**The Copenhagen Co-Morbidity in HIV Infection Study**

> Data Dictionary <

BASELINE

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Content

[1. IMPORTANT INFORMATION ON DATAFILES 3](#_Toc5370407)

[2. Baseline demographic data and clinical measurements 3](#_Toc5370408)

[3. Self-reported symptoms 5](#_Toc5370409)

[4. Children, Blood Donation and Menopause 7](#_Toc5370410)

[5. Smoking and Alcohol use 7](#_Toc5370411)

[6. Food 9](#_Toc5370412)

[7. Socioeconomic Status 11](#_Toc5370413)

[8. Physical Activity 11](#_Toc5370414)

[9. Family History 12](#_Toc5370415)

[10. Psychological Status 13](#_Toc5370416)

[11. Skin exposures 14](#_Toc5370417)

[12. Childhood history (before age 15 years) of lung infections and tobacco exposures 15](#_Toc5370418)

[13. Lung symptoms 16](#_Toc5370419)

[14. Exposure to external agents 17](#_Toc5370420)

[15. Self-reported medication use 18](#_Toc5370421)

[16. Illicit drug use 19](#_Toc5370422)

[17. Biochemical analysis 19](#_Toc5370423)

[18. HIV associated variables 21](#_Toc5370424)

All variables listed below have been obtained from questionnaires, physical examinations, and biochemical analysis. All data has been validated at Copenhagen General Population Study. A few variables\* have been derived from existing variables. HIV associated variables have been retrieved manually from patient records.

### 1. Important information on data extraction and data structure

Data from questionnaires, physical examinations, and biochemical analysis (Chapter 2-17 in this data dictionary) can be drawn from the datafile: **COCOMO\_validated\_20170619** stored in the Persimune Data Warehouse.

Data from medical records (Chapter 18 in this data dictionary) can be drawn from the datafile: **COCOMO\_HIV\_data\_20170619** stored in the Persimune Data Warehouse.

Excel file for data extraction should include:

1. Variable names (original name in database) in one column
2. Name of datafile from where to extract data (see above)
3. Selection criteria (e.g. age > 40 years)

NOTE: If numbers/letters are listed in parenthesis after variable names, specify the variable(s) of interest. Example: H2\_17c\_(1-12) should be specified as e.g.: H2\_17c\_1

### 2. Baseline demographic data and clinical measurements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Original Name in Database** | **Name** | **Description** | **Format** | **Definition** |
| cpr | cpr | Civil registration number | String | 10 digits |
| id | id | Participants COCOMO study ID | String | 4 digits |
| fodedato | Date\_birth | \*Date of birth | Date | Dd-mm-yy |
| usdato | Date\_incl | Date of inclusion | Date | Dd-mm-yy |
| study\_time |  | Time of study inclusion | Cat | 0: Baseline (index)  1: 2 years follow-up  2: 10 years follow-up |
| alder | Age | \*Computed age | Num | Unit: years |
| sex | Gender | \*Gender | Dic | 0: female  1: male |
| tid | Time\_blood | Time of blood sample | Time | Hh-mm |
| ob1 | Blood | Blood sample taken | Dic | 0: No  1: Yes |
| ob2 | Origin | Grandparents origin | Cat | 1: Danish  2: Other Scandinavian  3: Other European  4: Turkish  5: Pakistani, Indian, Sri Lankan  6: Arab/Iran  7: Other (African, Asian, Greenland) |
| ob3 | Last\_meal | Duration since last meal | Cat | Unit: hours  1: 0-1  2: 1-2  3: 2-3  4: 3-4  5: 4-5  6: 5-6  7: 6-7  8: 7-8  9: > 8 |
| ob4 | Height | Height of participant | Num | Unit: cm |
| ob5 | Weight | Weight of participant | Num | Unit: kg |
| bmi | Bmi | \*Body mass index | Num | Unit: kg/m2 |
| bmikat | Bmi\_cat | \*WHO BMI category | Cat | 1: underweight  2: normal  3: overweight  4: obese |
| ob6 | Wc | Waist circumference | Num | Unit: cm |
| central\_obesity | Central\_obesity | \*IDF definition | Cat | 0: No  1:Yes |
| ob7 | Hc | Hip circumference | Num | Unit: cm |
| WHR | Whr | \*Waist hip ratio | Num | Unit: ratio |
| ob8 | Sysbp\_l | Systolic blood pressure, left arm | Num | Unit: mm mercury |
| ob9 | Diabp\_l | Diastolic blood pressure, left arm | Num | Unit: mm mercury |
| ob10 | Sysbp\_r | Systolic blood pressure, right arm | Num | Unit: mm mercury |
| ob11 | Diabp\_r | Diastolic blood pressure, right arm | Num | Unit: mm mercury |
| hypertension | Hta | \*JNC7 definition | Dic | 0: No  1: Yes |
| diabetes | Diab | \*Min one of the following: tx with antidiabetic drug for T2DM  or non-fasting venous plasma glucose ≥ 11.1 mmol/L  or HbA1c ≥ 6.5% | Dic | 0: No  1: Yes |
| ob12 | Bp\_rl | Bloodpressure, right leg | Num | Unit: mm mercury |
| ob13 | Bp\_ll | Bloodpressure, left leg | Num | Unit: mm mercury |
| ob14 | Abi | Ankle brachial index | Cat | 1: > 0.9  2: < 0.9 |
| ob15 | Lsm | Liver stiffness measurement | Num | Unit: kpa |
| ob16 | Iqr | Interquartile range | Num | One decimal |
| ob17 | Te\_fail | Fibroscan not possible | Cat | 1: Yes |
| ob18 | Sat | Saturation | Num | Unit: % |
| ob19 | Puls | Pulse | Num | Unit: beats per minute |
| ob20 | FVC | Forced vital capacity | Num | Unit: L |
| ob21 | FEV1 | Forced expiratory volume in 1 sec | Num | Unit: L |
| ob22 | FEV1FVC | FEV1/FVC | Num | Unit: % |
| ob23 | FVC\_post | FVC after bronchodilation | Num | Unit: L |
| ob24 | FEV1\_post | FEV1 after bronchodilation | Num | Unit: L |
| ob25 | FEV1FVC\_post | FEV1/FVC after bronchodilation | Num | Unit: % |
| ob26 | Eno | Expiratory nitrogen oxid | Num | Unit: parts per billion |
| ob27 | Instr | Instruction for spirometry | Cat | 1: Easy  2: Difficult  3: Impossible |

