

Questions Documentation

Father's Questionnaire

Sent to fathers 2015

The Norwegian Mother, Father and Child Cohort Study
(MoBa)

Father Questionnaire

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MODELL STRUKTUR AV HVA SOM SKAL PRESENTERES PER INSTRUMENT/ SEKSJON

Instrument

1. Name of original instrument/question:

Original name of scale (*no name* if only single question)

List wording of questions included in the section (with number from questionnaire in front) and write response categories (with values used in the dataset)

2. Description of original scale or selection of items used

Description of analytical approaches for selecting just a sample of items from a scale

If selection of established short version, make referral to literature and/or use

Where does the Q/scale come from, what is it meant to measure. Description of number of items, subscales. Where the Q/scale has been used and any information that give insight into what instrument this is.

Primary references of the instrument as well as important secondary publications if relevant.

3. Rationale for choosing the instrument:

What is it meant to measure and IF RELEVANT: Why this is a good measure.

4. Modifications:

Describe modifications during the study from one version to another.

Write if omitted or added from one version to another

1. Subjective health

1. Name of original question: Question about the father's subjective health.

Q	Response options	Variable name
1	What is your health like at the moment?	
	1. Poor 2. Fair 3. Good 4. Excellent	G__1

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

This question assess the father's subjective health and is based on Conor, HUNT and previous MoBa questionnaires.

4. Revision during the data collection period:

No revisions have been made.

2. Health problems

1. Name of original question: Questions about the father's illnesses and health problems.

2	Do you currently have or have you ever had any of the following diseases/ailments?	1. No 2. Yes	If yes, how old were you the first time?	Variable name
	Heart attack		G_2_1_2	G_2_1_1
	Angina Pectoris (angina)		G_2_2_2	G_2_2_1
	Heart failure		G_2_3_2	G_2_3_1
	Other heart disease		G_2_4_2	G_2_4_1
	Seizures with wheezing or difficulty breathing		G_2_5_2	G_2_5_1
	High blood pressure		G_2_6_2	G_2_6_1
	Stroke/brain haemorrhage		G_2_7_2	G_2_7_1
	Kidney disease		G_2_8_2	G_2_8_1
	Asthma		G_2_9_2	G_2_9_1
	Chronic bronchitis, emphysema, COPD		G_210_2	G_210_1
	Type 1 diabetes		G_211_2	G_211_1
	Type 2 diabetes		G_212_2	G_212_1
	Diabetes, other type or unknown		G_213_2	G_213_1
	Psoriasis		G_214_2	G_214_1
	Epilepsy		G_215_2	G_215_1
	Multiple sclerosis (MS)		G_216_2	G_216_1
	Parkinson's disease		G_217_2	G_217_1
	Rheumatoid arthritis		G_218_2	G_218_1
	Prolapsed disc		G_219_2	G_219_1
	Ankylosing spondylitis (AS)		G_220_2	G_220_1
	Osteoporosis		G_221_2	G_221_1
	Fibromyalgia		G_222_2	G_222_1
	Chronic fatigue syndrome (ME)		G_223_2	G_223_1
	Tension headache		G_224_2	G_224_1
	Migraine		G_225_2	G_225_1
	Gout		G_226_2	G_226_1
	Coeliac disease		G_227_2	G_227_1
	Loss of hearing		G_228_2	G_228_1
	Osteoarthritis (arthrosis)		G_229_2	G_229_1
	Alcohol/drug abuse		G_230_2	G_230_1
	Severe depression		G_231_2	G_231_1
	Anxiety disorder		G_232_2	G_232_1
	Bipolar disorder		G_233_2	G_233_1
	Mental disorders for which you have sought help		G_234_2	G_234_1
	Cancer. If yes, please specify:		G_235_2	G_235_1
	Other serious illness If yes, please specify:		G_236_2	G_236_1

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

Questions were developed for MoBa to survey the presence of illness among the fathers. The list covers both common public health issues as well as rare illnesses. The list is revised from earlier MoBa questionnaires and adapted to the gender and age group.

- 4. Revision during the data collection period:**
No revisions have been made.

3. Family medical history

1. **Name of original question:** Questions about illnesses among parents and siblings.

3 Do you have any parents or siblings who either currently have or have had the following diseases?			
			Variable name
Stroke or brain haemorrhage before the age of 60	1. No		G__3_1
Myocardial infarction before the age of 60	2. Yes		G__3_2
Cancer before the age of 60	3. Don't know		G__3_3

2. **Description of original questions: MoBa specific single questions**

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. **Rationale for choosing the questions:**

This is included to assess familial risk (children are excluded because of the nature of the sample). The questions are based on HUNT.

4. **Revision during the data collection period:**

No revisions have been made.

4. Hospitalization

1. Name of original question: Questions about hospitalization the past year.

4	Have you been admitted to hospital during the past 12 months?	Variable name
	1. No 2. Yes	G__4

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

Question about hospitalization the past year to map serious illness. The question is based on Conor.

4. Revision during the data collection period:

No revisions have been made.

5-7. Body Mass Index

1. Name of original question: Questions about the father's Body Mass Index.

5	How tall are you?	Variable name
	___ cm	G__5
6	How much do you currently weigh?	Variable name
	___ kg	G__6
7	Approximately how much did you weigh when you were 18?	Variable name
	1. ___kg	1. G__7_1
	2. Don't remember	2. G__7_2

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

By using measures of weight and height, Body Mass Index (BMI) can be estimated. These questions can also be used to estimate the father's weight change.

4. Revision during the data collection period:

No revisions have been made.

8-13. Pain

1. Name of original question: Questions about the father's experience with pain.

Q	Response options	Variable name
8	Have you experienced any pain during the past four weeks? If you are experiencing several types of pain, please answer for the pain that causes you the most trouble.	
	1. No, none at all (go to question 14) 2. Yes, less than every week 3. Yes, every week, but not every day 4. Yes, every day, but not constantly 5. Yes, constantly	G__8

Q	Response options	Variable name
9	For how long have you been experiencing this pain?	
	1. Less than 3 months 2. 3-5 months 3. 6-11 months 4. 1-3 years 5. More than 3 years	G__9

Q	Response options	Variable name
10	Have you experienced any pain during the past four weeks? (insert one or more crosses)	
	Neck	G_10_1
2	Right shoulder	G_10_2
	Back	G_10_3
	Right arm	G_10_4
	Right hand	G_10_5
	Right hip	G_10_6
	Right leg	G_10_7
	Right foot	G_10_8
	Head/face	G_10_9
	Left shoulder	G_1010
	Stomach	G_1011
	Left arm	G_1012
	Left hand	G_1013
	Left hip	G_1014
	Left leg	G_1015
	Left foot	G_1016

