**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 2ICAD\_Ethnicity1ICAD\_Ethnicity2ICAD\_Ethnicity3 | Study assessed Mother and Father nationality and country of origin.  |
| CLAN / wave 1ICAD\_Ethnicity1ICAD\_Ethnicity2ICAD\_Ethnicity3 | Study assessed Mother and Father country of birth.  |
| HEAPS / Wave 1ICAD\_Ethnicity1ICAD\_Ethnicity2ICAD\_Ethnicity3 | Study assessed Mother and Father country of birth.  |
| KISS / wave 1ICAD\_Ethnicity1ICAD\_Ethnicity2ICAD\_Ethnicity3 | Study assessed Mother and Father country of origin.  |
| CHAMPS USICAD\_Ethnicity2 | The submitted variable (ethnicity) did not include response options of ‘mixed’ or ‘Asian’.  |
| Pelotas / wave 1ICAD\_Ethnicity2 | The submitted variable (W1b\_skincol12y’) did not include the response option ‘Asian’.  |
| Pelotas / wave 1ICAD\_Ethnicity3 | The submitted variable (W1b\_skincol12y’) combined ‘black and other’ into a single response category. |
| SPEEDY / Wave 1ICAD\_Ethnicity2ICAD\_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 1,2,3ICAD\_Ethnicity2 | The ethnicity variables did not include response options of ‘mixed’ or ‘Asian’.  |
| NHANES 2003-04ICAD\_Ethnicity2 | The obtained variable (ridreth1) did not include the response option ‘Asian’ |
| NHANES 2005-06ICAD\_Ethnicity2 | The obtained variable (ridreth1) did not include the response option ‘Asian’.  |
| EYHS EstoniaICAD\_Ethnicity2ICAD\_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 USICAD\_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 |
| ALSPACWave: 1 | Var’ name:c804 Mother-reportedMother and partner ethnicity | White, n=11537Non-white, n=613Missing, 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: EthnCodeInformation provided by participant’s school | Unknown, n=2Any other asian, n=1Bangladeshi, n=3Indian, n=2Pakistani, n=30Blk Carib, n=2Blk Afr, n=3Chinese, n=1Any other mixed, n=1Wte&Asian, n=8Wt&Blk Carib, n=2Any other Wte, n=4Wte British, n=550Wte 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: ethnicityParent-reportedChilds ethnicity / race | White, n=203Black, n=289Other, n=52Missing, 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 DenmarkWave: 1 | Var’ name(s): W1a\_a6, W1b\_a6Parent-reportedChilds ethnicity | W1a\_a6:White, n=539Black, n=1Pakistan/Indian, n=7Other Asian countries, n=2Other countries, n=32Missing, n=1037W1b\_a6:White, n=388Black, n=0Pakistan/Indian, n=1Other Asian countries, n=7Other countries, n=25Missing, 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 DenmarkWave: 2 | Var’ name: W2c\_a6Parent-reportedChilds ethnicity | White, n=402Black, n=0Pakistan/Indian, n=1Other Asian countries, n=5Other countries, n=20Missing, 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: a6Parent-reportedChilds ethnicity | White, n=1054Black, n=0Pakistan/Indian, n=0Other Asian countries, n=0Other countries, n=30Missing, 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 NorwayWave: 1 | Var’ name: a6Parent-reportedChilds ethnicity | White, n=589Black, n=19Pakistan/Indian, n=54Other Asian countries, n=43Other countries, n=3Missing, 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 PortugalWave: 1 | Var’ name: W1\_a6Parent-reportedChilds ethnicity | White, n=1051Black, n=4Pakistan/Indian, n=1Other Asian countries, n=0Other countries, n=18Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 1 | Var’ name: W1\_RaceParent-reportedChilds ethnicity / race | White, n=422Black, n=6Asian, n=2Hispanic, n=11Nat Amer, n=1Mixed, n=6Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 2 | Var’ name: W2\_RaceParent-reportedChilds ethnicity / race | White, n=528Black, n=10Asian, n=4Hispanic, n=13Nat Amer, n=1Mixed, n=7Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 3 | Var’ name: W3\_RaceParent-reportedChilds ethnicity / race | White, n=504Black, n=8Asian, n=4Hispanic, n=14Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 4 | Var’ name: W4\_RaceParent-reportedChilds ethnicity / race | White, n=463Black, n=7Asian, n=2Hispanic, n=13Nat Amer, n=1Mixed, n=2Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 5 | Var’ name: W5\_childraceParent-reportedChilds ethnicity / race | White, n=381Black, n=6Asian, n=2Hispanic, n=12Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 6 | Var’ name: W6\_childraceParent-reportedChilds ethnicity / race | White, n=361Black, n=4Asian, n=1Hispanic, n=8Nat Amer, n=0Mixed, n=1Missing, 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: ridreth1Self-report for age >16 yr / adult proxy report for <16yr.Child race / ethnicity | Mexican American, n=1360Other Hispanic, n=173Non-Hispanic White, n=1268Non-Hispanic Black, n=1475Other Race - Including Multi-Racial, n=226Summary 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: ridreth1Self-report for age >16 yr / adult proxy report for <16yr.Child race / ethnicity | Mexican American, n=1662Other Hispanic, n=178Non-Hispanic White, n=1295Non-Hispanic Black, n=1369Other Race - Including Multi-Racial, n=281Summary 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 |
|  |  |  |  |  |  |  |
| PEACHWave: 1 | Var’ name: W1\_ethnicityChild ethnicity determined by visual inspection by research team | White, n=1080Mixed, n=61Asian, n=63Black, n=86White eastern European, n=1Not coded, n=7Missing, 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 |
|  |  |  |  |  |  |  |
| PelotasWave: 1 | Var name: W1b\_skincol\_12yAssessment uncertainRace / skin colour | White, n=303Black or mixed, n=127Others, n=22Missing, 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 |
|  |  |  |  |  |  |  |
| SPEEDYWave: 1 | Var name: W1\_ethn2Parent-reportedChild ethnicity | White, n=1841Other, n=73Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 1 | Var name: W1\_race3Child-reportedChild ethnicity | Black, n=368White, n=818Hispanic, n=405Other, n=204Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 2 | Var name: W2\_race3Child-reportedChild ethnicity | Black, n=746White, n=1589Hispanic, n=714Other, n=391Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 3 | Var name: W3\_race3Child-reportedChild ethnicity | Black, n=624White, n=1613Hispanic, n=781Other, n=456Missing, 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 |
| ALSPACWave: 1 | Var’ name:c804 (child)c800 (mother)Mother-reportedMother and partner ethnicity | c804:White, n=11537Non-white, n=613Missing, n=3293c800:White, n=12075Black Caribbean, n=76Black African, n=11Other black, n=44Indian, n=54Pakistani, n=22Bangladeshi, n=7Chinese, n=30Other, n=82Missing, 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: EthnCodeInformation provided by participant’s school | Unknown, n=2Any other asian, n=1Bangladeshi, n=3Indian, n=2Pakistani, n=30Blk Carib, n=2Blk Afr, n=3Chinese, n=1Any other mixed, n=1Wte & Asian, n=8Wt & Blk Carib, n=2Any other Wte, n=4Wte British, n=550Wte 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 NorwayWave: 1 | Var’ name: a6Parent-reportedChild ethnicity | White, n=589Black, n=19Pakistan/Indian, n=54Other Asian countries, n=43Other countries, n=3Missing, 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 PortugalWave: 1 | Var’ name: W1\_a6Parent-reportedChilds ethnicity | White, n=1051Black, n=4Pakistan/Indian, n=1Other Asian countries, n=0Other countries, n=18Missing, 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 DenmarkWave: 1 | Var’ name(s): W1a\_a6, W1b\_a6Parent-reportedChilds ethnicity | W1a\_a6:White, n=539Black, n=1Pakistan/Indian, n=7Other Asian countries, n=2Other countries, n=32Missing, n=1037W1b\_a6:White, n=388Black, n=0Pakistan/Indian, n=1Other Asian countries, n=7Other countries, n=25Missing, 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 DenmarkWave: 2 | Var’ name: W2c\_a6Parent-reportedChilds ethnicity | White, n=402Black, n=0Pakistan/Indian, n=1Other Asian countries, n=5Other countries, n=20Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 1 | Var’ name: W1\_RaceParent-reportedChilds