

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) | |
|--|---|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|--|
| Sociodemographic economic characteristics-Ethnicity | | | | | | | | | | | | | | | |
| SDC_EB_ABORIGINAL | Participant's ethnic background is Aboriginal (e.g. First Nations, Metis, Inuit). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_ARAB | Participant's ethnic background is Arab (e.g. Egypt, Iraq, Jordan, Lebanon). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_BLACK | Participant's ethnic background is Black (African or Caribbean descent). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_E_ASIAN | Participant's ethnic background is East Asian (e.g. China, Japan, Korea, Taiwan). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_FILIPINO | Participant's ethnic background is Filipino. | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_JEWISH | Participant's ethnic background is Jewish. | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_LATIN | Participant's ethnic background is Latin American/Hispanic). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_OTHER | Participant has another ethnic background. | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_SE_ASIAN | Participant's ethnic background is Southeast Asian (e.g. Malaysia, Indonesia, Viet Nam). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_S_ASIAN | Participant's ethnic background is South Asian (e.g. India, Sri Lanka, Pakistan, Bangladesh). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_WHITE | Participant's ethnic background is White (European descent). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_W_ASIAN | Participant's ethnic background is West Asian (e.g. Turkey, Iran, Afghanistan). | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_CAT | Participant's ethnic background | C | C | I | C | C | C | C | C | C | C | C | C | 11 (91.7%) | |
| SDC_EB_F_CAT | Father's ethnic background | I | C | I | C | I | C | I | C | C | C | C | I | 7 (58.3%) | |
| SDC_EB_M_CAT | Mother's ethnic background | I | C | I | C | I | C | I | C | C | C | C | I | 7 (58.3%) | |
| Sociodemographic economic characteristics-Language | | | | | | | | | | | | | | | |
| SDC_LANG_ABORIGINAL | Language first learned - Aboriginal language(s) | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_ARABIC | Language first learned - Arabic | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_BENGALI | Language first learned - Bengali | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_CANTONESE | Language first learned - Cantonese | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_DANISH | Language first learned - Danish | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_DUTCH | Language first learned - Dutch | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_ENGLISH | Language first learned - English | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_FARSI_PERSIAN | Language first learned - Farsi/Persian | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_FINNISH | Language first learned - Finnish | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_FRENCH | Language first learned - French | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_GAELIC | Language first learned - Gaelic | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_GERMAN | Language first learned - German | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_GREEK | Language first learned - Greek | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_HINDI | Language first learned - Hindi | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_HUNGARIAN | Language first learned - Hungarian | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_ICELANDIC | Language first learned - Icelandic | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_ITALIAN | Language first learned - Italian | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_KOREAN | Language first learned - Korean | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_MANDARIN | Language first learned - Mandarin | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_NORWEGIAN | Language first learned - Norwegian | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_OTHER | Language first learned - Other | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_OTSP | Language first learned, Other specify | C | C | C | C | C | C | I | I | C | C | C | C | 10 (83.3%) | |
| SDC_LANG_POLISH | Language first learned - Polish | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_PORTUGUESE | Language first learned - Portuguese | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_PUNJABI | Language first learned - Punjabi | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_RUSSIAN | Language first learned - Russian | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_SPANISH | Language first learned - Spanish | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_SWEDISH | Language first learned - Swedish | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_TAGALOG_FILIPINO | Language first learned - Tagalog/Filipino | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_TAMIL | Language first learned - Tamil | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_UKRAINIAN | Language first learned - Ukrainian | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_URDU | Language first learned - Urdu | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_VIETNAMESE | Language first learned - Vietnamese | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| SDC_LANG_WELSH | Language first learned - Welsh | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| Sociodemographic economic characteristics-Labour retirement | | | | | | | | | | | | | | | |
| WRK_EMPLOYMENT | Employment status | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| WRK_FULL_TIME | Full-time employed | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| WRK_HOME_FAMILY | Looking after home/family | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) | |
| WRK_IND_TYPE_CUR_CAT | Current type of industry - categorical | I | C | C | I | I | I | I | C | I | I | I | I | 3 (25%) | |
| WRK_IND_TYPE_CUR_OPEN | Current type of industry - open text | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) | |
| WRK_IND_TYPE_LONGEST_CAT | Type of industry for occupation of longest duration - categorical | I | I | C | I | I | I | I | C | I | I | I | I | 2 (16.7%) | |
| WRK_IND_TYPE_LONGEST_OPEN | Type of industry for occupation of longest duration - open text | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) | |
| WRK_JOB_AGE_CUR | Age started current job | C | I | C | C | C | C | I | C | C | C | C | I | 9 (75%) | |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|---|--|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| WRK_JOB_CUR_LONGEST | Current occupation held for longest duration | C | I | C | C | C | C | I | C | C | C | C | I | 9 (75%) |
| WRK_JOB_LONGEST_AGE_START | Age started job of longest duration | I | I | C | I | I | I | I | C | C | I | I | I | 3 (25%) |
| WRK_JOB_LONGEST_AGE_STOP | Age stopped job of longest duration | I | I | C | I | I | I | I | C | C | I | I | I | 3 (25%) |
| WRK_JOB_TITLE_CUR_OPEN | Current job title - open text | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WRK_JOB_TITLE_LONGEST_OPEN | Job title for occupation of longest duration - open text | C | I | C | C | C | C | I | I | I | C | C | I | 7 (58.3%) |
| WRK_JOB_TYPE_CUR_CAT | Current type of job - categorical | I | I | I | I | I | I | C | C | C | I | I | C | 4 (33.3%) |
| WRK_JOB_TYPE_LONGEST_CAT | Type of job held for longest duration - categorical | I | I | I | I | I | I | C | C | C | I | I | I | 2 (16.7%) |
| WRK_PART_TIME | Part-time employed | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WRK_RETIREMENT | Retired | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WRK_SCHEDULE_CUR_CAT | Current working schedule | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WRK_SCHEDULE_CUR_OTSP | Current working schedule, other specify | C | C | C | C | C | C | C | I | I | C | C | C | 10 (83.3%) |
| WRK_SCHEDULE_LONGEST_CAT | Working schedule for occupation held longest time | C | I | C | C | C | C | I | C | C | C | C | I | 9 (75%) |
| WRK_SCHEDULE_LONGEST_OTSP | Working schedule for occupation held longest time, other specify | C | I | C | C | C | C | I | I | I | C | C | I | 7 (58.3%) |
| WRK_STUDENT | Student | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WRK_UNABLE | Unable to work | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WRK_UNEMPLOYED | Unemployed | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WRK_UNPAID | Doing unpaid work | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Birth place | | | | | | | | | | | | | | |
| SDC_BIRTH_COUNTRY | Participant's country of birth | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_BIRTH_COUNTRY_F | Father's country of birth | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_BIRTH_COUNTRY_FF | Paternal grandfather's country of birth | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_FF_OTSP | Paternal grandfather's country of birth, other specify | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_FM | Paternal grandmother's country of birth | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_FM_OTSP | Paternal grandmother's country of birth, other specify | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_F_OTSP | Father's country of birth, other specify | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_BIRTH_COUNTRY_M | Mother's country of birth | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_BIRTH_COUNTRY_MF | Maternal grandfather's country of birth | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_MF_OTSP | Maternal grandfather's country of birth, other specify | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_MM | Maternal grandmother's country of birth | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_MM_OTSP | Maternal grandmother's country of birth, other specify | C | C | I | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| SDC_BIRTH_COUNTRY_M_OTSP | Mother's country of birth, other specify | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_BIRTH_COUNTRY_OTSP | Participant's country of birth, other specify | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Family and household structure | | | | | | | | | | | | | | |
