

DOCUMENTATION OF THE CONOR FILE**Introduction**

CONOR (Cohort of Norway) is a research collaboration network that includes several large Norwegian health surveys. The CONOR data file consists of questionnaire data from the health surveys, results from analyses of blood samples, and standardized measurements of weight, height, hip/waist circumference, blood pressure, and heart rate. The CONOR data also comprises a sample of frozen full blood or blood clot from each participant from which DNA is extracted for use in genetic-epidemiological studies.

The 11 health surveys that have contributed data to the CONOR dataset as of March 2011, were carried out between 1994 and 2003. All surveys were carried out by the National Health Screening Service (NHSS; merged with the NIPH in 2002) alone or in a collaboration with the University of Tromsø (Tromsø 4 and 5), Norwegian University of Technology and Science (HUNT 2), University of Bergen (HUSK), or the University of Oslo (OSLO II, HUBRO, Immigration-HUBRO, MoRo 2).

A trained and experienced screening team from NHSS carried out standardized brief health examinations. For documentation of materials and methods, see [Cohort of Norway \(CONOR\): Materials and Methods](#). Common questionnaires were used, however only to a certain extent, and a common core of some 50 questions make up the “CONOR questions”.

Some of those CONOR questions were phrased differently in the health surveys, response categories differ for some questions, and some questions have been asked only in a subset of the health surveys. To harmonize those variables, the questions and/or response categories have been recoded to a common scale, as documented on the following pages. Harmonized variables are shown in **bold**.

Throughout this document we use abbreviations and number according to the chronological order of the different health surveys. The complete list of their full names, abbreviations, and numbers are:

Full name	Abbreviation	Year of survey	Number
The fourth Tromsø Study	TROMSØ IV (Tro4)	1994-1995	1
The second North-Trøndelag Study	HUNT II (Hun2)	1995-1997	2
The Hordaland Study	HUSK (Husk)	1997-1999	3
The second Oslo Study	OSLO II (OsI2)	2000	9
The Oslo Health Study	HUBRO (Hubr)	2000-2001	4
The Hedmark and Oppland Health Study	OPPHED (Opph)	2000-2001	5
The fifth Tromsø Study	TROMSØ V (Tro5)	2001	6
The Oslo Immigration Study	Immigration-HUBRO (IHub)	2002	11
The Finnmark Health Study	TROFINN-Finnmark (TrFi)	2002	8
The Troms Health Study	TROFINN-Troms (Trtr)	2002	7
The second part of the Romsås in Motion Study	MoRo 2 (Moro)	2003	10

This document contains information for each variable. The variables are ordered as displayed in NESSTAR WebView (<http://conor.uit.no/conor>). The variables have been allocated into 15

different categories. Each category consists of a set of variables (general information of the participants, measurements, answers to the CONOR-questions). Each category starts with the subscript CATEGORY and each variable starts with a "Q". Variables that refer to a specific health survey question, are followed by the actual phrasing of the question, labeled as "CONOR question". Most CONOR questions were identical in all health surveys, and are presented here without any comment. Comments are added to those questions that differ between surveys, and to those question for which there are differences in the response categories. In addition, we also include a table showing for which health surveys information exists for that specific variable. We have also included variable names (small letters) which were used before CONOR variables were displayed in the NESSTAR WebView system.

Important: Raw data imported from the surveys have not been changed

Some of the respondents have given answers or have measurements that are unlikely or even obviously incorrect. As an example, the number of years of education is unlikely large for some people and the height is unlikely low for other participants. In the implementation of the CONOR-file and the following process of quality control, we have concluded that all unlikely values are due to incorrect marks made by the respondents, and that it is impossible for the administrators to decide if the answers are correct or not. We have not corrected any of these unlikely or 'strange' value. **The interpretation of what is likely or not likely is the responsibility of each researcher, who should judge each variable carefully and create inclusion and exclusion criteria for analysis as considered appropriate.**

CATEGORY: CONSENT

Q: Consent (CONSENT_COMBINED_CO, samtkomb)

CATEGORY: GENERAL INFORMATION

Q: Birth month (MONTH_BORN_CO, fmnd)

Q: Birth year (YEAR_BORN_CO, fodt)

Q: Sex (SEX_CO, kj)

Q: Marital status (MARITAL STATUS_CO, sivil)

Q: Have filled in questionnaire (HAVE_FILLED_IN_QUESTIONNAIRE_CO, svspm_v3)

This variable is equal to 1 if at least one question in the questionnaire has been answered and 0 otherwise. 268 individuals did not complete the questionnaire; 262 from The second North-Trøndelag Health Study.

Q: County of residence (COUNTY_CO, fylke)

CONOR question: In which county do you live?

Q: Municipality of residence (MUNICIPALITY_OF_RESIDENCE_CO, kommnr)

CONOR question: In which municipality do you live?

This variable is not shown in the NESSTAR WebView-system, but is available for researchers on request.

Q: Type of municipality (SSB 2002) (MUNICIPALITY_TYPE_1_CO, nykomm_1)

Categorization of municipalities into three categories dependent on population size: rural (< 10 000), densely populated (10 000 -19 999), and cities (> 20 000).

Q: Type of municipality (SSB 2002) Tromsø according to constituencies (MUNICIPALITY_TYPE_2_CO, nykomm_2)

Categorization of municipalities into three categories dependent on population size: rural (< 10 000), dense (10 000 -19 999), and cities (> 20 000. Participants from the Tromsø Study were categorized as city-dwellers or rural-dwellers, according to region of residency within the municipality

Q Area of the world born (16) (COUNTRY_BORN_16_CO, fodeland_13)

CONOR question: In which country were you born?

The different countries are split into 16 groups: Norway, Western Europe, Eastern Europe, SFR-Yugoslavia/Albania, North Africa, Sub-Saharan Africa, Middle-East, Indian sub-continent, East Asia, Pacific Ocean, North America, Central America, South America, Australia, Foreign unspecified. See appendix table A1 for details.

Q: Area of the world born (18) (COUNTRY_BORN_18_CO, fodeland_15)

CONOR question: In which country were you born (18 areas)

The different countries are split into 18 groups: Norway, Western Europe, Eastern Europe, SFR-Yugoslavia/Albania, North Africa, Sub-Saharan Africa, Middle-East, Indian sub-continent, East Asia, Pacific Ocean, North America, Central America, South America, Oceania/Pacific, Central Asia, Southeast Asia, Foreign unspecified. See appendix table A2 for details.

Q: Blood test results exist (BLOOD_TEST_RESULTS_EXIST_CO, blodres)

The variable is equal to 1 if at least one result from blood analyses exists and 0 otherwise.

Q: Age at examination time (AGE_CO, alder)

Q: Birth year, categorized (BIRTH_YEAR_GROUP_CO, faarinnd)

Based on age at examination date.

Q: Number of invitations to a CONOR survey (NO_INVITED_CO, antall)

Number of times the individual has been invited to a CONOR-survey (1, 2, 3)

Q: Number of times participated (NO_PARTICIP_CO, antg)

Total number of times each individual has participated in a CONOR survey (1, 2, 3 times).

Q: Which time participated in a CONOR-survey (SEQ_NO_PARTICIP_CO, antmed)

The actual time an individual participated (first, second third).