Q	Response options	Variable name
11	How severe is the pain normally?	
	No pain at all 1. 0 2. 1 3. 2 4. 3 5. 4 6. 5 7. 6 8. 7 9. 8 10. 9 11. 10 Worst imaginable pain	G_11
12	To what extent does the pain prevent you from doing your daily activities?	
	Does not prevent my activities 1. 0 2. 1 3. 2 4. 3 5. 4	G_12

	6. 5 7. 6 8. 7 9. 8 10. 9 11. 10 Prevents all my activities	
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13	How often during the past four weeks have you taken the following medicines?	Variable name
	Paracetamol (e.g. Paracet, Panodil, Pamol, Pinex, Therimin)	G_13_1
	Ibuprofen (e.g. Ibox, Ibumetin, Burana)	G_13_2
	Diclofenac (e.g. Voltarol)	G_13_3
	Phenazone (e.g. Phenazone caffeine, Phanalgin)	G_13_4
	Naproxen (e.g. Proxan)	G_13_5
	acetylsalicylic acid (e.g. Aspirin, Globoid, Dispril)	G_13_6
	Other non-prescription painkilling medicines, Please specify:	G_13_7_1

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

The questions are based on HUNT and previous MoBa questionnaires. The questions are adjusted to cover the criteria for the diagnosis of Chronic Widespread Pain. Other relevant measures and the most relevant medication from researchers at EPLI were included.

4. Revision during the data collection period:

No revisions have been made.

14-18. Diet and eating habits

1. Name of original questions: Ny Nordisk Matindeks (NND-indeks).

Q		Response options	Variable name
14	Consider what you have eaten during the past year and indicate how often you normally eat each food product.		
	Carrots, swedes/turnips, celery	1. Rarely/never	G_14_1
	Potatoes	2. About once a month	G_14_2
	Cabbage, cauliflower, broccoli, sprouts	3. 2-3 times a month	G_14_3
	Onions, leek, garlic	4. 1-3 times a week	G_14_4
	Other vegetables (e.g. peas, spinach, lettuce, tomatoes)	5. 4-6 times a week	G_14_5
	Apples, pears, plums	6. Once a day or more	G_14_6
	Other fruit (e.g. banana, oranges, grapes)		G_14_7
	Berries (e.g. strawberries, raspberries, blueberries)		G_14_8
	Nuts (not peanuts)/seeds		G_14_9
	Egg (boiled, fried, scrambled)		G_1410
	Fish and fish products, both for evening meals and as sandwich fillings		G_1411
	Shellfish (<i>prawns, crab, mussels</i>)		G_1412
	Chicken/turkey		G_1413
	Clean or cultured beef, pork or lamb (<i>roast, chops, fillets, steak</i>)		G_1414
	Processed meat products (<i>sausages, burgers, meatballs, etc.</i>)		G_1415
	Lentils, beans, chickpeas		G_1416
	Olive oil/canola oil (<i>for salads and cooking</i>)		G_1417
	Coarse cereal products (<i>wholemeal bread, crispbread, unsweetened muesli etc.</i>)		G_1418
	Oat porridge		G_1419
	Rice/pasta		G_1420
	Cakes, chocolate, ice cream, confectionary		G_1421
	Salty snacks (<i>e.g. crisps, peanuts</i>)		G_1422

15	How often have you drunk the following during the past year?	Variable name
	Water	1. Less than weekly G_15_1
	Fruit juices/smoothies	2. 1-3 times a week G_15_2
	Biola/Cultura/Activia/other probiotic products	3. 4-6 times a week G_15_3
	Other milk and dairy products (<i>e.g. ordinary milk, yogurt</i>)	4. 1-2 times a day G_15_4
	Sweet drinks (<i>e.g. Coca-Cola, blackcurrant juice, nectar</i>)	5. 3-4 times a day G_15_5
	Artificially sweetened beverages (<i>e.g. Zero, light soda, FUN</i>)	6. 5+ times a day G_15_6
	Filter/instant coffee	G_15_7
	Brewed/cafétière coffee	G_15_8
	Other coffee (<i>e.g. espresso, coffee latte</i>)	G_15_9

16	Do you eat fast food (from a fast food outlet, etc.) more than once a week?	Variable name
		1. No 2. Yes G_16
17	Do you skip breakfast more than twice a week?	Variable name
		1. No 2. Yes G_17

18	How often have you taken dietary supplements during the past year?			
		Variable name	If yes, how often?	
			Number of months per year:	Number of times a week:

Multivitamin/mineral supplements	1. No	G_18_1_1	G_18_1_2	G_18_1_3
Cod liver oil or other omega-3 supplements	2. Yes	G_18_2_1	G_18_2_2	G_18_2_3
Protein supplements		G_18_3_1	G_18_3_2	G_18_3_3

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Hillesund, E.R. et al. 2013: Development of a New Nordic Diet score and its association with gestational weight gain and fetal growth – a study performed in the Norwegian Mother and child cohort study (MoBa). *Public Health Nutrition: 17(9), 1909-1918.*

Mithril, C. et al. 2011: Guidelines for the New Nordic Diet. *Public Health Nutrition: 15(10), 1941-1947*

3. Rationale for choosing the questions:

Questions to capture the father's dietary intake sufficiently to be able to score their diet quality according to the New Nordic Diet Index (NND-index) developed for MoBa. The index is based on a Nordic collaboration and include principles related to health, gastronomic potential and Nordic identity, and sustainability. The key components include (i) more calories from plant foods and fewer from meat; (ii) more foods from the sea and lakes; and (iii) more foods from the wild countryside.

4. Revision during the data collection period:

No revisions have been made.

19-20. Exposure to smoking in childhood

1. Name of original questions: Questions about early exposure to smoking.

Q		Response options	Variable name
19	Did your father smoke when you were a child?		
		1. No 2. Yes 3. Don't know	G_19
20	Did your mother smoke when you were a child?		
		1. No 2. Yes 3. Don't know	G_20

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

Questions to measure early exposure and possible gender specific epigenetic or prenatal transmissions of risk. The questions are based on HUNT.

4. Revision during the data collection period:

No revisions have been made.

21-28. Tobacco use

1. Name of original questions: Question about smoking and 'snus' habits.

21	Do you smoke or have you smoked in the past?	Variable name
	1. No, I have never smoked 2. Yes, but not anymore 3. Yes, occasionally (parties/holiday, not daily) 4. Yes, daily If you have never smoked daily, please go to question 25	G_21
22	How many cigarettes a day do/did you normally smoke?	Variable name
	__cigarettes per day	G_22
23	How old were you when you started smoking?	Variable name
	__years old	G_23
24	If you have previously smoked, how old were you when you stopped?	Variable name
	__ years old	G_24
25	Do you currently use or have you previously used smokeless/chewing tobacco ('snus')?	Variable name
	1. No, never 2. Yes, but not anymore 3. Yes, occasionally 4. Yes, daily If you have never used 'snus' daily, please go to question 29	G_25
26	How many boxes of 'snus' do/did you use per month?	Variable name
	__ boxes of 'snus' per month	G_26
27	How old were you when you started using 'snus'?	Variable name
	__ years old	G_27
28	If you have previously used 'snus', how old were you when you stopped?	Variable name
	__ years old	G_28

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

This is a measure of the father's intake of nicotine, both through cigarettes and smokeless/chewing tobacco, which can be a risk factor for children. The questions are based on Conor.

4. Revision during the data collection period:

No revisions have been made.

29-38. Alcohol use

1. Name of original questions: Alcohol Use Disorders Identification Test (AUDIT).

29	How often do you drink alcohol?	Variable name
	<ol style="list-style-type: none"> 1. Never 2. Once a month or less 3. Two to four times a month 4. Two to three times a week 5. Four or more times a week 	G_29

30	How many alcohol units do you have on a typical day when you are drinking?	Variable name
	<ol style="list-style-type: none"> 1. 1-2 2. 3-4 3. 5-6 4. 7-9 5. 10 or more 	G_30

31	How often do you drink six alcohol units or more?	Variable name
	<ol style="list-style-type: none"> 1. Never 2. Less than monthly 3. Monthly 4. Weekly 5. Daily/almost daily 	G_31

32	How often during the past year have you found that you were not able to stop drinking once you had started?	Variable name
	<ol style="list-style-type: none"> 1. Never 2. Less than monthly 3. Monthly 4. Weekly 5. Daily/almost daily 	G_32

33	How often during the past year have you failed to do what was normally expected from you because of drinking?	Variable name
	<ol style="list-style-type: none"> 1. Never 2. Less than monthly 3. Monthly 4. Weekly 5. Daily/almost daily 	G_33

34	How often do you start your day with alcohol?	Variable name
	<ol style="list-style-type: none"> 1. Never 2. Less than monthly 3. Monthly 4. Weekly 5. Daily/almost daily 	G_34

35	How often during the past year did you have feelings of guilt over your drinking?	Variable name
	<ol style="list-style-type: none"> 1. Never 2. Less than monthly 3. Monthly 4. Weekly 5. Daily/almost daily 	G_35

36	How often during the past year have you been unable to remember what happened the night before because you had been drinking?	Variable name
	<ol style="list-style-type: none"> 1. Never 2. Less than monthly 3. Monthly 4. Weekly 5. Daily/almost daily 	G_36

37	Have you or someone else been injured as a result of your drinking?	Variable name
	<ol style="list-style-type: none"> 1. No 2. Yes, but not during the past year 3. Yes, during the past year 	G_37

38	Has a relative, friend or doctor been concerned about your drinking or suggested you should cut down?		
		1. No 2. Yes, but not during the past year 3. Yes, during the past year	G_38

2. Description of original instrument: Alcohol Use Disorders Identification Test (AUDIT)

The Alcohol Use Disorders Identification Test (AUDIT; Saunders, et al., 1993) has been developed from a six-country WHO collaborative project as a screening instrument for hazardous and harmful alcohol consumption. It is a 10-item questionnaire which covers the domains of alcohol consumption, drinking behaviour, and alcohol-related problems.

Psychometric Information:

The average reliability across the AUDIT scales is .65. Using the lower cut-off point of 8, the overall sensitivity for hazardous and harmful alcohol use was 87% to 96%, with an overall value of 94%. The corresponding specificity was 81% to 98%, with an overall value of 94%. When the cut-off point of 10 was taken, the overall value of sensitivity was 80%, and the corresponding specificity was 98%. The AUDIT also has the ability to discriminate between alcoholics and non-drinkers (Saunders, et al., 1993).

Base References/Primary Citations:

Saunders JB, Aasland OG, Babor TF, DE La Fuente JR, and Grant M. (1993). Development of the Alcohol Use Disorders Identification Test (AUDIT): WHO Collaborative Project on Early Detection of Persons with Harmful Alcohol Consumption-II. *Addiction* 88: 791-804.

Modifications:

The response categories for the question ‘How often do you drink alcohol now?’ have been altered. The original response categories are: four or more times a week, two to three times a week, two to four times a month, monthly or less, never.

The second question was rephrased as ‘How many alcohol units do you have on a typical day when you are drinking?’; the original questions is ‘How many drinks containing alcohol do you have on a typical day when you are drinking?’

3. Rationale for choosing the questions:

The AUDIT provides a simple method of early detection of hazardous and harmful alcohol use in primary health care settings and is the first instrument of its type to be derived on the basis of a cross-national study.

4. Revision during the data collection period:

No revisions have been made.

39. Cannabis use

1. Name of original questions: Question about cannabis use.

39	Have you ever used cannabis?	Variable name
	1. No 2. Yes, more than a year ago 3. Yes, during the past year	G_39_1

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

These questions were developed to survey the father's history of illegal drug use. The question comes from a more comprehensive list of illegal substances in the previous father's questionnaire. The list was shortened because there were few users of the other substances.

4. Revision during the data collection period:

No revisions have been made.

40. Physical activity

- 1. Name of original questions:** Questions about frequency of physical activity leading the father to get out of breath or sweat.

40	How physically active are you? Here we ask about how long you do activities in which you become short of breath or sweat. Include activities both at home and at work. (Insert one cross for each line.)	Variable name
	How often do you exercise for less than 30 minutes?	1. Never 2. Less than once a week
	How often do you exercise for 30-60 minutes?	3. Once a week
	How often do you exercise for more than 60 minutes?	4. 2 times a week 5. 3-4 times a week 6. 5 times a week or more
		G_40_1 G_40_2 G_40_3

- 2. Description of original instrument: MoBa specific questions**

These questions were adapted from a scale in Sagatun, et al. (2007).