| SDC_BROTHERS_NB | Number of biological brothers | C | C | I | C | C | C | C | I | I | C | C | C | 9 (75%) |
| SDC_HOUSEHOLD_ADULTS_NB | Number of adults in the household | C | C | C | C | C | C | C | C | C | I | C | C | 11 (91.7%) |
| SDC_HOUSEHOLD_ADULTS_NB_CAT | Number of adults in the household - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_HOUSEHOLD_CHILDREN_NB | Number of children in the household | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| SDC_HOUSEHOLD_CHILDREN_NB_CAT | Number of children in the household - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_SIB_NB | Number of biological siblings | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| SDC_SIB_NB_CAT | Number of biological siblings - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_SIB_OLDER_NB | Number of siblings older than participant | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| SDC_SIB_OLDER_NB_CAT | Number of siblings older than participant - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_SISTERS_NB | Number of biological sisters | C | C | I | C | C | C | C | I | I | C | C | C | 9 (75%) |
| Sociodemographic economic characteristics-Possession and benefits | | | | | | | | | | | | | | |
| SDC_INCOME | Household income before taxes | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_INCOME_IND_NB | Number of individuals supported by income | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| SDC_INCOME_IND_NB_CAT | Number of individuals supported by income - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Education | | | | | | | | | | | | | | |
| SDC_EDU_LEVEL | Highest level of education completed | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SDC_EDU_LEVEL_AGE | Age highest level education completed | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Age | | | | | | | | | | | | | | |
| SDC_AGE_CALC | Age | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Marital status | | | | | | | | | | | | | | |
| SDC_MARITAL_STATUS | Marital status | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Other sociodemographic | | | | | | | | | | | | | | |
| SDC_ADOPTED_CHILD | Adopted | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Residence | | | | | | | | | | | | | | |
| SDC_ARRIVAL_AGE | Age of arrival in Canada | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Sex | | | | | | | | | | | | | | |
| SDC_GENDER | Gender | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Sociodemographic economic characteristics-Twin | | | | | | | | | | | | | | |
| SDC_MULTIPLE_BIRTH | Child of a multiple birth | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Lifestyle behaviours-Physical activity | | | | | | | | | | | | | | |
| PA_LEVEL_LONG | Total physical activity level | I | C | C | I | I | I | C | C | I | I | I | C | 5 (41.7%) |
| PA_LEVEL_SHORT | Total physical activity level | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |
| PA_SIT_AVG_TIME_DAY | Average sitting time per day | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| PA_SIT_TIME_WKDAY | Average sitting time on week day | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| PA_SIT_TIME_WKEND | Average sitting time on weekend day | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| PA_TOTAL_LONG | Total physical activity MET-minutes/week | I | C | C | I | I | I | C | C | I | I | I | C | 5 (41.7%) |
| PA_TOTAL_MOD_LONG | Total moderate activities MET-minutes/week | I | C | C | I | I | I | C | C | I | I | I | C | 5 (41.7%) |
| PA_TOTAL_MOD_SHORT | Total moderate activities MET-minutes/week | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |
| PA_TOTAL_SHORT | Total physical activity MET-minutes/week | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|-------------------------------------|---|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| PA_TOTAL_SIT_TIME | Total sitting time per week | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| PA_TOTAL_VIG_LONG | Total vigorous activities MET-minutes/week | I | C | C | I | I | I | C | C | I | I | I | C | 5 (41.7%) |
| PA_TOTAL_VIG_SHORT | Total vigorous activities MET-minutes/week | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |
| PA_TOTAL_WALK_LONG | Total walking MET-minutes/week | I | C | C | I | I | I | C | C | I | I | I | C | 5 (41.7%) |
| PA_TOTAL_WALK_SHORT | Total walking MET-minutes/week | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |
| Lifestyle behaviours-Tobacco | | | | | | | | | | | | | | |
| SMK_BETEL_CUR | Currently uses betel nut | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_BETEL_EVER | Ever used betel nut | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIGAR_CUR | Currently smokes cigars | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIGAR_EVER | Ever smoked cigars | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_CUR_FREQ | Current cigarette smoker frequency | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_DAILY_AVG_QTY | Number of cigarettes smoked over time - current daily smokers | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_CIG_DAILY_AVG_QTY_26 | Number of cigarettes smoked over time, if 26 or more - current daily smokers | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_CIG_DAILY_CUR_DUR | Duration daily cigarettes smoking - current daily smokers | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_CIG_DAILY_CUR_ONSET | Age first started smoking daily - current daily smokers | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_DAILY_CUR_QTY | Number of cigarettes smoked per day - current daily smokers | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_DAILY_CUR_QTY_26 | Number of cigarettes smoked per day if 26 or more - current daily smokers | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| SMK_CIG_EVER | Ever smoked 100 cigarettes or more | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_FORMER_DAILY | Ever smoked cigarettes daily - current non-daily smokers | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_FORMER_DAILY_CESSATION | Period since last smoked cigarettes daily - former daily smokers | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_CIG_FORMER_DAILY_DUR | Duration of daily cigarettes smoking - former daily smokers | C | C | I | C | C | C | I | I | I | C | C | I | 7 (58.3%) |
| SMK_CIG_FORMER_DAILY_ONSET | Age started smoking cigarettes daily - former daily smokers | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_FORMER_DAILY_QTY | Number of cigarettes smoked per day - former daily smokers | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_CIG_FORMER_DAILY_QTY_26 | Number of cigarettes smoked per day, if 26 or more - former daily smokers | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_CIG_HEAVIEST_DUR | Duration heaviest cigarettes consumption - current daily and former daily smokers | I | C | C | I | I | I | C | C | I | I | I | C | 5 (41.7%) |
| SMK_CIG_HEAVIEST_QTY | Number of cigarettes smoked per day, heaviest quantity - current daily or former daily smokers | I | C | C | I | I | I | C | C | C | I | I | C | 6 (50%) |
| SMK_CIG_HEAVIEST_QTY_26 | Number of cigarettes smoked per day, heaviest quantity, if 26 or more - current daily or former daily smokers | I | C | C | I | I | I | C | C | I | I | I | C | 5 (41.7%) |
| SMK_CIG_LAST_AGE | Age last smoked cigarettes on most days - current non-smokers | I | C | C | I | I | I | C | C | C | I | I | C | 6 (50%) |
| SMK_CIG_OCC_CUR_FREQ | One cigarette smoked frequency - current occasional smokers | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| SMK_CIG_OCC_CUR_QTY | Number of cigarettes smoked per day - current occasional smokers | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_STATUS | Cigarettes smoking status | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_CIG_WHOLE_EVER | Ever smoked a whole cigarette | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_CIG_WHOLE_ONSET | Age smoked a whole cigarette | C | I | I | C | C | C | I | I | I | C | C | I | 6 (50%) |
| SMK_GUM_CUR | Currently uses nicotine gum | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| SMK_GUM_EVER | Ever used nicotine gum | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| SMK_OTHER_TOB_CUR | Currently uses other types of tobacco or nicotine products | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_OTHER_TOB_CUR_OTSP | Other types of tobacco or nicotine products currently used, specify | C | I | C | C | C | C | I | I | I | C | C | I | 7 (58.3%) |
| SMK_OTHER_TOB_EVER | Ever used other type of tobacco or nicotine products | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_OTHER_TOB_EVER_OTSP | Other types of tobacco or nicotine products ever used, specify | C | I | C | C | C | C | I | I | I | C | C | I | 7 (58.3%) |
| SMK_PAAN_CUR | Currently uses paan | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_PAAN_EVER | Ever used paan | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_PATCH_CUR | Currently uses nicotine patches | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| SMK_PATCH_EVER | Ever used nicotine patches | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| SMK_PIPE_CUR | Currently smokes pipes | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_PIPE_EVER | Ever smoked pipes | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_SHEESHA_CUR | Currently smokes sheesha | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_SHEESHA_EVER | Ever smoked sheesha | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_SMALL_CIGAR_CUR | Currently smokes small cigars | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_SMALL_CIGAR_EVER | Ever smoked small cigars | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_SNUFF_CUR | Currently uses chewing tobacco or snuff | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SMK_SNUFF_EVER | Ever used chewing tobacco or snuff | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Lifestyle behaviours-Alcohol | | | | | | | | | | | | | | |
