# Questions Documentation

# 8-year Questionnaire when the child was 8 years old

The Norwegian Mother and Child Cohort Study (MoBa)

Mother Questionnaire

Version 1.0 March 2016 by Fufen Jin

This document describing the instruments used to construct the questionnaire has not been finally quality controlled. The document may contain some minor inaccuracies and will be subjected to revision. If you have any comments that may improve this document contact <a href="mailto:mobaadm@fhi.no">mobaadm@fhi.no</a>

#### LIST OF CONTENT

Instrument	3
1-5. Child's Friends and Leisure Time	4
6. Bullying and Physical Abuse	5
7. Height and Weight	6
8-9. Health Problems	7
10. Short Mood and Feelings Questionnaire (SMFQ)	8
11. Short Norwegian Hierarchical Personality Inventory for Children (NHiPIC-30)	9
12-13. Parent/Teacher Rating Scale for Disruptive Behaviour Disorders (RS-DBD)	11
14. Screen for Child Anxiety Related Disorders (SCARED)	13
15-17. Social Communication Questionnaire (SCQ)	
18. The Children's Eating Behaviour Questionnaire (CEBQ)	16
19. Questionnaire of Eating and Weight Patterns-Parent Report (QEWP-P)	17
20. Children's Communication Checklist-2 (CCC-2)	
21. Checklist of 20 Statements about Language-Related Difficulties (Språk20)	20
22-24. School and after School Program	21
25. School Assessment	22
26. Special Education	23
27. Homework	24
28. Reading and Writing Skills	
29. The Child's Pronunciation	
30-31. Home Reading and Self-reading	
32. Cooperation School - Home	
33. Sleeping at Night	
34. Difficulties, Impairment, and Impact	
35. Work	
36. Education	
37-39. Family Household	
40. Physical Activity	
41. Height and Weight	
42-45. Eating Disorder	
46-47. Pregnancy and Birth	
48. Health Problems/Illnesses	
49. Social Phobia	40
50. Satisfaction with Life Scale (SWLS)	
51. The Autonomic Nervous System Questionnaire (ANS)	
52. Depression/Anxiety	
53-54. Social support	
55. Short Form of the Alabama Parenting Questionnaire (APQ-9)	
56-57. Smoking	
58-60. Alcohol Use	49

#### MODEL STRUCTURE OF WHAT IS PRESENTED PER INSTRUMENT / SECTION

#### 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 single question. NOT RELEVANT

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

#### NOTE 1:

Q-8year has 4 versions (A, B, C and a short version). The short version only contains questions about the child; the questions about the mother as found in other versions are not included. This instrument documentation is based on version C

#### NOTE 2:

Questions to which the answers are written into open text fields are annotated with two variable names. The first indicates whether or not there is text; the second contains the actual text. In the case of medication, there is an additional variable name with a "k" at the end, to indicate how the name of medicine has been coded.

## About the child

#### 1-5. Child's Friends and Leisure Time

#### 1. Name of original questions: Questions about the child's friends and leisure time

Q		Response options	Variable name
1	What grade is your child in?	<u> </u>	
		1) 2 <sup>nd</sup> grade 2) 3 <sup>rd</sup> grade 3) 4 <sup>th</sup> grade	NN12
2	Outside school hours: Approximately how many hakes part in sports (football, handball, skiing, gymna activity in afterschool (SFO)) (Please mark for both su	ours per week is your child physica astics / dance, etc.)? (Also include hou	
	Summer	1) Less than 1 hour per week 2) 1-2 hours per week 3) 3-4 hours per week	NN13
	Winter	<ul><li>4) 5-7 hours per week</li><li>5) 8-10 hours per week</li><li>6) 11 hours or more per week</li></ul>	NN14
3	Approximately how many close friends does your child have (not including siblings)?		
		1) None 2) 1 friend 3) 2-3 friends 4) 4 + friends	NN15
4	Outside of school / afterschool (SFO) - approxima	tely how many days per week	
	does your child participate in various organized activities (including sports/music /drama group/other )? does the child spend with friends /peers (outside	1) Never /seldom 2)1 day 3) 2-3 days 4) 4-5 days	NN16 NN17
	organized activities)?	5) 6-7 day	
5	How many hours on a typical weekday		
	does the child watch TV / DVD movies?	1) Never / seldom 2) Less than 1 hour	NN18
	does the child play video games, computer games, or handheld video games?	3) 1-2 hours 4) 3-4 hours 5) 5 hours or more	NN19

#### 2. Description of original scale: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

#### 3. Rationale for choosing the instrument:

These questions were developed to get information about the child's friends and leisure time.

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

#### 6. Bullying and Physical Abuse

#### 1. Name of original questions: Questions about bullying, being bullied and exposure to physical abuse

Q		Response options	Variable name
6	In the course of the past 12 months		
	has your child been teased or bullied by other children?		NN20
		1) Never	
	has your child teased or bullied other children?	2) Seldom	NN21
	has your child been subjected to beating, kicking or other	3) 2-3 times per month	NN22
	violence by other children?	4) Once a week	
	has your child been subjected to beating, kicking or other	5) Many times per week	NN23
	violence by adults?		

#### 2. Description of original scale: MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

#### 3. Rationale for choosing the instrument:

These questions were developed to survey the incidences of the child's being bullied, bullying others and exposure to physical abuse.

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

#### Your child's health

#### 7. Height and Weight

#### 1. Name of original questions: Questions about the child's height and weight nowadays

Q		Response options	Variable name	
7	What is your child's height and weight now at 8 years of age?			
	Height	cm	NN24	
	Weight	, kg	NN25	

#### 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 length, Body Mass Index (BMI) can be estimated. BMI is a reliable indicator of body fatness for most children and teens (cf. Center for Disease Control and Prevention: <a href="http://www.cdc.gov/healthyweight/assessing/bmi/childrens-bmi/about childrens-bmi.html#How%20is%20BMI%20used%20with%20children%20and%20tGGns">http://www.cdc.gov/healthyweight/assessing/bmi/childrens-bmi/about childrens-bmi.html#How%20is%20BMI%20used%20with%20children%20and%20tGGns</a>).

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

#### 8-9. Health Problems

#### 1. Name of original questions: Questions about the child's illness or health problems

Q		Response	options	Variable name	
8	Has your child ever had any of the following di	seases or co	nditions?		
	Rheumatoid arthritis/chronic joint inflammation			NN26	
	Diabetes			NN27	
	Chronic fatigue syndrome/ ME			NN28	
	Epilepsy			NN29	
	Cancer			NN30	
	Coeliac disease			NN31	
	Accidental injury with subsequent medical			NN32	
	treatment				
	Cerebral palsy			NN33	
	Other conditions/congenital syndromes,			NN34	
	Other conditions, describe:			NN	
9	Has your child ever had any of the following he	ealth problen	ns?		
		No	Yes, currently	Yes, in the past	If yes, has your child been referred to a specialist? 1-No 2-Yes
	Delayed psychomotor development	NN36	NN37	NN38	NN39
	Delayed or abnormal language development	NN40	NN41	NN42	NN43
	3. Hyperactivity	NN44	NN45	NN46	NN47
	Concentration or attention difficulties	NN48	NN49	NN50	NN51
	5. Autistic traits /autism/Asperger's Syndrome	NN52	NN53	NN54	NN55
	6. Behavioural problems (difficult and unruly)	NN56	NN57	NN58	NN59
	7. Emotional difficulties (sad or anxious)	NN60	NN61	NN62	NN63
	8. Other	NN64	NN65	NN66	NN67
	Other, describe:	NN		·	<u> </u>

#### 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 occurrence of illness, health problems, and traumas among 8-year-old children. Whether the child has been referred to a specialist is meant as an indicator of reliability of the mothers' response.

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

#### Your child's behaviour

#### 10. Short Mood and Feelings Questionnaire (SMFQ)

#### 1. Name of original scale: Short Mood and Feelings Questionnaire (SMFQ)

Q		Response options	Variable name
10	The questions below concern how your child has felt or behaved	recently. Mark how true	each item has been
	for your child during the two last weeks.		
	1. Felt miserable or unhappy		NN68
	2. Felt so tired that s/he just sat around and did nothing		NN69
	3. Was very restless		NN70
	4. Didn't enjoy anything at all	1-Not true	NN71
	5. Felt s/he was no good anymore		NN72
	6. Cried a lot	2- Sometimes true	NN73
	7. Hated him/herself		NN74
	8. Thought s/he could never be as good as other kids	3-True	NN75
	9. Felt lonely		NN76
	10. Thought nobody really loved him/her		NN77
	11. Felt s/he was a bad person		NN78
	12. Felt s/he did everything wrong		NN79
	13. Found it hard to think/concentrate		NN80

#### 2. Description of original scale: Short Mood and Feelings Questionnaire (SMFQ)

The Mood and Feelings Quesionnaire (MFQ Angold & Costello, 1987) is a 32-item questionnaire based on DSM-III-R criteria for depression. The MFQ consists of a series of descriptive phrases regarding how the subject has been feeling or acting recently. A 13-item short form was developed, based on the discriminating ability between the depressed and non-depressed (Angold, et al., 1995). Both parent and child-report forms are available. The parent version is used in the MoBa 8-year questionnaire.

