (1) | If [ridreth1] = Mexican American OR Other Hispanic | n=1840 |
|  | Missing (999) | N/A | n=0 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 1 | Var name: W1\_race3  Child-reported  Child ethnicity | Black, n=368  White, n=818  Hispanic, n=405  Other, n=204  Missing, n=5807 |  | Non-Hispanic (0) | If [W1\_race3] = Black OR White OR Other | n=1390 |
|  | Hispanic (1) | If [W1\_race3] = Hispanic | n=405 |
|  | Missing (999) | If [W1\_race3] = Missing | n=5807 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 2 | Var name: W2\_race3  Child-reported  Child ethnicity | Black, n=746  White, n=1589  Hispanic, n=714  Other, n=391  Missing, n=4162 |  | Non-Hispanic (0) | If [W2\_race3] = Black OR White OR Other | n=2726 |
| Hispanic (1) | If [W2\_race3] = Hispanic | n=714 |
| Missing (999) | If [W2\_race3] = Missing | n=4162 |
|  |  |  |  |  |  |  |
| TAAG  Wave: 3 | Var name: W3\_race3  Child-reported  Child ethnicity | Black, n=624  White, n=1613  Hispanic, n=781  Other, n=456  Missing, n=4128 |  | Non-Hispanic (0) | If [W3\_race3] = Black OR White OR Other | n=2693 |
| Hispanic (1) | If [W3\_race3] = Hispanic | n=781 |
| Missing (999) | If [W3\_race3] = Missing | n=4128 |