

Questions documentation

Klinikkskjema (clinical form)

The Norwegian Mother and Child Cohort Study (MoBa)

Clinical questionnaire filled out by clinician performing a clinical examination of 2nd generation MoBa women in the MoBa collection: “Unge kvinners fruktbarhet”

Version	Date	Performed by	Description
1.0	01.09.24	Siri Håberg (FHI) Katrine Kranstad (FHI) Mari Warp (Sykehuset Telemark) Hans Ivar Hanevik (Sykehuset Telemark)	Original version

LIST OF CONTENTS

Instrument	3
1. Physical measures	4
2. Blood pressure	5
3. EKG	6
4. Gynecological examination	7
5. Clinical examination of the vulva	8
6. Transvaginal ultrasound	9
7. Finger length	11
8. Questions asked by clinicians	13
9. Questions to clinicians	18

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 measure was chosen (if relevant).

4. Modifications:

Describe modifications during the study from one version to another.

Write if omitted or added from one version to another

NOTE:

This instrument documentation was written based on version C of the questionnaire per 08.06.2023.

Physical measures

Q		Response options	Variable name	
Version A, B and C				
3	Provide the height of the person in nearest cm	Manually plotted	WK12	
4	Provide the person's waist measurement in nearest cm		WK13	
5	Provide the person's hip measurement in the nearest cm		WK14	
6	Provide the person's weight in kilograms (nearest Kg)		WK15	
7	Provide the person's bodyfat measure in percentage (nearest full %-point)		WK16	
8	Provide the person's water content in percentage (nearest full %-point)		WK17	
9	Provide the person's muscle-mass in kilograms (nearest Kg)		WK18	
10	Provide the person's metabolic age (nearest full year)		WK19	
11	Provide the person's resting metabolism in kcal per day (nearest kcal. pr. day)		WK20	
12	Provide the person's bone mineral mass in Kg		WK21	
Version B and C				
7.1	Provide the person's visceral fat measure (number 1-59)		Manually plotted	WK74

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

UiO, Procedures for anthropometric measurements. 2012, University of Oslo - medical faculty

3. Rationale for choosing the questions:

The "Tanita" scale that was chosen as equipment in this study to obtain measurements and calculations on various physical measures has these parameters as input/output.

4. Revision during the data collection period:

The word Patient was replaced by Person in Version B. No changes to the actual measures were made between version A and B.

Blood pressure

First measure

Q		Response options	Variable name
13	Systolic, mmHg	Manually plotted	WK22
13.1	Diastolic, mmHg		WK23

Second measure

Q		Response options	Variable name
14	Systolic, mmHg	Manually plotted	WK24
14.1	Diastolic, mmHg		WK25

Third measure

Q		Response options	Variable name
15	Systolic, mmHg	Manually plotted	WK26
15.1	Diastolic, mmHg		WK27

Average measures

Q		Response options	Variable name
16	Systolic, mmHg	Manually plotted	WK28
16.1	Diastolic, mmHg		WK29

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Dahlum, A.B. and I. Ottosen. Non-invasiv blodtrykksmåling (NIBP)- metoder og feilkilder. 2016; Available from: <https://ehandboken.ous-hf.no/document/122459>

3. Rationale for choosing the questions:

Good clinical practice concerning NIBP measurements. One deviation from this is that we average out the three measurements, not just the last two.

4. Revision during the data collection period:

Not relevant

EKG

Q		Response options	Variable name
	EKG-file	File attachment	WK30
16.2	Resting heart rate, per minute	Manually plotted	WK31

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Ingrid H. Johansen, J.B., Cecilie Arentz-Hansen, Kåre Moen. LEGEVAKT håndboken. 2021. Cited 2023; available from: https://lvh.no/symptomer_og_sykdommer/hjerte_og_kar/ekg/elektrodeplassing

3. Rationale for choosing the questions:

Not relevant

4. Revision during the data collection period:

Not relevant

Gynecological examination

Q		Response options	Variable name
17	During the time the person is without hormonal contraception, does she have a regular menstrual	<ol style="list-style-type: none"> 1. No 2. Yes 	WK32
18	What is the person's most common time interval from the first day of bleeding to the next first day of bleeding?	<ol style="list-style-type: none"> 1. Less than 24 days 2. 24-27 days 3. 28-31 days 4. 32-35 days 5. More than 35 days 	WK33
19	How long does a person's menstrual bleeding usually last?	<ol style="list-style-type: none"> 1. 2 days or less 2. 3-7 days 3. More than 7 days 	WK34
20	Does the person have menstrual pain that interferes with normal activities?	<ol style="list-style-type: none"> 1. Every month 2. Sometimes 3. Never 	WK35
21	What date was the person's first bleeding day in the menstrual cycle she is currently in? Date	Day(numbers)-month(letters)- year(numbers)	WK36

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Norsk gynekologisk forening Veileder i gynekologi (2021). ePub. ISBN 978-82-692382-1-1.