#### Psychometric Information:

The internal reliability coefficient for the parent version of is .87. The parent-version of SMFQ was found to be a better predictor of depression than was the child self-report of this measure (Angold, et al., 1995). Its scaling properties as a potential dimensional measure of symptom severity of childhood depression was confirmed in community samples (Sharp, et al., 2006).

#### Base References/Primary Citations:

Angold A, & Costello EJ. (1987). *Mood and Feelings Questionnaire* (MFQ). Durham Duke University Developmental Epidemiology Program.

Angold, A., Costello, E. J., Messer, S. C., & Pickles, A., Winder, F., & Silver, D. (1995). The development of a short questionnaire for use in epidemiological studies of depression in children and adolescents. *International Journal of Methods in Psychiatric Research* 5: 237 - 249.

Sharp, C., Goodyer, IM., & Croudace, TJ. (2006). The short mood and feelings questionnaire (SMFQ): A unidimensional item response theory and categorical data factor analysis of self-report ratings from a community sample of 7-through 11-year old children. *Journal of abnormal child psychology* 34 (3): 379-391.

#### 3. Rationale for choosing the instrument:

The SMFQ is a brief, easy-to-administer measure of childhood and adolescent depression, designed for the rapid evaluation of core depressive symptomatology or for use in epidemiological studies.

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

#### 11. Short Norwegian Hierarchical Personality Inventory for Children (NHiPIC-30)

**1. Name of original scale:** Short Norwegian Hierarchical Inventory for the Assessment of Personality in Children (NHiPIC-30)

Q		Response options	Variable name
	Think back over the last year. How well do these statements	s apply to your child's beha	vior over the past
11			
	1. Is easily caught up in problems(*)		NN81
	2. Has a broad range of interests		NN82
	3. Makes an all-out effort		NN83
	4. Obeys without protests		NN84
	5. Takes himself/herself into consideration first		NN85
	6. Is quick to worry about things		NN86
	7. Forgets anything and everything		NN87
	8. Is constantly on the move		NN88
	9. Prefers to leave work to others		NN89
	10. Talks to people easily		NN90
	11. Does everything to get his/her own way	1-Not typical	NN91
	12. Derives pleasure from creating things		NN92
	13. Is not very thorough(*)	2- Not very typical	NN93
	14. Doubt himself/herself	0.00:45 4.00:551	NN94
	15. Finishes tasks to the very end	3-Quite typical	NN95
	16. Imposes her or his will	4 Typical	NN96
	17. Is readily discouraged by imminent failure	4-Typical	NN97
	18. Is chatty (*)	5-Very typical	NN98
	19. Enjoys life	o very typical	NN99
	20. Is quick to understands things		NN100
	21. Is easily incensed by things		NN101
	22. Is quick to doubt his/her own capacities		NN102
	23. Has an infectious laugh (*)		NN103
	24. Has a rich imagination		NN104
	25. Talks about own feelings		NN105
	26. Carries out work to the last detail		NN106
	27. Has confidence in own abilities		NN107
	28. Doesn't envy others (*)		NN108
	29. Is interested in all that is new (is interested in anything)		NN109
	30. Can express himself/herself well		NN110

In version A, the five items below differ from those in versions B & C

Q		Response options	Variable name
	Think back over the last year. How well do these statement	s apply to your child's behav	ior over the past
11	year?		
	1.Become easily panic	1-Not typical	NN368
	2. Will get to the bottom of things	2- Not very typical	NN369
	8. Have energy to spare	3-Quite typical	NN370
	10. Seeking contact with new classmates	4-Typical	NN371
	27. Feel at ease with him/herself	5-Very typical	NN372

#### 2. Description of original scale: The Hierarchical Personality Inventory for Children (HiPIC)

The HiPIC (Mervielde & De Fruyt, 1999, Mervielde & De Fruyt, 2002) is a questionnaire measuring the Big Five personality factors in children and adolescents. By means of 144 items, the HiPIC assesses five broad personality traits: Extraversion, Benevolence, Neuroticism, Conscientiousness, and Imagination. Each HiPIC item refers to a specific overt behaviour and is formulated in the third-person singular. Items are rated on a five-point Likert scale ranging from 'not typical' (1) to very typical (5). This section used the 30-item short form, also referred to as NHiPIC-30 (Vollrath, Hampson and Torgersen, submitted 2013). It contains five domain scales with 6 items each: Extraversion (items 8, 10, 18, 19, 23, 25), Benevolence (items 4, 5, 11, 16, 21, 28), Conscientiousness (items 3, 7, 9, 13, 15, 26), Neuroticism (items 1, 6, 14, 17, 22, 27), Imagination (2, 12, 20, 24, 29, 30). Both the full and the short scale have been validated in Norwegian samples.

#### Psychometric Information:

For the Norwegian translation of the HiPIC full scale (NHiPIC), Cronbach's alphas for the broad trait scales were .90 for extraversion, .98 for benevolence, .87 for conscientiousness, .86 for neuroticism, and .86 for imagination (Vollratha, et al. 2012). The NHiPIC reproduced five reliable and valid factors with excellent correspondence to the original measure, a hierarchical structure similar to that found for other Big Five assessment instruments for children and meaningful correlations with scales of the CBCL. The short form (NHiPIC-30) correlated .90 with its longer counterpart (Vollrath, Hampson and Torgersen, submitted 2013).

#### Base References/Primary Citations:

Mervielde, I., & De Fruyt, F. (1999). Construction of the hierarchical personality inventory for children (HiPIC). In I. J. Deary, F. De Fruyt & F. Ostendorf (Eds.), *Personality Psychology in Europe* (Vol. 7, pp. 107-127). Tilburg: Tilburg University Press.

Mervielde, I., & De Fruyt, F. (2002). Assessing children's traits with the hierarchial personality inventory for children. In B. De Raad & M. Perugini (Eds.), *Big five assessment* (pp. 129-142). Ashland, OH, US: Hogrefe & Huber.

Vollratha ME, Hampsonc SE, & Júlíussond, PB. (2012). Children and eating. Personality and gender are associated with obesogenic food consumption and overweight in 6- to 12-year-olds. *Appetite* 58: 1113 -1117.

Vollrath, M., Hampson, S., & Torgersen, S. (submitted November 2013). A Norwegian Long and Short Form of the Hierarchical Personality Inventory for Children: The NH*i*PIC and the NH*i*PIC-30. *Sage Open*.

#### Modifications:

The following five items (marked with a \* in the table above) deviate from the original NHiPIC-30.

Items used in MoBa	Original NHiPIC
1. Is easily caught up in problems (*)	Is easily depressed
13. Is not very thorough (*)	Plays fast and loose
18. Is chatty (*)	Talks the whole day long
23. Has an infectious laugh (*)	Can make companions laugh
28. Doesn't envy others (*)	Grants also something to others

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

The NHiPIC-30 is a reliable and valid measure of Norwegian children's Big Five personality domains (Vollrath, Hampson and Torgersen, submitted 2013).

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

Five items were exchanged from version A to B & C (see tables above) after examining their itemtotal correlations (Personal communication with Margarete Vollrath, Sept. 2014)