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Sagatun A. Sjøgaard AJ. Bjertness, E. Selmer, R. & Heyerdahl, S. 2007. The association between weekly hours of physical activity and mental health: A three-year follow-up study of 15-16-year-old students in the city of Oslo, Norway. *BMC Public Health* 7:155.

- 3. Rationale for choosing the questions:**

The questions were developed for MoBa to survey the mother's physical activities when the child was 8 years old.

- 4. Revision during the data collection period:**

No revisions have been made.

41. Hours spent sitting

1. Name of original questions: Questions about time spent sitting during the day

41	Roughly how many hours do you spend sitting during a normal day? (work, travelling, TV, reading, PC, etc.)	Variable name
	1. Less than 4 hours 2. 5-8 hours 3. 9-12 hours 4. 13-14 hours 5. 15 hours or more	G_41

2. Description of original questions: MoBa specific single questions

Psychometric Information:
Not relevant.

Base References/Primary Citations:
Not relevant.

3. Rationale for choosing the questions:

Questions about time spent sitting during a normal day to measure physical activity.

4. Revision during the data collection period:

No revisions have been made.

42-50. Sunbathing

1. Name of original questions: Questions about the father's sun habits.

Q	Response options	Variable name
42	What is your natural hair colour?	
	<ol style="list-style-type: none"> 1. Dark brown or black 2. Brown 3. Blond 4. Ginger 	G_42
43	How many moles would you roughly estimate you have on your legs?	
	<ol style="list-style-type: none"> 1. 0 2. 1 3. 2-3 4. 4-6 5. 7-12 6. 13-24 7. 25+ 	G_43
44	If you sunbathe for a long time at the start of the summer without applying sunscreen, how does your skin turn?	
	<ol style="list-style-type: none"> 1. Brown without first turning red 2. Red 3. Red with stinging 4. Red with stinging and blisters 	G_44
45	After repeated and prolonged sunbathing, what colour does your skin turn?	
	<ol style="list-style-type: none"> 1. Deep brown 2. Brown 3. Light brown 4. Never brown 	G_45
46	On average, how many times a year over the past five years has your skin got so burnt that it became irritated, blistered and flaked off?	
	<ol style="list-style-type: none"> 1. Never 2. No more than once a year 3. 2-3 times a year 4. 4-5 times a year 5. 6 times or more a year 	G_46
47	On average, how many weeks a year have you spent on holiday in a sunny climate (e.g. the Mediterranean) during the past five years?	
	<ol style="list-style-type: none"> 1. None 2. 1 week per year 3. 2-3 weeks per year 4. 4-6 weeks per year 5. 7 weeks or more per year 	G_47
48	On average, how often have you used a solarium during the past five years?	
	<ol style="list-style-type: none"> 1. Never 2. Less than once a month 3. Once a month 4. Twice a month 5. 3-4 times a month 	G_48
49	When you are outside on a sunny day during the summer in Norway, do you apply sun cream?	
	<ol style="list-style-type: none"> 1. No, never 2. Yes, occasionally 3. Yes, often 4. Yes, always 	G_49

50	When you are outside on a sunny day on holiday in a sunny climate (e.g. the Mediterranean), do you apply sun cream?	Variable name
	1. No, never 2. Yes, occasionally 3. Yes, often 4. Yes, always	G_50

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Christine L. Parr, Anette Hjartåker, Petter Laake, Eiliv Lund, Marit B. Veierød, Recall Bias in Melanoma Risk Factors and Measurement Error Effects: A Nested Case-Control Study Within the Norwegian Women and Cancer Study, *American Journal of Epidemiology*, Volume 169, Issue 3, 1 February 2009, Pages 257–266, <https://doi.org/10.1093/aje/kwn363>

Lazovich, D.; Vogel, R.I.; Berwick, M.; Weinstock, M.A.; Anderson, K.E.; Warshaw, E.M. Indoor tanning and risk of melanoma: A case-control study in a highly exposed population. *Cancer Epidemiol. Biomark. Prev* **2010**, *19*, 1557–1568.

3. Rationale for choosing the questions:

The list of questions is based on Melanoma risk factors from the Norwegian Women and Cancer study. The questions are adjusted in discussion with the department of biostatistics at the Institute of Basic Medical Sciences at University of Oslo and the Norwegian Radiation and Nuclear Safety Authority.

4. Revision during the data collection period:

No revisions have been made.

51. Satisfaction with life

1. Name of original questions: Satisfaction with life scale (SWLS).

Q		Response options	Variable name
51	Do you agree or disagree with the following statements?		
	In most ways my life is close to my ideal	1. Disagree completely	G_51_1
	The conditions of my life are excellent	2. Disagree	G_51_2
		3. Disagree somewhat	
	I am satisfied with my life	4. Don't agree or disagree	G_51_3
	So far I have gotten the important things I want in life	5. Agree somewhat	G_51_4
		6. Agree	
	If I could live my life over, I would change almost nothing	7. Agree completely	G_51_5

2. Description of original instrument: Satisfaction With Life Scale (SWLS)

The SWLS (Diener et al., 1985) is a 5-item instrument designed to measure global cognitive judgments of satisfaction with one's life. All answers are scored on a 7-point scale from 'strongly disagree' (1) to 'strongly agree' (7).

Psychometric Information:

Internal consistency (Cronbach's alpha) for the SWLS is between .79 and .89. Test-retest coefficients are between .84 and .54, with the decline of stability of the scale over longer periods. The SWLS demonstrates adequate convergence with related measures ($r=.28\sim.82$), and it has been shown to have potential as a cross-cultural index of life satisfaction (Diener et al., 1985; Pavot & Diener, 1993; Pavot, et al., 1993; Shigehiro, 2006; Vittersø, Røysamb & Diener, 2002).

Base References/Primary Citations:

Diener, E., Emmons, R. A., Larsen, R. J., & Griffin, S. (1985). The Satisfaction With Life Scale. *Journal of Personality Assessment* 49: 71-75.

Pavot, W., & Diener, E. (1993). Review of the Satisfaction With Life Scale. *Psychological Assessment*, 5, 164-172.

Pavot, W., Diener, E., Colvin, R., & Sandvik, E. (1991). Further validation of the Satisfaction with Life Scale: Evidence for the cross-method convergence of self-report well-being measures. *Journal of Personality Assessment* 57: 149-161.

Shigehiro, O. (2006). The concept of life satisfaction across culture: An IRT analysis. *Journal of Research in Personality* 40(4): 411-423.