3. Rationale for choosing the questions:

Clinical practice and definitions of oligomenorrhea, normal cycle lengths etc.

4. Revision during the data collection period:

Not relevant

Clinical examination of the vulva

Q		Response options	Variable name
22	Anogenital distance in mm 1 AGD _{AC} : Distance from the upper pole of the anus (at 12 o'clock) to the anterior clitoris	Manually plotted	WK37
23	Anogenital distance in mm 2 AGD _{AF} : Distance from the upper pole of the anus (at 12 o'clock) to posterior fourchette		WK38

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Dural O, Kurbanova T, Yasa C, Ugurlucan FG, Selvi E, Ozdemir PK, Akhan SE. Idiopathic primary ovarian insufficiency is associated with anogenital distance, a marker for prenatal environment. *Eur J Obstet Gynecol Reprod Biol.* 2021 Mar;258:304-308. doi: 10.1016/j.ejogrb.2021.01.017. Epub 2021 Jan 12. PMID: 33498004

3. Rationale for choosing the questions:

Not relevant

4. Revision during the data collection period:

Not relevant

Transvaginal ultrasound

Uterine volume

Q		Response options	Variable name
24	Measure length to nearest whole mm	Manually plotted	WK39
24.1	Measure width to nearest whole mm		WK40
24.2	Measure AP diameter to nearest whole mm		WK41

Endometrium

Q		Response options	Variable name
25	State the person's largest intrauterine thickness (outer-outer) to the nearest whole mm	Manually plotted	WK42

Uterine pathology

Q		Response options	Variable name
Version A			
26	Does the person have malformations, fibroids over 20mm in diameter, polyps? Please specify	1. No 2. Yes	WK43
26.1	<i>This element will only be displayed if "Yes" was selected in question 26</i>	Written text	WK44
Version B and C			
26	Is it pathology?	1. No pathology 2. Yes	WK75
26.1	Type of pathology? <i>This element will only be displayed if "Yes" was selected in question 26, "Is it pathology?"</i>	Malformations	WK76
		Myomas over 20 mm in largest diameter	WK77
		Suspicion of adenomyosis	WK78
		Negative sliding sign	WK79
		Polyps	WK80

Left ovarium

Q		Response options	Variable name
Version A, B and C			
27	Ovarian volume in mm	Manually plotted	WK45
27.1	Height in nearest whole mm		WK46
27.2	Width in nearest whole mm		WK47
28	Does the person have a cyst?	1. No 2. Yes	WK48
28.1	What is the largest diameter in mm <i>This element will only be displayed if option 2 "Yes" was selected in question 28, "Does the person have a cyst?"</i>	Manually plotted	WK49
29	State the number of follicles 2 – 4 mm	Manually plotted	WK51
30	State the number of follicles 5 – 7 mm		WK52
31	State the number of follicles 8 – 10 mm		WK53
32	State the number of follicles 11 – 13 mm		WK54
33	State the number of follicles 14 – 16 mm		WK55
34	State the number of follicles 17 – 19 mm		WK56
35	State the number of follicles 20 – 22 mm		WK57
36	State the number of follicles 23 – 25 mm		WK58
Version A			
28.2	Briefly describe echogenicity compared to ovarian stroma <i>This element will only be displayed if option 2 "Yes" was selected in question 28, "Does the person have a cyst?"</i>	Written text	WK50

Version B and C			
28.2	Briefly describe echogenicity compared to ovarian stroma <i>This element will only be displayed if option 2 "Yes" was selected in question 28, "Does the person have a cyst?"</i>	1. Hypotension 2. Hyperdense 3. Isodens 4. Endometrioma	WK81

Right ovary

Q		Response options	Variable name
Version A, B and C			
37	Ovarian volume in mm	Manually plotted	WK59
37.1	Height in nearest whole mm		WK60
37.2	Width in nearest whole mm		WK61
38	Does the person have a cyst?	1. No 2. Yes	WK62
38.1	What is the largest diameter in mm <i>This element will only be displayed if option 2 "Yes" was selected in question 38, "Does the person have a cyst?"</i>	Manually plotted	WK63
39	State the number of follicles 2 – 4 mm		WK65
40	State the number of follicles 5 – 7 mm		WK66
41	State the number of follicles 8 – 10 mm		WK67
42	State the number of follicles 11 – 13 mm		WK68
43	State the number of follicles 14 – 16 mm		WK69
44	State the number of follicles 17 – 19 mm		WK70
45	State the number of follicles 20 – 22 mm		WK71
46	State the number of follicles 23 – 25 mm		WK72
Version A			
38.2	Briefly describe echogenicity compared to ovarian stroma <i>This element will only be displayed if option 2 "Yes" was selected in question 38, "Does the person have a cyst?"</i>	Written text	WK64
Version B and C			
38.2	Briefly describe echogenicity compared to ovarian stroma <i>This element will only be displayed if option 2 "Yes" was selected in question 38, "Does the person have a cyst?"</i>	1. Hypotension 2. Hyperdense 3. Isodens 4. Endometrioma	WK82

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Rosendahl M, Ernst E, Rasmussen PE, Andersen CY. True ovarian volume is underestimated by two-dimensional transvaginal ultrasound measurement. *Fertil Steril*. 2010 Feb;93(3):995-8. doi: 10.1016/j.fertnstert.2008.10.055. Epub 2008 Dec 23. PMID: 19108822.

3. Rationale for choosing the questions:

Not relevant

4. Revision during the data collection period:

Not relevant

Finger length

Finger length (length= total of cm + mm for each finger) Only in version C

Q		Response options	Variable name
47	Finger 1 (thumb) Length in cm	1. 0 cm 2. 1 cm 3. 2 cm 21. 20 cm	WK83
47.1	Finger 1 (thumb) Length in mm	1. 1 mm 2. 2 mm 3. 3 mm 9. 9 mm	WK84
48	Finger 2 (index) Length in cm	1. 0 cm 2. 1 cm 3. 2 cm 21. 20 cm	WK85
48.1	Finger 2 (index) Length in mm	1. 1 mm 2. 2 mm 3. 3 mm 9. 9 mm	WK86
49	Finger 3 (middle) Length in cm	1. 0 cm 2. 1 cm 3. 2 cm 21. 20 cm	WK87
49.1	Finger 3 (middle) Length in mm	1. 1 mm 2. 2 mm 3. 3 mm 9. 9 mm	WK88
50	Finger 4 (ring) Length in cm	1. 0 cm 2. 1 cm 3. 2 cm 21. 20 cm	WK89
50.1	Finger 4 (ring) Length in mm	1. 1 mm 2. 2 mm 3. 3 mm 9. 9 mm	WK90
51	Finger 5 (pinky) Length in cm	1. 0 cm 2. 1 cm 3. 2 cm 21. 20 cm	WK91
51.1	Finger 5 (pinky) Length in mm	1. 1 mm 2. 2 mm 3. 3 mm 9. 9 mm	WK92

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Li, G., et al., Prognostic significance of the digit ratio after hormone therapy for prostate cancer: a prospective multicenter study. *Scientific Reports*, 2017. 7(1): p. 5229.)

3. Rationale for choosing the questions:

Not relevant

4. Revision during the data collection period:

Not relevant

Questions asked by clinicians

Questions asked from clinicians (Only in version C)

Q	Response options	Variable name
52	<p>Did you use hormonal contraception before participating in this examination?</p> <p><i>If "Yes" is elected in this element, please fill out questions 52.1 – 52.5.</i></p> <p><i>If "No" is elected in this element, please skip to question 53 "Have you had surgery on your stomach or pelvis?"</i></p>	<p>1. Yes</p> <p>2. No</p> <p>WK93</p>
52.1	<p>For how many years have you been using hormonal contraception in total?</p>	<p>1. Under 1 year</p> <p>2. 1</p> <p>3. 2</p> <p>4. 3</p> <p>.....</p> <p>12. Over 10</p> <p>WK94</p>
52.2	<p>Why did you start on hormonal contraception?</p>	Contraception
		Acne
		Menstrual pain
		Heavy bleeding
		Irregular bleeding
		Endometriosis
		PCOS
		To control the menstrual cycle
Other		
WK95		
WK96		
WK97		
WK98		
WK99		
WK100		
WK101		
WK102		
WK103		
52.3	<p>If you used/use the pill, how do you use it?</p> <p><i>If you find that you change between the listed ways of using the pill, please tick the method that you use most of the time.</i></p>	<p>1. 21/7 – I take one pill tray and then a 7-day break</p> <p>2. Continuous</p> <p>3. Other</p> <p>WK104</p>
52.4	<p>Did you have a regular cycle before starting on hormonal contraception?</p>	<p>WK105</p>
52.5	<p>During a break from the use of hormonal contraception (either the break you have now due to participation in this study, or a break in use that you have had in the past), did you get your regular period back within 3 months?</p>	<p>1. No</p> <p>2. Yes</p> <p>3. I don't know</p> <p>WK106</p>
53	<p>Have you had surgery on your stomach or pelvis?</p>	No
		Yes, intestinal surgery
		Yes, in the ovaries
		Yes, in the fallopian tube(s)
WK107		
WK108		
WK109		
WK110		
54	<p>Have you previously received chemotherapy?</p>	<p>1. No</p> <p>2. Yes</p> <p>WK111</p>
55	<p>How old was your mother when she went through menopause?</p> <p><i>If you do not know the answer yourself, please feel free to ask your mother this question. If your mother has had a surgery that involves removal of the uterus, please tick "I don't know".</i></p>	<p>1. I don't know</p> <p>2. Over 50 years</p> <p>3. 45-50 years</p> <p>4. Younger than 45 years</p> <p>WK112</p>
56	<p>Do you drink alcohol?</p> <p><i>If "yes" is elected in this element, please fill out question 56.1. If "No" is elected in this element, please skip to question 57 "Do you drink caffeinated beverages such as coffee, tea, soft drinks, energy drinks or similar?"</i></p>	<p>1. Yes</p> <p>2. No</p> <p>WK113</p>

56.1	How many units of alcohol do you drink per week?	<ol style="list-style-type: none"> 1. Less than one unit 2. 1 3. 2 4. 3 12. 11 or more 	WK114
57	Do you drink caffeinated beverages such as coffee, tea, soft drinks, energy drinks or similar? <i>If "yes" is elected in this element, please fill out question 57.1. If "No" is elected in this element, please skip to question 58 "Do you engage in hard physical activity in your spare time?"</i>	<ol style="list-style-type: none"> 1. Yes 2. No 	WK115
57.1	How many units (glasses/cups) of caffeinated beverages do you drink on average in a day?	<ol style="list-style-type: none"> 1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 or more 	WK116
58	Do you engage in hard physical activity in your spare time? <i>Hard physical activity means running, aerobic, gymnastics and swimming etc.</i>	<ol style="list-style-type: none"> 1. No 2. Yes, less than 5 hours per week 3. Yes, more than 5 hours per week 	WK117
59	Have you ever tried to get pregnant with a partner without success?	<ol style="list-style-type: none"> 1. No 2. Yes, less than 6 months 3. Yes, 6 -12 months 4. Yes, more than 12 months 	WK118
60	Have you previously had an abdominal infection? <i>Examples of Abdominal infections are for example chlamydia, gonorrhoea, mycoplasma genitalum. Other conditions such as cystitis, genital warts, fungus or herpes genitalis do not apply here.</i>	<ol style="list-style-type: none"> 1. No (0 infections) 2. Yes, 1-2 times 3. Yes, 3 times or more 	WK119
61	Have you been pregnant outside the womb?	<ol style="list-style-type: none"> 1. No 2. Yes, 1 time 3. Yes, more than 1 time 	WK120
62	Do you have pain even if you use painkillers during menstruation?	<ol style="list-style-type: none"> 1. Yes, regardless of whether I take painkillers or not 2. No 	WK121
63	Do you have pain around menstruation if you do not use painkillers?	<ol style="list-style-type: none"> 1. Yes, I am in so much pain that I am often bedridden 2. Yes, I am in so much pain that I have to reduce my usual daily activity (but am not bedridden) 3. Yes, I am in pain, but can do normal daily activities 4. I am not in pain 	WK122
64	On a scale of 0-10 where 10 is the most painful thing you can imagine and 0 is not painful at all - how much pain do you usually have when you have your period?	<ol style="list-style-type: none"> 1. 0 (no pain) 2. 1 3. 2 4. 3 11. 10 	WK123
65	With menstrual pain, where do you have pain? <i>If "Other places" are ticked in this element, please fill out question 65.1 "Where else do you have pain?"</i>	I don't have menstrual pain	WK124
		Lower abdomen	WK125
		Lower back	WK126
		Down along the legs	WK127
		When I go to the bathroom to urinate	WK128
		When I go to the bathroom to pass stool	WK129
65.1	Where else do you have pain?	Manually plotted	WK130
			WK131

66	Are you absent from work or school because of menstrual pain? <i>If “yes” is elected in this element, please fill out question 66.1. If “No” is elected in this element, please skip to question 67 “Do you have pain during menstruation even if you use hormonal contraception?”</i>	1. Yes 2. No	WK132
66.1	How many days are you at home due to menstrual pain per month on average?	1. 0 2. 1 3. 2 16. 15 or more	WK133
67	Do you have pain during menstruation even if you use hormonal contraception? <i>If “yes” is elected in this element, please fill out question 67.1. If “No” is elected in this element, please skip to question 68 “If you use painkillers in connection with menstruation, what type of painkillers do you use?”</i>	1. Yes 2. No	WK134
67.1	Where do you have pain?	Abdomen	WK135
		Lower back	WK136
		Down along the legs	WK137
		Other places	WK138
68	If you use painkillers in connection with menstruation, what type of painkillers do you use?	Paracetamol / Pinex	WK139
		Ibux	WK140
		Vimovo / Naproxen	WK141
		Voltaren / Diclofenac	WK142
		Paralgin Forte / Pinex Forte	WK143
		Tramadol	WK144
		Oxynorm / Oxycontin	WK145
		Other	WK146
69	Have you used continuous contraception for at least 6 months without it helping the menstrual pain / causing the period to stop?		WK147
70	When you have your period, you feel more tired and fatigued compared to other times in the cycle?		WK148
71	Do you have pain during intercourse? <i>If “yes” is elected in this element, please fill out question 71.1. If “No” is elected in this element, please skip to question 72 “Have you been referred to or examined by a gynecologist due to trouble with menstrual pain?”</i>	1. Yes 2. No	WK149
71.1	What type of pain?	Pain on penetration	WK150
		Shock pain	WK151
		Pain afterwards	WK152
72	Have you been referred to or examined by a gynecologist due to trouble with menstrual pain?	1 - Yes 2 - No	WK153
73	Does your mother or sister have endometriosis or adenomyosis?	1 - Yes 2 - No	WK154
74	Does your mother or sister have troublesome menstrual cramps?	3 - I don't know	WK155
75	Have you been diagnosed with endometriosis? <i>If “yes” is elected in this element, please fill out questions 75.1-75.3. If “No” is elected in this element, please skip to question 76 “Have you been diagnosed with adenomyosis?”</i>	1 - No 2 - No, but my doctor suspects it 3 - No, but I suspect I have 4 - Yes	WK156

75.1	How have you been able to prove this?	In laparoscopic surgery	WK157
		Internal ultrasound at the gynecologist	WK158
		MR examination	WK159
		After other surgery (If this is ticked off, fill in 75.1.1)	WK160
		Other (If this is ticked, fill in 75.1.2)	WK161
75.1.1	What other surgery detected endometriosis?	Manually plotted	WK162
75.1.2	What other method detected endometriosis?		WK163
75.2	State year of diagnosis	1. Before 2010 2. 2011 3. 2012 19. 2028	WK164
75.3	State month of diagnosis	1. January 2. February 3. March 12. December	WK165
76	Have you been diagnosed with adenomyosis? <i>If "yes" is elected in this element, please fill out questions 76.1-76.3. If "No" is elected in this element, please skip to question 77 "Have you been diagnosed with any of the following conditions/diseases in the abdomen?"</i>	1. No 2. No, but my doctor suspects it 3. No, but I suspect I have it 4. Yes	WK166
76.1	How have you been able to prove this?	Internal ultrasound examination by a gynecologist	WK167
		Via MRI examination	WK168
76.2	State year of diagnosis	1. Before 2010 2. 2011 3. 2012 19. 2028	WK169
76.3	State month of diagnosis	1. January 2. February 3. March 12. December	WK170
77	Have you been diagnosed with any of the following conditions/diseases in the abdomen?	Myomas	WK171
		Polyps in the lining of the uterus	WK172
		Hydrosalpinx	WK173
		Malformations (bicornuate uterus, septum)	WK174
78	Overall, how stressful is your workday/school day?	1. Very stressful 2. Somewhat stressful 3. Not stressful at all	WK175

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Norsk gynekologisk forening Veileder i gynekologi (2021). ePub. ISBN 978-82-692382-1-1.

3. Rationale for choosing the questions:

Clinically relevant questions for determination of risk of endometriosis and for developing prediction model

of the same condition.

4. Revision during the data collection period:

Not relevant

Questions to clinicians

Question to clinician

Q		Response options	Variable name
79	After an overall assessment, you suspect that this participant has or will develop adenomyosis or endometriosis?	<ol style="list-style-type: none">1. Yes, very likely2. Yes, somewhat likely3. Neither likely nor unlikely4. No, not likely at all	WK176

2. Description of original instrument:

MoBa specific single questions

Psychometric Information:

Not relevant.

Base References/Primary Citations:

Not relevant.

3. Rationale for choosing the questions:

Develop prediction model for endometriosis.

4. Revision during the data collection period:

Not relevant