#### 12-13. Parent/Teacher Rating Scale for Disruptive Behaviour Disorders (RS-DBD)

#### 1. Name of original scale: Parent/Teacher Rating Scale for Disruptive Behaviour Disorders (RS-DBD)

Q		Response options	Variable name
12	Mark the box that best describes your child's behaviour during the last 12 me	onths/last year.	
	1. Bullies, threatens or intimidates others	1-Never/rarely	NN111
	2. Initiates physical fights		NN112
	3. Has been physically cruel to others	2-Sometimes	NN113
	4. Has harassed or injured animals physically		NN114
	5. Has stolen items of nontrivial value without confronting a victim (e.g. shoplifting)	3-Often	NN115
	6. Has deliberately destroyed other's property		NN116
	7. Has been truant from school	4-Very often	NN117
	8. Has used an object that can cause serious physical harm to others (e.g. a bat, stone, knife, heavy toy)		NN118
13	Mark the box that best describes your child's behaviour over the past 6 mon	ths.	
	Fails to give close attention to details or makes careless mistakes in schoolwork		NN119
	2. Has difficulty sustaining attention in tasks or play activities		NN120
	3. Does not seem to listen when spoken to directly		NN121
	4. Does not follow through on instructions and fails to finish school work, chores		NN122
	or duties (not due to oppositional behaviour or failure to understand instructions)		
	5. Has difficulty organizing tasks and activities		NN123
	6. Avoids, dislikes or is reluctant to engage in tasks that require sustained mental effort (such as schoolwork or homework)		NN124
	7. Loses things necessary for tasks or activities (pencils, books, toys)		NN125
	8. Is easily distracted		NN126
	9. Is forgetful in daily activities	1-Never/rarely	NN127
	10. Fidgets with hands or feet or squirms in seat (sits uneasily)		NN128
	11. Leaves seat in classroom or in other situations in which remaining seated is expected (e.g. at the table or in group gathering)	2-Sometimes	NN129
	12. Runs about or climbs excessively in situations in which it is inappropriate	3-Often	NN130
	13. Has difficulty playing or engaging in leisure activities quietly	4.37	NN131
	14. Is "on the go" or acts as if "driven by a motor"	4-Very often	NN132
	15. Talks excessively	1	NN133
	16. Blurts out answers before questions have been completed		NN134
	17. Has difficulty awaiting turn		NN135
	18. Interrupts or intrudes on others, such as in conversation or play		NN136
	19. Loses temper (tantrums)		NN137
	20. Argues with adults		NN138
	21. Actively defies or refuses to comply with adults' requests or rules		NN139
	22. Deliberately annoys people		NN140
	23. Blames others for his/her mistakes or misbehaviour		NN141
	24. Is touchy or easily annoyed by others		NN142
	25. Is angry and resentful		NN143
	26. Is spiteful or vindictive		NN144

# 2. Description of original scale: Parent/Teacher Rating Scale for Disruptive Behaviour Disorders (RS-DBD)

Parent/Teacher Rating Scale for Disruptive Behavior Disorders (RS-DBD; Silva et al., 2005) consists of 41 DSM-IV items; with 18 items related to ADHD, 8 items related to Oppositional Defiant (OD), and 15 items to Conduct Disorder (CD). The 18 items (items 1-18 of section 13) related to ADHD, the 8 items related to OD (items 19-26 of section 13), and 8 items to CD were selected into use in this section. Each item is rated on a four-point scale (1 = never/rarely, 2 = sometimes, 3 = often, 4 = very often).

#### Psychometric Information

There was a significant correlation between parent and teacher ratings for each of the three subscales (ADHD, OD and CD), ADHD: r=.33, OD: r=.34, CD: r=.61. The alphas ranged from .78 to .96. The RS-DBD shows construct and instrument validity when compared to the relevant factors of the parent and teachers Conners' scale (Silva et al., 2005).

#### Base References/Primary Citations:

Silva RR, Alpert M, Pouget E, Silva V, Trosper S, Reyes K, & Dummit S. (2005). A rating scale for disruptive behaviour disorders, based on the DSM-IV item pool. *Psychiatric Quarterly 76*: 327-339.

#### 3. Rationale for choosing the instrument:

The RS-DBD is one of the few rating scales that is keyed from the DSM and evaluates for all three DBDs.

#### Modifications

Some questions (e.g. 'has forced someone into sexual activity', 'has deliberately engaged in fire setting with the intention of causing serious damage') which are not age-appropriate were removed.

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

#### 14. Screen for Child Anxiety Related Disorders (SCARED)

#### 1. Name of original scale: Screen for Child Anxiety Related Disorders (SCARED)

Q		Response options	Variable name		
14	The questions below are about how your child have felt or behaved recently				
	My child gets really frightened for no reason at all	1-Not true	NN145		
	2. My child is afraid to be alone in the house	2- Sometimes true	NN146		
	3. People tell my child that he/she worries too much	3-True	NN147		
	4. My child is scared to go to school		NN148		
	5. My child is shy		NN149		

#### 2. Description of original scale: Screen for Child Anxiety Related Disorders (SCARED)

The SCARED (Birmaher et al., 1997) is a multidimensional questionnaire that purports to measure DSM-defined anxiety symptom. It contains 41 items which can be allocated to five separate anxiety subscales. Four of these subscales represent anxiety disorders that correspond with DSM categories, namely panic disorder, generalized anxiety disorder, social phobia, and separation anxiety. The fifth subscale is school phobia. The SCARED comes in two versions: a parent version and a child version. The 5-item short version, as used in the MoBa, was developed in Birmaher et al. (1999). Mothers rate how true the statements describe their children using a 3-point scale (i.e. 1= Not true, 2=Sometimes true, 3=True).

#### Psychometric Information:

The SCARED has good internal consistency, assessed by means of Cronbach's Alpha (.70-.90), as well as good test–retest reliability (p=0.6-0.9). It has shown good discriminant validity, differentiating between youths with and without anxiety disorders, and good the convergent validity. The 5-item version of the SCARED showed similar psychometrics to the full scale (Birmaher et al., 1999).

#### Base References/Primary Citations:

Birmaher, B., Brent, D. A., Chiappetta, L., Bridge, J., Monga, S., & Baugher, M. (1999) Psychometric properties of the Screen for Child Anxiety Related Emotional Disorders (SCARED): A replication study. *Journal of the American Academy of Child and Adolescent Psychiatry* 38(10): 1230–1236.

Birmaher, B., Khetarpal, S., Brent, D., Cully, M., Balach, L., Kaufman, J., et al. (1997). The Screen for Child Anxiety Related Emotional Disorders (SCARED): Scale construction and psychometric characteristics. *Journal of the American Academy of Child and Adolescent Psychiatry* 36: 545–553.

#### 3. Rationale for choosing the instrument:

The 5-item SCARED is a valid screening instrument to rate anxiety symptoms of children and adolescents.

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

# Your child's ability to communicate and interest in others

#### 15-17. Social Communication Questionnaire (SCQ)

#### 1. Name of original scale: Social Communication Questionnaire (SCQ)

Q		Response options	Variable name
15	Your child's use of language with others (Mark one box per question, whether you thin or not)	k it applies for	your child
	1. Is he/she now able to talk using short phrases or sentences?		NN150
	2. Do you have a to and fro "conversation" with her/him that involves taking turns or building on what you have said?		NN151
	3. Does she/he ever use odd phrases or say the same thing over and over in almost exactly the same way (either phrases that she/he hears other people use or ones that she/he makes up)?	1- Yes	NN152
	4. Does your child ever use socially inappropriate questions or statements? For example, does your child ever regularly ask personal questions or make personal comments at awkward times?	2- No	NN153
	5. Does your child ever get his/her pronouns mixed up (e.g., saying <i>you</i> or <i>he/she</i> for <i>l</i> )?		NN154
	6. Does your child ever use words that he/she seems to have invented or made up her/himself; put things in odd, indirect ways; or use metaphorical ways of saying things		
	<ul><li>(e.g., saying hot rain for steam)?</li><li>7. Does your child ever say the same thing over and over in exactly the same way or</li></ul>		NN155
	insist that you say the same thing over and over again?		NN156
16	<b>Your child's behaviour (</b> Mark one box per question, whether you think it applies for your child or not)	Response options	Variable name
	8. Does your child ever have things that he/she seems to have to do in a very particular way or order or rituals that the child insists that you go through?		NN157
	9. Does your child's facial expression usually seem appropriate to the particular situation, as far as you can tell?		NN158
	10. Does your child ever use your hand like a tool or as if it were part of his/her own body (e.g., pointing with your finger or putting your hand on a doorknob to get you to open the door)?		NN159
	11. Does your child ever have any interests that preoccupy him/her and might seem odd to other people (e.g., traffic lights, drainpipes, or timetables)?		NN160
	12. Does your child ever seem to be more interested in parts of a toy or an object (e.g., spinning the wheels of a car), rather than in using the object as it was intended?	1- Yes 2- No	NN161
	13. Does your child ever have any special interests that are unusual in their intensity, but otherwise appropriate for his/her age and peer group (e.g., trains or dinosaurs)?		NN162
	14. Does your child ever seem to be <i>unusually</i> interested in the sight, feel, sound, taste, or smell of things or people?		NN163
	15. Does your child ever have any mannerisms or odd ways of moving his/her hands or fingers, such as flapping or moving his/her fingers in front of his/her eyes?		NN164
	16. Does your child ever have any complicated movements of his/her whole body, such as spinning or repeatedly bouncing up and down?		NN165
	17. Does your child ever injure himself/herself deliberately, such as by biting his/her arm or banging his/her head?		NN166
	18. Does your child ever have any objects (other than a soft toy or comfort blanket) that he/she has to carry around?		NN167
17	About social development and interest in others (Mark one box per question,	Response	Variable
	whether you think it applies for your child or not)  19. Does your child have any particular friends or a best friend?	options	name NN168
	20. Does your child ever talk with you just to be friendly (rather than to get something)?		NN169
	21. Does your child ever spontaneously copy you (or other people) or what you are doing		NN170
	(such as vacuuming, gardening, or mending things)?	1- Yes	
	22. Does your child ever spontaneously point at things around him/her just to show you	2- No	NN171
	things (not because he/she wants them)?  23. Does your child ever use gestures, other than pointing or pulling your hand, to let you know what he/she wants?		NN172
	know what he/she wants?  24. Does your child nod his/her head to indicate <i>yes</i> ?	-	NN173
	25. Does your child shake his/her head to indicate <i>yes</i> ?	•	NN174
	26. Does your child usually look at you directly in the face when doing things with you or talking with you?		NN175
	27. Does your child smile back if someone smiles at him/her?		NN176
	28. Does your child ever show you things that interest him/her to engage your attention?		NN177