Vittersø, J., Røysamb, E., & Diener, E. (2002). The concept of life satisfaction across cultures: Exploring its diverse meaning and relation to economic wealth. In E. Gullone & R. Cummins (Eds.), *The universality of subjective wellbeing indicators. A multidisciplinary and multi-national perspective* (pp. 81–103). Dordrecht, the Netherlands: Kluwer Academic Publishers.

3. Rationale for choosing the questions:

The Satisfaction With Life Scale is a well-established measure of life satisfaction.

4. Revision during the data collection period:

No revisions have been made.

52. Symptoms of anxiety and depression

1. Name of original questions: Selective items from Hopkins symptoms checklist-12 (SCL-12)

52	Have you been bothered by any of the following feelings during the past two weeks?	Variable name
	Feeling fearful	1. Not bothered G_52_1
	Nervousness or shakiness inside	2. A little bothered G_52_2
	Feeling hopeless about the future	3. Quite bothered G_52_3
	Feeling blue	4. Very bothered G_52_4
	Worrying too much about things	G_52_5
	Feeling everything is an effort	G_52_6
	Feel tense or keyed up	G_52_7
	Suddenly scared for no reason	G_52_8
	Feeling low in energy, slowed down	G_52_9
	Crying easily	G_5210
	Feeling of being useless	G_5211
	Blaming yourself for things	G_5212

2. Description of original instrument: The Hopkins Symptoms Checklist-25 (SCL-25)

The Hopkins Symptoms Checklist with 90 items (SCL-90) measures several types of symptoms of mental disorders, two of which are anxiety and depression. The instrument was originally designed by Derogatis, Lipman & Covi (1973) at Johns Hopkins University. The SCL-25 was derived from the SCL-90 and measures symptoms of anxiety (10 items) and depression (15 items) (Hesbacher et al, 1980). Eight of the selected items in this section constitute the short version SCL-8 (Tambs & Røysamb, 2014). Four items (i.e. 1, 2, 7 & 8) capture symptoms of anxiety and four items (i.e. 3, 4, 5 & 6) tap symptoms of depression. The scale for each question includes four categories of response ("not bothered," "a little bothered," "quite bothered," "very bothered," rated 1 to 4, respectively).

Psychometric Information:

A concordance rate of 86.7% was demonstrated between the assessment by the physician and the patient's own rating of distress on the SCL-25 (Hesbacher, et al., 1980). Using and available data material (Tambs & Moum, 1993), the SCL-8 scores were estimated to correlate 0.94 with the total score from the original instrument. The correlations between the SCL-8 anxiety and depression scores and the original anxiety and depression scores were 0.90 and 0.92, respectively (Tambs & Røysamb, 2014). The alpha reliability was estimated at 0.88, 0.78 and 0.82 for the SCL-8 total, anxiety and depression scores, respectively (Tambs & Røysamb, 2014).

Base References/Primary Citations:

Derogatis, L.R., Lipman, R.S. & Covi L. 1973. The SCL-90: an outpatient psychiatric rating scale. *Psychopharmacology Bulletin* 9: 13-28.

Hesbacher PT, Rickels R, Morris RJ, Newman H, & Rosenfeld MD. 1980. Psychiatric illness in family practice. *Journal of Clinical Psychiatry* 41: 6-10.

Strand, B.H., Dalsgard, O.S., Tambs, K., & Rognerud, M. 2003. Measuring the mental health status of the Norwegian population: A comparison of the instrument SCL-25, SCL-10, SCL-5 and MHI-5 (SF-36). *Nordic Journal of Psychiatry* 57: 113-118.

Tambs, K. & Moum, T. 1993. How well can a few questionnaire items indicate anxiety and depression? *Acta Psychiatrica Scandinavica* 87: 364-367.

Tambs, K. & Røysamb E. 2014. Selection of questions to short-form versions of original psychometric instruments in MoBa. *Norsk Epidemiologi* 24:195-201.

3. Rationale for choosing the questions:

Symptom Check List and its short versions have proven to be a brief, valid and reliable measure of mental distress (Tambs & Moum, 1993).

Symptoms of anxiety and depression. Selective items from Hopkins symptoms checklist-12 (SCL-12)

4. Revision during the data collection period:

No revisions have been made.

53. Social anxiety disorder

1. Name of original questions: Mini Social Phobia Inventory (Mini-SPIN).

53	How much have the following problems affected you during the past week?	Variable name
	Fear of embarrassment cause me to avoid doing things or speaking to people	1. Not at all 2. A little
	I avoid activities in which I am the centre of attention	3. To some extent 4. Quite a lot
	Being embarrassed or looking stupid are among my worst fears	5. A lot
		G_53_1
		G_53_2
		G_53_3

2. Description of original instrument: Mini Social Phobia Inventory (miniSPIN)

The Mini-SPIN (Connor, et al., 2001) is 3-item self-rated scale derived from the Social Phobia Inventory (SPIN; Connor, et al., 2000). The questions are constructed to measure the level of fear, embarrassment and avoidance in the context of social situations. Each item is evaluated on a 5-point Likert scale (1-5 points for replies from “not at all” to “extremely”).

Psychometric Information:

With a cutoff of 6 or more points, its sensitivity and specificity reaches 88.7% and 90.0% respectively (Connor et al. 2001). The miniSPIN showed good test-retest reliability, $r = .70$. and excellent internal consistency, $\alpha = .91$ (Seeley-Wait, et al., 2009). The miniSPIN also demonstrated adequate concurrent, convergent and divergent validity, and satisfactory discriminative validity in a Swedish sample (Ek & Ostlund, 2013).

Base Reference/Primary Citation:

Connor, K.M., Davidson, J.R.T, Churchill, L.E., Sherwood, A., E., Foa, E. & Weisler, R.H. 2000. Psychometric properties of the Social Phobia Inventory (SPIN): New self-rating scale. *British Journal of Psychiatry* 176: 379–386.

Connor K.M., Kobak K.A., Churchill L.E., Katzelnick D., & Davidson J.R. 2001. Mini-SPIN: a brief screening assessment for generalized social anxiety disorder. *Depression and Anxiety* 14:137-140.

Ek, A. & Ostland, P. 2013. Internet validation and psychometric evaluation of the Mini Social Phobia Inventory applied to one clinical and two nonclinical samples. Retrieved on 25.04.2014 from <http://www.diva-portal.org/smash/get/diva2:632130/FULLTEXT01.pdf>.

Seeley-Wait E., Abbott M.J., & Rapee R.M. 2009. Psychometric properties of the Mini-Social Phobia Inventory. *Primary Care Companion to the Journal of Clinical Psychiatry* 11: 231-236.