| ALC_BEER_WEEK | Current quantity of beer consumed per week | C | C | C | C | C | C | I | C | I | C | C | C | 10 (83.3%) |
| ALC_BEER_WEEK_CAT | Current quantity of beer consumed per week - categorical | C | C | C | C | C | C | I | C | C | C | C | C | 11 (91.7%) |
| ALC_BEER_WKDAY | Current quantity of beer consumed on weekdays | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_BEER_WKEND | Current quantity of beer consumed on weekend days | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_BINGE_FREQ_FEMALE | Frequency of binge drinking - Female | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|---|--|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| ALC_BINGE_FREQ_MALE | Frequency of binge drinking - Male | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ALC_CUR_FREQ | Current use of alcohol | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ALC_EVER | Ever alcohol consumption | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ALC_HEAVIEST_INTAKE | Current alcohol consumption compared to heaviest intake | I | C | C | I | I | I | C | C | C | I | I | I | 5 (41.7%) |
| ALC_LIQUOR_WEEK | Current quantity of liquor consumed per week | C | C | C | C | C | C | I | C | I | C | C | C | 10 (83.3%) |
| ALC_LIQUOR_WEEK_CAT | Current quantity of liquor consumed per week - categorical | C | C | C | C | C | C | I | C | C | C | C | C | 11 (91.7%) |
| ALC_LIQUOR_WKDAY | Current quantity of liquor or spirits consumed on weekdays | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_LIQUOR_WKEND | Current quantity of liquor or spirits consumed on weekend days | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_OTHER_WEEK | Current quantity of other drink consumed | C | C | C | C | C | C | I | C | I | C | C | I | 9 (75%) |
| ALC_OTHER_WEEK_CAT | Current quantity of other drink consumed - categorical | C | C | C | C | C | C | I | C | C | C | C | I | 10 (83.3%) |
| ALC_OTHER_WKDAY | Current quantity of other kind of alcohol consumed on weekdays | I | C | C | I | I | I | I | C | I | I | I | I | 3 (25%) |
| ALC_OTHER_WKEND | Current quantity of other kind of alcohol consumed on weekend days | I | C | C | I | I | I | I | C | I | I | I | I | 3 (25%) |
| ALC_RED_WINE_WEEK | Current quantity of red wine consumed per week | C | C | C | C | C | C | I | C | I | C | C | C | 10 (83.3%) |
| ALC_RED_WINE_WEEK_CAT | Current quantity of red wine consumed per week - categorical | C | C | C | C | C | C | I | C | C | C | C | C | 11 (91.7%) |
| ALC_RED_WINE_WKDAY | Current quantity of red wine consumed on weekdays | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_RED_WINE_WKEND | Current quantity of red wine consumed on weekend days | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_WHITE_WINE_WEEK | Current quantity of white wine consumed per week | C | C | C | C | C | C | I | C | I | C | C | C | 10 (83.3%) |
| ALC_WHITE_WINE_WEEK_CAT | Current quantity of white wine consumed per week - categorical | C | C | C | C | C | C | I | C | C | C | C | C | 11 (91.7%) |
| ALC_WHITE_WINE_WKDAY | Current quantity of white wine consumed on weekdays | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_WHITE_WINE_WKEND | Current quantity of white wine consumed on weekend days | I | C | C | I | I | I | I | C | I | I | I | C | 4 (33.3%) |
| ALC_WKEND | Alcohol mostly drank on weekend days | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| Lifestyle behaviours-Nutrition | | | | | | | | | | | | | | |
| NUT_FRUITS_QTY | Quantity of fruits consumed | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| NUT_FRUITS_QTY_CAT | Quantity of fruits consumed - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| NUT_JUICE_QTY | Quantity of 100 percent fruit-vegetable juice consumed | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| NUT_JUICE_QTY_CAT | Quantity of 100 percent fruit-vegetable juice consumed - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| NUT_VEG_QTY | Quantity of vegetables consumed | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| NUT_VEG_QTY_CAT | Quantity of vegetables consumed - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Lifestyle behaviours-Sleep | | | | | | | | | | | | | | |
| SLE_LIGHT_EXP | Exposure to light at night | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| SLE_TIME | Number of minutes usually slept | C | C | C | C | C | C | C | C | C | C | C | I | 10 (83.3%) |
| SLE_TIME_CAT | Number of minutes usually slept - categorical | C | C | C | C | C | C | C | C | C | C | C | I | 11 (91.7%) |
| SLE_TROUBLE_FREQ | Frequency trouble to sleep | C | C | C | C | C | C | C | C | C | C | C | I | 11 (91.7%) |
| Health status functional-Perception health limitations | | | | | | | | | | | | | | |
| HS_GEN_HEALTH | Perception of health | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Diseases-Neoplasm | | | | | | | | | | | | | | |
| DIS_CANCER1 | Cancer 1: Type | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER1_AGE | Cancer 1: Age at first diagnosis | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER1_OTSP | Cancer 1: Type, other specify | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER1_TX | Cancer 1: Ever treated | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER1_TX_CHEMO | Cancer 1: Ever treated with chemotherapy | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER1_TX_OTHER | Cancer 1: Ever treated with other treatment | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER1_TX_OTSP | Cancer 1: Ever treated with other treatment, other specify | C | I | C | C | C | C | I | C | C | C | C | I | 9 (75%) |
| DIS_CANCER1_TX_RAD | Cancer 1: Ever treated with radiation | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER1_TX_SURG | Cancer 1: Ever treated with surgery | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2 | Cancer 2: Type | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2_AGE | Cancer 2: Age at first diagnosis | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2_OTSP | Cancer 2: Type, other specify | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2_TX | Cancer 2: Ever treated | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2_TX_CHEMO | Cancer 2: Ever treated with chemotherapy | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2_TX_OTHER | Cancer 2: Ever treated with other treatment | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2_TX_OTSP | Cancer 2: Ever treated with other treatment, other specify | C | I | C | C | C | C | I | C | C | C | C | I | 9 (75%) |
| DIS_CANCER2_TX_RAD | Cancer 2: Ever treated with radiation | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER2_TX_SURG | Cancer 2: Ever treated with surgery | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3 | Cancer 3: Type | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3_AGE | Cancer 3: Age at first diagnosis | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3_OTSP | Cancer 3: Type, other specify | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3_TX | Cancer 3: Ever treated | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3_TX_CHEMO | Cancer 3: Ever treated with chemotherapy | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3_TX_OTHER | Cancer 3: Ever treated with other treatment | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3_TX_OTSP | Cancer 3: Ever treated with other treatment, other specify | C | I | C | C | C | C | I | C | C | C | C | I | 9 (75%) |
| DIS_CANCER3_TX_RAD | Cancer 3: Ever treated with radiation | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER3_TX_SURG | Cancer 3: Ever treated with surgery | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER4 | Cancer 4: Type | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|--------------------------------|--|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| DIS_CANCER4_AGE | Cancer 4: Age at first diagnosis | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |
| DIS_CANCER4_OTSP | Cancer 4: Type, other specify | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |
| DIS_CANCER4_TX | Cancer 4: Ever treated | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |
| DIS_CANCER4_TX_CHEMO | Cancer 4: Ever treated with chemotherapy | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |
| DIS_CANCER4_TX_OTHER | Cancer 4: Ever treated with other treatment | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |
| DIS_CANCER4_TX_RAD | Cancer 4: Ever treated with radiation | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |
| DIS_CANCER4_TX_SURG | Cancer 4: Ever treated with surgery | I | I | I | I | I | I | C | I | I | I | C | C | 3 (25%) |
| DIS_CANCER_CHILD_BLADDER | Children bladder cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_BLADDER_NUM | Number of children with bladder cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_BRAIN | Children brain cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_BRAIN_NUM | Number of children with brain cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_BREAST | Children breast cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_BREAST_NUM | Number of children with breast cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_CERVIX | Children cervical cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_CERVIX_NUM | Number of children with cervical cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_COLON | Children colon cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_COLON_NUM | Number of children with colon cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_ESOPHAGUS | Children esophageal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_ESOPHAGUS_NUM | Number of children with esophageal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_EVER | Lifetime occurrence of cancer in children | C | I | I | C | C | C | C | I | I | C | I | C | 7 (58.3%) |