29. Does your child ever offer to share things other than food with you?	NN178
30. Does your child ever seem to want you to join in his/her enjoyment of something?	NN179
31. Does your child ever try to comfort you when you are sad or hurt?	NN180
32. If your child wants something or wants help, does he/she look at you and use gestures with sounds or words to get your attention?	NN181
33. Does your child show a normal range of facial expressions?	NN182
34. Does your child ever spontaneously join in and try to copy the actions in social games, such as <i>The Mulberry Bush</i> or <i>London Bridge Is Falling Down?</i>	NN183
35. Does your child play any pretend or make-believe games?	NN184
36. Does your child seem interested in other children of approximately the same age whom he/she does not know?	NN185
37. Does your child respond positively when another child approaches him/her?	NN186
38. If you come into a room and start talking to your child without calling his/her name, does he/she usually look up and pay attention to you?	NN187
39. Does your child ever play imaginative games with another child in such a way that you can tell that each child understands what the other is pretending?	NN188
40. Does your child play cooperatively in games that need some form of joining in with a group of other children, such as hide-and-seek or ball games?	NN189

#### 2. Description of original instrument: Social Communication Questionnaire (SCQ)

The SCQ (Ritter, et al., 2003) is a parental-report Autism screening tool developed to serve as a practical piece of early childhood developmental screenings which parallels the Autism Diagnostic Interview-Revised (ADI-R; Lord, et al., 1994). It is a 40-question screening form designed for children with an age of 4.0 years (and a mental age of 2.0) which takes less than 10 minutes to complete and score. The items are administered in a yes/no response format.

#### Psychometric Information:

Internal consistency measurements on a total number of 214 cases range from .81 to .93. The agreement between the SCQ and the ADI-R at both Total Score and Domain Score level is high, with the agreements being substantially unaffected by age, gender, language level, and performance IQ. Agreement is, however, only moderate at the individual item level (Rutter, et al., 2003). Eaves, et al. (2006) described the use of the SCQ in 151 children aged 36-82 months and reported sensitivity and specificity estimates of .71 and .79 respectively, with lower estimates for children with high verbal IQs.

#### Base References/Primary Citations:

Eaves L, Wingert H, Ho H. (2006). Screening for autism spectrum disorders with the social communication questionnaire. *Journal of Developmental Behavioral Pediatrics* 27:95-103.

Lord C, Rutter M. & Le Couteur A. (1994). Autism Diagnostic Interview-Revised: a revised version of a diagnostic interview for caregivers of individuals with possible pervasive developmental disorders. *The Journal of Autism and Developmental Disorders* 24 (5): 659–685.

Rutter, M., Bailey, A., & Lord, C. (2003). *SCQ The Social Communication Questionnaire: Manual.* Los Angeles: Western Psychological Services.

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

The SCQ provides a dimensional measure of ASD symptomatology, with a cutoff score that can be used to indicate the likelihood of an individual having ASD. The instrument can be used as a screening device, or to indicate approximate level of severity of ASD symptomatology, across groups or with respect to changes over time.

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

## Your child's eating habits

#### 18. The Children's Eating Behaviour Questionnaire (CEBQ)

#### 1. Name of original scale: The Children's Eating Behaviour Questionnaire (CEBQ)

Q		Response options	Variable name
18	How well does this apply to your child?		
	1. My child enjoys tasting new foods		NN190
	2. My child gets full up easily		NN191
	3. My child eats more when she is happy		NN192
	4. Given the choice, my child would eat most of the time		NN193
	5. My child eats slowly	1-Never	NN194
	6. My child eats more when worried		NN195
	7. My child takes more than 30 minutes to finish a meal	2- Seldom	NN196
	8. My child gets full before his/her meal is finished	0.0	NN197
	9. My child enjoys a wide variety of foods	3-Sometimes	NN198
	10. My child is interested in tasting food s/he hasn't tasted before	4-Often	NN199
	11. If given the chance, my child would always have food in his/her mouth	4-Oileii	NN200
	12. My child eats more when anxious	5-Always	NN201
	13. If allowed to, my child would eat too much	o / iiiiayo	NN202
	14. My child eats less when upset		NN203
	15. My child leaves food on his/her plate at the end of a meal		NN204
	16. My child eats less when angry		NN205
	17. My child eats more and more slowly during the course of a meal		NN206
	18. My child eats more when annoyed	1	NN207

#### 2. Description of original scale: Children's Eating Behaviour Questionnaire (CEBQ)

The CEBQ (Wardle, et al., 2001) is a 35-item parent-report questionnaire assessing eating style in children. Eating style is assessed on 8 scales (food responsiveness, emotional overeating, satiety responsiveness, slowness in eating, emotional undereating, fussiness, enjoyment of food, and desire to drink). The items in the MoBa were selected from the first 5 subscales. Mothers rate the frequency of their child's behaviours and experiences on a 5-point scale (1-never, 2-rarely, 3-sometimes, 4-often, 5-always).

#### Psychometric Information:

The CEBQ scale has been shown to have good internal consistency (Cronbach's alphas ranging from .72 to .91), adequate two-week test-retest reliability (correlation coefficients ranging from .52 to .87) (Wardle, et al., 2001) and construct validity (Carnell, et al., 2007).

#### Base References/Primary Citations:

Carnell S & Wardle J. (2007). Measuring behavioural susceptibility to obesity: validation of the child eating behaviour questionnaire. *Appetite* 48:104-113.

Wardle, J., Guthrie, C. A., Sanderson, S., & Rapoport, L. (2001). Development of the children's eating behaviour questionnaire. *Journal of Child Psychology and Psychiatry* 42(7): 963-970.

#### 3. Rationale for choosing the instrument:

The CEBQ is a psychometrically sound tool for assessing children's eating behaviours.

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

#### 19. Questionnaire of Eating and Weight Patterns-Parent Report (QEWP-P)

#### 1. Name of original scale: Questionnaire of Eating and Weight Patterns-Parent report (QEWP-P)

Q		Response options	Variable name
19	Consider whether this applies to your child during the last 6 months.		
	1. Did your child ever eat what most people would think was a really	1- No	
	big amount of food?	2- Yes	NN208
	2. Did you have the impression that your child could not stop eating or		
	that he/she could not control what or how much he/she was eating?		NN209
		1-Twice a week or more	
		2- Once a week	
	3. How often did your child eat a really big amount of food when you	3- More rarely	
	had the impression that his/her eating was out of control?	4- Never	NN210

# 2. Description of original instrument: Questionnaire of Eating and Weight Patterns-Parent report (QEWP-P)

The QEWP-P (Johnson, et al., 1999) is a modified version of the Questionnaire of Eating and Weight Patterns (QEWP; Spitzer et al., 1992), which was developed to assess aspects of binge eating disorder which was introduced as a diagnostic category in the DSM-IV. The QEWP-P comprises 12 stem items of which several are followed up with detailed items. The first three items were selected into use in this section.

#### Psychometric Information:

Test-retest reliability assessed with a phi coefficient was .42 across a 3-week interval. The stability of diagnostic categories was higher for males than for females, who changed in 33% of the cases from the nonclinical binging to the no diagnosis category. Children in the binge eating disorder category had significantly higher scores on self-reported depression and self-reported behaviours associated with eating disorders than children in the no diagnosis and nonclinical binging categories.

#### Base References/Primary Citations:

Johnson, W. G., Grieve, F. G., Adams, C. D., & Sandy, J. (1999). Measuring binge eating in adolescents: Adolescent and parent 152 versions of the Questionnaire of Eating and Weight Patterns. *International Journal of Eating Disorders* 26(3): 301–314.

Johnson, W. G., Kirk, A. A., & Reed, AE. (2000). Adolescent version of the Questionnaire of Eating and Weight Patterns: Reliability and gender differences. *International Journal of Eating Disorders* 26(3): 301–314.

Spitzer, RL, Devlin M, Walsh BT, Hassin D, Wing R, Marcus M, Stunkard A, Wadden T, Yanovski S, Agras, S, Mitchell J, & Jonas C. (1992). Binge eating disorder: A multi-site field trial of the diagnostic criteria. *International Journal of Eating Disorders* 11: 191–203.