3. Rationale for choosing the questions:

Mini-SPIN is a compact screening instrument for social anxiety disorder.

4. Revision during the data collection period:

No revisions have been made.

54-55. Suicidal thoughts and attempts

1. Name of original questions: Questions about suicidal thoughts and attempts.

54	Have you had any suicidal thoughts?		Variable name
		1. No 2. Yes	G_54
55	Have you ever tried to commit suicide?		
		1. No 2. Yes	G_55

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

It is important to map suicidal thoughts and attempts among men in this age group. The questions are based on UNG-HUNT.

4. Revision during the data collection period:

No revisions have been made.

56. Symptoms of psychosis

1. Name of original questions: Selective items from CAPE-9.

56	The thoughts and feelings described here may seem unique to you, but they are more common than you might think. Does any of this apply to you?			Variable name
		1. How often have you been having these feelings or thoughts?	2. If you have experienced this, how affected are you by the experience?	
	Have you ever felt that what is printed in magazines and newspapers or said on TV specifically applies to you?	1. Never 2. Occasionally	1. Not at all 2. A little 3. Quite a lot	1. G_56_1_1 2. G_56_1_2
	Have you ever felt that someone is stalking you in some way?	3. Often 4. Almost constantly	4. A lot	1. G_56_2_1 2. G_56_2_2
	Have you ever felt that other people are conspiring against you?			1. G_56_3_1 2. G_56_3_2
	Have you ever felt that electrical appliances, such as PCs, can affect your thoughts?			1. G_56_4_1 2. G_56_4_2
	Have you ever felt that the thoughts in your head is not your own?			1. G_56_5_1 2. G_56_5_2
	Have your thoughts sometimes been so vivid that you have been worried other people might hear them?			1. G_56_6_1 2. G_56_6_2
	Have you ever felt that there is another force outside of you who is in control of you?			1. G_56_7_1 2. G_56_7_2
	Have you ever heard voices when you were completely alone (not radio or TV)?			1. G_56_8_1 2. G_56_8_2
	Have you ever seen objects, people or animals that no one else can see?			1. G_56_9_1 2. G_56_9_2

2. Description of original questions: MoBa specific single questions

Psychometric Information:
Not relevant.

Base References/Primary Citations:
<http://cape42.homestead.com>

Stefanis NC, Hanssen M, Smirnis NK et al. Evidence that three dimensions of psychosis have a distribution in the general population. *Psychol Med* 2002;32:347–358.

3. Rationale for choosing the questions:

Questions are measuring symptoms of psychosis using CAPE-9. The selective items are chosen based on unpublished psychometric analyzes by Jim van Os from the original 42 question list (CAPE-42). The CAPE-42 was developed by Jim van OS, H el ene Verdoux and Manon Hanssen, and is based on the PDI-21 and PDI-40 developed by Emmanuelle Peters et al. (2001).

4. Revision during the data collection period:

No revisions have been made.

57. Life events

1. Name of original questions: Questions about life events.

Q	Response options	Variable name
57	Have you experienced any of the following during the past 10 years?	
Problems at work or study place	1. No	G_57_1
Lost my job	2. Last 12 months	G_57_2
Financial problems	3. Yes, earlier	G_57_3
Major conflicts in a relationship		G_57_4
Got divorced, separated or ended a relationship		G_57_5
Problems or major conflicts with family, friends or neighbours		G_57_6
Been seriously ill or injured		G_57_7
Close friend or relative has been seriously ill or injured		G_57_8
Involved in a serious accident, fire or robbery		G_57_9
Been the victim of physical violence		G_5710
Been the victim of sexual abuse		G_5711
Lost someone close to you		G_5712
Other serious events/experiences		G_5713

2. Description of original questions: MoBa specific single questions

These questions were selected primarily because of their relevance to the population in general, partly due to their relevance to women with small children. The questions are inspired by a list adopted from Coddington (1972), which was directed at children from preschool to senior high school. The questions in this section were adapted to adult respondents.

Psychometric Information:

No relevant psychometric information has been found.

Base Reference/Primary Citation:

Coddington, R.D. 1972. The significance of life events as etiologic factors in the diseases of children II: A study of a normal population. *Journal of Psychosomatic Research* 16: 205-213.

3. Rationale for choosing the questions:

The questions are developed based on previous MoBa questionnaires, and are revised to the gender-age group. The selected questions are believed to address life events that could affect the father and his family.

4. Revision during the data collection period:

No revisions have been made.

58. Sleep

1. Name of original questions: Karolinska Sleep Questionnaire.

Q		Response options	Variable name
58	How often ...		
	... do you find it difficult to get to sleep at night?	Days a week	G_58_1
	... have you woken up repeatedly during the night?	1. Never 2. Less than 1	G_58_2
	... do you feel tired or sleepy during the day?	3. 1 4. 2 5. 3 6. 4 or more	G_58_3
	If you have any of these sleep disorders, how long have you suffered from them?	1. Less than 1 month 2. 1-3 months 3. 3-6 months 4. 6-12 months 5. 1-3 years 6. More than 3 years	G_58_4

2. Description of original questions: Karolinska Sleep Questionnaire

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Kecklund, G. and Åkerstedt, T. 1992. The psychometric properties of the Karolinska Sleep Questionnaire. *Journal of sleep research* 1: 113

3. Rationale for choosing the questions:

Questions mapping sleep problems using Karolinska Sleep Questionnaire.

4. Revision during the data collection period:

No revisions have been made.

59-60. Friendships

1. Name of original questions: Questions mapping the father's social network.

Q	Response options	Variable name
59	Do you have anyone other than your spouse/partner you can ask for advice in a difficult situation?	
	1. No 2. Yes, 1-2 people 3. Yes, more than 2 people	G_59
60	How often do you meet or talk on the phone with your family (except the people you live with) or close friends?	
	1. Several times a week 2. 1-4 times a month 3. Less often	G_60

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Reblin, MA & Uchino BN. 2008. Social and emotional support and its implication for health. *Current Opinion in Psychiatry* 21(2): 201–205.

3. Rationale for choosing the questions:

Social support and social relations are related to personal health and happiness (see Reblin & Uchino, 2008 for a review).

4. Revision during the data collection period:

No revisions have been made.

61. Relationship

1. Name of original scale: Relationship Satisfaction Scale (RS) – short version.

Q		Response options	Variable name
61	How much do you agree with these descriptions of your relationship with your current spouse/partner?		
	My partner and I have problems in our relationship	1-Agree completely	G_61_1
	I am very happy with our relationship	2-Agree 3-Agree somewhat	G_61_2
	My partner is generally understanding	4-Disagree somewhat 5-Disagree 6-Disagree completely	G_61_3
	I am satisfied with my relationship with my partner		G_61_4
	We agree on how our child should be raised		G_61_5

Description of original instrument: The Relationship Satisfaction Scale (RSS)

The RSS is a 10-item scale developed originally in Norwegian for the MoBa. The scale is based on core items used in previously developed measures of marital satisfaction and relationship quality (e.g. Blum & Mehrabian, 1999; Henrick, 1988; Snyder, 1997). All answers are scored on a 6-point scale from ‘strongly agree’ (1) to ‘strongly disagree’ (6).

Psychometric Information:

Internal reliability of the RS10 is high (alpha: .85-.90). Confirmatory factor analyses provide evidence for a unidimensional structure, high loadings and good fit. The RSS correlates .92 with the Quality of Marriage Index (QMI: Norton, 1983). Predictive validity is evidenced by ability to predict future break-up/divorce and life satisfaction (Dyerdal et al., 2011; Røysamb, et al., 2013; Røysamb, Vittersø & Tambs, 2014). The 5-item short version (RS5) was empirically derived by identifying the best items in terms of accounting for variance in the full sum-score index. Multiple regression and factor analyses were used (Røysamb, Vittersø & Tambs, 2014). The short version correlates .97 with the full scale.

Base References/Primary Citations:

Blum, J. & Mehrabian, A. (1999). Personality and temperament correlates of marital satisfaction. *Journal of Personality* 67 (1): 93-125.

Dyerdal, G.M., Røysamb, E., Nes, R. B. & Vittersø, J. (2011). Can a happy relationship predict a happy life? A population-based study of maternal well-being during the life transition of pregnancy, infancy, and toddlerhood. *Journal of Happiness Studies* 12(6): 947- 962.

Gustavson, K., Nilsen, W., Ørstavik, R. & Røysamb, E. (2014). Relationship quality, divorce, and well-being: Findings from a three-year longitudinal study. *The Journal of Positive Psychology* 9(2): 163-174.

Henrick, S. S. (1988). A generic measure of relationship satisfaction. *Journal of Marriage and the Family* 50: 93-98.

Norton, R. (1983). Measuring marital quality: A critical look at the dependent variable. *Journal of Marriage and the Family* 45: 141-151.

Røsand, G-M. B., Slinning, K., Røysamb, E. & Tambs, K. (2013). Relationship dissatisfaction and other risk factors for future relationship dissolution: a population-based study of 18,523 couples. *Social Psychiatry and Psychiatric Epidemiology* 49(1): 109-119.

Røysamb, E., Vittersø, J. & Tambs, K. (2014). The Relationship Satisfaction scale: Psychometric properties. *Norwegian Journal of Epidemiology [Norsk Epidemiologi]* 24(1-2): 187-194.

Snyder, D. K. (1997). *Marital Satisfaction Inventory–Revised (MSI-R) Manual*. Los Angeles: Western Psychological Services.

3. Rationale for choosing the questions:

Partner relationship is considered a central aspect of family life. Relationship satisfaction is both an outcome *per se* and a potentially significant predictor of mental health, well-being, divorce, and child-rearing.

4. Revision during the data collection period:

No revisions have been made.

62-64. Household

1. Name of original questions: Questions about the household.

Q	Response options	Variable name
62	Marital status?	
	1. Married 2. Cohabitant 3. Seperated 4. Divorced 5. Single 6. Widower	G_62

63	Who do you share your household with? (insert one or more crosses)	Variable name
	Spouse	G_63_1
	Partner	G_63_2
	Own children	G_63_3
	Other people's children	G_63_4
	Other	G_63_5
	No one else	G_63_6

64	In total, how many children (under 20 years of age) live in your household?	Variable name
	Number of ____	G_64_G

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

This is a standard measure of marital status, and questions about the household. The questions are based on previous MoBa questionnaires and standard questions.

4. Revision during the data collection period:

No revisions have been made.

65. Education

1. Name of original questions: Questions about the father's educational level.

65	What level of education do you have?	
	<ol style="list-style-type: none"> 1. Primary and lower secondary school 2. Upper secondary 3. Vocational training 4. 3-year advanced general studies, academic, college/upper secondary school 5. University college or university up to four years (cand.mag., bachelor, nurse, teacher, engineer) 6. University college or university more than four years (Major, master's degree) 7. Other education 	G_65_1

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

These are standard measures of education levels. The questions are based on previous MoBa questionnaires and standard questions.

4. Revision during the data collection period:

No revisions have been made.

66-67. Work situation

1. Name of original questions: Questions about employment.

66	What was your gross annual income (before tax) during the past year?	Variable name
	1. Less than NOK 200,000	G_66
	2. NOK 200,000-299,999	
	3. NOK 300,000-399,999	
	4. NOK 400,000-499,999	
	5. NOK 500,000-749,999	
	6. NOK 750,000-999,999	
	7. NOK 1,000,000 and above	

67	What is your work situation now?	Variable name
	Student	G_67_1
	At home	G_67_2
	Jobseeker/laid-off	G_67_3
	Rehabilitation/disabled	G_67_4
	Employed in public sector	G_67_5
	Employed in private sector	G_67_6
	Self-employed	G_67_7
	Family member without steady income in family company (ex. farming, business)	G_67_8
	Other	G_67_9

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

These questions were developed to get information about the father's income and the father's work situation. The questions are based on previous MoBa questionnaires and standard questions.

4. Revision during the data collection period:

No revisions have been made.

68-73. Profession and work

1. Name of original questions: Questions mapping profession and work.

Q	Response options	Variable name
68	Describe the business at your place of work/service as accurately as possible?	
69	Job title at this workplace	
70	If you are in paid work, how many hours do you work in a normal week?	Variable name
	<ol style="list-style-type: none"> 1. 1-15 2. 16-25 3. 26-35 4. 36-40 5. 41-50 6. 51-60 7. More than 60 hours 	G_70
71	If you are in paid work or unpaid work, how would you describe your work?	Variable name
	<ol style="list-style-type: none"> 1. Mostly sedentary work (e.g. desk work, assembly) 2. Work that requires you to walk a lot (e.g. sales work, light industrial work, teaching) 3. Work where you walk and lift a lot (e.g. postman, nurse, construction worker) 4. Strenuous physical work (e.g. forestry, demanding agricultural work, heavy construction work) 	G_71
72	In the last 12 months, have you been on sick leave?	Variable name
	Without medical certificate (self-notification)	1. No G_72_1
	With medical certificate from doctor	2. Yes G_72_2
73	If yes, how long in total?	Variable name
	<ol style="list-style-type: none"> 1. Less than 1 week 2. 1-2 weeks 3. 3-8 weeks 4. More than 8 weeks 	G_73

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

The questions are based on previous MoBa questionnaires. Physical activity and work hours is added to the questionnaire. Questions on physical activity are based on European Health Examination (EHES) and Tromsøundersøkelsen.

4. Revision during the data collection period:

No revisions have been made.

74-75. Contact with the Child's mother

- 1. Name of original questions:** Questions about living arrangements and contact with the child's mother.

Q	Response options	Variable name
74	Do you live with the child's mother?	
	1. Yes (please go to question 76)	1, 3: G_74_1
	2. No, we separated in ____ (year)	2: G_74_3
	3. No, we have never lived together	4: G_74_2
	4. She is no longer alive (please go to question 77)	

Q	Response options	Variable name
75	How often do you communicate with the child's mother (in person, telephone, text, social media, etc.)?	
	1. Rarely/never	G_75
	2. Monthly	
	3. Weekly	
	4. Daily/almost daily	

- 2. Description of original questions: MoBa specific single questions**

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

- 3. Rationale for choosing the questions:**
Questions developed based on ADHD/Norflu questionnaire.
- 4. Revision during the data collection period:**
No revisions have been made.

76. Conflicts with the child's mother

1. Name of original questions: Questions about conflicts with the child's mother.

76	How often would you say that you and your child's mother...	Variable name
	... have unpleasant conversations?	1. Never G_76_1
	... argue?	2. Less than monthly G_76_2
	... are angry with each other?	3. Monthly G_76_3
		4. Weekly
		5. Daily/almost daily

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Johnson, D. D., White, L. K., Edwards, J. N., & Booth, A. (1986). Dimensions of marital quality: Toward methodological and conceptual refinement. *Journal of Family Issues*, 7, 31–49.

Dush, C. M. K., Cohan, C. L. and Amato, P. R. (2003), The Relationship Between Cohabitation and Marital Quality and Stability: Change Across Cohorts?. *Journal of Marriage and Family*, 65: 539–549.

3. Rationale for choosing the questions:

Questions about conflicts with the child's mother are based on Johnson's conflict scale used in TOPP questionnaires. The scale is abbreviated.

4. Revision during the data collection period:

No revisions have been made.

77. Child-Parent relationship

1. Name of original scale: Child-Parent relationship short scale.

Q	Response options	Variable name
77	How do you feel about the relationship between you and your child at the present time? Insert a cross for the statement that best applies to you (Insert one cross for each line)	
I share an affectionate, warm relationship with my child	1. Definitely does not apply	G_77_1
My child and I always seem to be struggling with each other	2. Not really	G_77_2
If upset, my child will seek comfort from me	3. Neutral, not sure	G_77_3
My child is uncomfortable with physical affection or touch from me	4. Applies somewhat	G_77_4
My child values his/her relationship with me	5. Definitely applies	G_77_5
When I praise my child, he/she beams with pride		G_77_6
My child spontaneously shares information about himself/herself		G_77_7
My child easily becomes angry at me		G_77_8
It is easy to be in tune with what my child is feeling		G_77_9
My child remains angry or is resistant after being disciplined		G_7710
Dealing with my child drains my energy		G_7711
When my child is in a bad mood, I know we're in for a long and difficult day		G_7712
My child's feelings toward me can be unpredictable or can change suddenly		G_7713
My child openly shares his/her feelings and experiences with me		G_7714
I have enough free time to be with my child		G_7715

2. Description of original questions: Child-Parent relationship short scale

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Pianta, R. C. (1992). Child-parent relationship scale. Unpublished measure, University of Virginia.

The last item is not from Child-Parent Relationship Scale. It is specific to MoBa, but fit to the same response options.

3. Rationale for choosing the questions:

Questions measuring the father's relationship with his child using the Child-Parent relationship short scale. The translation of the scale to Norwegian is done by the TOPP project at the Norwegian institute of public health.

4. Revision during the data collection period:

No revisions have been made.

78. Relationship with the child

1. Name of original questions: Question about relationship with the child.

78	On average, approximately how often do you do the following with your child?	Variable name
	Eat your evening meal with your child	1. Less than once a month G_78_1
	Have intimate conversations with your child	2. 1-3 times a month G_78_2
	Are available for your child in the evenings	3. 1-2 times a week G_78_3
	Watch TV or relax with your child	4. 3-4 times a week G_78_4
	Take part in sports, go for a walk or participate in other outdoor activities with your child	5. 5 times a week or more G_78_5
	Take part in other activities together (e.g. reading out loud, cooking, playing games)	G_78_6

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

The list is accustomed based on topics from other studies.

4. Revision during the data collection period:

No revisions have been made.

79. Conflicts with the child

1. Name of original questions: Questions about conflicts with child.

79	How often would you say that you and your child...	Variable name
	... have unpleasant conversations?	1. Never G_79_1
	... argue?	2. Less than once a month G_79_2
	... are angry with each other?	3. Once a month G_79_3
		4. Once a week
		5. Daily/almost daily

2. Description of original questions: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Johnson, D. D., White, L. K., Edwards, J. N., & Booth, A. (1986). *Dimensions of marital quality: Toward methodological and conceptual refinement. Journal of Family Issues, 7, 31–49.*

Dush, C. M. K., Cohan, C. L. and Amato, P. R. (2003), *The Relationship Between Cohabitation and Marital Quality and Stability: Change Across Cohorts?. Journal of Marriage and Family, 65: 539–549.*

3. Rationale for choosing the questions:

Questions about conflicts with the child based on Johnson’s conflict scale used in TOPP questionnaires. The scale is abbreviated.

4. Revision during the data collection period:

No revisions have been made.

80. The child's living arrangement

- 1. Name of original questions:** Questions measuring the child's living arrangement.

80	How much of the time does your child live with you? (If you do not live with your child's mother)	Variable name
	My child lives with me ___ days a month	G_80

- 2. Description of original questions: MoBa specific single questions**

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

- 3. Rationale for choosing the questions:**

This question was developed based on the ADHD/Norflu questionnaire.

- 4. Revision during the data collection period:**

No revisions have been made.

81. Comments

Q		Response options	Variable name
81	If you have any comments or anything else you would like to add, please use this space:	_____	