ethnicity / race | White, n=422Black, n=6Asian, n=2Hispanic, n=11Nat Amer, n=1Mixed, n=6Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 2 | Var’ name: W2\_RaceParent-reportedChilds ethnicity / race | White, n=528Black, n=10Asian, n=4Hispanic, n=13Nat Amer, n=1Mixed, n=7Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 3 | Var’ name: W3\_RaceParent-reportedChilds ethnicity / race | White, n=504Black, n=8Asian, n=4Hispanic, n=14Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 4 | Var’ name: W4\_RaceParent-reportedChilds ethnicity / race | White, n=463Black, n=7Asian, n=2Hispanic, n=13Nat Amer, n=1Mixed, n=2Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 5 | Var’ name: W5\_childraceParent-reportedChilds ethnicity / race | White, n=381Black, n=6Asian, n=2Hispanic, n=12Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 6 | Var’ name: W6\_childraceParent-reportedChilds ethnicity / race | White, n=361Black, n=4Asian, n=1Hispanic, n=8Nat Amer, n=0Mixed, n=1Missing, 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 |
|  |  |  |  |  |  |  |
| PEACHWave: 1 | Var’ name: W1\_ethnicityChild ethnicity determined by visual inspection by research team | White, n=1080Mixed, n=61Asian, n=63Black, n=86White eastern European, n=1Not coded, n=7Missing, 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 |
| ALSPACWave : 1 | Var’ name:c804 (child)c800 (mother)Mother-reportedMother and partner ethnicity | c804:White, n=11537Non-white, n=613Missing, n=3293c800:White, n=12075Black Caribbean, n=76Black African, n=11Other black, n=44Indian, n=54Pakistani, n=22Bangladeshi, n=7Chinese, n=30Other, n=82Missing, 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: EthnCodeInformation provided by participant’s school | Unknown, n=2Any other asian, n=1Bangladeshi, n=3Indian, n=2Pakistani, n=30Blk Carib, n=2Blk Afr, n=3Chinese, n=1Any other mixed, n=1Wte&Asian, n=8Wt&Blk Carib, n=2Any other Wte, n=4Wte British, n=550Wte 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: ethnicityParent-reportedChilds ethnicity / race | White, n=203Black, n=289Other, n=52Missing, 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 DenmarkWave: 1 | Var’ name(s): W1a\_a6, W1b\_a6Parent-reportedChilds ethnicity | W1a\_a6:White, n=539Black, n=1Pakistan/Indian, n=7Other Asian countries, n=2Other countries, n=32Missing, n=1037W1b\_a6:White, n=388Black, n=0Pakistan/Indian, n=1Other Asian countries, n=7Other countries, n=25Missing, 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 DenmarkWave: 2 | Var’ name: W2c\_a6Parent-reportedChilds ethnicity | White, n=402Black, n=0Pakistan/Indian, n=1Other Asian countries, n=5Other countries, n=20Missing, 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 NorwayWave: 1 | Var’ name: a6Parent-reportedChilds ethnicity | White, n=589Black, n=19Pakistan/Indian, n=54Other Asian countries, n=43Other countries, n=3Missing, 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 PortugalWave: 1 | Var’ name: W1\_a6Parent-reportedChilds ethnicity | White, n=1051Black, n=4Pakistan/Indian, n=1Other Asian countries, n=0Other countries, n=18Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 1 | Var’ name: W1\_RaceParent-reportedChilds ethnicity / race | White, n=422Black, n=6Asian, n=2Hispanic, n=11Nat Amer, n=1Mixed, n=6Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 2 | Var’ name: W2\_RaceParent-reportedChilds ethnicity / race | White, n=528Black, n=10Asian, n=4Hispanic, n=13Nat Amer, n=1Mixed, n=7Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 3 | Var’ name: W3\_RaceParent-reportedChilds ethnicity / race | White, n=504Black, n=8Asian, n=4Hispanic, n=14Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 4 | Var’ name: W4\_RaceParent-reportedChilds ethnicity / race | White, n=463Black, n=7Asian, n=2Hispanic, n=13Nat Amer, n=1Mixed, n=2Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 5 | Var’ name: W5\_childraceParent-reportedChilds ethnicity / race | White, n=381Black, n=6Asian, n=2Hispanic, n=12Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 6 | Var’ name: W6\_childraceParent-reportedChilds ethnicity / race | White, n=361Black, n=4Asian, n=1Hispanic, n=8Nat Amer, n=0Mixed, n=1Missing, 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: ridreth1Self-report for age >16 yr / adult proxy report for <16yr.Child race / ethnicity | Mexican American, n=1360Other Hispanic, n=173Non-Hispanic White, n=1268Non-Hispanic Black, n=1475Other Race - Including Multi-Racial, n=226Summary 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: ridreth1Self-report for age >16 yr / adult proxy report for <16yr.Child race / ethnicity | Mexican American, n=1662Other Hispanic, n=178Non-Hispanic White, n=1295Non-Hispanic Black, n=1369Other Race - Including Multi-Racial, n=281Summary 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 |
|  |  |  |  |  |  |  |
| PEACHWave: 1 | Var’ name: W1\_ethnicityChild ethnicity determined by visual inspection by research team | White, n=1080Mixed, n=61Asian, n=63Black, n=86White eastern European, n=1Not coded, n=7Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 1 | Var name: W1\_race3Child-reportedChild ethnicity | Black, n=368White, n=818Hispanic, n=405Other, n=204Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 2 | Var name: W2\_race3Child-reportedChild ethnicity | Black, n=746White, n=1589Hispanic, n=714Other, n=391Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 3 | Var name: W3\_race3Child-reportedChild ethnicity | Black, n=624White, n=1613Hispanic, n=781Other, n=456Missing, 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 |
| IBDSWave: 1 | Var’ name: W1\_RaceParent-reportedChilds ethnicity / race | White, n=422Black, n=6Asian, n=2Hispanic, n=11Nat Amer, n=1Mixed, n=6Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 2 | Var’ name: W2\_RaceParent-reportedChilds ethnicity / race | White, n=528Black, n=10Asian, n=4Hispanic, n=13Nat Amer, n=1Mixed, n=7Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 3 | Var’ name: W3\_RaceParent-reportedChilds ethnicity / race | White, n=504Black, n=8Asian, n=4Hispanic, n=14Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 4 | Var’ name: W4\_RaceParent-reportedChilds ethnicity / race | White, n=463Black, n=7Asian, n=2Hispanic, n=13Nat Amer, n=1Mixed, n=2Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 5 | Var’ name: W5\_childraceParent-reportedChilds ethnicity / race | White, n=381Black, n=6Asian, n=2Hispanic, n=12Nat Amer, n=1Mixed, n=3Missing, 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 |
|  |  |  |  |  |  |  |
| IBDSWave: 6 | Var’ name: W6\_childraceParent-reportedChilds ethnicity / race | White, n=361Black, n=4Asian, n=1Hispanic, n=8Nat Amer, n=0Mixed, n=1Missing, 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: ridreth1Self-report for age >16 yr / adult proxy report for <16yr.Child race / ethnicity | Mexican American, n=1360Other Hispanic, n=173Non-Hispanic White, n=1268Non-Hispanic Black, n=1475Other Race - Including Multi-Racial, n=226Summary 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: ridreth1Self-report for age >16 yr / adult proxy report for <16yr.Child race / ethnicity | Mexican American, n=1662Other Hispanic, n=178Non-Hispanic White, n=1295Non-Hispanic Black, n=1369Other Race - Including Multi-Racial, n=281Summary 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 1 | Var name: W1\_race3Child-reportedChild ethnicity | Black, n=368White, n=818Hispanic, n=405Other, n=204Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 2 | Var name: W2\_race3Child-reportedChild ethnicity | Black, n=746White, n=1589Hispanic, n=714Other, n=391Missing, 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 |
|  |  |  |  |  |  |  |
| TAAGWave: 3 | Var name: W3\_race3Child-reportedChild ethnicity | Black, n=624White, n=1613Hispanic, n=781Other, n=456Missing, 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 |