| DIS_CANCER_CHILD_KIDNEY | Children kidney cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_KIDNEY_NUM | Number of children with kidney cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LARYNX | Children laryngeal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LARYNX_NUM | Number of children with laryngeal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LEUKEMIA | Children leukemia | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LEUKEMIA_NUM | Number of children with leukemia | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LIVER | Children liver cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LIVER_NUM | Number of children with liver cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LUNG | Children lung cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LUNG_NUM | Number of children with lung cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_LYMPHOMA | Children lymphoma | C | I | C | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_CANCER_CHILD_LYMPHOMA_NUM | Number of children with lymphoma | C | I | C | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_CANCER_CHILD_NHL | Children non-Hodgkin's lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_NHL_NUM | Number of children with non-Hodgkin's lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_OTHER | Children other cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_OTHER_NUM | Number of children with other cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_OTSP | Children cancer, other specify | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_OVARY | Children ovarian cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_OVARY_NUM | Number of children with ovarian cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_PANCREAS | Children pancreatic cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_PANCREAS_NUM | Number of children with pancreatic cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_PROSTATE | Children prostate cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_PROSTATE_NUM | Number of children with prostate cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_RECTUM | Children rectal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_RECTUM_NUM | Number of children with rectal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_SKIN | Children skin cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_SKIN_NUM | Number of children with skin cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_STOMACH | Children stomach cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_STOMACH_NUM | Number of children with stomach cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_THYROID | Children thyroid cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_THYROID_NUM | Number of children with thyroid cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_TRACHEA | Children tracheal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_TRACHEA_NUM | Number of children with tracheal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_UTERUS | Children uterine cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_CHILD_UTERUS_NUM | Number of children with uterine cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_EVER | Lifetime occurrence of cancer | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_CANCER_FAM_EVER | Lifetime occurrence of cancer in family | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_BLADDER | Father bladder cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_BRAIN | Father brain cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_BREAST | Father breast cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_COLON | Father colon cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_ESOPHAGUS | Father esophageal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_EVER | Lifetime occurrence of cancer in father | C | I | I | C | C | C | C | I | C | I | C | C | 8 (66.7%) |
| DIS_CANCER_F_KIDNEY | Father kidney cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_LARYNX | Father laryngeal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_LEUKEMIA | Father leukemia | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_LIVER | Father liver cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_LUNG | Father lung cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_LYMPHOMA | Father lymphoma | C | I | C | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_CANCER_F_NHL | Father non-Hodgkin's lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_OTHER | Father other cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_OTSP | Father cancer, other specify | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_PANCREAS | Father pancreatic cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_PROSTATE | Father prostate cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_RECTUM | Father rectal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_SKIN | Father skin cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_STOMACH | Father stomach cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_THYROID | Father thyroid cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_F_TRACHEA | Father tracheal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_BLADDER | Mother bladder cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|----------------------------------|--|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| DIS_CANCER_M_BRAIN | Mother brain cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_BREAST | Mother breast cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_CERVIX | Mother cervical cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_COLON | Mother colon cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_ESOPHAGUS | Mother esophageal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_EVER | Lifetime occurrence of cancer in mother | C | I | I | C | C | C | C | C | I | C | I | C | 8 (66.7%) |
| DIS_CANCER_M_KIDNEY | Mother kidney cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_LARYNX | Mother laryngeal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_LEUKEMIA | Mother leukemia | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_LIVER | Mother liver cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_LUNG | Mother lung cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_LYMPHOMA | Mother lymphoma | C | I | C | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_CANCER_M_NHL | Mother non-Hodgkin's lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_OTHER | Mother other cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_OTSP | Mother cancer, other specify | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_OVARY | Mother ovarian cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_PANCREAS | Mother pancreatic cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_RECTUM | Mother rectal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_SKIN | Mother skin cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_STOMACH | Mother stomach cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_THYROID | Mother thyroid cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_TRACHEA | Mother tracheal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_M_UTERUS | Mother uterine cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_BLADDER | Siblings bladder cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_BLADDER_NUM | Number of siblings with bladder cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_BRAIN | Siblings brain cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_BRAIN_NUM | Number of siblings with brain cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_BREAST | Siblings breast cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_BREAST_NUM | Number of siblings with breast cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_CERVIX | Siblings cervical cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_CERVIX_NUM | Number of siblings with cervical cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_COLON | Siblings colon cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_COLON_NUM | Number of siblings with colon cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_ESOPHAGUS | Siblings esophageal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_ESOPHAGUS_NUM | Number of siblings with esophageal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_EVER | Lifetime occurrence of cancer in siblings | C | I | I | C | C | C | C | I | I | C | I | C | 7 (58.3%) |
| DIS_CANCER_SIB_KIDNEY | Siblings kidney cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_KIDNEY_NUM | Number of siblings with kidney cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LARYNX | Siblings laryngeal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LARYNX_NUM | Number of siblings with laryngeal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LEUKEMIA | Siblings leukemia | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LEUKEMIA_NUM | Number of siblings with leukemia | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LIVER | Siblings liver cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LIVER_NUM | Number of siblings with liver cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LUNG | Siblings lung cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LUNG_NUM | Number of siblings with lung cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LYMPHOMA | Siblings lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_LYMPHOMA_NUM | Number of siblings with lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_NHL | Siblings non-Hodgkin's lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_NHL_NUM | Number of siblings with non-Hodgkin's lymphoma | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_OTHER | Siblings other cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_OTHER_NUM | Number of siblings with other cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_OTSP | Siblings cancer, other specify | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_OVARY | Siblings ovarian cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_OVARY_NUM | Number of siblings with ovarian cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_PANCREAS | Siblings pancreatic cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_PANCREAS_NUM | Number of siblings with pancreatic cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_PROSTATE | Siblings prostate cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_PROSTATE_NUM | Number of siblings with prostate cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_RECTUM | Siblings rectal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_RECTUM_NUM | Number of siblings with rectal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_SKIN | Siblings skin cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_SKIN_NUM | Number of siblings with skin cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_STOMACH | Siblings stomach cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_STOMACH_NUM | Number of siblings with stomach cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_THYROID | Siblings thyroid cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_THYROID_NUM | Number of siblings with thyroid cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_TRACHEA | Siblings tracheal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_TRACHEA_NUM | Number of siblings with tracheal cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_UTERUS | Siblings uterine cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_CANCER_SIB_UTERUS_NUM | Number of siblings with uterine cancer | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| Diseases-Digestive system | | | | | | | | | | | | | | |
| DIS_CH_AGE | Age at first diagnosis of chronic hepatitis | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_CH_CHILD_EVER | Lifetime occurrence of chronic hepatitis in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CH_CHILD_NUM | Number of children with chronic hepatitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CH_EVER | Lifetime occurrence of chronic hepatitis | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_CH_FAM_EVER | Family history of chronic hepatitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CH_F_EVER | Lifetime occurrence of father chronic hepatitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CH_M_EVER | Lifetime occurrence of mother chronic hepatitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CH_SIB_EVER | Lifetime occurrence of chronic hepatitis in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CH_SIB_NUM | Number of siblings with chronic hepatitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|------------------------------------|---|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| HS_POLYP_EVER | Ever had polyp removed from colon | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_CROHN_AGE | Age at first diagnosis of Crohn's disease | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_CROHN_CHILD_EVER | Lifetime occurrence of Crohn's disease in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CROHN_CHILD_NUM | Number of children with Crohn's disease | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CROHN_EVER | Lifetime occurrence of Crohn's disease | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_CROHN_FAM_EVER | Family history of Crohn's disease | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CROHN_F_EVER | Lifetime occurrence of Crohn's disease in father | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CROHN_M_EVER | Lifetime occurrence of Crohn's disease in mother | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CROHN_SIB_EVER | Lifetime occurrence of Crohn's disease in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_CROHN_SIB_NUM | Number of siblings with Crohn's disease | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_IBS_AGE | Age at first diagnosis of irritable bowel syndrome | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_IBS_CHILD_EVER | Lifetime occurrence of irritable bowel syndrome in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_IBS_CHILD_NUM | Number of children with irritable bowel syndrome | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_IBS_EVER | Lifetime occurrence of irritable bowel syndrome | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_IBS_FAM_EVER | Family history of irritable bowel syndrome | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_IBS_F_EVER | Lifetime occurrence of irritable bowel syndrome in father | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_IBS_M_EVER | Lifetime occurrence of irritable bowel syndrome in mother | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_IBS_SIB_EVER | Lifetime occurrence of irritable bowel syndrome in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_IBS_SIB_NUM | Number of siblings with irritable bowel syndrome | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_LC_AGE | Age at first diagnosis of liver cirrhosis | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_LC_CHILD_EVER | Lifetime occurrence of liver cirrhosis in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_LC_CHILD_NUM | Number of children with liver cirrhosis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_LC_EVER | Lifetime occurrence of liver cirrhosis | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_LC_FAM_EVER | Family history of liver cirrhosis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_LC_F_EVER | Lifetime occurrence of liver cirrhosis in father | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_LC_M_EVER | Lifetime occurrence of liver cirrhosis in mother | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_LC_SIB_EVER | Lifetime occurrence of liver cirrhosis in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_LC_SIB_NUM | Number of siblings with liver cirrhosis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_UC_AGE | Age at first diagnosis of ulcerative colitis | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_UC_CHILD_EVER | Lifetime occurrence of ulcerative colitis in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_UC_CHILD_NUM | Number of children with ulcerative colitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_UC_EVER | Lifetime occurrence of ulcerative colitis | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_UC_FAM_EVER | Family history of ulcerative colitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_UC_F_EVER | Lifetime occurrence of ulcerative colitis in father | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_UC_M_EVER | Lifetime occurrence of ulcerative colitis in mother | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_UC_SIB_EVER | Lifetime occurrence of ulcerative colitis in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_UC_SIB_NUM | Number of siblings with ulcerative colitis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| Diseases-Circulatory system | | | | | | | | | | | | | | |
| DIS_HBP_AGE | Age at first diagnosis of high blood pressure, excluding during pregnancy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_HBP_CHILD_EVER | Lifetime occurrence of high blood pressure in children | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_HBP_CHILD_NUM | Number of children with high blood pressure | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_HBP_EVER | Lifetime occurrence of high blood pressure, excluding during pregnancy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_HBP_FAM_EVER | Family history of high blood pressure | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_HBP_F_EVER | Lifetime occurrence of high blood pressure in father | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_HBP_M_EVER | Lifetime occurrence of high blood pressure in mother | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_HBP_SIB_EVER | Lifetime occurrence of high blood pressure in siblings | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_HBP_SIB_NUM | Number of siblings with high blood pressure | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_HBP_TX | Currently under treatment for high blood pressure | I | C | C | I | I | I | C | C | C | I | I | I | 5 (41.7%) |
| DIS_MI_AGE | Age at first diagnosis of myocardial infarction | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_MI_CHILD_EVER | Lifetime occurrence of myocardial infarction in children | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_MI_CHILD_NUM | Number of children with myocardial infarction | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_MI_EVER | Lifetime occurrence of myocardial infarction | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_MI_FAM_EVER | Family history of myocardial infarction | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_MI_F_EVER | Lifetime occurrence of myocardial infarction in father | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_MI_M_EVER | Lifetime occurrence of myocardial infarction in mother | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_MI_SIB_EVER | Lifetime occurrence of myocardial infarction in siblings | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_MI_SIB_NUM | Number of siblings with myocardial infarction | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_MI_TX | Currently under treatment for myocardial infarction | I | C | C | I | I | I | C | C | I | I | I | I | 4 (33.3%) |
| DIS_STROKE_AGE | Age at first diagnosis of stroke | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|---------------------------------|--|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| DIS_STROKE_CHILD_EVER | Lifetime occurrence of stroke in children | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_STROKE_CHILD_NUM | Number of children with stroke | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_STROKE_EVER | Lifetime occurrence of stroke | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_STROKE_FAM_EVER | Family history of stroke | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_STROKE_F_EVER | Lifetime occurrence of stroke in father | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_STROKE_M_EVER | Lifetime occurrence of stroke in mother | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_STROKE_SIB_EVER | Lifetime occurrence of stroke in siblings | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_STROKE_SIB_NUM | Number of siblings with stroke | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_STROKE_TX | Currently under treatment for stroke | I | C | C | C | I | I | C | C | I | I | I | I | 4 (33.3%) |
| Diseases-Nervous system | | | | | | | | | | | | | | |
| DIS_MS_AGE | Age at first diagnosis of multiple sclerosis | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_MS_CHILD_EVER | Lifetime occurrence of multiple sclerosis in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_MS_CHILD_NUM | Number of children with multiple sclerosis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_MS_EVER | Lifetime occurrence of multiple sclerosis | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_MS_FAM_EVER | Family history of multiple sclerosis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_MS_F_EVER | Lifetime occurrence of multiple sclerosis in father | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_MS_M_EVER | Lifetime occurrence of multiple sclerosis in mother | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_MS_SIB_EVER | Lifetime occurrence of multiple sclerosis in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_MS_SIB_NUM | Number of siblings with multiple sclerosis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| Diseases-Mental behavior | | | | | | | | | | | | | | |
| DIS_DEP_AGE | Age at first diagnosis of major depression onset | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_DEP_CHILD_EVER | Lifetime occurrence of major depression in children | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_DEP_CHILD_NUM | Number of children with major depression | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_DEP_EVER | Lifetime occurrence of major depression | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |
| DIS_DEP_FAM_EVER | Family history of major depression | C | I | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_DEP_F_EVER | Lifetime occurrence of major depression in father | C | I | I | C | C | C | I | I | C | C | C | C | 9 (75%) |
| DIS_DEP_M_EVER | Lifetime occurrence of major depression in mother | C | I | I | C | C | C | I | I | C | C | C | C | 9 (75%) |
| DIS_DEP_SIB_EVER | Lifetime occurrence of major depression in siblings | C | I | I | C | C | C | I | I | C | C | C | C | 9 (75%) |
| DIS_DEP_SIB_NUM | Number of siblings with major depression | C | I | I | C | C | C | I | I | C | C | C | C | 9 (75%) |
| Diseases-Musculoskeletal | | | | | | | | | | | | | | |
| DIS_ARTHRITIS_AGE | Age at first diagnosis of arthritis | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_ARTHRITIS_CHILD_EVER | Lifetime occurrence of arthritis in children | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ARTHRITIS_CHILD_NUM | Number of children with arthritis | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ARTHRITIS_EVER | Lifetime occurrence of arthritis | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_ARTHRITIS_FAM_EVER | Family history of arthritis | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ARTHRITIS_F_EVER | Lifetime occurrence of arthritis in father | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ARTHRITIS_M_EVER | Lifetime occurrence of arthritis in mother | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ARTHRITIS_SIB_EVER | Lifetime occurrence of arthritis in siblings | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ARTHRITIS_SIB_NUM | Number of siblings with arthritis | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ARTHRITIS_TYPE1 | Arthritis type (rheumatoid arthritis, osteoarthritis, other type of arthritis) | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_ARTHRITIS_TYPE2 | Arthritis type (rheumatoid arthritis, osteoarthritis, other type of arthritis) | C | C | C | C | I | C | C | C | I | I | C | C | 9 (75%) |
| DIS_ARTHRITIS_TYPE3 | Arthritis type (rheumatoid arthritis, osteoarthritis, other type of arthritis) | C | C | C | C | I | C | C | C | I | I | C | C | 9 (75%) |
| DIS_ARTHRITIS_TYPE_OTSP | Lifetime occurrence of arthritis, other specify | C | I | C | C | C | C | I | C | C | C | C | I | 9 (75%) |
| DIS_OP_AGE | Age at first diagnosis of osteoporosis | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_OP_CHILD_EVER | Lifetime occurrence of osteoporosis in children | C | I | I | C | C | C | C | I | C | C | C | I | 8 (66.7%) |
| DIS_OP_CHILD_NUM | Number of children with osteoporosis | C | I | I | C | C | C | C | I | C | C | C | I | 8 (66.7%) |
| DIS_OP_EVER | Lifetime occurrence of osteoporosis | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_OP_FAM_EVER | Family history of osteoporosis | C | I | I | C | C | C | C | I | C | C | C | I | 8 (66.7%) |
| DIS_OP_F_EVER | Lifetime occurrence of osteoporosis in father | C | I | I | C | C | C | C | I | C | C | C | I | 8 (66.7%) |
| DIS_OP_M_EVER | Lifetime occurrence of osteoporosis in mother | C | I | I | C | C | C | C | I | C | C | C | I | 8 (66.7%) |
| DIS_OP_SIB_EVER | Lifetime occurrence of osteoporosis in siblings | C | I | I | C | C | C | C | I | C | C | C | I | 8 (66.7%) |
| DIS_OP_SIB_NUM | Number of siblings with osteoporosis | C | I | I | C | C | C | C | I | C | C | C | I | 8 (66.7%) |
| DIS_SLE_AGE | Age at first diagnosis of systemic lupus erythematosus | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_SLE_CHILD_EVER | Lifetime occurrence of systemic lupus erythematosus in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_SLE_CHILD_NUM | Number of children with systemic lupus erythematosus | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_SLE_EVER | Lifetime occurrence of systemic lupus erythematosus | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_SLE_FAM_EVER | Family history of systemic lupus erythematosus | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_SLE_F_EVER | Lifetime occurrence of systemic lupus erythematosus in father | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_SLE_M_EVER | Lifetime occurrence of systemic lupus erythematosus in mother | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_SLE_SIB_EVER | Lifetime occurrence of systemic lupus erythematosus in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_SLE_SIB_NUM | Number of siblings with systemic lupus erythematosus | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|-------------------------------------|--|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| Diseases-Endocrine metabolic | | | | | | | | | | | | | | |
| DIS_DIAB_AGE | Age at first diagnosis of diabetes | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_DIAB_CHILD_EVER | Lifetime occurrence of diabetes in children | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_DIAB_CHILD_NUM | Number of children with diabetes | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_DIAB_EVER | Lifetime occurrence of diabetes | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_DIAB_FAM_EVER | Family history of diabetes | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_DIAB_F_EVER | Lifetime occurrence of diabetes in father | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_DIAB_M_EVER | Lifetime occurrence of diabetes in mother | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_DIAB_SIB_EVER | Lifetime occurrence of diabetes in siblings | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_DIAB_SIB_NUM | Number of siblings with diabetes | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_DIAB_TX | Currently under treatment for diabetes | I | C | C | I | I | I | C | C | I | I | I | I | 4 (33.3%) |
| DIS_DIAB_TYPE | Lifetime diabetes type | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Diseases-Respiratory system | | | | | | | | | | | | | | |
| DIS_ASTHMA_AGE | Age at first diagnosis of asthma | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_ASTHMA_CHILD_EVER | Lifetime occurrence of asthma in children | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ASTHMA_CHILD_NUM | Number of children with asthma | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ASTHMA_EVER | Lifetime occurrence of asthma | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_ASTHMA_FAM_EVER | Family history of asthma | C | I | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |
| DIS_ASTHMA_F_EVER | Lifetime occurrence of asthma in father | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ASTHMA_M_EVER | Lifetime occurrence of asthma in mother | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ASTHMA_SIB_EVER | Lifetime occurrence of asthma in siblings | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ASTHMA_SIB_NUM | Number of siblings with asthma | C | I | I | C | C | C | C | I | C | C | C | C | 9 (75%) |
| DIS_ASTHMA_TX | Currently under treatment for asthma | I | C | C | I | I | I | C | C | I | I | I | I | 4 (33.3%) |
| DIS_CB_AGE | Age at first diagnosis of chronic bronchitis | I | C | C | I | I | I | C | C | C | I | C | C | 7 (58.3%) |
| DIS_CB_CHILD_EVER | Lifetime occurrence of chronic bronchitis in children | I | I | I | I | I | I | C | I | C | I | C | C | 4 (33.3%) |
| DIS_CB_CHILD_NUM | Number of children with chronic bronchitis | I | I | I | I | I | I | C | I | C | I | C | C | 4 (33.3%) |
| DIS_CB_EVER | Lifetime occurrence of chronic bronchitis | I | C | C | I | I | I | C | C | C | I | C | C | 7 (58.3%) |
| DIS_CB_FAM_EVER | Family history of chronic bronchitis | I | I | I | I | I | I | C | I | C | I | C | C | 4 (33.3%) |
| DIS_CB_F_EVER | Lifetime occurrence of chronic bronchitis in father | I | I | I | I | I | I | C | I | C | I | C | C | 4 (33.3%) |
| DIS_CB_M_EVER | Lifetime occurrence of chronic bronchitis in mother | I | I | I | I | I | I | C | I | C | I | C | C | 4 (33.3%) |
| DIS_CB_SIB_EVER | Lifetime occurrence of chronic bronchitis in siblings | I | I | I | I | I | I | C | I | C | I | C | C | 4 (33.3%) |
| DIS_CB_SIB_NUM | Number of siblings with chronic bronchitis | I | I | I | I | I | I | C | I | C | I | C | C | 4 (33.3%) |
| DIS_CB_TX | Currently under treatment for chronic bronchitis | I | C | C | I | I | I | C | C | I | I | I | I | 4 (33.3%) |
| DIS_COPD_AGE | Age at first diagnosis of chronic obstructive pulmonary disease | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_COPD_CHILD_EVER | Lifetime occurrence of chronic obstructive pulmonary disease in children | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_COPD_CHILD_NUM | Number of children with chronic obstructive pulmonary disease | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_COPD_EVER | Lifetime occurrence of chronic obstructive pulmonary disease | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_COPD_FAM_EVER | Family history of chronic obstructive pulmonary disease | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_COPD_F_EVER | Lifetime occurrence of chronic obstructive pulmonary disease in father | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_COPD_M_EVER | Lifetime occurrence of chronic obstructive pulmonary disease in mother | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_COPD_SIB_EVER | Lifetime occurrence of chronic obstructive pulmonary disease in siblings | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_COPD_SIB_NUM | Number of siblings with chronic obstructive pulmonary disease | C | I | C | C | C | C | C | C | C | C | C | C | 11 (91.7%) |
| DIS_COPD_TX | Currently under treatment for chronic obstructive pulmonary disease | I | C | I | I | I | I | C | I | I | I | I | I | 2 (16.7%) |
| DIS_EMPHYSEMA_AGE | Age at first diagnosis of emphysema | I | C | C | I | I | I | C | C | C | I | C | C | 7 (58.3%) |
| DIS_EMPHYSEMA_CHILD_EVER | Lifetime occurrence of emphysema in children | I | I | I | I | I | I | I | I | C | I | C | I | 2 (16.7%) |
| DIS_EMPHYSEMA_CHILD_NUM | Number of children with emphysema | I | I | I | I | I | I | I | I | C | I | C | I | 2 (16.7%) |
| DIS_EMPHYSEMA_EVER | Lifetime occurrence of emphysema | I | C | C | I | I | I | C | C | C | I | C | C | 7 (58.3%) |
| DIS_EMPHYSEMA_FAM_EVER | Family history of emphysema | I | I | I | I | I | I | I | I | C | I | C | I | 2 (16.7%) |
| DIS_EMPHYSEMA_F_EVER | Lifetime occurrence of emphysema in father | I | I | I | I | I | I | I | I | C | I | C | I | 2 (16.7%) |
| DIS_EMPHYSEMA_M_EVER | Lifetime occurrence of emphysema in mother | I | I | I | I | I | I | I | I | C | I | C | I | 2 (16.7%) |
| DIS_EMPHYSEMA_SIB_EVER | Lifetime occurrence of emphysema in siblings | I | I | I | I | I | I | I | I | C | I | C | I | 2 (16.7%) |
| DIS_EMPHYSEMA_SIB_NUM | Number of siblings with emphysema | I | I | I | I | I | I | I | I | C | I | C | I | 2 (16.7%) |
| DIS_EMPHYSEMA_TX | Currently under treatment for emphysema | I | C | C | I | I | I | C | C | I | I | I | I | 4 (33.3%) |
| Diseases-Skin subcutaneous | | | | | | | | | | | | | | |
| DIS_ECZEMA_AGE | Age at first diagnosis of eczema | C | C | I | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| DIS_ECZEMA_CHILD_EVER | Lifetime occurrence of eczema in children | C | I | I | C | C | C | C | I | C | C | C | I | 7 (58.3%) |
| DIS_ECZEMA_CHILD_NUM | Number of children with eczema | C | I | I | C | C | C | C | I | C | C | C | I | 7 (58.3%) |
| DIS_ECZEMA_EVER | Lifetime occurrence of eczema | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_ECZEMA_FAM_EVER | Family history of eczema | C | I | I | C | C | C | C | I | C | C | C | I | 7 (58.3%) |
| DIS_ECZEMA_F_EVER | Lifetime occurrence of eczema in father | C | I | I | C | C | C | C | I | C | C | C | I | 7 (58.3%) |
| DIS_ECZEMA_M_EVER | Lifetime occurrence of eczema in mother | C | I | I | C | C | C | C | I | C | C | C | I | 7 (58.3%) |
| DIS_ECZEMA_SIB_EVER | Lifetime occurrence of eczema in siblings | C | I | I | C | C | C | C | I | C | C | C | I | 7 (58.3%) |
| DIS_ECZEMA_SIB_NUM | Number of siblings with eczema | C | I | I | C | C | C | C | I | C | C | C | I | 7 (58.3%) |
| DIS_PS_AGE | Age at first diagnosis of psoriasis | C | C | I | C | C | C | C | C | C | C | C | C | 10 (83.3%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|--|--|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|---------------------------------------|
| DIS_PS_CHILD_EVER | Lifetime occurrence of psoriasis in children | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_PS_CHILD_NUM | Number of children with psoriasis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_PS_EVER | Lifetime occurrence of psoriasis | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIS_PS_FAM_EVER | Family history of psoriasis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_PS_F_EVER | Lifetime occurrence of psoriasis in father | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_PS_M_EVER | Lifetime occurrence of psoriasis in mother | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_PS_SIB_EVER | Lifetime occurrence of psoriasis in siblings | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| DIS_PS_SIB_NUM | Number of siblings with psoriasis | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| Medication supplements | | | | | | | | | | | | | | |
| ATC_1 | Chemical substance, 5th level of ATC classification - medication 1 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_1_L1 | Anatomical main group, 1st level of ATC classification - medication 1 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_1_L1 | Anatomical main group, 1st level of ATC classification - medication 1 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_2 | Chemical substance, 5th level of ATC classification - medication 2 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_2_L1 | Anatomical main group, 1st level of ATC classification - medication 2 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_3 | Chemical substance, 5th level of ATC classification - medication 3 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_3_L1 | Anatomical main group, 1st level of ATC classification - medication 3 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_4 | Chemical substance, 5th level of ATC classification - medication 4 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_4_L1 | Anatomical main group, 1st level of ATC classification - medication 4 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_5 | Chemical substance, 5th level of ATC classification - medication 5 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_5_L1 | Anatomical main group, 1st level of ATC classification - medication 5 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_6 | Chemical substance, 5th level of ATC classification - medication 6 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_6_L1 | Anatomical main group, 1st level of ATC classification - medication 6 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_7 | Chemical substance, 5th level of ATC classification - medication 7 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_7_L1 | Anatomical main group, 1st level of ATC classification - medication 7 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_8 | Chemical substance, 5th level of ATC classification - medication 8 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_8_L1 | Anatomical main group, 1st level of ATC classification - medication 8 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_9 | Chemical substance, 5th level of ATC classification - medication 9 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_9_L1 | Anatomical main group, 1st level of ATC classification - medication 9 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ATC_10 | Chemical substance, 5th level of ATC classification - medication 10 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| ATC_10_L1 | Anatomical main group, 1st level of ATC classification - medication 10 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| DIN_1 | Drug identification number (DIN) - medication 1 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_2 | Drug identification number (DIN) - medication 2 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_3 | Drug identification number (DIN) - medication 3 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_4 | Drug identification number (DIN) - medication 4 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_5 | Drug identification number (DIN) - medication 5 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_6 | Drug identification number (DIN) - medication 6 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_7 | Drug identification number (DIN) - medication 7 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_8 | Drug identification number (DIN) - medication 8 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_9 | Drug identification number (DIN) - medication 9 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| DIN_10 | Drug identification number (DIN) - medication 10 | C | C | C | C | C | C | C | I | C | C | C | C | 11 (91.7%) |
| MED_1 | Name - medication 1 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_2 | Name - medication 2 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_3 | Name - medication 3 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_4 | Name - medication 4 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_5 | Name - medication 5 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_6 | Name - medication 6 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_7 | Name - medication 7 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_8 | Name - medication 8 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_9 | Name - medication 9 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| MED_10 | Name - medication 10 | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Non pharmacological interventions-Other non-pharmacological interventions | | | | | | | | | | | | | | |
| HS_COL_EVER | Ever had colonoscopy | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| HS_COL_LAST | Last colonoscopy | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| HS_SIG_COL_EVER | Ever had sigmoidoscopy or colonoscopy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_SIG_COL_LAST | Last sigmoidoscopy or colonoscopy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_SIG_EVER | Ever had sigmoidoscopy | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| HS_SIG_LAST | Last sigmoidoscopy | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| Non pharmacological interventions-Surgical interventions | | | | | | | | | | | | | | |
| WH_BI_OOPHORECTOMY | Bilateral oophorectomy | C | I | C | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| WH_HYSTERECTOMY_AGE | Hysterectomy onset | C | C | C | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| WH_HYSTERECTOMY_EVER | Occurrence of hysterectomy | C | C | C | C | C | C | C | I | C | C | C | C | 10 (83.3%) |
| WH_OOPHORECTOMY_EVER | Occurrence of oophorectomy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_OVARIES_LAST_AGE | Age at last oophorectomy | C | I | C | C | C | C | I | C | C | C | C | C | 10 (83.3%) |
| WH_OVARIES_REMOVED_NB | Number of ovaries removed | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Non pharmacological interventions-Biosample analyses | | | | | | | | | | | | | | |
| HS_FOBT_EVER | Ever had fecal occult blood test | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_FOBT_LAST | Last fecal occult blood test | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_PAP_EVER | Ever had Pap test | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_PAP_LAST | Last Pap test | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_PSA_EVER | Ever had PSA blood test | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_PSA_LAST | Last PSA blood test | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |

Appendix 2 (as supplied by the authors): Harmonization potential of the Health and Risk Factor Questionnaire variables (Version 2.0 - Oct. 2017)

| Variable | label | ATL-1 | ATL-2 | ATP-1 | ATP-2 | BCGP-1 | BCGP-2 | BCGP-3 | CAG-1 | CAG-2 | OHS-1 | OHS-2 | OHS-3 | Variable with a complete status n (%) |
|--|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------|
| Non pharmacological interventions-Radiological intervention | | | | | | | | | | | | | | |
| HS_MMGM_EVER | Ever had mammography | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_MMGM_LAST | Last mammography | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Health community care utilization-Visit health professionals | | | | | | | | | | | | | | |
| HS_DENTAL_VISIT_EVER | Ever had dental professional visit | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_DENTAL_VISIT_LAST | Last visit with dental professional | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_ROUTINE_VISIT_EVER | Ever had routine medical check-up | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| HS_ROUTINE_VISIT_LAST | Last routine medical check-up | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Reproduction-Gravidity, pregnancy outcomes, parity and fertility | | | | | | | | | | | | | | |
| MH_CHILDREN_FATHERED | Number of children fathered | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| MH_CHILDREN_FATHERED_CAT | Number of children fathered - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_GRAVIDITY | Gravidity | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| WH_GRAVIDITY_CAT | Gravidity - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_LIVE_BIRTHS | Number of live births mothered | C | C | C | C | C | C | C | C | I | C | C | C | 11 (91.7%) |
| WH_LIVE_BIRTHS_CAT | Number of live births mothered - categorical | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_PREG_20WK | Number of pregnancies of at least 20 weeks | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Reproduction-Menstruation, menopause, andropause | | | | | | | | | | | | | | |
| WH_HRT_AGE | Age started using hormone replacement therapy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_HRT_DURATION | Duration of use of hormone replacement therapy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_HFT_EVER | Ever received hormone fertility treatment | C | C | C | C | C | C | C | C | C | C | C | I | 11 (91.7%) |
| WH_MENOPAUSE_AGE | Age at menopause | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_MENOPAUSE_EVER | Occurrence of menopause | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_MENOPAUSE_REASON | Menopause reason | C | I | I | C | C | C | I | C | I | C | C | I | 7 (58.3%) |
| WH_MENSTRUATION_AGE | Age at menarche | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Reproduction-Pregnancy delivery | | | | | | | | | | | | | | |
| WH_PREG_CUR | Currently pregnant | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |
| WH_PREG_CUR_WK | Number of weeks current pregnancy | C | I | I | C | C | C | I | C | I | C | C | I | 7 (58.3%) |
| WH_PREG_FIRST_AGE | Age at first pregnancy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_PREG_LAST_AGE | Age at last pregnancy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Reproduction-Contraception | | | | | | | | | | | | | | |
| WH_CONTRACEPTIVES_AGE | Age started using hormonal contraceptives | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| WH_CONTRACEPTIVES_DURATION | Duration of use of hormonal contraceptives | C | C | C | C | C | C | I | C | C | C | C | I | 10 (83.3%) |
| WH_CONTRACEPTIVES_EVER | Ever used hormonal contraceptives | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Reproduction-Breastfeeding | | | | | | | | | | | | | | |
| WH_BREASTFEEDING_DURATION | Duration of breastfeeding | C | C | C | C | C | C | C | C | C | C | I | C | 11 (91.7%) |
| Reproduction-Reproductive sexual problems | | | | | | | | | | | | | | |
| WH_HRT_EVER | Ever used hormone replacement therapy | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Physical measures-Anthropometric measures | | | | | | | | | | | | | | |
| PM_BMI_SR | Body mass index - self-reported | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| PM_HIP_SR_AVG | Average hip circumference - self-reported | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| PM_STAND_HEIGHT_SR_AVG | Average standing height - self-reported | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| PM_WAIST_HIP_RATIO_SR | Waist to hip ratio - self-reported | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| PM_WAIST_SR_AVG | Average waist circumference - self-reported | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| PM_WEIGHT_SR_AVG | Average weight - self-reported | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| Physical measures-Physical characteristics | | | | | | | | | | | | | | |
| PM_HANDEDNESS | Handedness | C | C | I | C | C | C | I | C | C | C | C | I | 9 (75%) |
| UVE_EYE | Natural eye colour | C | I | I | C | C | C | I | I | C | C | C | I | 7 (58.3%) |
| UVE_HAIR | Natural hair color | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Physical environment-Chemical exposure | | | | | | | | | | | | | | |
| PSE_ADULT_HOME_DURATION | Duration of passive smoking exposure during adulthood at home | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| PSE_ADULT_WRK_DURATION | Duration of passive smoking exposure during adulthood at work | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| PSE_CHILDHOOD_DURATION | Duration of passive smoking exposure during childhood | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| PSE_HOME_FREQ | Frequency of usual passive smoking exposure at home | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| PSE_LEISURE_FREQ | Frequency of usual passive smoking exposure during leisure activities | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| PSE_WRK_FREQ | Frequency of usual passive smoking exposure at work | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Physical environment-Radiation exposure | | | | | | | | | | | | | | |
| UVE_PROTECTION | Use of sun protection | I | C | C | I | I | I | C | C | C | I | I | I | 5 (41.7%) |
| UVE_SKIN_REACTION | Skin reaction to the sun | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| UVE_TANNING_CUR | Current use of artificial tanning equipment | C | C | C | C | C | C | I | C | C | C | C | C | 11 (91.7%) |
| UVE_TIME_WKDAY | Time spent in the sun on typical weekdays | I | C | C | I | I | I | C | C | C | I | I | C | 6 (50%) |
| UVE_TIME_WKEND | Time spent in the sun on typical weekend days | I | C | C | I | I | I | C | C | C | I | I | C | 6 (50%) |
| Administrative information-Physical measure biosample related information | | | | | | | | | | | | | | |
| PM_ABLE_STAND | Able to stand | C | I | I | C | C | C | I | C | C | C | C | I | 8 (66.7%) |
| Administrative information-Questionnaire interview related information | | | | | | | | | | | | | | |
| ADM_QX_FORMAT | Questionnaire administration format | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ADM_QX_LANGUAGE | Questionnaire administration language | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ADM_QX_VERSION | Questionnaire version | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ADM_STUDY_DATASET | Regional cohort dataset name | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| PA_IPAQ_VERSION | IPAQ version | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Administrative information-Identifiers | | | | | | | | | | | | | | |
| ADM_FSA | Forward Sortation Area (FSA) | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| ADM_STUDY_ID | Regional cohort ID | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Administrative information-Date and time related information | | | | | | | | | | | | | | |
| ADM_QX_COMPLETION | Date of questionnaire completion | C | C | C | C | C | C | C | C | C | C | C | C | 12 (100%) |
| Total complete status n(%) | | 629 (90.6%) | 322 (46.4%) | 488 (70.3%) | 631 (90.9%) | 627 (90.3%) | 631 (90.9%) | 533 (76.8%) | 504 (72.6%) | 613 (88.3%) | 629 (90.6%) | 652 (93.9%) | 540 (77.8%) | 6799 (81.6%) |
| Total incomplete status n(%) | | 65 (9.4%) | 372 (53.6%) | 206 (29.7%) | 63 (9.1%) | 67 (9.7%) | 63 (9.1%) | 161 (23.2%) | 190 (27.4%) | 81 (11.7%) | 65 (9.4%) | 42 (6.1%) | 154 (22.2%) | 1529 (18.4%) |
| Note : Complete : C ; Incomplete: I | | | | | | | | | | | | | | |