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

These items from the QEWP-P are the most developmentally appropriate parent-report measures of both binge eating episodes and loss of control over eating (personal communication with Leila Torgersen, August 2012).

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

### About language and school

#### 20. Children's Communication Checklist-2 (CCC-2)

#### 1. Name of original scale: The Children's Communication Checklist-2 (CCC-2)

ב		Response options	Variable name
20	How often do you think this is typical for your child?		
	1. Forgets words s/he knows $-$ e.g. instead of "rhinoceros" may say "you know, the animal with the horn on its nose"		NN211
	2. Uses terms like "he" or "it" <u>without</u> making it clear what s/he is talking about. For instance, when talking about a film, might say "he was really great" without explaining who "he" is.		NN212
	3. Misses the point of jokes and puns (though may be amused by nonverbal humour such as slapstick).		NN213
	4. Can be hard to tell if s/he is talking about something real or make-believe.		NN214
	5. Leaves out past tense <i>-ed</i> endings on words. May for instance say "John kick the ball" instead of "John kicked the ball", or "Eva buy soda" instead of "Eva bought soda".		NN215
	6. Takes in just 1-2 words in a sentence, and so misinterprets what has been said. E.g. if someone says "I want to go skating next week", s/he may think they've been skating, or want to go now.	1- Never or rarely	NN216
	7. Gets sequence of events muddled up when telling a story or describing event. E.g. if describing a film, might talk about the end before the beginning.	2- Sometimes	NN217
	8. Doesn't explain what s/he is talking about to someone who doesn't share his/her experiences; for instance, might talk about "Jon" without explaining who he is.	3- Often	NN218
	9. It is hard to make sense of what s/he is saying, even though the words are clearly spoken.	4- Very often	NN219
	10. Uses appropriate language to talk about what s/he plans to do in the future (e.g. what s/he will do tomorrow, or plans for going on holiday).		NN220
	11. You can have an enjoyable, interesting conversation with him/her.		NN221
	12. Produces long and complicated sentences such as: "When we went to the park I had a go on the swings"; "I saw this man standing on the corner".		NN222
	13. Uses words that refer to whole classes of objects, rather than a specific item. E.g. refers to a table, chair and drawers as "furniture", or to apples, bananas and pears as "fruit".		NN223
	14. Speaks fluently and clearly, producing all speech sounds accurately and without hesitation.		NN224
	15. Explains a past event clearly (e.g. what s/he did at school or what happened at a football game).		NN225
	16. When answering a question, provides enough information without being overprecise.		NN226

#### 2. Description of original scale: The Children's Communication Checklist-2 (CCC-2)

CCC-2 (Bishop 2003, 2006) is a measure designed to assess the communication skills of children 4 to 16.11 years of age. Initially developed in the United Kingdom, the CCC-2 has been adapted for use in the United States (Bishop, 2006). The purposes of the CCC-2 are the identification of pragmatic language impairment, screening of receptive and expressive language skills, and assistance in screening for ASD. The CCC-2 consists of 70 items that are divided into 10 scales (Speech, Syntax, Semantics, Coherence, Initiation, Scripted Language, Context, and Nonverbal Communication, Social Relations and Interests), each with 7 items. Five items on each subscale tap into communicative deficits, and two items target communicative strengths. A 13-item short scale (CCC-S) was developed by Norbury, Nash, Baird, & Bishop (2004) as a brief screening instrument to help identify children with potential speech, language and communication needs. The CCC-S plus 3 items (items 4, 8, and 9) were selected in O-8vr.

#### Psychometric Information:

The U.S. Edition of the CCC-2 was standardized on 950 American children. Internal consistency reliability coefficients ranged from .94 to .96 across age groups. Validity was assessed by calculating classification rates for a variety of matched clinical groups based on GCC scores at 1, 1.5, and 2.0

SDs below the mean. For the group with ASD, 89% of the children were identified as such based on a GCC 1.0 SD below the mean. Based on these results, the CCC-2 demonstrates good reliability and validity (Bishop, 2006). Cronbach's alpha for CCC-S is .87; correlation with GCC: r= -.88 (Bishop & Norbury 2004).

Base References/Primary Citations:

Bishop, D.V.M. (2003). Children's Communication Checklist-2. London: Pearson.

Bishop, D. V.M. (2006). *Children's Communication Checklist-2* (U.S. Edition). New York, NY: The Psychological Corporation.

Norbury, C.F., Nash, M., Baird, G., & Bishop, D. V.M. (2004). Using a parental checklist to identify diagnostic groups in children with communication impairment: A validation of Children's Communication Checklist-2. *International Journal of Language & Communication Disorders* 39: 345-364.

#### 3. Rationale for choosing the instrument:

The CCC-2 appears to be a well-constructed instrument that has both face validity and reliability to achieve its stated purpose of assisting in identifying children with language and communication problems, especially in the area of pragmatic communication skills.

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

#### 21. Checklist of 20 Statements about Language-Related Difficulties (Språk20)

**1. Name of original scale:** The checklist of 20 Statements about Language-Related Difficulties (Språk 20)

Q		Response options	Variable name
21	How do these statements fit the child?		
	1. Confuses words with similar meaning (e.g. shirt, sweater, jacket)	1- Doesn't fit the child,	NN227
	2. Has difficulty understanding the meaning of common words	absolutely wrong	NN228
	3. Has difficulty answering questions as quickly as other children	, 0	NN229
	4. Is often searching for the right words	2- 2	NN230
	5. Uses incomplete sentences	3- Both yes and no	NN231
	6. Uses short sentences when s/he answers questions	4- 4	NN232
	7. Has difficulty retelling a story s/he has heard	5- Fits well with the child,	NN233
	8. Forgets words s/he knows the meaning of	absolutely right	NN374

#### 2. Description of original scale: 20 Statements about Language-Related Difficulties (Språk 20)

Språk 20 is a checklist developed by Ottem (2009), a Norwegian psychologist at Bredvet Competence Centre, to identify children with risk for language impairment. The checklist consists of 20 statements describing language-related difficulties, which can be further divided into three subscales: Semantics (items 1-8), Receptive (items 9-14) and Expressive language (items 15-20). All answers are scored on a 5-point Likert scale from '1-Doesn't fit the child, absolutely wrong' to '5-fits fine with the child, absolutely right.'

#### Psychometric Information:

Internal consistency (Cronbach's alpha) for full scale and the Semantic subscale are .97 and .95. Specificity rates for full scale and the Semantic subscale are .87 and .88. Sensitivity rates are: .83 for the full scale and .81 for the Semantic subscale. The Språk20 has also demonstrated concurrent validity (Ottem, 2009).

#### Base References/Primary Citations:

Ottem, E. (2009). 20 spørsmål om språkferdigheter – en analyse av sammenhengen mellom observasjonsdata og testdata. *Skolepsykologi* 1: 11-27.

#### 3. Rationale for choosing the instrument:

The checklist is a well-used Norwegian instrument to identify children with language impairment in terms of semantics, receptive and expressive language.

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

Only 7 items (items 1-7) were included in version A and B; Version C included all the 8 items from the Semantic subscale.

#### 22-24. School and after School Program

1. Name of original questions: One question about the child's satisfaction with school; one question about the current school organization; two questions about the child's participation of after school arrangement

Q		Response options	Variable name
22	How is your child enjoying school?		
		1- Very poor	
		2- Poor	
		3- Ok	
		4- Well	
		5- Very well	NN234
23	How is the school organized?		
		1- Open classroom	
		2- Set classroom	NN235
	How many students are there in the child's class?	Number 0-99	NN236
24	Does your child have a place in an afterschool pr	ogram?	
		1- No	
		2- Yes	NN237
	If yes: the child spends approximatelyhours per	Number 0-99	
	week at an afterschool program		NN238

#### 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 child's satisfaction with school, the current school organisation (in Norway, there are two types of organization; base and classroom) and participation of afterschool program. In Norway, the afterschool arrangement at school is before school starts in the morning, and after school ends in the afternoon (opening hours from 07.30-16.30).

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

No revisions have been made in the question.

#### 25. School Assessment

#### 1. Name of original questions: Three questions about school results on national exams

Q		Response options	Variable name
25	All children take mandatory tests at school: reading in 1st grade and reading and arithmetic in		
		parent-teacher discussions. What feedback have you got	en about your child?
	Reading skills in 1 <sup>st</sup> grade	1-Has mastered subject well	NN239
	Reading skills in 2 <sup>nd</sup> grade	2-Must work more but teacher is not concerned	NN240
А	Arithmetic skills in 2 <sup>nd</sup> grade	4-Don't know/not discussed with teacher	NN241

#### 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 child's school result on national exams (reading skills and math).

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

#### 26. Special Education

**1. Name of original questions:** Three questions about special education in Norwegian, Math, other subjects, and two questions about other forms for support or assistant.