### 3. Self-reported symptoms

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_01 | Chest pain – hurry/stair walk | Dic | 0: No  1: Yes |
| H2\_02 | Shortness of breath – hurry/uphill | Dic | 0: No  1: Yes |
| H2\_03 | Shortness of breath – peers straight road | Dic | 0: No  1: Yes |
| H2\_04 | Stop for breath after walking – own pace | Dic | 0: No  1: Yes |
| H2\_05 | Shortness of breath - awake at night | Dic | 0: No  1: Yes |
| H2\_06 | Shortness of breath – shower/dressing | Dic | 0: No  1: Yes |
| H2\_07 | Short of breath – morning | Dic | 0: No  1: Yes |
| H2\_08 | Short of breath – rest | Dic | 0: No  1: Yes |
| H2\_09a | Reflux | Dic | 0: No  1: Yes |
| H2\_09b | Reflux when coughing | Dic | 0: No  1: Yes |
| H2\_09c | Reflux when dyspnoea | Dic | 0: No  1: Yes |
| H2\_10 | Cough – cont. for past 8 weeks | Dic | 0: No  1: Yes |
| H2\_11a | Sputum – cont. for 3 month/yr | Dic | 0: No  1: Yes |
| H2\_11b | If yes, sputum white/clear | Dic | 0: No  1: Yes |
| H2\_11c | Sputum yellow, green, purulent | Dic | 0: No  1: Yes |
| H2\_12a | Self-reported COPD (told by MD/nurse) | Dic | 0: No  1: Yes |
| H2\_12b | If yes, age at diagnosis | Num | Unit: years |
| H2\_13a | Long exposure to dust | Dic | 0: No  1: Yes |
| H2\_13b | If yes, number of years | Num | Unit: years |
| H2\_14a | Wheezing, intermittently | Dic | 0: No  1: Yes |
| H2\_14b | If yes, when having a cold | Dic | 0: No  1: Yes |
| H2\_14c | If yes, exertional | Dic | 0: No  1: Yes |
| H2\_14d | If yes, unknown reason | Dic | 0: No  1: Yes |
|  | Food/medication/grass/flower/animal hair induced: | | |
| H2\_15a | Asthma | Dic | 0: No  1: Yes |
| H2\_15b | Hay fever | Dic | 0: No  1: Yes |
| H2\_15c | Eczema | Dic | 0: No  1: Yes |
| H2\_16 | Asthma/hay fever/eczema as child | Dic | 0: No  1: Yes |
| H2\_17a | Self-reported asthma | Dic | 0: No  1: Yes |
| H2\_17b | If yes, number of years | Num | Years |
| H2\_17c\_(1-12) | Worst months:  1: Jan; 2: Feb; 3: Mar; 4: Apr; 5: May; 6: Jun; 7: Jul; 8: Aug; 9: Sep; 10: Oct; 11: Nov; 12: Dec. | Cat | 1: Yes |
| H2\_18 | Acute bronchitis/pneumonia past 10 years leading to MD visit or sick leave | Cat | 0: No  1: 1-5  2: 6-10  3: > 10 |
| H2\_19(a-l) | Allergy:  a: alder; b: hazel; c: birch; d: grass; e: mugwort; f:mold; g: dust mites; h: dog; i: cat; j: rabbit; k: horse; l: other | Cat | 1: Yes |
|  | Pain one/both legs when | | |
| H2\_20a | Initiation of walking | Dic | 0: No  1: Yes |
| H2\_20b | After walking a distance | Dic | 0: No  1: Yes |
| H2\_20c | If yes (H2\_20b), break needed | Dic | 0: No  1: Yes |
| H2\_20d | If yes, pain relief when break | Dic | 0: No  1: Yes |
| H2\_21a | Acute bronchitis, past 4 weeks | Dic | 0: No  1: Yes |
| H2\_21b | Cystitis, past 4 weeks | Dic | 0: No  1: Yes |
| H2\_21c | Acute fever, past 4 weeks | Dic | 0: No  1: Yes |
| H2\_22a | Self-reported diabetes (told by MD/nurse) | Dic | 0: No  1: Yes |
| H2\_22b | If yes, age at diagnosis | Num | Years |
| H2\_23a | Current/previous chronic diseases (can be looked up in scanned questionnaires) | Dic | 0: No  1: Yes |
| H2\_23b | If yes, age at diagnosis | Num | Years |

### 4. Children, Blood Donation and Menopause

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_24a | Born prematurely | Dic | 0: No  1: Yes |
| H2\_24b | If yes, number of weeks | Num | Weeks |
| H2\_24c | Birth weight | Num | Grams |
| H2\_25a | Current/previous blood donor | Dic | 0: No  1: Yes |
| H2\_25b | If yes, number of years | Num | Years |
| H2\_26 | Age of first menstrual cycle | Num | Years |
| H2\_27a | Menstrual cycles stopped due to menopause | Dic | 0: No  1: Yes |
| H2\_27b | If yes, at what age | Num | Years |
| H2\_28 | Number of abortions | Num | Number |
| H2\_29 | Number of live births | Num | Number |
| H2\_30 | Age at first live birth | Num | Years |
| H2\_31a | Breastfeeding | Dic | 0: No  1: Yes |
| H2\_31b | If yes, total duration for all children | Num | Months |