Q: Age categorized (AGE_GROUP_CO, aldergr)

Age is age at examination date.

Q: County of residence at age 1 (COUNTY_LIVE_1_CO, b1.fylke)

CONOR question: In which municipality did you live at the age of 1 year (if you did not live in Norway, give country of residence instead of municipality).

Tro4	Hun2	Husk	Os12	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
------	------	------	------	------	------	------	------	------	------	------

X	X	X	X	X	X	X	X			
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The municipalities have been allocated to the respective counties by the CONOR administration

CATEGORY: PHYSICAL EXAMINATION

Please find additional information regarding physical examination:

<http://www.fhi.no/dokumenter/771ef49fcc.doc>.

Q: Day of health survey (DAY_SURVEY_CO, dag)

If the date of the medical examination is missing, the following dates have been imputed.

These are the latest possible date for each health survey:

TROMSØ IV	June 30 1995	TROFINN-Finnmark	October 31 2002
HUNT II	June 30 1997	Tromsø V	December 31 2001
HUSK	June 30 1999	Oslo 2	September 30 2001
HUBRO	September 30 2001	Innvandrer-HUBRO	November 30 2002
OPPHED	November 30 2001	MoRo	May 31 2003
TROFINN-Troms	March 31 2002		

Q: Year of health survey (YEAR_SURVEY_CO, aar)

As above

Q: Waist circumference (cm) (WAIST_CO, midje)

One unlikely value (0 cm)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
	X	X	X	X	X	X	X	X	X	X

Q: Hip circumference (cm) (HIP_CO, hofte)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
	X	X	X	X	X	X	X	X	X	X

Q: Arm circumference (cm) (ARM_CO, arm)

Two unlikely values (0 and 3 cm)

Q: Size of cuff (CUFF_CO, mansjett)

The size of the blood pressure measurement cuff was chosen on basis of arm circumference.

Q: Dinamap device number (DINAMAP_CO, appnr)

This variable is not shown in NESSTAR

Q: Time since last meal (hours) (TIME_SINCE_LAST_MEAL_CO, tidmaalt)

Selfreported; Oral question in connection with blood sampling

Q: Systolic blood-pressure (mmHg) (first measurement) (SYSBP1_CO, syst1)

Unlikely values (0)

Q: Systolic blood-pressure (mmHg) (second measurement) (SYSBP_2_CO, syst2)

Unlikely values (0)

Q: Systolic blood-pressure (mmHg) (third measurement) (SYSBP_3_CO, syst3)

Unlikely values (0)

Q: Diastolic blood-pressure (mmHg) (first measurement) (DIABP_1_CO, diast1)

Unlikely values (0)

Q: Diastolic blood-pressure (mmHg) (second measurement) (DIABP_2_CO, diast2)

Unlikely values (0)

Q: Diastolic blood-pressure (mmHg) (third measurement) (DIABP_3_CO, diast3)

Q: Diastolic blood-pressure (mmHg) (mean of reading 2 and 3) (MEAN_DIABP, snittdiast)

Values equal to 0 are treated as missing.

Q: Mean arterial pressure (MAP_1_CO, mtrykk1):

Q: Mean arterial pressure (MAP_2_CO, mtrykk2):

Q: Mean arterial pressure (MAP_3_CO, mtrykk3)

Q: Heart rate first measurement (HR1_CO, puls1)

Unlikely values (<10)

Q: Heart rate second measurement (HR2_CO, puls2)

Unlikely values (<10)

Q: Heart rate third measurement (HR3_CO, puls3)

Unlikely values (0)

Q: Height (cm) (HEIGHT_CO, hoyde)

One unlikely value (16 cm)

Q: Weight (kg) (WEIGHT_CO, vekt)

Q: Comments to weight/height measurements (COMMENT_WH_CO, kode)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

CATEGORY: LABORATORY DATA

Q: Total cholesterol (mmol/l) (CHOLESTEROL_CO, kol)

Six unlikely values (< 0.1 mmol/l)

Q: Comment cholesterol (CHOLESTEROL_COMMENTS_CO, kolkomm)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: Triglycerides (mmol/l) (TRIGLYCERIDES_CO, tri)

One unlikely value (0.0 mmol/l)

Q: Comment triglyceride (TRIGLYCERIDES_COMMENTS_CO, trikomm)_

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: Glucose (mmol/l) (GLUCOSE_CO, gluk)

24 unlikely values (0 mmol/l)

Q: Comment glucose (GLUCOSE_COMMENTS_CO, glukkomm)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
	X	X	X	X	X	X	X	X	X	X

Q: HDL-cholesterol (mmol/l) (HDL_CHOLESTEROL_CO, hdlkol)

Three unlikely values (0.0 mmol/l)

Q: Comment HDL-cholesterol (HDL_CHOLESTEROL_COMMENTS_CO, hdlkomm)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

CATEGORY: YOUR OWN HEALTH

These questions can be split into three groups. The first 11 questions were included in all health surveys. The 12th question regarding pain, stiffness in muscles and joints were included in all except number 9 and 10 (Oslo II and MoRo. The remaining questions were included in all except 9, 10 and 11.

Q: Current health status (HEALTH_STATUS_CO, a1)

CONOR question: What is your current health status?

Q: Ever had a heart attack (HEART_ATTACK_CO, a2_1)

CONOR question: Do you have, or have you had a heart attack?

Q: Age at time of first heart attack (HEART_ATTACK_AGE_CO, a2_2)

CONOR question: If heart attack, age first time?

Q: Have or ever had angina pectoris (ANGINA_CO, a2_3)

CONOR question: Do you have, or have you had angina pectoris?

Q: Age at time of first experience of angina (ANGINA_AGE_CO, a2_4)

CONOR question: If angina pectoris, age first time?

Q: Have, or ever had cerebral stroke/brain haemorrhage (STROKE_CO, a2_5)

CONOR question: Do you have, or have you had a cerebral stroke/brain haemorrhage?

Q: Age at first stroke/brain haemorrhage (STROKE_AGE_CO, a2_6)

CONOR question: If cerebral stroke/brain haemorrhage, age first time?

Q: Have, or ever had asthma (ASTHMA_CO, a2_7)

CONOR question: Do you have, or have you had asthma?

Q: Age at first episode of asthma (ASTHMA_AGE_CO, a2_8)

Q: Have or ever had diabetes (DIABETES_CO, a2_9)

CONOR question: Do you have, or have you had diabetes?

Q: Age at diabetes diagnosis (DIABETES_AGE_CO, a2_10)

CONOR question: If diabetes, age first time?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Specific comments: For the three first surveys, only two response categories were included (Yes, No). For the remaining surveys three categories were included (Yes, No, Both yes and no).

Q: Have during the last year suffered from pain and/or stiffness in muscles or joints that have lasted continuously for at least 3 months (MUSCULO_SKELETAL_PAIN_CO, a4)

CONOR question: Have you during the last year suffered from pain and/or stiffness in muscles and joints that have lasted continuously for at least 3 months?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

Specific comments: For the three first surveys, only two response categories were included (Yes, No). For the remaining surveys three categories were included (Yes, No, Both yes and no).

Q: Felt nervous or worried during the last two weeks (NERVOUS_CO, a5_1)
CONOR question: Have you in the last two weeks felt nervous or worried?

Q: Felt anxious during the last two weeks (ANXIOUS_CO, a5_2)
CONOR question: Have you in the last two weeks felt anxious?

Q: Felt confident and calm during the last two weeks (CALM_CO, a5_3)
CONOR question: Have you in the last two weeks felt confident and calm?

Q: Felt irritable during the last two weeks (IRRITABLE_CO, a5_3)
CONOR question: Have you in the last two weeks felt irritable?

Q: Felt happy and optimistic during the last two weeks (HAPPY_CO, a5_5)
CONOR question: Have you in the last two weeks felt happy and optimistic?

Q: Felt down/depressed during the last two weeks (DEPRESSED_CO, a5_6)
CONOR question: Have you in the last two weeks felt down/ depressed?

Q: Felt lonely during the last two weeks (LONELY_CO, a5_7)
CONOR question: Have you in the last two weeks felt lonely?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			

CATEGORY: PHYSICAL ACTIVITY

Q: CONOR question: Light activity (not sweating or out of breath): How has your physical activity in leisure time been during this last year? Think of your weekly average for the year. Time spent on the way to work counts as leisure time (hours per week).

(PHYS_ACT_LEISURE_LIGHT_CO, a6_1)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: CONOR question: Hard physical activity (sweating/out of breath): How has your physical activity in leisure time been during this last year? Think of your weekly average for the year. Time spent on the way to work counts as leisure time (hours per week).

(PHYS_ACT_LEISURE_HARD_CO, a6_2)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: CONOR question: Exercise and physical exertion in leisure time. If your activity varies much, for example between summer and winter, then give an average.

(PHYS_ACT_LEISURE_CO, a6_3)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X	X	X

Q: Categories describing physical activity at work (PHYS_ACT_WORK_NO, b12)

CONOR question: If you have paid or unpaid work, which statement describes your work best?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

CATEGORY: SMOKING

The CONOR dataset contains several questions on smoking. The questions regarding daily smoking varied in the different health surveys, and a new variable, based on the different questions, has been produced, resulting in a common smoking variable that is valid for all CONOR surveys: (SMOKE_DAILY_NOW)

Q: Number of hours a day normally spent in smoke-filled rooms

(SMOKE_ROOMS_HOURS_CO, a7_2)

CONOR question: How many hours daily do you normally spend in smoke-filled rooms?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: Adults did smoke in home while growing up (SMOKE_HOME_CHILD_CO, a7_3)

CONOR question: Did any adults smoke in your home while you were growing up?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X		X	X	X	X	X	X	X	X

Q: Live now, or ever lived together with a daily smoker after the age of 20 years

(SMOKE_LIVE_TOGETHER_A20_CO, a7_4)

CONOR question: Do you now, or have you ever lived together with a daily smoker after the age of 20 years?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X		X	X	X	X	X	X	X	X

Q: Smoke daily now (SMOKE_DAILY_NOW_CO, a8_0)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

A produced (harmonized) variable about daily smoking with two response categories: 1) 'Not smoking daily' and 2) 'Smoking daily'. This variable is based on the questions: 'Have you smoked / do you smoke daily?' and 'Do you smoke cigarettes daily', 'Do you smoke cigars daily', and 'Do you smoke pipe daily?')

The variable was produced in the following way:

- The category 'Not smoking daily': Those who have answered that they have smoked earlier or those not smoking ('Have you smoked / do you smoke daily?'), or those

reporting that they do not smoke either cigarettes, cigar, or pipe daily ('Do you smoke cigarettes daily', 'Do you smoke cigars daily', or 'Do you smoke pipe daily?').

- The category 'Smoking daily': Those answering that they are present smokers or those reporting that they smoke either cigarettes, cigar, or pipe daily ('Do you smoke cigarettes daily', 'Do you smoke cigars daily', or 'Do you smoke pipe daily?').

The assumptions underlying the construction of the variables are:

1. Respondents answering 'No' for variable 'Have you smoked / do you smoke daily?' are considered as not daily smokers independent on their answers on the other smoking questions.
2. Respondents answering 'Yes, now' on variable 'Have you smoked / do you smoke daily?' are considered as daily smokers independent on their answers to the other smoking questions.
3. Respondents answering 'No' on variable 'Do you smoke cigarettes daily' are considered as not daily smokers if they have not answered 'Yes' on questions 'Do you smoke cigars daily', or 'Do you smoke pipe daily?.'

Q: Smoke daily now or ever smoked daily (SMOKE_DAILY_NOW_OR_EVER_CO, a8_0_1)

CONOR question: Have you smoked/ do you smoke daily?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
	X	X	X	X	X	X	X	X	X	X

The CONOR-question above is included in the harmonized variable

SMOKE_DAILY_NOW_CO.

Q: Smoke cigarettes daily (CIGARETTES_CO, a8_1)

CONOR question: Do you smoke cigarettes daily?

Q: Smoke cigars/cigarillos daily (CIGAR_CO, a8_2)

CONOR question: Do you smoke cigars/cigarillos daily?

Q: Smoke pipe daily (PIPE_CO, a8_3)

CONOR question: Do you smoke pipe daily?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

The CONOR-questions above are included in the variable **SMOKE_DAILY_NO_CO**

Specific comments: For the three first surveys, only two response categories were provided (Yes, No). For the remaining surveys three categories were provided (Yes, No, Both yes and no).

Q: If previously smoker, years since stopping (SMOKE_STOP_TIME_CO, a9)

CONOR question: If you previously smoked daily, how long is it since you stopped (years)?

Q: If present or previously daily smoker, no of cigarettes daily (CIGARETTE_NUMBER_CO, a10)

CONOR question: If you smoke daily now or previously; How many cigarettes do you, or did you usually smoke per day?

Q: Age at start of smoking (SMOKE_START_AGE_CO, a11)

CONOR question: How old were you when you began smoking?

Six unlikely values (127 answered 0 years, 5 answered less than 5 years)

Q: No of years smoking (SMOKE_YEARS_CO, a12_1)

CONOR question: How many years in all have you smoked daily?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Other questions on smoking

Moist snuff is not a CONOR question and is therefore not included in the CONOR file.

CATEGORY: COFFEE AND TEA

There are two variables regarding coffee which are equal for all health surveys after a process of recoding. Both variables refer to the questions: ‘How many cups of boiled coffee do you usually drink daily’ and ‘How many cups of other coffees do you usually drink daily’. In Tromsø IV and V, HUNT II, HUSK, and TROFINN-Troms and TROFINN-Finnmark, the two questions were phrased exactly as written below, but for HUBRO, OPPHED, OSLO-2, MoRo and Immigration-HUBRO the variables are based on the questions ‘How many cups of coffee do you usually drink’ in combination with ‘Do you usually drink instant/boiled/other types of coffee’.

Q: No of cups boiled coffee (coarsely ground coffee) per day

(COFFEE_BOILED_NCUPS_CO, a13_1)

CONOR question: How many cups of boiled coffee (coarsely ground coffee for brewing) do you usually drink daily?

Q: No of cups other than boiled coffee (coarsely ground coffee) per day

(COFFEE_OTHER_NCUPS_NO, a13_2)

CONOR question: How many cups of coffee other than boiled do you usually drink daily?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

The two CONOR questions above were used in the three first health surveys, but for the remaining health surveys the questions below were used. The variables have been harmonized to produce two common CONOR coffee variables, shown above. For the harmonization we used the questions ‘How many cups of coffee do you usually drink daily?’ in combination with which type of coffee the participants usually drink.

What type of coffee do you usually drink?

Q: Usually drink filter/instant coffee (COFFEE_FILTER_INSTANT_CO, a13_5)

CONOR question: Do you usually drink instant coffee?

Q: Usually drink boiled of French press coffee (COFFEE_BOILED_PRESSED_CO, a13_6)

CONOR question: Do you usually drink boiled coffee?

Q: Usually drink other coffee (espresso etc) (COFFEE_OTHER_CO, a13_7)

CONOR question: Do you usually drink other types of coffee (espresso)?

Q Do not usually drink coffee (OBS) (COFFEE_ABST_CO, a13_8)

Q: No. of cups coffee per day (COFFEE_CUPS_PR_DAY_CO, a13_4)

CONOR question: How many cups of coffee do you usually drink daily?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X				X	X	X

Q: No. of cups tea per day (TEA_CUPS_PR_DAY_CO, a13_9)

CONOR question: How many cups of tea do you usually drink daily?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
	X	X	X	X	X	X	X	X	X	X

Q: No. of cups tea per day usually (categories)(TEA_CUPS_PR_DAY_CAT_CO, a13_10)

CONOR question: How many cups of tea do you usually drink daily? (Categories)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X										

We have not merged the variables about tea-drinking into a new harmonized variable.

CATEGORY: ALCOHOL

Questions regarding alcohol consumption varied between the health surveys, and therefore variables on frequency and amount of alcohol consumption have been recoded (harmonized). Below, we comment the recoding of the different questions.

Frequency of consumption:

The first question, used in the three first surveys, is on an numerical interval scale, while the other question used in the subsequent surveys, has 9 response categories.

Q: No of times drinking alcohol per month (ALCOHOL_TIMES_CO, a14_1_2)

CONOR question: How many times a month do you normally drink alcohol? Do not count low-alcohol beer. Put 0 if less than once a month.

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

Q: Frequency of alcohol consumption last year (categories v. 2) (9 categories)

CONOR question: Approximately, how often have you during the last year consumed alcohol (do not count low-alcohol beer)? (ALCOHOL_CONSUMPTION_CO) (a14_1_1)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X	X	X

Recoding:

First, the numerical responses in the variable (ALCOHOL_TIMES_CO (a14_1_2) were recoded into 5 categories as follows:

Recoded variable	Never/seldom	Appr. once a month	2-3 times per month	Appr once a week	Several times a week
Original	0	1	2-3	4-7	≥ 8

Next, the 9-categories CONOR-question ‘Approximately, how often have you during the last year consumed alcohol?’ (*ALCOHOL_CONSUMPTION_CO*) was recoded to those 5 categories in order to have only one harmonized alcohol frequency variable, as shown below:

		<i>(ALCOHOL_CONSUMPTION_CO)</i> (9 categories)							
		4-7 times per week	2-3 times per week	1 time per week	2-3 times per month	1 time per month	A few times during last year	drinking alcohol last year	Never been drinking alcohol
<i>ALCOHOL_TIMES_L_YEAR_CO</i> (5 categories)	Several times a week	X	X						
	Once a week			X					
	2-3 times per month				X				
	Once a month					X			
	Never / seldom						X	X	X

New, harmonized Q: Frequency of alcohol consumption last year (categories v. 1) (5 categories) (*ALCOHOL_TIMES_L_YEAR_CO, a14_1*)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Amount of alcohol:

Q: No. of glasses beer per 2 weeks usually (low alcohol beer excluded)
(*BEER_GLASSES_CO, a14_4_1*)

CONOR question: How many glasses of beer do you usually drink during a two-weeks period?

Q: No. of glasses wine per 2 weeks usually (WINE_GLASSES_CO, a14_5_1)

CONOR question: How many glasses of wine do you usually drink during a two-weeks period?

Q: No. of glasses spirits per 2 weeks usually (SPIRITS_GLASSES_CO, a14_6-1)

CONOR question: How many glasses of spirits do you usually drink during a two-weeks period?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

The questions above regarding number of glasses of beer, wine and spirits during a 2-week-period, were included in TROMSØ IV, HUNT II and HUSK only. The CONOR question shown below was used in the subsequent surveys. The two variables were harmonized into one common by transferring response values from the three first surveys into the variable *ALCOHOL_GLASSES_L_YEAR_CO*

:

**Q: If drinking, no of glasses/drinks alcohol last year
(ALCOHOL_GLASSES_L_YEAR_CO, a14_2)**

CONOR question: When you drank alcohol, how many glasses did you usually drink?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

**Q: No of 24-hour periods with at least 5 glasses/drinks alcohol last year
(ALCOHOL_GLASSES_24H_CO, a14_3)**

CONOR question: Approximately how often during the last year have you consumed alcohol equivalent to 5 glasses or drinks within 24 hours

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X	X	X

Q: Usually drink beer (BEER_CO, a14_4)

CONOR question: When you drink alcohol, do you normally drink beer?

Q: Usually drink wine (WINE_CO, a14_5)

CONOR question: When you drink alcohol, do you normally drink wine?

Q: Usually drink spirits (SPIRITS_CO, a14_6)

CONOR question: When you drink alcohol, do you normally drink spirits?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

The three variables above are partly harmonized. The questions were given to participants in health surveys 4-11 exactly as written above. For the three first health surveys, data were filled in by the CONOR administration, based on the answers to questions regarding number of glasses of beer, wine or liquor consumed within a two-week period. Note that a person can answer that he/she normally drinks more than one of the three products.

Q: Are teetotaller (TEETOTALLER_CO, a14_7)

CONOR question: Are you an abstainer from alcohol?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

Note that it is possible to produce a teetotaler-variable for the health surveys conducted after HUSK by using the category 8: 'Never been drinking alcohol' for question 'a14_1_1' above.

CATEGORY: EDUCATION

The question on education differed between the five first surveys and the subsequent studies.

Q: Highest completed education (EDUCATION_CO, a15_2)

CONOR question: What is the highest level of education you have completed?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X		X	x					

See below

Q: Total years of education (EDUCATION_YEARS_CO, a15)

CONOR question: How many years education have you completed altogether?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

The question above was included in health surveys OPPHED to MoRo. For health surveys TROMSØ IV to HUBRO we recoded and filled in values based on the question on level of education into response categories to the question on years of education. The recoding is shown below. Please note that the variability of the recoded variable is different for the three health surveys HUNT II, TROMSØ IV and HUSK. Also note that the questions regarding the highest completed education are slightly different for the three first health surveys. See below.

HUNT II and TROMSØ IV	Primary/secondary school 7-10 yr	9 yr
	Technical school, middle school, vocational school, 1-2 years senior high school	10 yr
	High school diploma (3-4 years)	12 yr
	College/university, less than 4 years	15 yr
	College/university, 4 or more years	17 yr
HUSK	Less than 7 years primary school	7 yr
	Primary/secondary school 7-10 yr	9 yr
	Technical school, middle school, vocational school, 1-2 years senior high school	10 yr
	High school diploma (3-4 years)	12 yr
	College/university, less than 4 years	15 yr
	College/university, 4 or more years	17 yr

CATEGORY: ILLNESS IN THE FAMILY

Only the first question in this category was asked in all health surveys, with yes/no/don't know as response categories. For all other questions, only the category 'Yes' was a valid response, and those questions were not asked in OSLO 2 and MoRo. That means that for producing prevalence estimates, only health surveys where the questions were asked should be included, and these participants counted in the denominator.

*Q: Parents or siblings have had a heart attack or angina pectoris
(HEART_DISEASE_RELATIVES_CO, a16)*

CONOR question: Have one or more of your parents or siblings had a heart attack or angina pectoris?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

*Q/CONOR question: Mother has or has had cerebral stroke or brain haemorrhage
(MOTHER_STROKE_CO, b15_1)*

*Q/CONOR question: Father has or has had cerebral stroke or brain haemorrhage
(FATHER_STROKE_CO, b15_2)*

*Q/CONOR question: Brother has or has had cerebral stroke or brain haemorrhage
(BROTHER_STROKE_CO, b15_3)*

*Q/CONOR question: Sister has or has had cerebral stroke or brain haemorrhage
(SISTER_STROKE_CO, b15_4)*

*Q/CONOR question: Child has or has had cerebral stroke or brain haemorrhage
(CHILD_STROKE_CO, b15_5)*

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

Q/CONOR question: Mother has or has had myocardial infarction before age 60 (MOTHER_MI60_CO, b15_6)

Q/CONOR question: Father has or has had myocardial infarction before age 60 (FATHER_MI60_CO, b15_7)

Q/CONOR question: Brother has or has had myocardial infarction before age 60 (BROTHER_MI60_CO, b15_8)

Q/CONOR question: Sister has or has had myocardial infarction before age 60 (SISTER_MI60_CO, b15_9)

Q/CONOR question: Child has or has had myocardial infarction before age 60 (CHILD_MI60_CO, b15_10)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

Q/CONOR question: Mother has or has had asthma (MOTHER_ASTHMA_CO, b15_11)

Q/CONOR question: Father has or has had asthma (FATHER_ASTHMA_CO, b15_12)

Q/CONOR question: Brother has or has had asthma (BROTHER_ASTHMA_CO, b15_13)

Q/CONOR question: Sister has or has had asthma (SISTER_ASTHMA_CO, b15_14)

Q/CONOR question: Child has or has had asthma (CHILD_ASTHMA_CO, b15_15)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

Q/CONOR question: Mother has or has had cancer (MOTHER_CANCER_CO, b15_16)

Q/CONOR question: Father has or has had cancer (FATHER_CANCER_CO, b15_17)

Q/CONOR question: Brother has or has had cancer (BROTHER_CANCER_CO, b15_18)

Q/CONOR question: Sister has or has had cancer (SISTER_CANCER_CO, b15_19)

Q/CONOR question: Child has or has had cancer (CHILD_CANCER_CO, b15_20)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

Q/CONOR question: Mother has or has had diabetes (MOTHER_DIABETES_CO, b15_21)

Q/CONOR question: Father has or has had diabetes (FATHER_DIABETES_CO, b15_22)

Q/CONOR question: Brother has or has had diabetes (BROTHER_DIABETES_CO, b15_23)

Q/CONOR question: Sister has or has had diabetes (SISTER_DIABETES_CO, b15_24)

Q/CONOR question: Child has or has had diabetes (CHILD_DIABETES_CO, b15_25)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

Q/CONOR question: Mother's age when she got diabetes (MOTHER_AGE_DIABETES_CO, b15_26)

Q/CONOR question: Father's age when he got diabetes (FATHER_AGE_DIABETES_CO, b15_27)

Q/CONOR question: Brother's age when he got diabetes (BROTHER_AGE_DIABETES_CO, b15_28)

Q/CONOR question: Sister's age when she got diabetes (SISTER_AGE_DIABETES_CO, b15_29)

Q/CONOR question: Child's age when he/she got diabetes (CHILD_AGE_DIABETES_CO, b15_30)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

CATEGORY: HOME

Q: Type of housing (HOUSE_TYPE_CO, b2)

CONOR question: What type of house do you live in?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			

For the health surveys TROFINN-Troms, TROFINN-Finnmark, and TROMSØ V there is an extra category called Institution / care home. The latter response category was merged with the category 'other housing' by the CONOR administration.

Q: Size of home in sq meters (HOUSE_SIZE_CO, b3)

CONOR question: How large is your home?

Some values are unlikely to represent number of square meters. Could be number of rooms?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			1728

Q: Carpet on floor of living room (CARPET_CO, b29)

CONOR question: Do you have wall-to-wall carpets in the living-room?

Q: Cat in home (CAT_CO, b30)

CONOR question: Is there a cat in your home?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X						

Q: Living together with others (LIVE_TOGETHER_CO, b4_1)

CONOR question: Do you live with anyone?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X				X	X	X

This question was asked in some of the health surveys. The question has the response categories 'Yes'/'No'. For the other health surveys the respondents were asked directly: With whom do you live?

Note! After year 2000 (HUBRO) this question was part of the supplementary questionnaire for elderly people and the question was slightly different.

Q: Live with spouse/partner (LIVE_WITH_SPOUSE_CO, b4_2)

CONOR question: If you live with anyone, do you live with a spouse/partner?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

For this variable an additional category 9 has been added. The respondents answering 'No' to the question 'Do you live with anyone?' or who did not answer this question, were allocated to category 9.

Q: Live with other persons above 18 years of age (LIVE_WITH_OTHERS_O18_CO, b4_3)

CONOR question: If you live with anyone, do you live with other persons than spouse/partner older than 18 years?

*Q: No. of persons above 18 years of age living in house
(LIVE_WITH_OTHERS_NO_O18_CO, b4_4)*

CONOR question: If you live with anyone, how many other persons than spouse/partner older than 18 years do you live with?

Q: Live with other persons under 18 years of age (LIVE_WITH_OTHERS_Y18_CO, b4_5)

CONOR question: If you live with anyone, do you live with other persons than spouse/partner younger than 18 years?

*Q: No. of persons under 18 years of age living in house
(LIVE_WITH_OTHERS_NO_Y18_CO, b4_6)*

CONOR question: If you live with anyone, how many other persons than spouse/partner younger than 18 years do you live with?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X				X	X	X

For the variables concerning cohabitating with other than spouse/ partner, an additional category 9 has been added in retrospect by the CONOR administration. The respondents answering 'No' to the question 'Do you live with anyone?' or those who did not answer the question, were allocated to category 9.

Q: Live at home or institution (LIVING_PLACE_O70_CO, b4_7)

CONOR question: Where do you live (po70)?

Q: Live with other person(s) than spouse/partner (LIVE_WITH_OTHERS_O70_CO, b4_8)

CONOR question: Do you live with other persons than spouse/partner (po70)?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X		

The two questions above were given only to participants older than 70 years (po70).

There was no response category provided for living together with persons under the age of 18 years, only spouse/co-habitants or other persons. Those who answered the questionnaire for elderly people, are included in the variable *LIVE_WITH_SPOUSE_CO*, but are not included in other variables concerning whom they live with.

Q: No. of children in kindergarten (CHILD_CARE_NO_CO, b31)

CONOR question: How many of your children attend day care/kindergarten/nursery school?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

Q: No. of good friends (FRIENDS_NUMBER_OF_CO, b5)

CONOR question: How many good friends do you have, with whom you can talk confidentially and who can give you help when you need it? Do not count people you live with, but do include other relatives.

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

The respondents were supposed to report a number. Those not reporting a number, but a cross or a comment were placed in the category "missing".

Q: Have enough good friends (FRIENDS_ENOUGH_CO, b6)

CONOR question: Do you feel that you have enough good friends?

*Q: How often taking part in organized activities in spare time
(ORGANIZED_ACTIVITIES_FREQ_CO, b7)*

CONOR question: How often do you normally take part in organized gatherings, e.g. sewing circles, sports clubs, political meetings, religious, or other associations?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			

This last question has four response categories. For TROMSØ IV and HUNT, the second category is different from the corresponding category for the remaining health surveys. For TROMSØ IV and HUNT the category reads: 1-2 times per month, while for the other health surveys the corresponding category reads 1-3 times per month. This has not been changed and only the last alternative is given in the CONOR file.

CATEGORY: WORK

Q: Current work situation paid work (WORK_SIT_PAID_WORK, b8_1)

CONOR question: Is your current work situation paid work?

Q: Current work situation full time house work at home

((WORK_SIT_FT_HOUSEWORK_CO, b8_2)

CONOR question: Is your current work situation full-time housework?

Q: Currently under education or doing military service (WORK_SIT_U_EDUCATION_CO, b8_3)

CONOR question: Is your current work situation under education, military service?

Q: Currently unemployed or on involuntary leave without pay

(WORK_SIT_UNEMPLOYED_CO, b8_4)

CONOR question: Is your current work situation unemployed, on leave without payment?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

Q: N.o of hours paid work per week (WORK_HOURS_WEEK_CO, b9_1)

CONOR question: How many hours of paid work do you have per week?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

See below

Q: Currently employed (PAID_WORK_CO, b9)

CONOR question: Are you currently employed?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

In the three first health surveys (Tromsø IV, HUNT, HUSK) the number of hours paid work was reported (variable above), while the identical question had categorical answering options in the remaining health surveys. The categories are: 'Full time', 'Part time', and 'No'.

The number of working hours have been recoded into categories as follows:

HUNT, TROMSØ IV and HUSK	0	1-29	≥ 30
CONOR-categories	No	Part time	Full time

Q: Receive sickness benefit (on sick leave)(SICK_LEAVE_CO, b10_1)
CONOR question: Do you receive sickness benefit (sick leave)?

Q: Receive old-age pension /agreement based pension/benefits for surviving spouse (PENSION_CO, b10_2)

CONOR question Do you receive old-age pension?

Q: Receive rehabilitation benefit (REHABILITATION_CO, b10_3)

CONOR question Do you receive rehabilitation benefit?

Q: Receive disability pension (in full or partially) (DIABILITY_PENSION_CO, b10_4)

CONOR question Do you receive disability pension?

Q: Receive unemployment benefits (UNEMPLOYMENT_BENEFIT_CO, b10_5)

CONOR question Do you receive unemployment benefits?

Q: Receive social welfare benefits (SOCIAL_WELFARE_CO, b10_6)

CONOR question Do you receive social welfare benefits?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

In the first health study (Tromsø IV) all benefit questions provided only the possibility to be ticked 'Yes'. For the other health surveys two response categories exist: 'Yes'/'No'

Q: Receive social benefit for single parents (SINGLE_PARENT_BENEFIT_CO, b10_7)

CONOR question: Do you receive social benefit for single parents?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
	X		X	X	X	X	X	X	X	X

Q: Work shifts/nights or are on call duty (WORK_SHIFT_CO, b11)

CONOR question: Are you on call; do you work shifts or nights?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			

Q: Have own influence over how work is organized (WORK_OWN_INFLUENCE_CO, b32)

CONOR question: Do you decide yourself how your work will be done?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X			X	X	X	X				

Q: Work as professional driver (full- or part-time) (WORK_DRIVER_CO, b33_1)

CONOR question: Do/did you work as a driver (full- or part-time)?

Q: Work as farmer (full- or part-time) (WORK_FARMER_CO, b33_2)

CONOR question: Do/did you work as a farmer (full- or part-time)?

Q: Do/did you work as a fisherman (full- or part-time) (WORK_FISHERMAN_CO, b33_3)?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

In HUNT 2, the question reads: Do/did you work as a farmer, in forestry, heavy farmwork, or forest worker (full- or part-time)

Q: Profession/work title (categories) (WORK_TITLE1_CO, b33_4b)

CONOR question Category of occupation you had during the longest period during last year (PRIMARY) (WORK_TITLE2_CO)

Q: Profession/work title – secondary (categories) (WORK_TITLE2_CO, b33_5b)

CONOR question: Category of occupation you had during the longest period last year (SECONDARY)

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X	X	X

The first variable (WORK_TITLE1) is main occupation; while the second variable is secondary occupation. Very few respondents have reported a secondary occupation. We have used the report: *Standard Classification Occupations*, Statistics Norway (C521), to classify occupations. For some occupations the codes do not correspond to a valid label (77 out of 42650, 0.2%).

CATEGORY: YOUR OWN ILLNESS AND INJURIES

Q: Ever had a hip fracture (HIP_FRACTURE_CO, b13_1)

CONOR question: Have you ever had a hip fracture?

Q: Age at last occurrence of hip fracture (HIP_FRACTURE_AGE_CO, b13_2)

CONOR question: How old were you when you had the hip fracture. If you have had the condition several times, how old were you the last time?

Q: Ever had a wrist/forearm fracture (FOREARM_FRACTURE_CO, b13_3)

CONOR question: Have you ever had a wrist/forearm fracture?

Q: Age at last occurrence of wrist/forearm fracture (FOREARM_FRACTURE_AGE_CO, b13_4)

CONOR question: How old were you when you had the wrist/forearm fracture. If you have had the condition several times, how old were you the last time?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: Ever had a whiplash (WHIPLASH_CO, b13_7)

CONOR question: Have you ever had a whiplash?

Q: Age at last occurrence of whiplash (WHIPLASH_AGE_CO, b13_8)

CONOR question: How old were you when you had the whiplash. If you have had the condition several times, how old were you the last time?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X						

Q: Ever had an injury requiring hospital admission ((INJURY_HOSPITAL_ADM_CO, b13_5)

CONOR question: Have you ever had an injury requiring hospital admission?

*Q: Age at last admittance to hospital because of injury
(INJURY_HOSPITAL_ADM_AGE_CO, b13_6)*

CONOR question: How old were you when you had an injury requiring hospital admission. If you have been admitted for injury several times, how old were you the last time?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			

Q: Have or ever had hay fever (HAY_FEVER_CO, b14_1)

CONOR question: Have you ever had, or do you have hay fever?

Q: Have or ever had osteoporosis (OSTEOPOROSIS_CO, b14_2)

CONOR question: Have you ever suffered from osteoporosis?

Q: Have or ever had fibromyalgia (FIBROMYALGIA_CO, b14_3)

CONOR question: Have you ever had, or do you have fibromyalgia/chronic pain syndrome?

Q: Ever sought help for psychological problems (PSYCHOLOGICAL_PROBLEMS_CO, b14_4)

CONOR question: Have you ever had, or do you have psychological problems for which you have sought help?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: Have or ever had chronic bronchitis/emphysema (BRONCHITIS_CO, b14_5)

CONOR question: Have you ever had, or do you have chronic bronchitis/emphysema?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X		X	X	X	X	X	X	X	X	X

Q: Cough daily in periods during the year (COUGH_DAILY_CO, b17)

CONOR question: Do you cough about daily for some periods of the year?

Q: If cough daily, caogh brings up phlegm (COUGH_SPUTUM_CO, b18)

CONOR question: If you cough about daily for some periods of the year, do you bring up phlegm?

*Q: If cough daily, periods lasted longer than 3 months each of last 2 years
(COUGH_DAILY_3MTH_CO, b19)*

CONOR question: If you cough about daily for some periods of the year, have you had this kind of cough for as long as 3 months in each of the last two years?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: Frequency of periods of sleeplessness (SLEEPLESS_FREQ_CO, b20)

CONOR question: How often do you suffer from sleeplessness?

Q: Sleeplessness has affected ability to work(SLEEPLESS_WORK_CO, b21)

CONOR question: Have you in the last twelve months suffered from sleeplessness to the extent that it has affected your ability to work?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X			X

This latter question has four response categories. For the three first health surveys the second category read 1-2 times per month, while for the remaining health surveys the category was 1-3 times per month. We have not corrected this in the CONOR file. Only the last choice of categories is reported.

CATEGORY: USE OF MEDICATION

Questions about use of medications differed between the surveys. The only question that was identical in all health surveys is the question concerning blood pressure lowering drugs, while the question on lipid lowering drugs (b16_2) was used in all health surveys except the three first ones.

For the health surveys after year 2000 (HUBRO), the respondents were asked about the use of selected groups of medicines during the last four weeks, followed by the name of the medicines, reasons for using them, and for how long time the medicines were used. In TROMSØ 4 and HUNT 2, we asked about the use of medicine during the last 12 months.

Note: In HUSK, the question concerning use of medication was asked in a different way than in the other health surveys. In HUSK, the question was the reason for using the medicine yesterday, while for the other health surveys the corresponding interval was the last four weeks. For HUSK, it was asked if the medication was used daily, while for the other health surveys after 2000, if it was used more or less than one year.

Q: Take lipid lowering drugs (LIPID_LOWERING_DRUGS_CO, b16_2)

CONOR question: Do you take lipid lowering drugs?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X	X	X

Q: Take medications for high blood pressure (BP_TREATMENT_CO, b16_1)

CONOR question: Do you take medications for high blood pressure?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X	X	X	X

Q: No. of months last year used painkillers (PAINKILLERS_L_YEAR_CO, b16_19)

CONOR question: Have you for any length of time in the past year used painkillers every day or almost daily ? (Only medication bought at a pharmacy. Do not include dietary supplements) Indicate how many months you have used them.

Q: No. of months last year used sleeping pills (SLEEPING_PILLS_L_YEAR_CO, b16_20)

CONOR question: Have you for any length of time in the past year used sleeping pills every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No. of months last year used tranquilizers (TRANQUILIZERS_L_YEAR_CO, b16_21)

CONOR question: Have you for any length of time in the past year used tranquilizers every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No. of months last year used antidepressants (ANTIDEPRESSANTS_L_YEAR_CO, b16_22)

CONOR question: Have you for any length of time in the past year used antidepressants every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No. of months last year used allergy pills (ALLERGY_MEDICINE_L_YEAR_CO, b16_23)

CONOR question: Have you for any length of time in the past year used allergy pills every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No. of months last year used druags against asthma (ASTHMA_MEDICINE_L_YEAR_CO, b16_24)

CONOR question: Have you for any length of time in the past year used asthma drugs every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No. of months last year used iron supplements (IRON_TABLETS_L_YEAR_CO, b16_25)

CONOR question: Have you for any length of time in the past year used iron supplements every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No of months last year used vitamin supplements (VITAMIN_L_YEAR_CO, b16_26)

CONOR question: Have you for any length of time in the past year used vitamin supplements every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No. of months last year used vitamin D supplements (VITAMIN_D_L_YEAR_CO, b16_26_1)

CONOR question: Have you for any length of time in the past year used vitamin-D supplements every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Q: No. of months last year used vitamin supplements other than vitamin D (VITAMIN_NOT_D_L_YEAR_CO, b16_26_2)

CONOR question: Have you for any length of time in the past year used vitamin supplements, other than vitamin-D, every day or almost daily (Only medication bought at pharmacy. Do not include dietary supplements)? Indicate how many months you have used them.

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

Q: No. of times last 4 weeks used non-prescribed pain killers (PAINKILLERS_NOPRESC_4WEEKS_CO, b16_3)

CONOR question How often during the last 4 weeks have you used painkillers without prescription?

Q: No. of times last 4 weeks used prescribed pain killers (PAINKILLERS_PRESC_4WEEKS_CO, b16_4)

CONOR question How often during the last 4 weeks have you used painkillers on prescription?

Q: No. of times last 4 weeks used pain killers (elderly only) (PAINKILLERS_ELDERLY_CO, b16_4_1)

CONOR question How often during the last 4 weeks have you used painkillers?

Q: No. of times last 4 weeks sleeping pills (SLEEPING_PILLS_4WEEKS_CO, b16_5)

CONOR question: How often during the last 4 weeks have you used sleeping pills?

Q: No. of times last 4 weeks used tranquilizers (TRANQUILIZERS_4WEEKS_CO, b16_6)

CONOR question: How often during the last 4 weeks have you used tranquilizers?

Q: No. of times last 4 weeks used antidepressants (ANTIDEPRESSANTS_4WEEKS_CO, b16_7)

CONOR question: How often during the last 4 weeks have you used antidepressants?

Q: No. of times last 4 weeks used other prescribed medication

(PAINKILLERS_OTHER_MED_PRESC_4WEEKS_CO, b16_8)

CONOR question: How often during the last 4 weeks have you used other medication on prescription?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X	X	X

Q: ATC code of medicine used during last 4 weeks (1) (ATC01_CO, b16_9_1 - b16_18_1)

CONOR question: Brand name of medicine you use now/you have used during the last 4 weeks - medicine 1-10 (ATC-2000)

Q: Reason for using medicine (1) (ICPC01_CO, b16_9_2 - b16_18_2)

CONOR question: Why did you use medicine 1-10?

Q: Time used medicine (1) (MEDICINE_01_DURATION, b16_9_3 - b16_18_3)

CONOR question: For how long time have you used medicine 1-10?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
		X	X	X	X	X	X	X	X	X

Ten sets of questions have been asked. Only the first is shown here. Duration of medication use was not included in HUSK. All health surveys except HUSK used ATC-codes. HUSK used another set of codes. See separate file.

Q: No of months last year used cod liver oil (COD_LIVER_DURATION_CO, b16_27)

CONOR question: Number of months last year used cod capsules

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X								

Q: Use cod liver oil (liquid or capsules) or fish oil capsules (FISH_OIL_USE_CO, b16_28)

CONOR question: Do you use fish oil capsules?

Q: Use vitamin and/or mineral supplements (VIT_MINERAL_SUPPLEMENTS_CO, b16_29)

CONOR question: Do you use vitamin and/or mineral supplements?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
			X	X	X	X	X	X	X	X

The last three questions above differed from survey to survey, but no data harmonization have been made.

CATEGORY: WOMEN ONLY

Q: Age at first menstruation (MENARCHE_AGE_CO, b22)

How old were you when you started menstruating?

Some unlikely values (57 less than 8 years; among them 45 less than 2 years)

Q: Age at last menstruation if no longer menstruating (MENOPAUSE_AGE_CO, b23)

CONOR question: If you no longer menstruate, how old were you when you stopped menstruating?

Many unlikely values both small and large.

Q: Pregnant at time of survey (PREGNANT_CO, b24)

CONOR question: Are you pregnant at the moment?

Q: Number of children given birth to (CHILDREN_CO, b25)

CONOR question: How many children have you given birth to?

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X		X	X

Note that for Oslo 2, where only men were included, 9 men reported age when they started menstruating.

Q: Use or ever used contraceptive pills (incl. minipill) or injections (OC)

(ORAL_CONTRACEPTIVE_CO, b27_1)

CONOR question: Do you use or have you ever used contraceptive pills or injections (OC) (incl. minipill)?

Q: Use or ever used hormonal intrauterine device (HIUD_CONTRACEPTIVE_CO, b27_2)

CONOR question: Do you use or have you ever used hormonal intrauterine device?

Q: Use or ever used estrogen (tablets or patches) (ESTROGEN_TABLETS_CO, b27_3)

CONOR question: Do you use or have you ever used estrogen (tablets or patches)?

Q: Use or ever used estrogen (cream or suppositories) (ESTROGEN_CREAM_CO, b27_4)

CONOR question: Do you use or have you ever used estrogen (cream or suppositories)?

Q: Brand name 1 of contraceptive pill or estrogen (BRAND_NAME_OC_1_CO, b28_4)

CONOR question: Brand name 1 of contraceptive pill/estrogen

Q: Brand name 2 of contraceptive pill or estrogen (BRAND_NAME_OC_2_CO, b28_5)

CONOR question: Brand name 2 of contraceptive pill/estrogen

Tro4	Hun2	Husk	Osl2	Hubr	Opph	Tro5	Ihub	TrFi	Trtr	Moro
X	X	X	X	X	X	X	X		X	X

Appendix table A1

Grouping variable	Countries (fodeland_13)
Norway	Norway
Western-Europe	Denmark, Sweden, Greenland, Finland, Faroe Islands, Iceland, Belgium, France, Greece, Ireland, Italy, Malta, Holland, Portugal, Spain, Great Britten, Switzerland, Germany, Austria, Israel, Cyprus
Eastern-Europe	Bulgaria, Estonia, Belorussia, Latvia, Poland, Romania, Soviet union, Lithuania, Moldavia, Russia, Czechoslovakia, Ukraine, DDR, Hungary, Slovakia, Czech Republic
SFR-Yugoslavia/Albania	Albania, Croatia, Yugoslavia, Slovenia, Bosnia-Herzegovina, FYROM
Northern-Africa	Algeria, Egypt, Libya, Morocco, Sudan, Tunisia
Sub-Saharan-Africa	Angola, Botswana, Equatorial-Guinea, Ivory-coast, Eritrea, Kenya, Ethiopia, Djibouti, Gambia, Ghana, Guinea, Guinea-Bissau, Cameroon, Cape Verde, Congo, Zaire, Liberia, Madagascar, Mauretania, Mauritius, Namibia, Nigeria, Mozambique, Zimbabwe, Rwanda, Senegal, Sierra Leone, Somalia, South-Africa, Tanzania, Togo, Uganda, Zambia
Middle east	Turkey, Afghanistan, Armenia, Azerbaijan, Iraq, Iran, Jordan, Kazakhstan, Kuwait, Lebanon, Saudi-Arabia, Uzbekistan, Syria, Yemen
Indian-subcontinent	Bangladesh, Myanmar, Sri Lanka, India, Nepal, Pakistan
East-Asia	Taiwan, Hong-Kong, Japan, Kampuchea, China, North-Korea, South-Korea, Laos, Thailand, Vietnam
Pacific	Philippines, Indonesia, Malaysia, Singapore, Tonga, New-Zealand, Unknown
North-America	Canada, United States of America
Central-America	Guatemala, Haiti, Honduras, Jamaica, Martinique, Mexico, Antilles, Nicaragua, Panama, El Salvador, Trinidad and Tobago
South-America	Argentina, Bolivia, Brazil, Guyana, Chile, Colombia, Ecuador, Paraguay, Peru, Surinam, Uruguay, Venezuela
Australia	Australia

Appendix table A2

Grouping variable	Countries (fodeland_15)
Norway	Norway
Western Europe	Denmark, Sweden, Greenland, Finland, Faroe Islands, Iceland, Belgium, France, Greece, Ireland, Italy, Malta, Holland, Portugal, Spain, Great Britain, Switzerland, Germany, Austria, Israel, Cyprus
Eastern-Europe	Bulgaria, Estonia, Belorussia, Latvia, Poland, Romania, Soviet union, Lithuania, Moldavia, Russia, Czechoslovakia, Ukraine, DDR, Hungary, Slovakia, Czech Republic
SFR-Yugoslavia/Albania	Albania, Croatia, Yugoslavia, Slovenia, Bosnia-Herzegovina, FYROM
Northern-Africa	Algeria, Egypt, Libya, Morocco, Sudan, Tunisia
Sub-Saharan-Africa	Angola, Botswana, Equatorial-Guinea, Ivory-coast, Eritrea, Kenya, Ethiopia, Djibouti, Gambia, Ghana, Guinea, Guinea-Bissau, Cameroon, Cape Verde, Congo, Zaire, Liberia, Madagascar, Mauretania, Mauritius, Namibia, Nigeria, Mozambique, Zimbabwe, Rwanda, Senegal, Sierra Leone, Somalia, South-Africa, Tanzania, Togo, Uganda, Zambia
Middle east	Turkey, Armenia, Azerbaijan, Iraq, Iran, Jordan, Kuwait, Lebanon, Saudi-Arabia, Syria, Yemen
Indian-subcontinent	Bangladesh, Myanmar, Sri Lanka, India, Nepal, Pakistan
East-Asia	Taiwan, Hong-Kong, Japan, China, North-Korea, South-Korea
North-America	Canada, United States of America
Central-America	Haiti, Honduras, Jamaica, Martinique, Mexico, Antilles, Nicaragua, Panama, El Salvador, Trinidad and Tobago
South-America	Guatemala, Argentina, Bolivia, Brazil, Guyana, Chile, Colombia, Ecuador, Paraguay, Peru, Surinam, Uruguay, Venezuela
Oseania /Pacific	Australia, Tonga, New Zealand
Central-Asia	Afganistan, Kazakhstan, Uzbekistan
Southeast-Asia	Phillipines, Indonesia, Cambodia, Laos, Malaysia, Singapore, Thailand, Vietnam
Other	Unknown