Q	Response options / Variable name			
26	Is an administrative decision made about your child bei	eing eligible for special education?		
		1-No 2-Yes	If yes, how much help has been allocated? 1-Minimal (less than 3 h/week) 2-Some (3-5 h/week) 3-Maximal (6h/week or more)	
	In Norwegian language?	NN242	NN243	
	In arithmetic?	NN244	NN245	
	In other subjects?	NN246	NN247	
	Does your child receive any other educational support?	NN248	NN249	
	Does your child get extra help (e.g. an assistant) at school because of a disability or a developmental problem?	NN250	NN??	

#### 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 child's need for special education and the time that has been allocated.

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

#### 27. Homework

# **1. Name of original questions:** Three questions about homework, help with homework at home and at school

Q		Response options	Variable name
27	Approximately how many hours per week		
	does your child spend doing homework at home?	1) No homework 2) 0 hour	NN251
	does your child get help doing homework at home?	3)1-2 hours 4) 3-4 hours	NN252
	does your child get help doing homework at school or afterschool?	5) 5-6 hours 6) 7 hours or more	NN253

#### 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 time the child spend doing homework and the help the child get at home and at school.

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

#### 28. Reading and Writing Skills

#### 1. Name of original questions: 5 questions about skills in reading and writing

Q		Response options	Variable name
28	Enter a cross indicating what your child masters:		
In	1. Reads simple stories aloud, with ease, when asked		NN380
version C	2. Identifies all lowercase printed letters (i.e. a, b, c) and uppercase (i.e. A, B, C) of the alphabet	1- Yes	NN381
	3. Reads (aloud or covertly) and understands texts suitable for 7-8 year olds (e.g. simple children's books, cartoon strips).	2- Partially 3-Not yet	NN382
	4. Writes simple information/messages at least three sentences long (for example, notes, e-mail, SMS etc.)		NN383
	5. Writes reports, papers, or essays at least one page long; may use computer. May make small errors in spelling or sentence structure		NN384
In	1. Is the child able to read simple words (e.g. name of an animal or a thing)?	1- No	NN254
version	2. Is the child able to read simple sentences (e.g. sentences with 4-6 words)?	2- Yes	NN255
A & B	3. Is the child able to write simple words (e.g. name of an animal or a thing)?	3-Don't know	NN256
	4. Is the child able to write simple sentences (e.g. sentences with 4-6 words)?		NN257

#### 2. Description of original questions:

The items in version C were selected from the written sub-scale of the Vineland Adaptive Behaviour Scale-II (Sparrow, et al., 2005); the items in version A & B were selected and adapted from The Early Development Instrument (EDI; Janus and Offord, 2007)

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Janus, M. & Offord, D. (2007): Development and Psychometric Properties of the Early Development Instrument (EDI): A measure of children's school readiness. *Canadian Journal of Behavioural Science* 39 (1):1-22.

Sparrow, S.S., Cicchetti, D.V. and Balla, D.A. (2005). *Vineland Adaptive Behaviour Scale-II*. Minnesota, USA: American Guidance Service.

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

The selected items are used as a brief measure of children's literacy skills at age 8.

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

Due to lack of variability, the items in version A & B have been replaced with the items in version C (see table above).

#### 29. The Child's Pronunciation

**1. Name of original questions:** 2 questions about understandability of the child's speech; 2 questions about the child's narrative skills

Q		Response options	Variable name
29	About the child's pronunciation		
	1. How easy it is for you to understand what your child is saying?	1-Very difficult 2-2 3-3	NN258
	2. How easy it is for strangers to understand what your child is saying?	4-4 5-Very easy	NN259
	3. How do you rate your child's ability to tell a story?	1-Very poor 2-Poor	NN260
	4. How would you rate your child's ability to communicate his/her own needs in a way understandable to adults and friends?	3-Average 4-Good 5-Very good	NN261

#### 2. Description of original questions:

Questions were selected and adapted from the Early Language in Victoria Study (ELVS; <a href="http://www.mcri.edu.au/research/research-projects/elvs/">http://www.mcri.edu.au/research/research-projects/elvs/</a>), which is a prospective study of the language of 1900 infants born in Melbourne

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

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

The first two questions can form an index for the child's pronunciation difficulties. The four questions are meant to give an index of whether the child struggles with speech. Understandable speech influences communication and interaction with others. Ability to tell a continuous story is a central predictor for later reading and writing disabilities.

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

#### 30-31. Home Reading and Self-reading

**1. Name of original questions:** 2 questions about home reading to children; 2 questions about children's self-reading

Q	Response options	Variable name	
30	How often do you read to your child?		
	1) Never		
All versions	2) 1-2 times a week		
	3) 3-4 times a week		
	4) 5-6 times a week		
	5) Every day	NN262	
31a	How long does your child like to sit still and be read for?		
	1) Does not like to be read at all		
Version A & B	2) 5 minutes or less		
	3) 6-15 minutes		
	4)16-45 minutes		
	5) More than 45 minutes		
	6) Is never read to	NN263	
Version C	1) Is never read to		
	2) 5 minutes or less		
	3) 6-15 minutes		
	4)16-45 minutes		
	5) More than 45 minutes	NN385	
31b	How long does your child sit still and read by him/herself?		
	1) Does not like read by him/herself at all		
Version A & B	2) 5 minutes or less		
	3) 6-15 minutes		
	4)16-45 minutes		
	5) More than 45 minutes		
	6) Never reads by him/herself	NN264	
Version C	1) Never reads by him/herself		
	2) 5 minutes or less		
	3) 6-15 minutes		
	4)16-45 minutes		
	5) More than 45 minutes	NN386	
31c	What types of books does your child like to read by him/herself?		
	1) Does not like to read by him/herself		
All versions	2) Picture books		
	3) Simple stories, both images and text on each page		
	4) Books with chapters (almost text only)		
	5) Do not know	NN265	

#### 2. Description of original questions: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

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

The questions are used as a brief measure about home reading to children, and children's reading by him/herself.

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

Some revisions have been made in the response categories to items 31a and 31b. The items have six response categories in versions A and B; in version C they have only five, with one response category (Does not like to be read/read by him/herself) being deleted.

#### 32. Cooperation School - Home

1. Name of original questions: 4 statements about the information exchange between school and home concerning teaching, wellbeing, academic and social achievement

Q		Response options	Variable name	
32	Consider these statements about cooperation and communication between parents and school			
	1. I/we are well informed about our child's curriculum at school		NN266	
	2. I/we get sufficient information about how our child is enjoying and	1- Very true		
	coping at school	2- Quite true	NN267	
	3. I/we are not well included in discussions about our child's social	3- Not very true		
	development	4-Not true at all	NN268	
	4. I/we get little information about how our child learns his/her subjects			
	at school		NN269	

#### 2. Description of original instrument: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

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

These questions were used as a brief measure of information exchange between school and home concerning teaching, wellbeing, academic and social achievement.

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

#### 33. Sleeping at Night

1. Name of original questions: One question about time the child spent sleeping per night on weekdays.

Q	Resp	onse options	Variable name
33	About how many hours does the child usually sleep on weeknights?		
	1) 8 h	ours or less	
	2) 9 h	ours	
	3) 10	hours	
	4) 11	hours	NN387
	5) 12	hours or more	

#### 2. Description of original instrument: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

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

The question was developed to get information about the child's sleeping habit at night.

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

The question was only included in version C. No further revisions have been made.

#### 34. Difficulties, Impairment and Impact

1. **Name of the original question**: Individual questions related to impact/impairments based on The Strengths and Difficulties Questionnaires (SDQ)

Q		Response options	Variable name
34	On the whole, do you think the child currently has problems in one or more of the following areas?		
	1. Concentration	1-No	NN388
	2. Behaviour	2-Yes	NN389
	3. Emotions		NN390
	4. Getting along with others		NN391
	5. Language		NN392
	If yes, is the child disturbed or bothered by these problems?	1-No 2-Yes, a little 3- Yes, a lot	NN393
	Does these problems affect the child's daily life in any of the following areas?		
	At home/with the family	1-No	NN394
	In relationship with friends	2-Yes, a little	NN395
	Learning at school	3- Yes, a lot	NN396

#### 2. Description of original question:

Individual questions related to impact/impairments based on the Strengths and Difficulties Questionnaires (SDQ). Only the impact/impairment questions based on SDQ are included (i.e. the last part of the original questionnaire)

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

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

The questions were developed to survey children's difficulties in concentration, behavior, feelings, getting along with others and language, and the impact related to the problem - for the child, for the family, child's relationship with friends, and in relation to learning in school.

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

The question was only included in version C. No further revisions have been made.

## About you

#### 35. Work

#### 1. Name of original questions: question about the mother's current employment status

Q		Response options	Variable name
35	Are you currently in paid employment?		
		1) Yes 2) Yes, but I am on partial sick leave 3) Yes, but I am on full sick leave 4) No	NN270

#### 2. Description of original instrument: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

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

The question was developed to get information about the mother's current employment status.