### 5. Smoking and Alcohol use

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| status\_smoking | \*Current smoking status | Cat | 0: Never  1: Current  2: Ex-smoker  9: Unknown |
| curr\_smoking | \*If current smoker, gram tobacco per day | Num | Unit: grams |
| cum\_smoking | \*Pack years in current and previous smokers | Num | Unit: packyears |
| H2\_32a | Current smoker | Dic | 0: No  1: Yes |
| H2\_32b | If no, previous smoker | Dic | 0: No  1: Yes |
| H2\_33 | Cumulative duration of smoking | Num | Years |
| H2\_34 | Age at smoking initiation | Num | Years |
| H2\_35 | If previous smoking, age at smoke cessation | Num | Years |
| H2\_36(a-e) | If current/previous smoker, average daily consumption of:  a: cigarettes (no filter); b: cigarettes (with filter); c: cheroots; d: cigars; e: pipe (packages of 40-50 g per week) | Num | Number per day |
| H2\_37 | Time from awakening to smoking | Cat | Minutes  1: < 5  2: 6-30  3: 31-60  4: > 60 |
| H2\_38 | Inhalation | Dic | 0: No  1: Yes |
| H2\_39a | Nicotine substitution (e.g. gum, patch) | Dic | 0: No  1: Yes |
| H2\_39b | If yes, cumulative duration of use | Num | Years |
| H2\_40a | E-cigarettes | Cat | 0: No  1: yes with nicotine  2: yes without nicotine |
| H2\_40b | If yes, duration | Num | Years |
| H2\_40c | Hours per day | Num | Hours |
| H2\_41 | Passive smoking exposure | Num | Hours per day |
| H2\_42 | Childhood (before age 18) exposure of passive smoking | Num | Years |
| H2\_43 | Adulthood (after age 18) exposure of passive smoking | Num | Years |
| H2\_44a | Current/previous marihuana use | Dic | 0: No  1: Yes |
| H2\_44b | If yes, duration | Num | Years |
| H2\_45 | Beverage intake per week | | |
| H2\_45a(1-12) | 1: whole milk; 2: low fat milk; 3: skim milk; 4: coffee; 5: tea; 6: coke; 7:coke light/zero; 8: soda; 9: soda light; 10: juice; 11: lemonade; 12: water.  Units:  1-3: glass; 4-5: cups; 6-9: x 0.5 l; 10-11: glass; 12: x 0.5 l | Num |  |
| H2\_45b | If coffee, time from awakening to first cup | Num | Hours |
| H2\_45c | If coke/soda, time from awakening to first soda | Num | Hours |
| alcohol | \*Weekly alcohol consumption | Num | Unit:gram |
|  | Alcoholic drinks | | |
| H2\_46\_1a | All alcoholic drinks | Cat | 0:Never  1:Monthly  2:Weekly  3: Daily |
| H2\_46\_2a | Beer | Cat | 0:Never  1:Monthly  2:Weekly  3: Daily |
| H2\_46\_2b | Weekly consumption (beer) | Num | Number of 33cl |
| H2\_46\_3a | White wine | Cat | 0:Never  1:Monthly  2:Weekly  3: Daily |
| H2\_46\_3b | Weekly consumption (white wine) | Num | Glass of 12.5 cl |
| H2\_46\_4a | Red wine | Cat | 0:Never  1:Monthly  2:Weekly  3: Daily |
| H2\_464b | Weekly consumption (red wine) | Num | Glass of 12.5 cl |
| H2\_46\_5a | Liqeur (Danish: *hedvin*) | Cat | 0:Never  1:Monthly  2:Weekly  3: Daily |
| H2\_46\_5b | Weekly consumption (liqeur) | Num | Glass of 8 cl |
| H2\_46\_6a | Liquor | Cat | 0:Never  1:Monthly  2:Weekly  3: Daily |
| H2\_46\_6b | Weekly consumption (liquor) | Num | 4 cl |
| H2\_46\_7a | Other alcoholic drinks | Cat | 0:Never  1:Monthly  2:Weekly  3: Daily |
| H2\_46\_7b | Weekly consumption (other) | Num | Number of drinks |
| H2\_47 | Frequency of consumption of > 5 drinks in one occasion during the past year | Cat | 0:Never  1: Less <1 per month  2: 1-3 per month  3: 1 per week  4: > 1 per week |
| H2\_48 | If no alcohol use, always been abstinent | Dic | 0: No  1: Yes |

### 6. Food

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_49 | Main courses | Num | Number per day |
| H2\_50 | Bread, pieces per day  1 piece = 0.5 rhye bread / 1 toast / 1 crispbread / 0.5 bun | Num | Number per day |
| H2\_51 | Type of butter on bread | Cat | 0: None  1: Butter  2: Spreadable *(Kærgården)*  3: Vegetable margarine *(Plantemargarine)*  4: Other |
| H2\_52(a-d) | Cold cut  a: Deli meats *(Kødpålæg)*  b: Pate *(Leverpostej)*  c: Fish  d: Cheese | Num | Times per week in average |
| H2\_53(a-f) | Meat intake  a: Beef  b: Pork  c: Poultry  d: Fish  e: Fastfood  f: Lamb | Num | Times per week in average |
| H2\_54 | Choice of fat for preparing warm dishes | Cat | 0: None  1: Butter  2: Spreadable *(Kærgården)*  3: Shortening *(Stegemargarine)*  4: Vegetable margarine *(Plantemargarine)*  5: Olive oil  6: Other oil  7: Other |
| H2\_55 | Vegetable intake | Cat | 0: Never  1: 1-3 /month  2: 1-2 /week  3: 3-4 /week  4: 5-6 /week  5: 1 /day  6: 2-3 /day  7: > 3/day |
| H2\_56 | Fruit intake (whole fruit/portion of fruit) | Cat | 0: Never  1: 1-3 /month  2: 1-2 /week  3: 3-4 /week  4: 5-6 /week  5: 1 /day  6: 2-3 /day  7: > 3/day |
| H2\_57 | Candy intake | Cat | 0: Never  1: 1-3 /month  2: 1-2 /week  3: 3-4 /week  4: 1 /day  5: > 1/day |
| H2\_58a | Chocolate intake | Cat | 0: Never  1: 1-3 /month  2: 1-2 /week  3: 3-4 /week  4: 1 /day  5: > 1/day |
| H2\_58b | If yes, |  | 1: Dark chocolate (> 70% cocoa)  2: Other |
| H2\_59 | Ecological food and drinks | Num | % |

### 7. Socioeconomic Status

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_60 | School duration (e.g. primary school, secondary school, highschool) | Num | Years |
| H2\_61 | Education, highest level achieved | Cat | 0: None  1: Short (≤ 3 yrs)  2: Vocational  3: Medium length (≥ 3 years, e.g. nurse, teacher)  4: University degree |
| H2\_62 | Occupation with longest duration after education | Cat | 1: Self-employed  2: Skilled *(faglært)*  3: Unskilled *(ufaglært)*  4: Salaried *(funktionær)*  5: Homeworking  6: Student  7: Unemployed/retired |
| H2\_63 | Living with | Cat | 1: Spouse/partner  2: Alone  3: Others |
| H2\_64 | Number of children | Num | Number |
| H2\_65 | Number of biological children | Num | Number |
| H2\_66 | Number of people in household incl. yourself | Num | Number |
| H2\_67 | Marital status | Cat | 1: Married/cohabitant  2: Unmarried  3: Separated/divorced  4: Widow/widower |
| H2\_68 | Total household income before taxes past 1 year | Cat | Unit: DKK  1: < 100,000  2: 100,000-200,000  3: 200,000-400,000  4: 400,000-600,000  5: 600,000-800,000  6: > 800,000 |
| H2\_69 | Number of people in household contributing to household income incl. yourself | Num |  |

### 8. Physical Activity

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_70(a-d) | Daily use of:  a: Television; b: Computer/tablet; c: Computer games; d: Mobile phone | Num | Minutes |
| H2\_71(a-d) | Number of years with daily use of:  a: Television; b: Computer/tablet; c: Computergames; d: Mobilephone | Num | Years |
| H2\_72 | Days per month with nightly work | Num | Days |
| H2\_73a | Physical activity at work | Cat | 1: Mostly seated  2: Seated or standing sometime walking  3: Walking sometimes uphill  4: Heavy work |
| H2\_73b | If H2\_73a “3” or “4”, then heavy lifting? | Dic | 0: No  1:Yes |
| H2\_73c | Hours outdoor | Num | Hours |
| H2\_74a | Physical activity in spare time | Cat | 1: Inactive  2: Slightly active  3: Moderately active  4: Very active |
| H2\_74b | If H2\_74a “3” or “4”, then heavy lifting? | Dic | 0: No  1:Yes |
| H2\_74c | Hours outdoor | Num | Hours |
| H2\_75a | Motion habits changed markedly past 1 year | Dic | 0: No  1: Yes |
| H2\_75b | If yes: | Dic | 1: more  2: less |

### 9. Family History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_76 | Biological siblings | Num | Number |
| H2\_77 | Medical history of biological parents/siblings |  |  |
| H2\_77(1a-9a) | Has your biological mother had  1a: myocardial infarction  2a: stroke  3a: asthma  4a: COPD  5a: diabetes  6a: hypertension  7a: high cholesterol  8a: depression  9a: cancer  (which cancer can be looked up in scanned questionnaires) | Cat | 0: No  1: Yes  9: Don’t know |
| H2\_77(1b-9b) | Has your biological father had  1b: myocardial infarction  2b: stroke  3b: asthma  4b: COPD  5b: diabetes  6b: hypertension  7b: high cholesterol  8b: depression  9b: cancer  (which cancer can be looked up in scanned questionnaires) | Cat | 0: No  1: Yes  9: Don’t know |
| H2\_77(1c-9c) | Has your biological father had  1c: myocardial infarction  2c: stroke  3c: asthma  4c: COPD  5c: diabetes  6c: hypertension  7c: high cholesterol  8c: depression  9c: cancer  (which cancer can be looked up in scanned questionnaires) | Cat | 0: No  1: Yes  9: Don’t know |
| H2\_77d | Age at first time myocardial infarction/stroke, mother | Num | Years |
| H2\_77e | Age at first time myocardial infarction/stroke, father | Num | Years |
| H2\_77f | Age at first time myocardial infarction/stroke, sibling | Num | Years |
| H2\_78a | Mothers educational level | Cat | 1: No/short  2: Training  3: Medium length  4: University |
| H2\_78b | Fathers educational level |

### 10. Psychological Status

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_79 | Nervous or stressed frequently | Dic | 0: No  1: Yes |
| H2\_80 | Like giving up | Dic | 0: No  1: Yes |
| H2\_81 | Inadequacy | Dic | 0: No  1: Yes |
| H2\_82a | History of depression | Dic | 0: No  1: Yes |
| H2\_82b | If yes, cumulative duration of depression | Num | Months |
| H2\_83a | Medical treatment of depression | Dic | 0: No  1: Yes |
| H2\_83b | If yes, cumulative duration of treatment | Num | Months |
|  | In the past 2 weeks, frequency of: | | |
| H2\_84a | Little interest/inspiration | Cat | 0: never  1: days  2: > every second day  3: Every day |
| H2\_84b | Depressed, hopeless, sad |
| H2\_85 | Sleep duration | Num | Hours per day |
| H2\_86 | Sleep quality | Cat | 1: Calm  2: Not calm  3: Interrupted |
| H2\_87 | How old do you think you will be | Num | Years |

### 11. Skin exposures

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| H2\_88 | Number of tattoos | Num |  |
| H2\_89 | Daily use of make-up | Cat | 0: No  1: yes, eyes and lips  2: yes, all face |
| H2\_90(a-c) | Weekly use of:  a: body lotion; b: deodorant; c: perfume | Num | Unit: days |
| H2\_91 | Natural hair color | Cat | 1: Red  2: Blond  3: Brown  4: Black |
| H2\_92a | Use of hair color | Dic | 0: No  1: Yes |
| H2\_92b | If yes, number of years | Num | Years |
| H2\_93 | Eye color | Cat | 1: Blue  2: grey  3: green  4: brown |
| H2\_94 | Skin reaction after ½ hour sun exposure in spring | Cat | 1: Red, no tan  2: Red, light tan  3: Rarely red, tan  4: Never red, tan |
| H2\_95 | Sunburn before age 20 | Cat | 0: never  1: < 1 x per year  2: 1 x per year  3: > 1 x per year |
| H2\_96 | Solarium use past 10 years | Cat | 0: Never  1: Rarely  2: Always before vacation  3: < 1 x per month  4: Every month  5: Every week |
| H2\_97 | Sun protection use | Cat | 0: Never  1: Rarely  2: Weekly (summer)  3: Daily (summer) |
| H2\_98 | Moles on the skin, estimated total number | Cat | 1: < 10  2: 11-30  3: 31-50  4: 50-100  5: > 100 |

### 12. Childhood history (before age 15 years) of lung infections and tobacco exposures

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| L01 | Asthma | Dic | 0: No  1: Yes |
| L01a | If yes, age at diagnosis | Num | Unit: years |
| L02 | Asthma treatment | Dic | 0: No  1: Yes |
| L02a | If yes, years for treatment | Num | Unit: years |
| L03 | Bronchitis or asthmatic bronchitis | Dic | 0: No  1: Yes |
| L03a | If yes, age at diagnosis | Num | Unit: years |
| L04 | Frequent lung infections (acute bronchitis and/or pneumonia) | Dic | 0: No  1: Yes |
| L05 | Doctors visit or sick leave due to lung infection in childhood | Dic | 0: No  1: Yes |
| L06 | Antibiotic treatment for lung infections in childhood | Dic | 0: No  1: Yes |
| L07 | If any lung infections, number during childhood | Cat | 1: 1  2: 2  3: 3-4  4: 5-8  5: > 8 |
| L08 | Allergy | Dic | 0: No  1: Yes |
| L08a | If yes, age at diagnosis | Num | Unit: years |
| L09 | Hay fever | Dic | 0: No  1: Yes |
| L09a | If yes, age at diagnosis | Num | Unit: years |
| L10 | Eczema | Dic | 0: No  1: Yes |
| L10a | If yes, age at diagnosis | Num | Unit: years |
| L11 | Smoking during childhood | Dic | 0: No  1: Yes |
| L12 | Smoking during childhood, duration | Num | Unit: years |
| L12a | If less than 1 years, duration | Num | Unit: months |
| L13 | Age at smoking initiation | Num | Unit: Years |
| L14a | Mother smoking during childhood | Cat | 0: No  1: Yes  9: unknown |
| L14b | Father smoking during childhood | Cat | 0: No  1: Yes  9: Unknown |
| L15 | Mother smoker during pregnancy | Cat | 0: No  1: Yes  9: Unknown |
| L16 | Father smoker during pregnancy | Cat | 0: No  1: Yes  9: Unknown |
| L17 | Mother smoker during breastfeeding | Cat | 0: No  1: Yes  9: Unknown |
| L18 | Mothers age at birth | Num | Unit: years |
| L19a(1-3) | Has your biological mother (1), father (2), or sibling (3) been diagnosed with COPD? | Cat | 0: No  1:Yes  9:Unkown |
| L19b(1-3) | Has your biological mother (1), father (2), or sibling (3) been diagnosed with asthma? | Cat | 0: No  1:Yes  9:Unkown |
| L19c(1-3) | Has your biological mother (1), father (2), or sibling (3) been diagnosed with asthma in childhood? | Cat | 0: No  1:Yes  9:Unkown |
| L19d(1-3) | Has your biological mother (1), father (2), or sibling (3) been diagnosed with allergy? | Cat | 0: No  1:Yes  9:Unkown |
| L19e(1-3) | Has your biological mother (1), father (2), or sibling (3) been diagnosed with allergy in childhood? | Cat | 0: No  1:Yes  9:Unkown |
| L19f(1-3) | Has your biological mother (1), father (2), or sibling (3) been diagnosed with other form of lung disease? | Cat | 0: No  1:Yes  9:Unkown |

### 13. Lung symptoms

Definition of airway symptoms: cough, chest pain, short of breath, wheezing or chest tightness

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| L20 | Airway symptoms during *daytime* | Dic | 0: No  1: Yes |
| L20a | If yes, frequency during past 4 weeks | Cat | 1: ≤ 2 times per week  2: > 2 times per week |
| L21 | Airway symptoms during *night* | Dic | 0: No  1: Yes |
| L21a | If yes, frequency during past 4 weeks | Cat | 1: ≤ 2 times per week  2: > 2 times per week |
| L22 | Lung infections since previous participation leading to doctor or sick leave (if relevant) | Cat | 0: No  1: 1-5  2: 6-10  3: > 10 times |
| L25a | I never cough – I always cough | Scale | 0 - 5 |
| L25b | No mucus in lungs – Lungs all filled with mucus | Scale | 0 – 5 |
| L25c | No chest tightness – Very chest tightness | Scale | 0 - 5 |
| L25d | No shortness of breath – Very shortness of breath when climbing a hill or walking 1 floor up | Scale | 0 - 5 |
| L25e | No activity limits at home – Very limited in every activity at home | Scale | 0 - 5 |
| L25f | Confidence to leave home – No confidence to leave home | Scale | 0 - 5 |
| L25g | I sleep deeply – I don’t sleep deeply | Scale | 0 - 5 |
| L25h | A lot of energy – No energy | Scale | 0 - 5 |

### 14. Exposure to external agents

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| L23 | Exposure to steam, dust or smoke during working hours | Dic | 0: No  1: Yes |
| L23(a-e) | If yes, duration of exposure to  a: passive smoking; b: Steam; c: Gases; d: Dust; e: Smoke | Num | Unit: years |
| L24(a-p) | Regular work exposure to  a: irritative gases  b: fire or smoke  c: incinerator, oil refinery  d: indoor fuel combustion  e: diesel engine exhaustion  f: explosive and fumes from explosives  g: flour  h: animal food  i: cotton dust  j: wood dust  k: coal dust  l: silica, sand  m: cadmium fumes  n: other forms of metal dust  o: welding and cutting  p: glass fibers | Dic | 0: No  1: Yes |
| L24(a1-p1) | Regular work exposure to  a: irritative gases  b: fire or smoke  c: incinerator, oil refinery  d: indoor fuel combustion  e: diesel engine exhaustion  f: explosive and fumes from explosives  g: flour  h: animal food  i: cotton dust  j: wood dust  k: coal dust  l: silica, sand  m: cadmium fumes  n: other forms of metal dust  o: welding and cutting  p: glass fibers | Num | Unit:Years |

### 15. Self-reported medication use

Covers daily or nearly daily medication use. For each variable individuals fill out the drug name that can be accessed from electronic scanned questionnaires.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| m2\_01 | Aspirin | Dic | 0: No  1: Yes |
| m2\_01a | Cumulative use | Num | Unit: Years |
| m2\_02a | Antihypertensives | Dic | 0: No  1: Yes |
| m2\_02a1 | Cumulative use | Num | Unit: Years |
| m2\_02b | Other antihypertensive | Dic | 0: No  1: Yes |
| m2\_02b1 | Cumulative use | Num | Unit: Years |
| m2\_02c | Other antihypertensive | Dic | 0: No  1: Yes |
| m2\_02c1 | Cumulative use | Num | Unit: Years |
| m2\_03a | Drugs to treat heart conditions | Dic | 0: No  1: Yes |
| m2\_03a1 | Cumulative use | Num | Unit: Years |
| m2\_03b | Other drug to treat heart conditions | Dic | 0: No  1: Yes |
| m2\_03b1 | Cumulative use | Num | Unit: Years |
| m2\_03c | Other drug to treat heart conditions | Dic | 0: No  1: Yes |
| m2\_03c1 | Cumulative use | Num | Unit: Years |
| m2\_(04-24) | 04: Diuretics  05: Anti dyslipedemics  06: Arthritis medication  07: Hypnotica  08: Anxiolytics/antidepressant  09: Tx for gastric acidity  10: Tx for asthma/bronchitis/COPD  11: Insulin  12: Other antidiabetic medication  13: Birth control pills  14: Menopausal medication  15: Medication for eye conditons  16: Medication for weight loss 17: Anti-coagulative therapy  18: Treatment for hyperthyroidism  19: Treatment for hypothyroidism  20: Paracetamol  21: Other pain relief medication  22: Other medication  23: D-vitamin  24: Other vitamin | Dic | 0: No  1: Yes |
| m2\_(04a-24a) | Cumulative use | Num | Unit: Years |
| m2\_25a | Natural remedies | Dic | 0: No  1: Yes |
| m2\_25a1 | Cumulative use | Num | Unit: Years |
| m2\_25b | Other natural remedies | Dic | 0: No  1: Yes |
| m2\_25b1 | Cumulative use | Num | Unit: Years |
| m2\_25c | Other natural remedies | Dic | 0: No  1: Yes |
| m2\_25c1 | Cumulative use | Num | Unit: Years |
| m2\_26(a-e) | HIV combination treatment | Dic | 0: No  1: Yes |
| m2\_26(a1-e1) | Cumulative use | Num | Unit: Years |
| m2\_27(a-d) | Other HIV related treatment | Dic | 0: No  1: Yes |
| m2\_27(a1-d1) | Cumulative use | Num | Unit: Years |

### 16. Illicit drug use

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| m2\_28\_1 | Drug use other than alcohol/marihuana (e.g. Cocaine, ecstasy, heroin, benzodiazepine, amphetamine) | Cat | 1: Daily  2: Weekly  3: Monthly  4: Rarely  5: Previous  6: Never  7: Unknown |
| M2\_28\_2a | Duration of drug use | Cat | 1: < 1 year  2: > 1 year  3: Unknown |
| M2\_28\_2b | If more than 1 year, duration | Num | Unit: Years |
| M2\_28\_3 | Intravenous drug use | Cat | 0: No  1: Often  2: Once in a while  3: Rarely  9: Unknown |
| M2\_28\_4 | Replacement therapy or methadone treatment | Dic | 0: No  1: Yes |

### 17. Biochemical analysis

All numeric:

|  |  |
| --- | --- |
| adpn | P-Adiponectin (µg/mL) |
| alat | P-Alanintransaminase (U/L) |
| albumin | P-Albumin (µmol/L) |
| pa | P-Amylase pancreastype (U/L) |
| a1\_tryp | P-Antitrypsin (g/L) |
| apoa1 | P-Apolipoprotein A1 (g/L) |
| apob | P-Apolipoprotein B (g/L) |
| apoe | P-Apoliprotein E (mg/L) |
| aptt | P-Koag. overflade-induceret [APTT] (s) |
| asat | P-Aspartattransaminase [ASAT] (U/L) |
| bas\_fos | P-Basisk phosphatase (U/L) |
| bilirubi | P-Bilirubiner (µmol/L) |
| compl\_c3 | P-Complement C3 (g/L) |
| ca\_ion | P-Calcium-ion (mmol/L) |
| carbamid | P-Karbamid (mmol/L) |
| chol | P-Kolesterol (mmol/L) |
| ck | P-Kreatinkinase (U/L) |
| chlorid | P-Chlorid (mmol/L) |
| creatini | P-Creatininium (µmol/L) |
| d\_dimer | P-Fibrin D-Dimer (mg FEU/L) |
| eos\_diff | B-Eosinofilocytter (× 10E9/L) |
| erythro | B-Erytrocytter (× 10E12/L) |
| ERYBLAST | B-Erytroblaster (× 10E9/L) |
| ERYRDW | Erc-Erytrocytvol. rel. spredning (No unit) |
| ETHA | P-Ethanol (g/L) |
| ery\_vol | B-Erytrocytter, vol.fr. (No unit) |
| fibrinog | P-Fibrinogen (µmol/L) |
| ggt | P-Glutamyltransferase (U/L) |
| glucose | P-Glucose (mmol/L) |
| hgb | B-Hæmoglobin (mmol/L) |
| hba1c | Hb-Hæmoglobin A1c (IFCC) (mmol/mol) |
| hba1c\_p | Hb-Hæmoglobin A1c (%) |
| bikarbonat | P-Hydrogencarbonat (standard) (mmol/L) |
| hdl | P-Cholesterol+ester, i HDL (mmol/L) |
| hdl3 | P-HDL3-Cholesterol (mg/dL) |
| hscrp | P-C-reaktivt protein [CRP] (mg/L) |
| iga | P-Immunglobulin A (g/L) |
| ige | P-Immunglobulin E (× 10E3 int.enh./L) |
| inr | P-Koagulationsfaktor II+VII+X [INR] (No unit) |
| jern | P-Jern (µmol/L) |
| kalium | P-Kalium (mmol/L) |
| k2\_7\_10 | P-Koagulationsfaktor II+VII+X (%) |
| ldh | P-Laktatdehydrogenase (U/L) |
| ldl | P-Kolesterol LDL (mmol/L) |
| LDLD | P-Kolesterol LDL (Direkte) (mmol/L) |
| ldltg | P-LDL-Triglycerid (mg/dL) |
| leukocyt | B-Leukocytter (× 10E9/L) |
| lpa | P-Lipoprotein(a) (mg/dL) |
| mchc | Erc-Hæmoglobin [MCHC] (mmol/L) |
| mcv | Erc-Erytrocytvol. Middel [MCV] (fL) |
| mg | P-Magnesium (mmol/L) |
| natrium | P-Natrium (mmol/L) |
| remnchol | P-remnant Cholesterol (mg/dL) |
| rheuma | P-Rheumafaktor (× 10E3 int.enh./L) |
| sdldl | P-SD-LDL (Small dense LDL) (mg/dL) |
| T3TEST | P-Triiodthyronin reaktion (arb.enh.) |
| trombocy | B-Trombocytter (× 10E9/L) |
| THROMVOL | B-Trombocytvolumen (middel) (fL) |
| THYRFRI | P-Thyroxin frit [T4] (pmol/L) |
| thyroxin | P-Thyroxin [T4] (nmol/L) |
| transfer | P-Transferrin (µmol/L) |
| trig | P-Triglycerid (mmol/L) |
| triiodth | P-Triiodthyronin [T3] (nmol/L) |
| lipase | P-Triacylglycerollipase (U/L) |
| tsh | P-Thyrotropin(TSH) (× 10E-3 IU/L) |
| urat | P-Urat (mmol/L) |
| bas\_diff | B-Basofilocytter (× 10E9/L) |
| BLASTMIK | B-Blastceller (× 10E9/L) |
| eag | P-Glucose, middel (fra HBA1C) (mmol/L) |
| ERYKERN | B-Kerneholdige (/100 Leuk.) |
| LEUUSP | B-Leukocytter (uspec.) (× 10E9/L) |
| lym\_diff | B-Lymfocytter (× 10E9/L) |
| met\_diff | B-Metamyelocytter (× 10E9/L) |
| mon\_diff | B-Monocytter (× 10E9/L) |
| mye\_diff | B-Myelocytter (× 10E9/L) |
| neu\_diff | B-Neutrofilocytter (× 10E9/L) |
| plas\_dia | B-Plasmocytter (× 10E9/L) |
| pro\_diff | B-Promyelocytter (× 10E9/L) |
| SUCEL | B-Store ufarvede celler (× 10E9/L) |

### 18. HIV associated variables

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Format** | **Definition** |
| Id | Participant ID | String |  |
| Incl\_date | Date of study inclusion |  |  |
| Ethnic | Ethnicity defined as in the Danish HIV cohort  NOTE: these data are only available for HIV and not for CGPS participants | Cat | 1: caucasian  2: asian  3: black  4: other  5: inuit |
| Origin | Origin defined as in the Danish HIV cohort  NOTE: these data are only available for HIV and not for CGPS participants | Cat | 1: Denmark  2: Europe  3: Africa  4: North America  5: Asia  6: Greenland  7: Other |
| Transm\_origin | Origin of HIV transmission | Cat | 1: Denmark  2: Europe  3: Africa  4: North America  5: Asia  6: Greenland  7: Other |
| Transm\_mode | Mode of HIV transmission | Cat | 1.Homo/biseksuel,  2. iv drug use,  3.homoseksuel+misbrug4.hæmofili 5.blodtransfusion 6.heteroseksuel,  7. andet  8. unknown 9.perinatal |
| Transm\_time | Date of HIV transmission (if known) | Date | dd-mm-yyyy |
| HIV\_date | Date of HIV diagnosis | Date | dd-mm-yyyy |
| CD4 | Current CD4 count (closest to date of inclusion) | Num |  |
| CD4\_date | Date current CD4 count | Date | dd-mm-yyyy |
| CD4\_nadir | Lowest recorded CD4 | Num |  |
| CD4\_nadir\_date | Date of lowest recorded CD4 | Date | dd-mm-yyyy |
| CD4\_ART | CD4 at ART initiation | Num |  |
| CD4\_ART\_date | Date of CD4 at ART initiation | Date | dd-mm-yyyy |
| CD8 | Current CD8 count | Num |  |
| VL | Current viral load | Num |  |
| VL\_date | Date of current Vl | Date | dd-mm-yyyy |
| VL\_ART | VL at ART initiation | Num |  |
| CDCAIDS | Previous AIDS defining condition | Dic | 0: no  1: yes |
| AIDS\_date | Date of AIDS defining condition (if any) | Date | dd-mm-yyyy |
| Cand\_oes | Candida esophagitis | Dic | 0: no  1: yes |
| Cand\_other | Other candida infection | Dic | 0: no  1: yes |
| Cervix\_c | Cervix cancer | Dic | 0: no  1: yes |
| Cocci | Coccidioidomycosis, disseminated or extrapulmonary | Dic | 0: no  1: yes |
| Crypt | Cryptococcal infection | Dic | 0: no  1: yes |
| Cryptospo | Cryptosporidiosis, chronic intestinal (>1 month's duration) | Dic | 0: no  1: yes |
| CMV\_ret | Cytomegalovirus disease (other than liver, spleen, or nodes), onset at age >1 month | Dic | 0: no  1: yes |
| CMV\_other | Cytomegalovirus retinitis (with loss of vision | Dic | 0: no  1: yes |
| HSV | Herpes simplex: chronic ulcers (>1 month's duration) or bronchitis, pneumonitis, or esophagitis | Dic | 0: no  1: yes |
| Encephal | Encephalopathy, HIV related | Dic | 0: no  1: yes |
| Histopl | Histoplasmosis, disseminated or extrapulmonary | Dic | 0: no  1: yes |
| Isospo | Isosporiasis, chronic intestinal | Dic | 0: no  1: yes |
| Kapo | Kaposi sarcoma | Dic | 0: no  1: yes |
| LID | Lymphoid interstitial pneumonia or pulmonary lymphoid hyperplasia complex | Dic | 0: no  1: yes |
| Lymp\_burk | Lymphoma, Burkitt | Dic | 0: no  1: yes |
| Lymphom\_immun | Lymphoma, immunoblastic | Dic | 0: no  1: yes |
| Lymphom\_prim | Lymphoma, primary, of brain | Dic | 0: no  1: yes |
| MAC | Mycobacterium avium complex or Mycobacterium kansasii, disseminated or extrapulmonary | Dic | 0: no  1: yes |
| MTB | Mycobacterium tuberculosis of any site | Dic | 0: no  1: yes |
| Myco\_other | Mycobacterium, other species or unidentified species | Dic | 0: no  1: yes |
| PCP | Pneumocystis jirovecii pneumonia | Dic | 0: no  1: yes |
| PCP\_rec |  | Dic | 0: no  1: yes |
| Toxo | Toxoplasmosis of brain | Dic | 0: no  1: yes |
| Waste | Wasting syndrome attributed to HIV | Dic | 0: no  1: yes |
| Salm | Salmonella septicemia, recurrent | Dic | 0: no  1: yes |
| Pneu\_recur | Pneumonia, recurrent | Dic | 0: no  1: yes |
| Leuencp | Progressive multifocal leukoencephalopathy | Dic | 0: no  1: yes |
| HbSag | Positive HBsAg | Dic | 0: no  1: yes |
| HbEAg | Positive HBeAg | Dic | 0: no  1: yes |
| Anti\_hbs | Positive ab anti-HBs | Cat | 0: no  1: yes  2: not measured |
| Anti\_hbcigm | Positive IgM anti-HBc | Dic | 0: no  1: yes |
| Anti-hbcigg | Positive IgG anti-HBc | Dic | 0: no  1: yes |
| Anti\_hbe | Positive ab anti-HBe | Dic | 0: no  1: yes |
| HCV\_rna | Positive HCV RNA | Dic | 0: no  1: yes |
| HCV\_anti | Positive HCV antibodies | Dic | 0: no  1: yes |
| HCV\_geno | HCV genotype | Text |  |
| HCV\_curr(1-3) | Current HCV treatment (3 variables) | Cat | List of HCV available drugs |
| HCV\_curr(1-3)\_date | Date of initiation of current HCV treatment | Date | dd-mm-yyyy |
| HCV\_prev(1-3) | Previous HCV treatment (3 variables) | Cat | List of HCV available drugs |
| HCV\_prev(1-3)\_dur | Duration of previous HCV treatment | Num | Unit: months |
| HCV\_detect\_date | Date of HCV ab or RNA detection | Date | dd-mm-yyyy |
| HCV\_undetect\_date | Date of first undetectable HCV RNA after HCV infection | Date | dd-mm-yyyy |
| Syph | Syphilis infection | Dic | 0: no  1: yes |
| CMV\_igg | CMV IgG | Cat | 0: no  1: yes  2: not measured |
| cART | Current cART | Dic | 0: no  1: yes |
| cART\_date | Date of cART initiation | Date | dd-mm-yyyy |
| cART\_naive | ART naïve at cART initiation | Dic | 0: no  1: yes |
| ART(1-5) | Current cART (5 variables) | Cat | List of HIV available drugs |
| ART(1-5)\_dur | Duration of current cART (5 variables) | Num | Unit: months |
| ART(1-10)\_prev | Previous cART(10 variables) | Cat | List of HIV available drugs |
| ART(1-10)\_prev\_dur | Duration of previous cART (10 variables) | Num | Unit: months |