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

#### 36. Education

#### 1. Name of original questions: question about the mother's education

Q			Variable
		Response options	name
36	What is your highest level of completed education	n?	
		1) 9-year elementary education	
		2) 1-2 years in high school	
		3) Vocational high school	
		4) General studies, 3-year high school	
		5) College, university up to 4 years	
		6) College, university more than 4 years	NN271

#### 2. Description of original instrument: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

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

The question was developed to get information about the mother's highest education level.

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

#### 37-39. Family Household

#### 1. Name of original questions: 3 questions about family household

Q		Response options	Variable name
37	How many children (under 20) live in your household?		
	Number of children	Number 0-99	NN272
38	Who do you live with, other than your own child?		
	Spouse		NN273
	Partner		NN274
	Other children		NN275
	Other people		NN276
	No one		NN277
39	Do you live with the child's father?		
		1-Yes	
		2-No, we have separated	
		3-No, I have never lived with the child's father	NN278
	If you have separated, how old was your child when you split up?	Number 0-99	NN279

#### 2. Description of original questions: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

No relevant.

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

The questions were developed to get information about who the woman lives with, and if the women and the child's father have moved apart, the child's age when that happened.

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

## About exercise, weight and eating

#### **40. Physical Activity**

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

Q		Response options	Variable name
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.		
	Less than 30 minutes	Never     Less than once per week	NN280
	Between 30-60 minutes	3) Once per week 4) 2 times per week	NN281
	More than 60 minutes	5) 3-4 times per week 6) 5 times or more per week	NN282

#### 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. Søgaard 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:

#### 41. Height and Weight

#### 1. Name of original questions: Questions about the mother's current height and weight

Q		Response options	Variable name
41	What is your current height and weight?		
	Height	cm	NN283
	Weight	, kg	NN284

#### 2. Description of original questions: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant

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

The questions are used to get information about the mother's current height and weight.

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

#### 42-45. Eating Disorder

#### 1. Name of original questions: Questions on eating disorders and behaviours

Q		Response options	Variable name
42	Have you ever had a period of time where you we	eighed much less than others th	ought you should?
		1-No (go to question 43) 2-Yes	NN285
	Yes, I wasyears old	Number 0-99	NN286
	weighedkg	Number 0-999	NN287
	wascm high	Number 0-999	NN288
	1. During the time, did you feel fat?	1-Not at all	NN289
	2. During the time, were you afraid that you might gain weight or become fat?	2-A little 3-Very much	NN290
	3. When was the last time you weighed so little, and yet felt fat and/or were afraid about gaining weight?	years old	NN291
	Is this still the case?	1-No 2-Yes	NN292
43	During the last year, have you ever had eating bas an unusually large amount of food in a short p		people would regard
Version A&C		1-No (go to question 44) 2-Yes	NN293
Version B		1- Yes, at least once a week 2-Yes, but seldom 3- No	NN367
Version C	If you answered yes		
	In the period when you had the most number of eating binges, how many times did this happen in the course of one month?	Number 0-99	
All versions	Did you feel that your eating was out of control?	1-No 2-Yes, somewhat out of control 3-Yes, absolutely out of control	NN294
All versions	How upset or distressed did binge eating usually make you feel?	1-Not at all 2-Somewhat 3-Very much	NN295
44	During the last year, have you used any of the fo	llowing methods to control you	r shape or weight?
	Make yourself vomit	1-Never	NN296
	Use laxatives or diuretic pills	2-Sometimes	NN297
	Fast or not eat for 24 hours or more	3-Weekly	NN298
	Use diet pills	4-Several times per week	NN299
	Exercise more than two hours per day		NN300
45	In general, how important is shape and weight fo	r your self-esteem?	
		1-Not important at all 2- 2 3-3 4-4	NN301
		5-The most important thing	

#### 2. Description of original questions: Questions on eating disorders and behaviors

The questions were designed in accordance with the DSM-IV (APA, 1994) diagnoses of Anorexia Nervosa (AN), Bulimia Nervosa (BN) and Eating Disorders Not Otherwise Specified (EDNOS).

#### Psychometric Information:

Similar diagnostic questions have been used in previous epidemiological studies in Norway (e.g. Reichborn-kjennerud, et al., 2003). Still, the questions are based on self-report and are intended to target more broadly defined disorders than diagnostic interviews (Bulik et al., 2007).

#### Base References/Primary Citations:

American Psychiatric Association (1994). *Diagnostic and Statistical Manual of Mental Disorders (*4<sup>th</sup> edition). Washington, DC: American Psychiatric Association.

Bulik C.M., Von Holle A., Hamer R., Berg C.K., Torgersen L., Stoltenberg C., Siega-Riz A.M., Sullivan P., and Reichborn-Kjennerud T. (2007). Patterns of remission, continuation, and of broadly defined eating disorders in the Norwegian Mother and Child Cohort Study (MoBa). *Psychological Medicine* 10: 1-10.

Reichborn-Kjennerud T, Bulik CM, Kendler KS, Røysamb E, Maes H, Tambs K, Harris JR. 2003. Gender differences in binge-eating: a population-based twin study. *Acta Psychiatrica Scandnavica* 108(3):196-202.

# 3. Rationale for choosing the questions:

These questions are intended to bring about algorithms that define some specific subtypes of eating disorders (Bulik et al., 2007).

# 4. Revision during the data collection period:

Some revisions have been made in question 43 (see table above).

# 46-47. Pregnancy and Birth

**1. Name of original questions:** One question about pregnancy now, one about having born a child last year

Q		Response options	Variable name
46	Are you pregnant now?		
		1-No	
		2-Yes	NN302
47	Have you given birth in the past year?		
		1-No	
		2-Yes	NN303

# 2. Description of original questions: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant

## 3. Rationale for choosing the questions:

The questions are used to get information about the mother's pregnancy status and whether she has given birth last year.

# 4. Revision during the data collection period:

#### 48. Health Problems/Illnesses

# 1. Name of original questions: Question about health problems/illnesses

Q		Response options	Variable name		
48	Do you have/ have you had any of t	e you had any of the following disorders/illnesses?			
			1-No, never	Have you been treated	
			2-Not now, but in	for the problem/illness?	
			the past	1-No	
	Disorder/illness		3-Yes, now	2-Yes	
	1. ADHD		NN304	NN305	
	2. Reading and writing difficulties		NN306	NN307	
	3. Anorexia		NN308	NN309	
	4. Bulimia		NN310	NN311	
	Do you have or have you had any other	er serious illness or health prol	blem?		
		1-No		NN312	
		2-Yes			
	If yes, what was the name of the illness (es)?			NN313 (txt.)	

# 2. Description of original questions: MoBa specific questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant

# 3. Rationale for choosing the questions:

The questions were developed to survey whether the mother is suffering/had suffered from ADHD, reading/writing problems, anorexia, bulimia, and other severe illnesses or health problems.

# 4. Revision during the data collection period:

# A little more about how you are now

#### 49. Social Phobia

#### 1. Name of original scale: Mini Social Phobia Inventory (miniSPIN)

Q		Response options	Variable name
49	How much have the following problems bothered you during the	past week?	
	Fear of embarrassment cause me to avoid doing things or speaking to people	1-Not at all 2-A little bit	NN314
	2. I avoid activities in which I am the centre of attention	3-Somewhat 4-Very much	NN315
	3. Being embarrassed or looking stupid are among my worst fears	5-Extremely	NN316

#### 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 = 0.70, 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 References/Primary Citations:

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:

#### 50. Satisfaction with Life Scale (SWLS)

#### 1. Name of original scale: The Satisfaction With Life Scale (SWLS)

Q		Response options	Variable name
50	How much do you agree with the these descriptions?		
	In most ways my life is close to my ideal		
		1 Disagrae completely	NN317
	2. The conditions of my life are excellent	1- Disagree completely 2- Disagree	
		3- Disagree somewhat	NN318
	3. I am satisfied with my life	4- Don't agree or disagree 5- Agree somewhat	NN319
	4. So far I have gotten the important things I want in life	6- Agree	NN320
	5. If I could live my life over, I would change almost nothing	7- Agree completely	1414020
	3. If I could live my life over, I would change almost nothing		NN321

#### 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~.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:

#### 51. The Autonomic Nervous System Questionnaire (ANS)

# 1. Name of original scale: The Autonomic Nervous System Questionnaire (ANS)

Q		Response options	Variable name
51	In the past 6 months have you experienced the following?		
	1. A spell or attack when all of sudden you felt frightened, anxious or very uneasy?	1-Yes	NN322
	2. A spell or attack when for no reason your heart suddenly began to race, you felt faint, or you couldn't catch your breath?	2-No	NN323
	3. If you have had such attacks, did they ever happen in a situation where you were not in danger or not the center of attention?		NN324

# 2. Description of original instrument: The Autonomic Nervous System Questionnaire (ANS)

The Autonomic Nervous System Questionnaire (ANS; Stein, et al., 1999) is a self-report short instrument developed to screen for panic disorder. There are three versions of the ANS, with two, three or five items. The three item version is included in MoBa. Two "gating" questions ask about the occurrence of anxiety attacks or unexplained paroxysms of physical symptoms (tachycardia, dizziness or shortness of breath) in the prior 6 months. The last item has as purpose to exclude scoring panic in situations where anxiety may have a natural cause. All the items are administered in a yes/no response format. Panic is scored when all questions are answered with a "yes".

# Psychometric Information:

According to the developer, the screening capacity for the three item version is almost as good as for the five item version, with sensitivity ranging from 0.78 to 0.88 in three different samples and specificity ranging from 0.43 to 0.70 (Stein, et al., 1999). The sensitivity was estimated at 0.88 and specificity at 0.77 in Finnish primary care study (Tilli, et al., 2013).

## Base References/Primary Citations:

Stein, M.B., Roy-Byrne, P.P., McQuaid, J. R., Laffaye, C., Russo, J., McCahill, M.E et al. 1999. Development of a brief diagnostic screen for panic disorder in primary care. *Psychosomatic Medicine*, 61: 359–364.

Tilli, V. Suominen, K. & Karlsson, H. 2013. The autonomic Nervous System Questionnaire and the Brief Patient Health Questionnaire as screening instruments for panic disorder in Finnish primary care. *European Psychiatry*, 28 (7):442-447.

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

#### 52. Depression/Anxiety

1. Name of original scale: Selective items from the (Hopkins) Symptoms Checklist-25 (SCL-25)

Q		Response options	Variable name
52	Have you been bothered by any of the following durin	g the last two weeks?	
	1. Feeling fearful		NN325
	2. Nervousness or shakiness inside	1-Not bothered 2-A little bothered 3-Quite bothered 4-Very bothered	NN326
	3. Feeling hopeless about the future		NN327
	4. Felling blue		NN328
	5. Worrying too much about things		NN329
	6. Feeling everything is an effort		NN330
	7. Feeling tense or keyed up		NN331
	8. Suddenly scared for no reason	1	NN332

# 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 Scandnavica* 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).

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

#### 53-54. Social support

## 1. Name of original questions: Two questions about social relations and social support

Q		Response options	Variable name		
53	Do you have anyone other than your husband/partner you can ask for advice in a difficult situation?				
		1- No			
		2-Yes, 1 or 2 people	NN333		
		3-Yes, more than 2 people			
54	How often do you see or talk on the telephone with your family (other than your husband/partner and children) or close friends?				
		Several times per week			
		2) 1-4 times per month	NN334		
		3) Less often			

# 2. Description of original questions: MoBa specific questions

Psychometric Information:

Not relevant

Primary citation/base reference:

Not relevant

# 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:

In father questionnaire, the word 'husband' in the first 2 items has been replaced with 'wife'. The last item 'Do you often feel lonely?' is not included in Q-8year. No further revisions have been made.

#### Added reference:

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

#### 55. Short Form of the Alabama Parenting Questionnaire (APQ-9)

# 1. Name of original scale: Short form of the Alabama Parenting Questionnaire (APQ-9)

Q		Response options	Variable name
55	Below are a number of statements about your family. The statements may not family. Nonetheless, please rate each item according to how often it typically occur		are in your
	1. You let your child know when he/she is doing a good job with something	1-Never	NN335
	2. You threaten to punish your child and then do not actually punish him/her	1-inevel	NN336
	3. Your child fails to leave a note or let you know where he/she is going	2-Almost never	NN337
	4. Your child talks you out of being punished after he/she has done something wrong	2 / tillioot lievel	NN338
	5. Your child stays out in the evening after the time he/she is supposed to be home	3-Sometimes	NN339
	6. You compliment your child when he/she has done something well		NN340
	7. You praise your child if he/she behaves well	4-Often	NN341
	8. Your child is out with friends you don't know		NN342
	9. You let your child out of a punishment early (E.g. Lift restrictions earlier than you originally said)	5-Always	NN343

#### 2. Description of original instrument: Alabama Parenting Questionnaire (APQ)

The APQ is a 42-item scale developed by Frick (1991) to assess parenting practices in clinical and research settings. The APQ measures five dimensions of parenting that are relevant to the etiology and treatment of child externalizing problems: (1) Positive Involvement with children, (2) Supervision and Monitoring, (3) Use of Positive Discipline techniques, (4) Consistency in the Use of Such Discipline and (5) Corporal Punishment. There is both a parent form and a child from. The 9 items from the parent form are selected into use in the MoBa. The 9 items that are selected into use in this section constitute the short form of the APQ (APQ-9; Elgar et al., 2006), with three supported factors: Positive Parenting, Inconsistent Discipline, and Poor Supervision. All answers are scored on a 5-point scale from 'never' (1) to 'always' (5).

#### Psychometric Information:

The average reliability across the APQ scales is .68. The APQ has good psychometric properties including criterion validity in differentiating clinical and nonclinical groups (Dadds, Maujean, & Fraser, 2003; Frick et al., 1999; Shelton et al., 1996). Frick et al. (1999) reported a mean  $R^2$  across its five scales of 0.24 for predicting child symptoms of oppositional defiant disorder and conduct disorder. The 9-item short scale showed good fit to a three-factor model and good convergent validity by differentiating parents of children with disruptive behavioral disorders and parents of children without such disorders. Internal consistency of the short scale is .44; the mean correlation between the APQ and the short scale is r=.85 (Elgar et al., 2006).

## Base References/Primary Citations:

Elgar, F.J., Waschbusch, D.A, Dadds, M.R., Sigvaldason, N. (2006). Development and validation of a Short Form of the Alabama Parenting Questionnaire. *Journal of Child Family Study* 16: 243-259.

Frick, P. J. (1991). Alabama Parenting Questionnaire. University of Alabama.

Frick, P. J., Christian, R. E., & Wooton, J. M. (1999). Age trends in the association between parenting practices and conduct problems. *Behavior Modification 23*: 106–128.

Shelton, K. K., Frick, P. J., &Wooton, J. (1996). Assessment of parenting practices in families of elementary school-age children. *Journal of Clinical Child Psychology* 25: 317–329.

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

The APQ is useful for studying how parenting practices influence children's social and psychological development.

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

# Alcohol and smoking

# **56-57. Smoking**

# 1. Name of original questions: Questions about maternal and paternal smoking habits

Q		Response options	Variable name
56	Do you smoke now? If yes, how many cigarettes?		
		1-Do not smoke 2- Smoke sometimes 3- Smoke daily	NN344
	If smoke sometimes, number of cigarettes per week	Number 0-99	NN345
	If smoke daily, number of cigarettes daily	Number 0-99	NN346
57	Does the child's father smoke? If yes, how many ci	garettes?	
		1-Do not smoke 2- Smokes sometimes 3- Smokes daily	NN347
	If smokes sometimes, number of cigarettes per week	Number 0-99	NN348
	If smokes daily, number of cigarettes daily	Number 0-99	NN349

# 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 to get information about maternal and paternal smoking habits.

# 4. Revision during the data collection period:

#### 58-60. Alcohol Use

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

Q		Response options	Variable name
58	How often do you drink alcohol now?		<u> </u>
		1-About 6-7 times per week	NN350
		2-About 4-5 times per week	
		3-About 2-3 times per week	
		4-About once per week	
		5-About 1-3 times per month	
		6-Less than once a month	
		7-Never	
9	How many alcohol units do you have on a typical day when you	are drinking?	
		1) 10 or more	NN351
		2) 7-9	
		3) 5-6	
		4) 3-4	
		5) 1-2	
		6) Less than 1	
0	How often during the last year		·
	1have you had 6 or more drinks on one occasion?		NN352
	2have you found that you were not able to stop drinking once	1-Never	NN353
	vou had started?		
	3have you failed to do what was normally expected from you	2-Almost never	NN354
	because of drinking?		
	4have you needed a first drink in the morning to get yourself	3-Sometimes	NN355
	going after a heavy drinking session?		1111000
	5have you had a feeling of guilt or remorse after drinking	4-Often	NN356
	alcohol?		1111000
	6have you been unable to remember what happened the night	5-Always	NN357
	before because you had been drinking alcohol?		1111007
	7. Have you or someone else been injured as a result of your	1-No	NN358
	drinking?	2-Yes, but not in the last year	1414000
	8. Has a relative, friend or doctor (or other health worker) been	3-Yes, during the last year	NN359
		5-1 es, during the last year	ININOOS
	concerned about your drinking or suggested that you cut down?		1.1.1330

#### 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 crossnational study.

# 4. Revision during the data collection period: