

Focus on Mothers 4

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Documentation giving frequencies, background and instructions for use.

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1 Introduction

1.1 Background

The main purpose of this study is to understand how measurements such as bone density, body size and blood pressure change as women go through mid-life. The study aims to understand whether changes in these characteristics are caused by changes in hormones, changes in lifestyle, genetic factors or a mixture of these. The “Focus on Mothers” (FOM) 4 clinic is the fourth in a series of four funded clinics.

The study was funded by the joint UK Research Councils via their Lifelong Health and Wellbeing programme (G1001357) and Wellcome Trust (WT092830/Z/10/Z), with Professor Debbie Lawlor as the PI for both.

The first “Focus on Mothers” 4 hands-on data collection started in April 2014. All visits were completed by March 2015.

1.2 Sample and response rates

There are a total of 14,675 records on the built file with 2,908 women having attended the FOM4 clinic, however there are a total of 2,996 attended cases on the release file (see section 1.7 for an important note on this). This number is made up of the 14,541 mothers in the core ALSPAC sample (regardless of whether or not they were invited to FOM3), plus 134 eligible mothers not in the core sample to whom invites were sent out. Invitations to FOM4 were sent out to a total of 4,805 study mothers (33% of cohort invited; 62.1% response). For further information on the ALSPAC sample, please see the cohort profile paper (Fraser et al, 2012).

Note that there is one mother who attended the clinic that had either triplets or quadruplets enrolled in ALSPAC. For reasons of confidentiality, the data for this mother is not available. The administrative variables fm4a001 and fm4a005 remain unchanged, but all other variables have been set to missing values of ‘-11’ or ‘-111’ (as appropriate).

A small number of attendees were invited back for a second visit in order to check reliability. To be eligible for a return visit the participant had to live locally, went through their first visit in a standard order and was willing to return. The data collected during the second visit is *not* held on the built file.

1.3 Data collection

Data was entered directly into a computerised system at the time of collection. This system had a number of quality control checks built in (e.g. asking for clarification if attempts were made to enter a value that was outside of common ranges for women of this age) in order to minimise data entry errors. On the rare occasion that the computerised system failed, paper data were collected on paper and later entered into the computer system.

Informed consent for each procedure was obtained for all participants at the beginning of the clinic session (appendix 4.1). Mothers were free to not participate in any sessions they did not want to and could retroactively withdraw consent after the session if they wished.

1.4 Format of the clinic

Trained fieldworkers conducted all assessments at the clinic. The visit was structured as follows:

<i>Time</i>	<i>Session</i>
20 mins	Informed consent and fasting blood sample
20 mins	Café
10 mins	Measuring weight, height (standing and seated), waist, arm and hip size
10 mins	DXA scan to measure lean (muscle) and fat mass and bone density
10 mins	pQCT scan of arm and wrist to measure strength and quality of bones
10 mins	Ultrasound scan of carotid artery (in neck) to measure thickness of artery wall (index of atherosclerosis)
10 mins	Blood pressure and pulse measurements
20 mins	Physical capability (hand grip, chair rises, static balance (one legged stand), timed 3 metre walk)
40 mins	Cognitive capabilities (verbal episodic memory, working memory, speed of information processing, executive function, word recognition)
5 mins	BCG scar size

Each visit therefore lasted approximately 2 and a half hours.

1.5 Data file structure

The data file is presented with administrative variables appearing first, followed by the data from each of the individual sessions.

Variables are given the prefix fm4xx and a 3-digit number, where xx denotes the session from which the data were collected (e.g. variables from the measures session are fm4msxxx, etc; pQCT data are fm4pqxxx etc.). Variables with the prefix fm4a and a number (e.g. fm4a011) are administrative variables.

Measures repeated from other FoM clinics take exactly the same variable naming format (although note that some measures may differ between clinics). See appendix 4.2 for a summary of the similarities and differences in data collection between the different FoM clinics.

1.6 Format of this documentation

The order of variables herein follows the order of variables in the built file. All variable frequencies are presented either in frequency tables, histograms or summary statistics, as appropriate.

1.7 Important Note for all data users

Please be aware that some women may appear in the release file more than once. This is due to the way in which women were originally enrolled into the study and were assigned IDs. ALSPAC started by enrolling pregnant women and the main study ID is a pregnancy based ID. Therefore if a women enrolled with two different pregnancies (both having an expected delivery date within the recruitment period (April 1991-December 1992)), she will have two separate IDs to uniquely identify these women and their pregnancies. An indicator variable has been included in the file, called *mult_mum* to identify these women. If you are carrying out mother based research that does not require you to consider repeat pregnancies for which we have data then please select *mult_mum* = 2 to remove the duplicate entries. This will keep one pregnancy and drop the other. If you are matching the data included in this file to child based data or have been provided with a dataset that includes the children of the ALSPAC pregnancies, as well as the mother-based data, you need not do anything as each pregnancy (and hence each child from a separate pregnancy) has a unique identifier and a mother's data has been included/repeated here for each of her pregnancies where appropriate. Each of the frequencies below therefore contains duplicate data due to these multiple pregnancies.

mult_mum_fm4 Entry is a duplicate - Remove if only looking at Mothers: FOM4					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	88	.6	2.9	2.9
	2 No	2907	19.8	97.1	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

1.8 Built file version history

Version 1d – released February 2018

Note that although this is version 1d, this is the first version of the release file (versions 1a to 1c were for internal purposes only and have not been released to researchers).

Version 2a – released April 2018

The common carotid intima-media thickness (cIMT) data has now been processed and has been added to the built file (variables fm4cv110 to fm4cv120).

Version 3a – released January 2019

Details of additions/corrections from previous release file:

- A new variable detailing whether the Mother was taking medication for diabetes has been derived from the medications text data (fm4sa210)

2. The Data and Observations

2.1 Administrative Variables

fm4a001 Attended FOM4 clinic: FOM4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	2996	20.4	20.4	20.4
2 No	11679	79.6	79.6	100.0
Total	14675	100.0	100.0	

fm4a005 In core ALSPAC sample: FOM4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	14541	99.1	99.1	99.1
2 No	134	.9	.9	100.0
Total	14675	100.0	100.0	

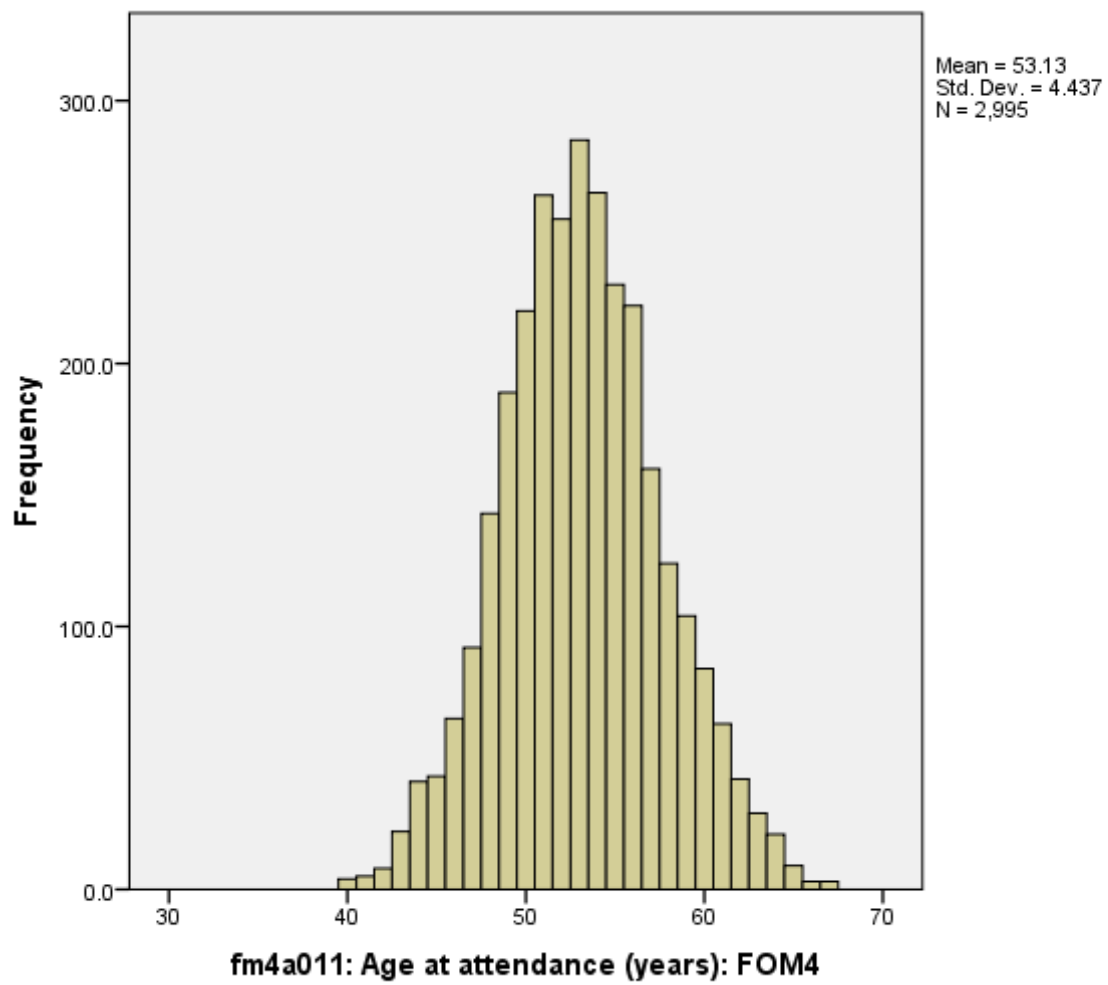
fm4a010a Month of attendance: FOM4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	211	1.4	7.0	7.0
2	258	1.8	8.6	15.7
3	257	1.8	8.6	24.2
4	251	1.7	8.4	32.6
5	287	2.0	9.6	42.2
6	262	1.8	8.7	51.0
7	274	1.9	9.1	60.1
8	287	2.0	9.6	69.7
9	244	1.7	8.1	77.8
10	275	1.9	9.2	87.0
11	248	1.7	8.3	95.3
12	141	1.0	4.7	100.0
Total	2995	20.4	100.0	
Missing -11 Mother of trip/quad	1	.0		
-10 Did not attend clinic	11679	79.6		
Total	11680	79.6		
Total	14675	100.0		

fm4a010b Year of attendance: FOM4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2014	2269	15.5	75.8	75.8
2015	726	4.9	24.2	100.0
Total	2995	20.4	100.0	
Missing -11 Mother of trip/quad	1	.0		
-10 Did not attend clinic	11679	79.6		
Total	11680	79.6		
Total	14675	100.0		

Age at attendance (in years) was reported directly by the mother.



2.2 Anthropometry

Height (seated and standing), weight and circumferences (waist, hip and arm) were all conducted in the same room as blood pressure measurements. The order of measurements was generally height (standing and seated), weight, waist circumference, hip circumference and arm circumference.

fm4ms001 Anthropometry fieldworker: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	161	1.1	5.4	5.4
	2	131	.9	4.4	9.7
	3	325	2.2	10.9	20.6
	4	313	2.1	10.5	31.1
	5	123	.8	4.1	35.2
	6	116	.8	3.9	39.0
	7	295	2.0	9.8	48.9
	8	117	.8	3.9	52.8
	9	263	1.8	8.8	61.6
	10	114	.8	3.8	65.4
	11	5	.0	.2	65.5
	12	364	2.5	12.2	77.7
	13	291	2.0	9.7	87.4
	14	163	1.1	5.4	92.9
	15	5	.0	.2	93.0
	16	36	.2	1.2	94.2
	19	77	.5	2.6	96.8
	20	48	.3	1.6	98.4
	21	40	.3	1.3	99.7
	22	8	.1	.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4ms010 Consent given for anthropometry: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2994	20.4	100.0	100.0
	2 No	1	.0	.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4ms010a Anthropometry consent withdrawn: FOM4

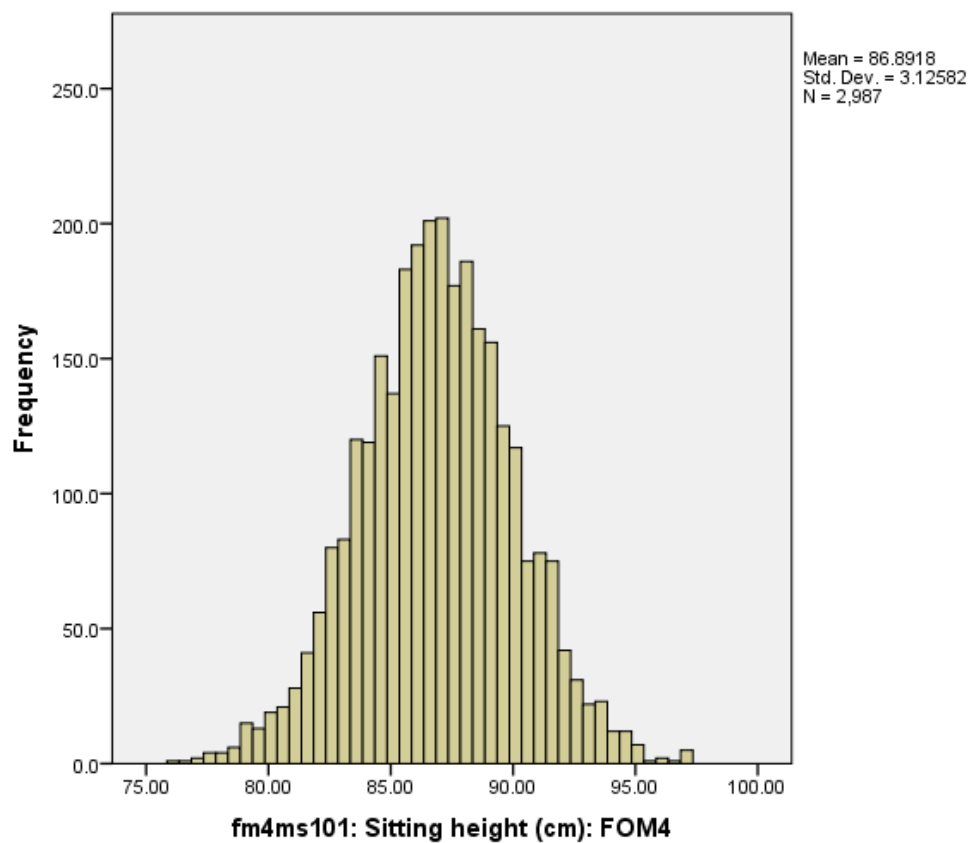
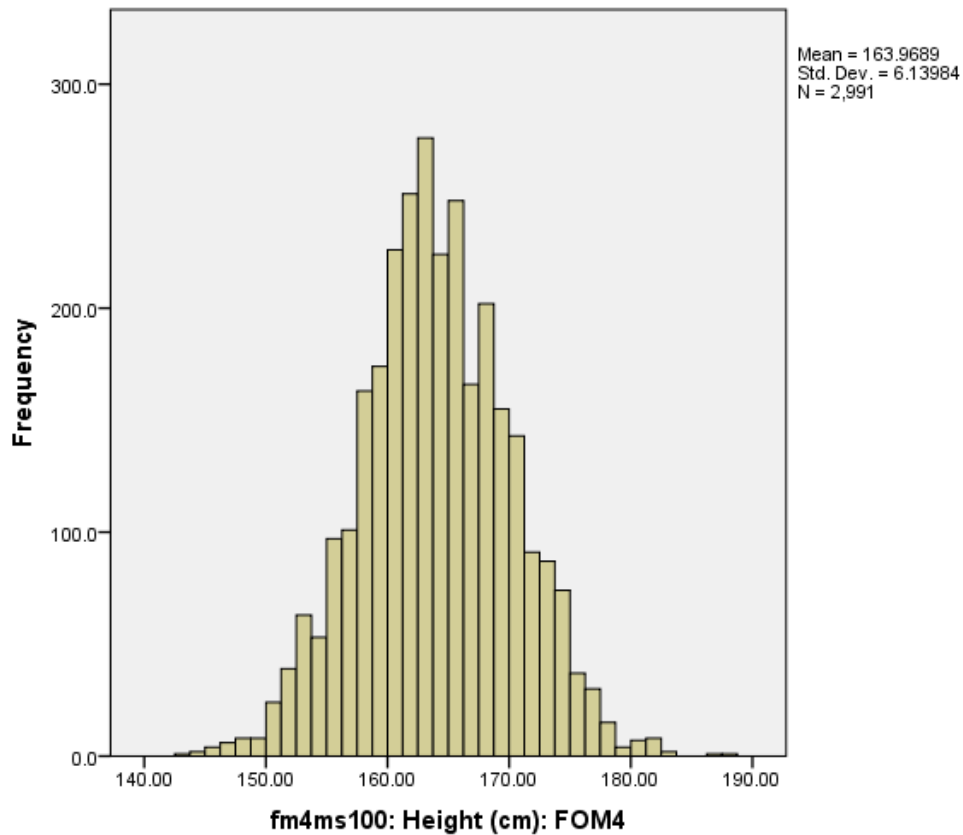
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3	.0	.1	.1
	2 No	2992	20.4	99.9	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

Women were asked whether they had a pacemaker. Those who did could not use the electronic TANITA scales and were instead weighed using standard bathroom scales.

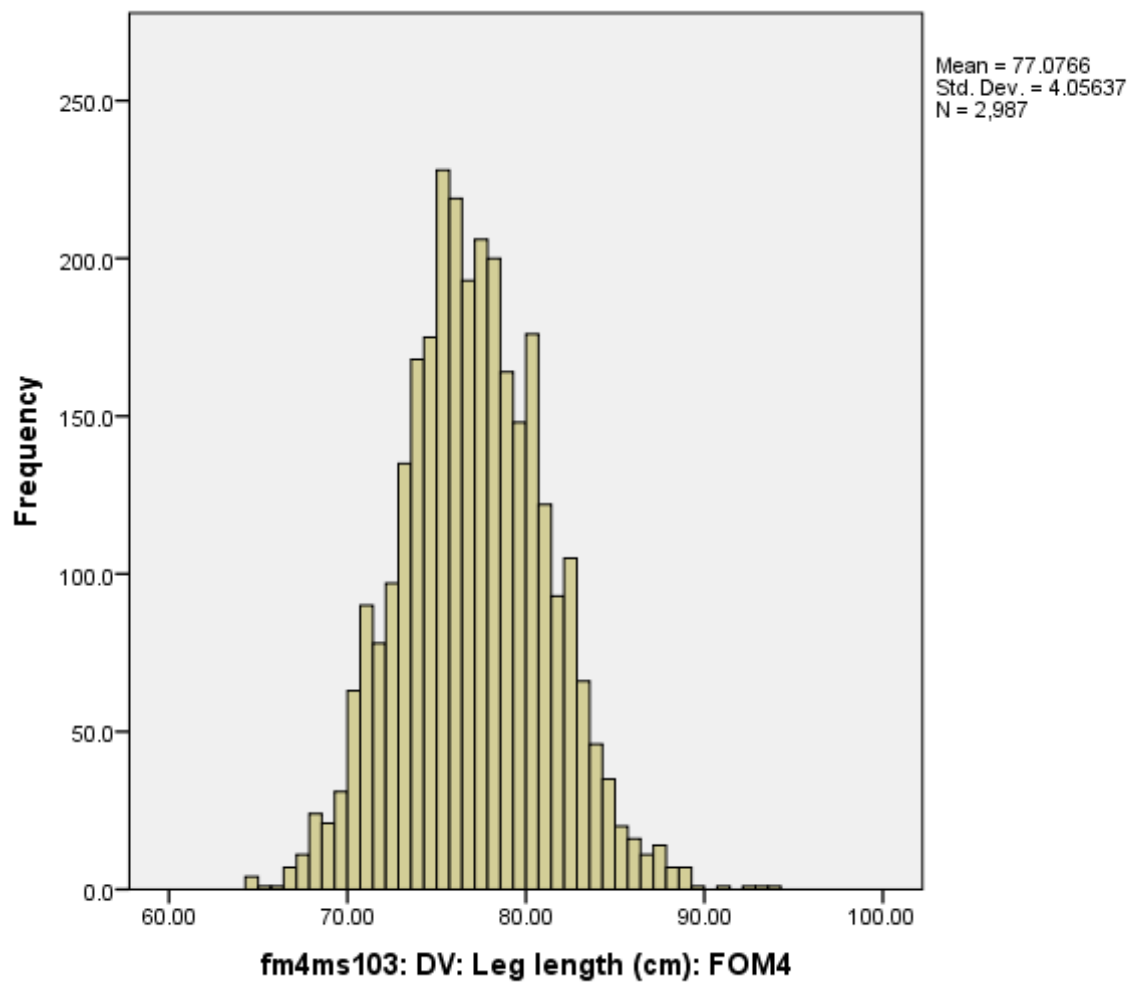
fm4ms105 Pacemaker fitted: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	24	.2	.8	.8
	2 No	2969	20.2	99.2	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

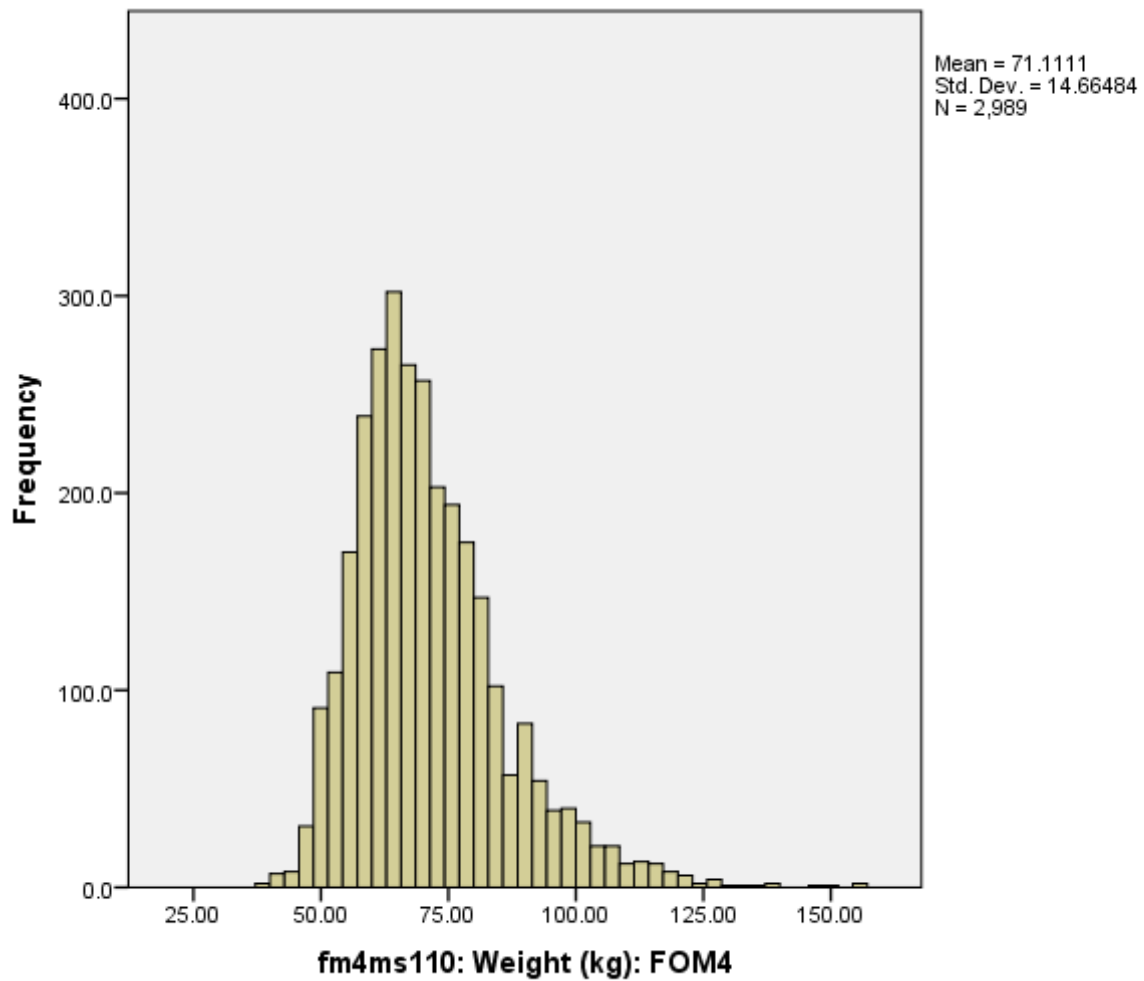
Standing and sitting height was measured using a Harpenden stadiometer and recorded to the nearest 1mm.



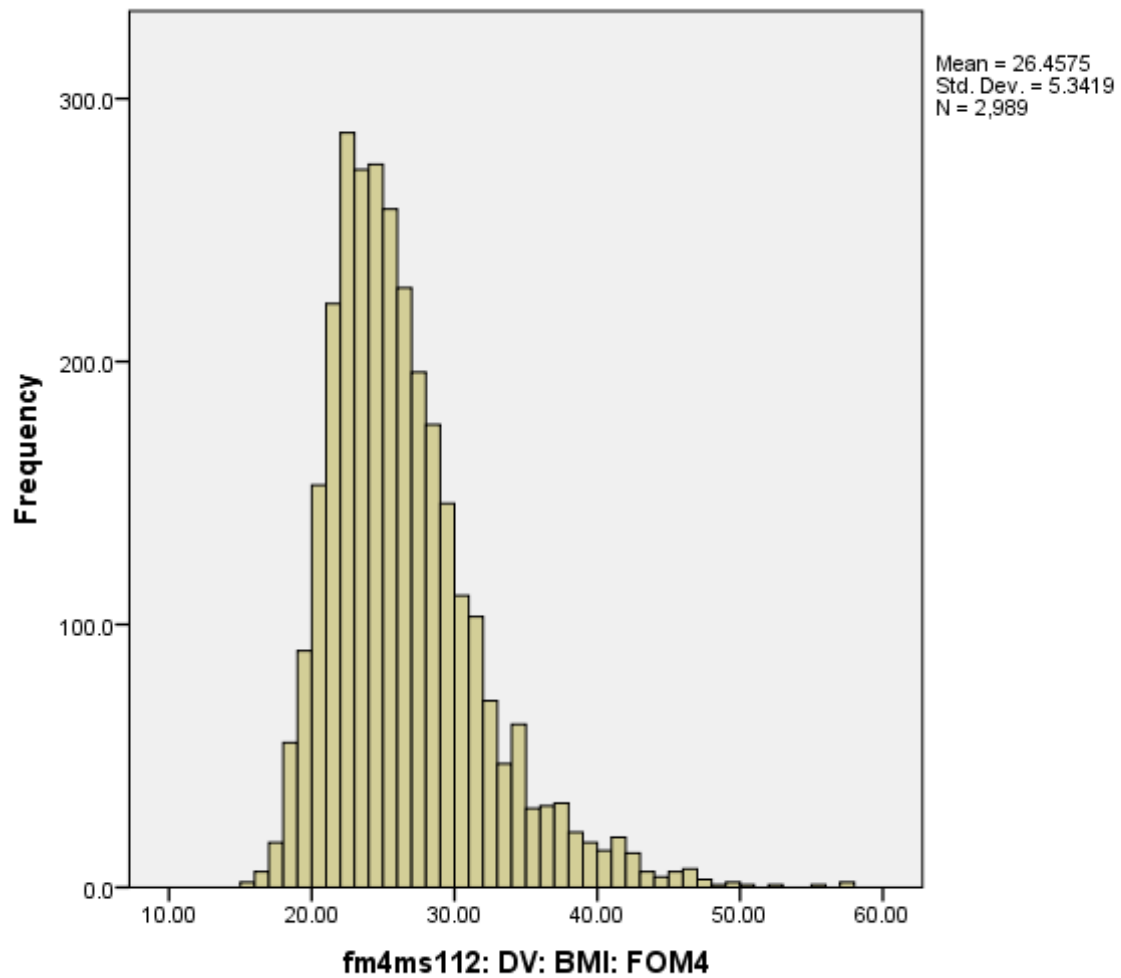
Derived variable: Leg length calculated as the difference between standing height and sitting height (fm4ms100 – fm4ms101).



Where the participant had no pacemaker, weight was measured using TANITA scales (TBF401-A) and recorded to the nearest 0.1 kg (else standard bathroom scales were used).

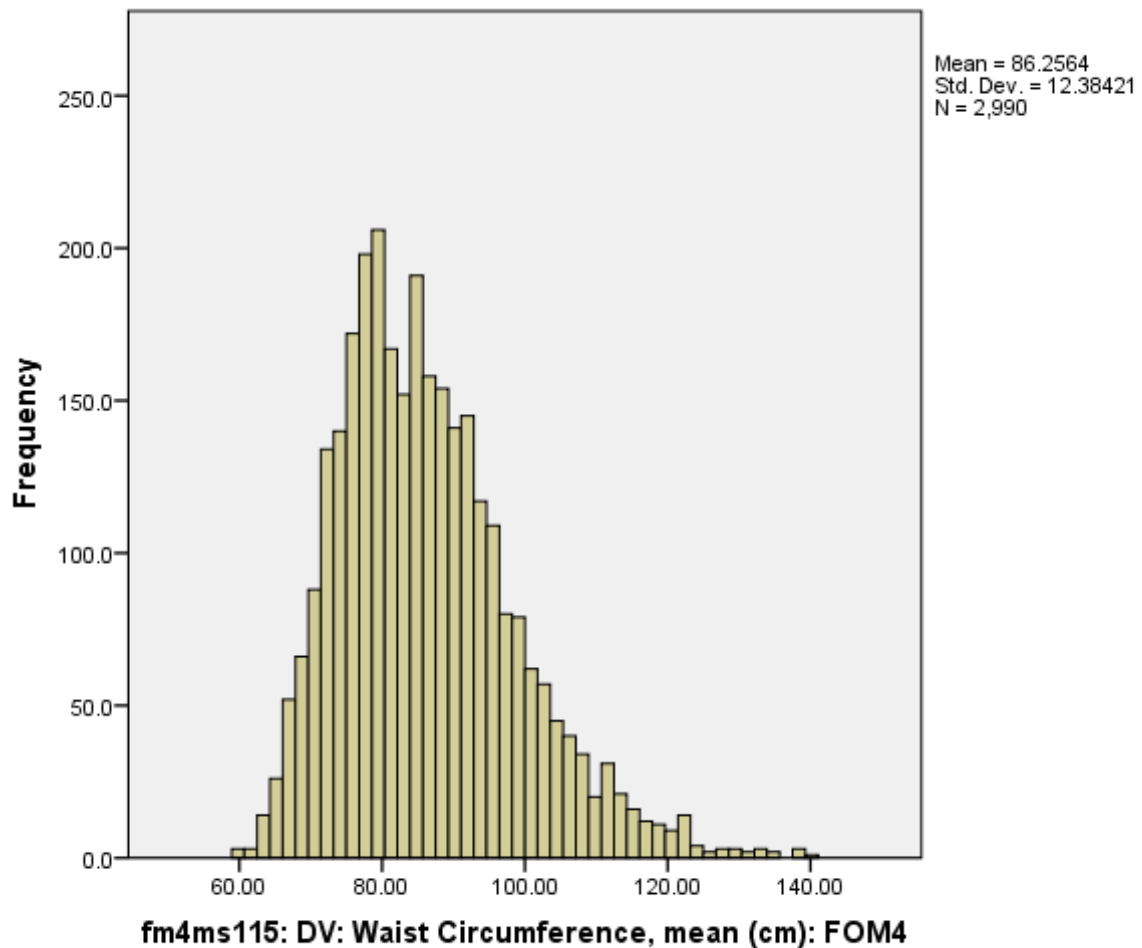


Derived variable: BMI calculated as [weight (kg)] / [height (m)²].
fm4ms112 = fm4ms110/((fm4ms100/100) * (fm4ms100/100)).



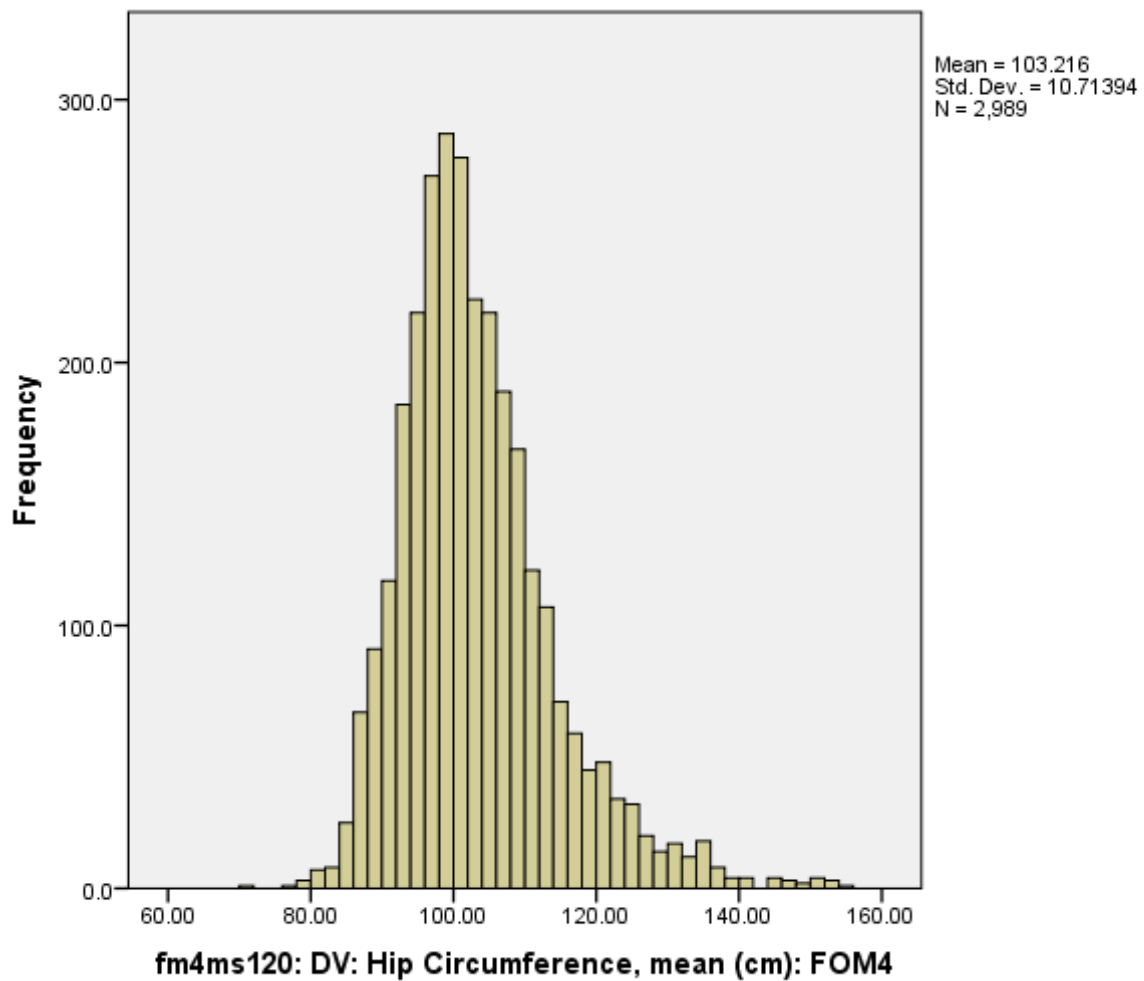
Waist circumference was measured using Seca 200 body tension tape. It was measured twice and recorded to the nearest 1mm. The two measures for waist circumference are variables fm4ms115a and fm4ms115b.

Derived variable (fm4ms115): mean of these two measures: $(fm4ms115a + fm4ms115b)/2$. [If only one measure was taken, that one was used].



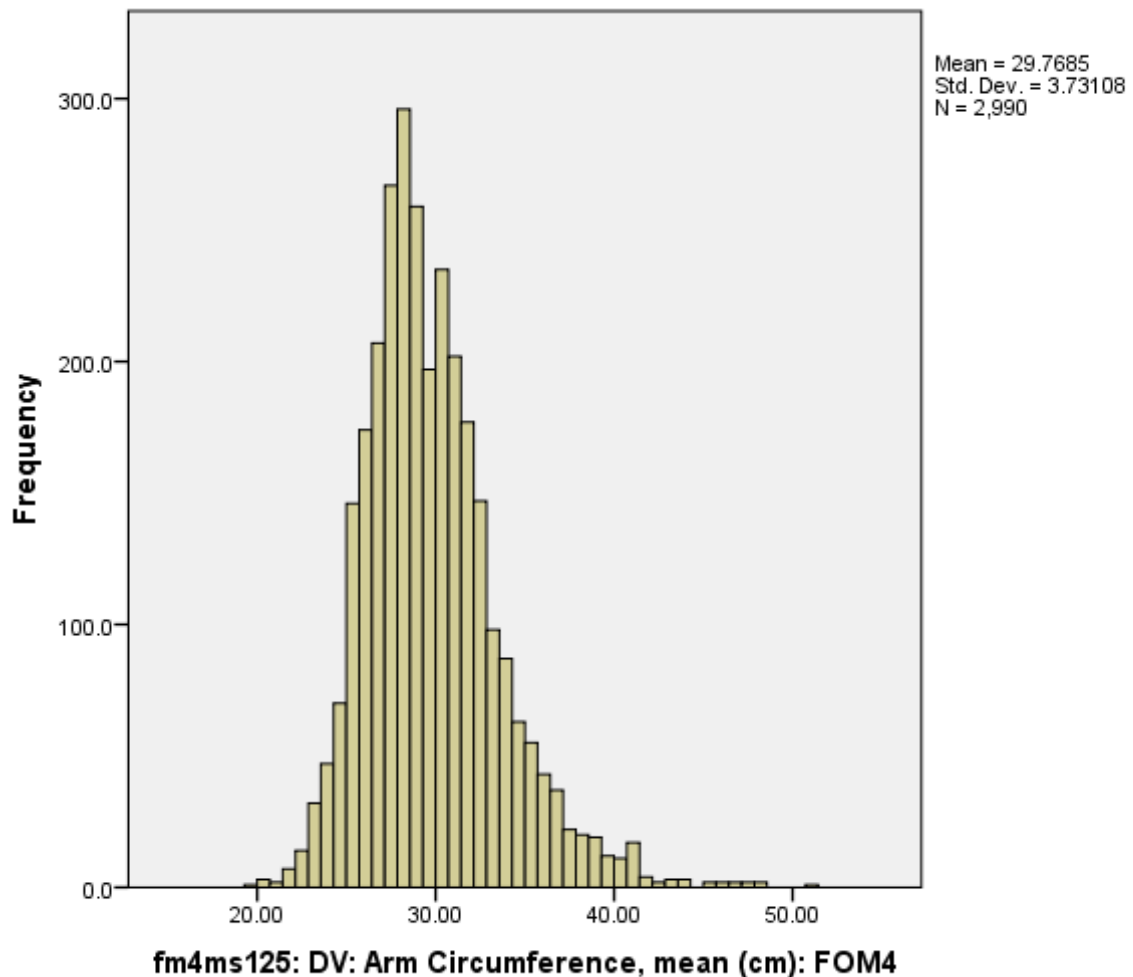
Hip circumference was measured using Seca 200 body tension tape. It was measured twice and recorded to the nearest 1mm. The two measures for waist circumference are variables fm4ms120a and fm4ms120b.

Derived variable (fm4ms120): mean of these two measures: $(fm4ms120a + fm4ms120b)/2$. [If only one measure was taken, that one was used].

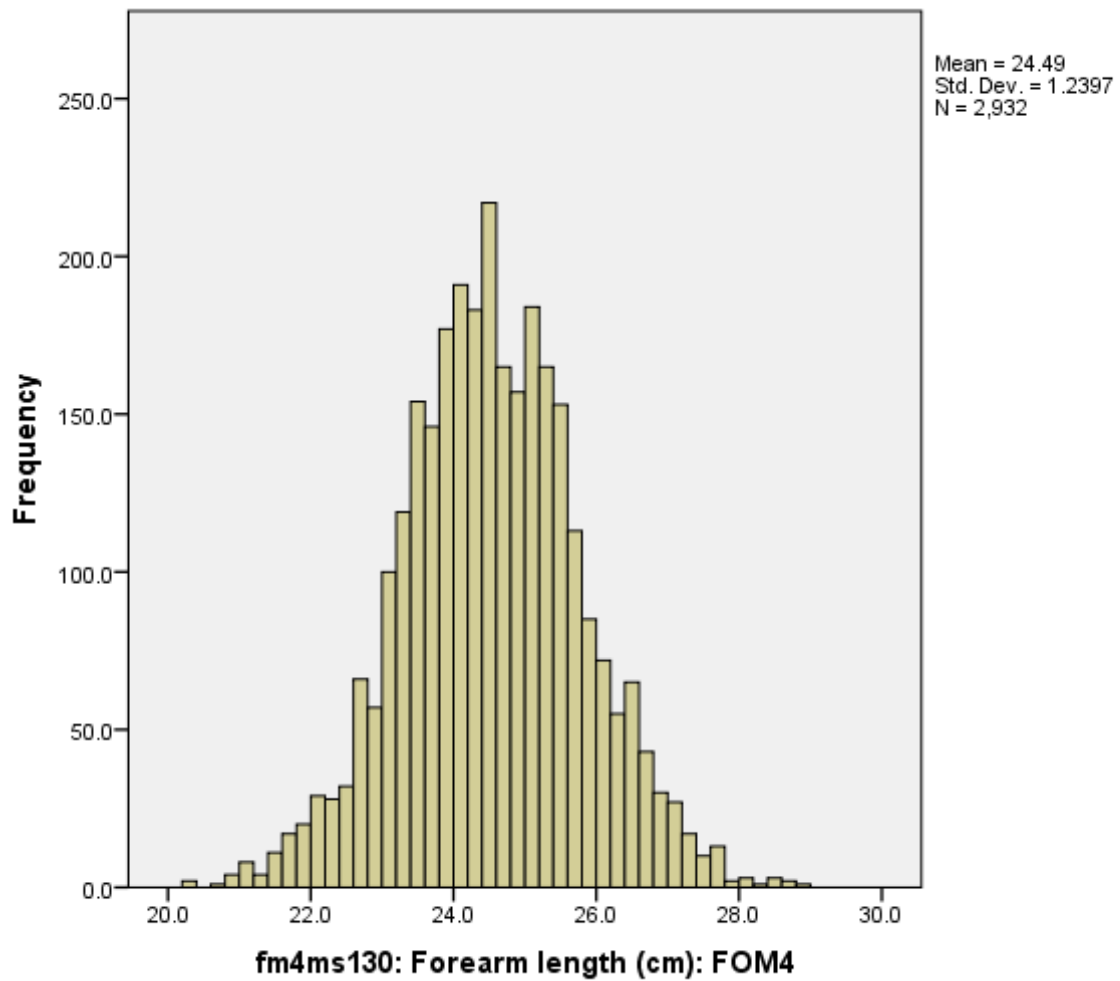


Arm circumference was measured using Seca 200 body tension tape. It was measured once and recorded to the nearest 1mm. The two measures for arm circumference are variables fm4ms125a and fm4ms125b.

Derived variable (fm4ms125): mean of these two measures: $(fm4ms125a + fm4ms125b)/2$. [If only one measure was taken, that one was used].



Forearm length was measured during the pQCT scanning session (see below), but is included here as an anthropometric variable. It was measured once and recorded to the nearest 1mm.



2.3 DXA

Fat mass, muscle mass and bone density were assessed using Dual Emission X-ray Absorptiometry (DXA: Lunar Prodigy). A total body DXA scan was performed using a Lunar prodigy narrow fan beam densitometer. Before the woman was scanned she was asked if she could be pregnant. If she was, then the scan was not performed. Note that variables with the code 'dx' (e.g., fm4dx020) relate to the full body DXA scan, while variables with the code 'hdx' (e.g., fm4hdx061) relate to the DXA scan focusing specifically on participants' hips.

Please also note the following regarding the cleaning of the DXA data. The raw scans were not routinely checked for artefacts, alignment issues or other errors. To assess the integrity of the DXA data, each variable in the export of the raw data was checked for outliers which fell outside the main distribution (identified using histograms). Additionally, for full body DXA scans the 'expected weight' (based on DXA values) was compared against the mother's weight from the anthropometry session; any cases where the DXA weight was two kilograms or more lighter than the anthropometric weight were also noted (as this may reflect a substantial proportion of the body being outside the DXA scanner area). All of these cases were noted and the raw DXA scans checked for artefacts, alignment issues or other anomalies. If found, a short description of the problem was noted. This was conducted separately for the full body and the hip scans.

Where any anomalies on the scan were noted, these were categorised and derived variables created to describe the issue (e.g., arm(s) outside of scan area; alignment issues; white masses on chest (breast implant(s)); miscellaneous; etc.). A derived variable highlighting cases where *any* issues were identified was also created. For the full body DXA scan, these are variables fm4dx990 to fm4dx995; while for the hip DXA scan these are variables fm4hdx990 to fm4hdx994.

Note also that for cases with an 'issues' flag, this may not apply to the whole scan, but only for specific measures. For instance, someone with their arms outside the scan area will obviously have erroneous arm values, but all other variables are likely to be sensible. Similarly, for the hip scan, an individual who has geometry issues may be fine for all other hip variables.

On a related topic, hip geometry values (CSMI, CSA, etc.) are likely to carry greater error than other DXA variables, given their high dependency on accurate detection of anatomical landmarks. Any corrected results obtained in the future, following manual inspection of scans, will be added to the release file.

It is also important to note that during this process not all DXA scans were checked, so other, potentially more subtle, issues may have been overlooked. For instance, scans with only minor alignment issues, or with arms only marginally outside of the

scan area, are unlikely to have been picked up. ALSPAC are hoping to make the raw DXA scans available for researchers at a later date, so that researchers can explore the raw scans themselves (although additional costs may be involved: please refer to the ALSPAC access policy for further details).

As a consequence of these limitations, we advise researchers to explore the DXA data carefully and use their expertise when deciding which data to use.

fm4dx001 Consent given for DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2974	20.3	99.3	99.3
	2 No	21	.1	.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4dx002 Consent given to be informed if low BMD on DXA: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2928	20.0	97.8	97.8
	2 No	67	.5	2.2	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4dx002a Consent for DXA scan withdrawn: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5	.0	.2	.2
	2 No	2990	20.4	99.8	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4dx005 DXA fieldworker: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	161	1.1	5.4	5.4
	2	131	.9	4.4	9.7
	3	325	2.2	10.9	20.6
	4	314	2.1	10.5	31.1
	5	123	.8	4.1	35.2
	6	116	.8	3.9	39.1
	7	295	2.0	9.8	48.9
	8	117	.8	3.9	52.8
	9	264	1.8	8.8	61.6
	10	114	.8	3.8	65.4
	11	5	.0	.2	65.6
	12	363	2.5	12.1	77.7
	13	290	2.0	9.7	87.4
	14	164	1.1	5.5	92.9
	15	5	.0	.2	93.1
	16	35	.2	1.2	94.2
	19	77	.5	2.6	96.8
	20	49	.3	1.6	98.4
	21	39	.3	1.3	99.7
	22	8	.1	.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4dx010 DXA scan done: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2962	20.2	99.3	99.3
	2 No	22	.1	.7	100.0
	Total	2984	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	11	.1		
	Total	11691	79.7		
Total		14675	100.0		

fm4dx011 Reason DXA scan not done: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Participant reasons	20	.1	90.9	90.9
	2 Equipment/clinic facilities reasons	2	.0	9.1	100.0
	Total	22	.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2973	20.3		
	Total	14653	99.9		
Total		14675	100.0		

fm4dx013 Room for DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	1345	9.2	45.4	45.4
	2	1620	11.0	54.6	100.0
	Total	2965	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	30	.2		
	Total	11710	79.8		
Total		14675	100.0		

fm4dx015 DXA - possibly pregnant: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5	.0	.2	.2
	2 No	2984	20.3	99.8	100.0
	Total	2989	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	6	.0		
	Total	11686	79.6		
Total		14675	100.0		

fm4dx018 Type of DXA scan done: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Standard	2667	18.2	90.0	90.0
	2 Thick	295	2.0	10.0	100.0
	Total	2962	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	33	.2		
	Total	11713	79.8		
Total		14675	100.0		

The following variables are based upon the full-body DXA scan (fm4dx020 to fm4dx501).

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
fm4dx020 Total Fat Mass (g): FOM4	2934	7370.79	80982.01	27829.2302	10436.12143
fm4dx021 Total Lean Mass (g): FOM4	2934	24791.22	66256.02	41102.7536	5300.63214
fm4dx030 Total BMD (g/cm ²): FOM4	2933	.83	1.60	1.1916	.11724
fm4dx031 Total BMC (g): FOM4	2933	1415.98	3620.10	2332.2706	315.08054
fm4dx035 Total Area (cm ²): FOM4	2933	1498.65	2386.44	1953.9262	139.81659
fm4dx036 Total Bone Mass (g): FOM4	2934	1415.98	3620.10	2332.5033	315.41017
fm4dx050 Head BMD (g/cm ²): FOM4	2933	1.54	3.94	2.4150	.31013
fm4dx051 Head BMC (g): FOM4	2933	272.93	877.52	515.7500	78.81992
fm4dx052 Head Area (cm ²): FOM4	2933	155.71	272.29	213.3252	14.41270
fm4dx101 Arm Left Bone Mass (g): FOM4	2859	6.85	223.46	143.1082	22.85771
fm4dx102 Arm Left Fat Mass (g): FOM4	2859	411.91	4464.23	1480.5671	491.78728
fm4dx103 Arm Left Lean Mass (g) : FOM4	2859	265.51	3779.42	1999.1895	365.92520
fm4dx104 Arm Right Bone Mass (g): FOM4	2859	11.72	234.81	147.6067	23.02899
fm4dx105 Arm Right Fat Mass (g): FOM4	2859	404.72	5308.57	1526.0410	516.16557
fm4dx106 Arm Right Lean Mass (g) : FOM4	2859	530.31	4359.57	2111.6459	373.31634
fm4dx107 Arms Bone Mass (g): FOM4	2934	96.80	450.78	290.6895	43.67436
fm4dx108 Arms Fat Mass (g): FOM4	2934	816.64	7201.01	3003.4759	984.11142
fm4dx109 Arms Lean Mass (g) : FOM4	2934	2089.60	7603.72	4110.2619	701.58990
fm4dx110 Leg Left Bone Mass (g): FOM4	2859	250.11	641.56	418.5917	61.81703
fm4dx111 Leg Left Fat Mass (g): FOM4	2859	1575.23	17651.95	4892.6813	1762.72579
fm4dx112 Leg Left Lean Mass (g): FOM4	2859	3536.15	13765.28	6697.5887	1117.61946
fm4dx113 Leg Right Bone Mass (g): FOM4	2859	248.77	662.42	422.8764	61.53952
fm4dx114 Leg Right Fat Mass (g): FOM4	2859	1634.73	17344.54	4956.5724	1798.79268
fm4dx115 Leg Right Lean Mass (g): FOM4	2859	3746.92	14296.20	6771.9521	1123.20843
fm4dx116 Legs Bone Mass (g): FOM4	2934	433.24	1294.06	841.0578	122.40590
fm4dx117 Legs Fat Mass (g): FOM4	2934	3215.24	34321.61	9839.4664	3564.87580
fm4dx118 Legs Lean Mass (g): FOM4	2934	7344.77	28061.48	13461.4042	2218.29942
fm4dx119 Trunk Left Bone Mass (g): FOM4	2859	148.85	643.61	338.6214	65.19635
fm4dx120 Trunk Left Fat Mass (g): FOM4	2859	858.98	23199.80	7139.6792	3280.24090
fm4dx121 Trunk Left Lean Mass (g): FOM4	2859	6546.66	18053.63	10564.8574	1361.29919
fm4dx122 Trunk Right Bone Mass (g): FOM4	2859	155.54	658.61	346.7656	66.63210
fm4dx123 Trunk Right Fat Mass (g): FOM4	2859	968.81	23347.08	7017.8720	3188.79197
fm4dx124 Trunk Right Lean Mass (g): FOM4	2859	6186.99	16212.33	10072.4425	1331.59133
fm4dx125 Trunk Bone Mass (g): FOM4	2934	319.59	1221.24	684.9888	128.25153
fm4dx126 Trunk Fat Mass (g): FOM4	2934	1874.79	45487.50	14135.5130	6429.37601
fm4dx127 Trunk Lean Mass (g): FOM4	2934	12733.64	33028.47	20627.5530	2618.37992
fm4dx128 Total Left Bone Mass (g): FOM4	2859	652.20	1764.67	1136.1347	160.70362
fm4dx129 Total Left Fat Mass (g) : FOM4	2859	3443.28	39722.64	13907.3879	5236.93035
fm4dx130 Total Left Lean Mass (g): FOM4	2859	12394.05	32036.01	20591.3885	2666.80503
fm4dx131 Total Right Bone Mass (g): FOM4	2859	762.41	1855.42	1197.3354	170.01483
fm4dx132 Total Right Fat Mass (g): FOM4	2859	3703.07	41259.36	13957.2787	5212.67054
fm4dx133 Total Right Lean Mass (g): FOM4	2859	12397.18	34225.85	20531.0457	2697.67953
fm4dx137 Android Bone Mass (g): FOM4	2934	19.73	111.49	47.4521	10.55619
fm4dx138 Android Fat Mass (g): FOM4	2934	179.05	7687.98	2291.0717	1221.46801
fm4dx139 Android Lean Mass (g): FOM4	2934	1920.77	5323.99	3075.7213	444.65256
fm4dx140 Gynoid Bone Mass (g): FOM4	2934	92.95	461.63	222.7384	36.75209
fm4dx141 Gynoid Fat Mass (g): FOM4	2934	1347.96	14326.83	4882.7454	1668.68644
fm4dx142 Gynoid Lean Mass (g): FOM4	2934	3544.35	10043.65	6299.1560	868.44938
fm4dx204 Arms BMD (g/cm ²): FOM4	2933	.57	1.28	.9174	.09538
fm4dx205 Arms BMC (g): FOM4	2933	96.80	450.78	290.6961	43.70344
fm4dx206 Arms Area (cm ²): FOM4	2933	111.74	502.48	317.3343	38.48288
fm4dx207 Legs BMD (g/cm ²): FOM4	2933	.82	1.53	1.1732	.11616
fm4dx208 Legs BMC (g): FOM4	2933	433.24	1294.06	840.9046	122.23305
fm4dx209 Legs Area (cm ²): FOM4	2933	453.93	948.12	715.6793	64.27982
fm4dx210 Trunk BMD (g/cm ²): FOM4	2933	.61	1.44	.9629	.12252
fm4dx211 Trunk BMC (g): FOM4	2933	319.59	1221.24	684.9199	128.19227
fm4dx212 Trunk Area (cm ²): FOM4	2933	478.19	963.80	707.5874	64.37683
fm4dx213 Ribs BMD (g/cm ²): FOM4	2933	.47	1.42	.7578	.10185
fm4dx214 Ribs BMC (g): FOM4	2933	80.05	555.63	200.9428	49.47319
fm4dx215 Ribs Area (cm ²): FOM4	2933	154.07	417.33	262.3012	35.58153

fm4dx216 Pelvis BMD (g\cm ²): FOM4	2933	.58	1.63	1.0568	.14704
fm4dx217 Pelvis BMC (g): FOM4	2933	100.84	617.43	295.1150	56.20829
fm4dx218 Pelvis Area (cm ²): FOM4	2933	171.58	469.79	278.3580	28.67066
fm4dx219 Spine BMD (g\cm ²): FOM4	2933	.67	1.91	1.1243	.16619
fm4dx220 Spine BMC (g): FOM4	2933	79.20	389.11	188.8621	39.79622
fm4dx221 Spine Area (cm ²): FOM4	2933	97.45	241.10	166.9281	16.77281
fm4dx251 Arm Left BMD (g\cm ²): FOM4	2858	.58	1.26	.9114	.09811
fm4dx252 Arm Left BMC (g): FOM4	2858	6.85	223.46	143.1090	22.86730
fm4dx253 Arm Left Area (cm ²): FOM4	2858	6.17	250.43	157.3480	20.98572
fm4dx254 Arm Right BMD (g\cm ²): FOM4	2858	.55	1.29	.9240	.09778
fm4dx255 Arm Right BMC (g): FOM4	2858	11.72	234.81	147.6127	23.04747
fm4dx256 Arm Right Area (cm ²): FOM4	2858	9.36	259.00	159.9874	20.30542
fm4dx257 Leg Left BMD (g\cm ²): FOM4	2858	.82	1.54	1.1694	.11779
fm4dx258 Leg Left BMC (g): FOM4	2858	250.11	641.56	418.5216	61.73621
fm4dx259 Leg Left Area (cm ²): FOM4	2858	242.37	480.44	357.3315	32.52877
fm4dx260 Leg Right BMD (g\cm ²): FOM4	2858	.79	1.55	1.1778	.11705
fm4dx261 Leg Right BMC (g): FOM4	2858	248.77	662.42	422.7895	61.44541
fm4dx262 Leg Right Area (cm ²): FOM4	2858	228.93	469.52	358.4442	32.37935
fm4dx263 Trunk Left BMD (g\cm ²): FOM4	2858	.61	1.46	.9523	.12348
fm4dx264 Trunk Left BMC (g): FOM4	2858	148.85	643.61	338.6078	65.17583
fm4dx265 Trunk Left Area (cm ²): FOM4	2858	224.74	513.99	353.6598	34.40662
fm4dx266 Trunk Right BMD (g\cm ²): FOM4	2858	.61	1.45	.9743	.12515
fm4dx267 Trunk Right BMC (g): FOM4	2858	155.54	658.61	346.7086	66.59496
fm4dx268 Trunk Right Area (cm ²): FOM4	2858	235.32	498.01	353.9799	34.83981
fm4dx269 Total Left BMD (g\cm ²): FOM4	2858	.82	1.62	1.1744	.11882
fm4dx270 Total Left BMC (g): FOM4	2858	652.20	1764.67	1136.0580	160.57742
fm4dx271 Total Left Area (cm ²): FOM4	2858	718.09	1209.92	965.3734	72.66890
fm4dx272 Total Right BMD (g\cm ²): FOM4	2858	.79	1.66	1.2083	.12149
fm4dx273 Total Right BMC (g): FOM4	2858	762.41	1855.42	1197.1736	169.80337
fm4dx274 Total Right Area (cm ²): FOM4	2858	738.21	1245.66	988.7289	74.96865
fm4dx300 Arms Tissue Mass (g): FOM4	2934	3789.77	14000.93	7113.7379	1502.38322
fm4dx301 Arm Right Tissue Mass (g): FOM4	2859	1172.76	9668.14	3637.6868	794.50557
fm4dx302 Arm Left Tissue Mass (g): FOM4	2859	678.68	7195.98	3479.7566	767.24252
fm4dx303 Legs Tissue Mass (g): FOM4	2934	11204.74	61222.52	23300.8705	5275.28661
fm4dx304 Leg Right Tissue Mass (g): FOM4	2859	5454.19	31640.74	11728.5245	2660.89571
fm4dx305 Leg Left Tissue Mass (g): FOM4	2859	5750.55	29581.78	11590.2700	2625.25391
fm4dx306 Trunk Tissue Mass (g): FOM4	2934	17080.35	74114.87	34763.0659	8097.73368
fm4dx307 Trunk Right Tissue Mass (g): FOM4	2859	8270.01	37380.79	17090.3145	4048.98236
fm4dx308 Trunk Left Tissue Mass (g): FOM4	2859	8473.76	40520.95	17704.5366	4135.05305
fm4dx309 Android Tissue Mass (g): FOM4	2934	2367.02	12365.17	5366.7930	1497.29672
fm4dx310 Gynoid Tissue Mass (g): FOM4	2934	5689.57	23194.01	11181.9014	2272.38748
fm4dx311 Total Tissue Mass (g): FOM4	2934	37489.42	147238.03	68931.9838	14276.27963
fm4dx312 Total Right Tissue Mass (g): FOM4	2859	18507.68	75479.37	34488.3244	7179.77543
fm4dx313 Total Left Tissue Mass (g): FOM4	2859	18981.74	71758.65	34498.7765	7146.66095
fm4dx320 Arms Fat Free Mass (g): FOM4	2934	2333.61	7944.13	4400.9515	727.38695
fm4dx321 Arm Right Fat Free Mass (g): FOM4	2859	542.03	4554.92	2259.2526	387.33100
fm4dx322 Arm Left Fat Free Mass (g): FOM4	2859	272.36	3960.00	2142.2977	379.65516
fm4dx323 Legs Fat Free Mass (g): FOM4	2934	7934.21	29100.98	14302.4619	2304.57962
fm4dx324 Leg Right Fat Free Mass (g): FOM4	2859	4006.58	14826.88	7194.8286	1165.80233
fm4dx325 Leg Left Fat Free Mass (g): FOM4	2859	3822.84	14274.10	7116.1803	1160.97399
fm4dx326 Trunk Fat Free Mass (g): FOM4	2934	13114.54	34047.41	21312.5418	2705.96311
fm4dx327 Trunk Right Fat Free Mass (g): FOM4	2859	6386.77	16725.17	10419.2081	1376.96027
fm4dx328 Trunk Left Fat Free Mass (g): FOM4	2859	6727.77	18599.81	10903.4788	1404.82024
fm4dx329 Android Fat Free Mass (g): FOM4	2934	1940.50	5401.85	3123.1734	450.35225
fm4dx330 Gynoid Fat Free Mass (g): FOM4	2934	3677.50	10327.62	6521.8944	895.57487
fm4dx331 Total Fat Free Mass (g): FOM4	2934	26393.17	68980.87	43435.2569	5528.84772
fm4dx332 Total Right Fat Free Mass (g): FOM4	2859	13207.62	35997.15	21728.3811	2819.80059
fm4dx333 Total Left Fat Free Mass (g): FOM4	2859	13185.55	33247.39	21727.5232	2780.67158
fm4dx340 Arms Total Mass (g): FOM4	2934	4009.07	14341.34	7404.4274	1518.23495
fm4dx341 Arm Right Total Mass (g): FOM4	2859	1184.48	9863.49	3785.2936	803.58040
fm4dx342 Arm Left Total Mass (g): FOM4	2859	685.54	7376.57	3622.8648	776.48796
fm4dx343 Legs Total Mass (g): FOM4	2934	11858.92	62262.02	24141.9283	5337.80173
fm4dx344 Leg Right Total Mass (g): FOM4	2859	5785.82	32171.42	12151.4009	2691.85731
fm4dx345 Leg Left Total Mass (g): FOM4	2859	6073.10	30090.60	12008.8617	2657.08215
fm4dx346 Trunk Total Mass (g): FOM4	2934	17399.94	75109.63	35448.0547	8183.08362
fm4dx347 Trunk Right Total Mass (g): FOM4	2859	8425.55	37972.51	17437.0800	4093.62316
fm4dx348 Trunk Left Total Mass (g): FOM4	2859	8658.10	41021.01	18043.1580	4177.43222

fm4dx349 Android Total Mass (g): FOM4	2934	2398.29	12443.03	5414.2451	1502.46573
fm4dx350 Gynoid Total Mass (g): FOM4	2934	5870.96	23536.15	11404.6398	2293.91997
fm4dx351 Total Total Mass (g): FOM4	2934	39301.52	149962.87	71264.4871	14442.37269
fm4dx352 Total Right Total Mass (g): FOM4	2859	19403.17	76992.84	35685.6598	7270.03308
fm4dx353 Total Left Total Mass (g): FOM4	2859	19768.80	72970.03	35634.9112	7227.11800
fm4dx360 Arms Region Fat (g): FOM4	2934	.16	.63	.3982	.06442
fm4dx361 Arm Right Region Fat (g): FOM4	2859	.15	.64	.3957	.06531
fm4dx362 Arm Left Region Fat (g): FOM4	2859	.16	.63	.4015	.06474
fm4dx363 Legs Region Fat (g): FOM4	2934	.20	.66	.3985	.06222
fm4dx364 Leg Right Region Fat (g): FOM4	2859	.20	.67	.3989	.06267
fm4dx365 Leg Left Region Fat (g): FOM4	2859	.20	.65	.3985	.06221
fm4dx366 Trunk Region Fat (g): FOM4	2934	.08	.65	.3817	.09365
fm4dx367 Trunk Right Region Fat (g): FOM4	2859	.08	.65	.3853	.09341
fm4dx368 Trunk Left Region Fat (g): FOM4	2859	.08	.65	.3786	.09442
fm4dx369 Android Region Fat (g): FOM4	2934	.06	.71	.3979	.11393
fm4dx370 Gynoid Region Fat (g): FOM4	2934	.18	.68	.4187	.06647
fm4dx371 Total Region Fat (g): FOM4	2934	.14	.61	.3796	.07108
fm4dx372 Total Right Region Fat (g): FOM4	2859	.14	.62	.3804	.07052
fm4dx373 Total Left Region Fat (g): FOM4	2859	.14	.61	.3793	.07184
fm4dx380 Arms Tissue Fat (g): FOM4	2934	.17	.64	.4146	.06478
fm4dx381 Arm Right Tissue Fat (g): FOM4	2859	.16	.65	.4118	.06576
fm4dx382 Arm Left Tissue Fat (g): FOM4	2859	.17	.64	.4181	.06512
fm4dx383 Legs Tissue Fat (g): FOM4	2934	.21	.67	.4130	.06244
fm4dx384 Leg Right Tissue Fat (g): FOM4	2859	.21	.68	.4133	.06291
fm4dx385 Leg Left Tissue Fat (g): FOM4	2859	.21	.67	.4130	.06247
fm4dx386 Trunk Tissue Fat (g): FOM4	2934	.08	.66	.3892	.09476
fm4dx387 Trunk Right Tissue Fat (g): FOM4	2859	.08	.66	.3931	.09455
fm4dx388 Trunk Left Tissue Fat (g): FOM4	2859	.08	.66	.3858	.09551
fm4dx389 Android Tissue Fat (g): FOM4	2934	.06	.71	.4014	.11444
fm4dx390 Gynoid Tissue Fat (g): FOM4	2934	.18	.70	.4271	.06683
fm4dx391 Total Tissue Fat (g): FOM4	2934	.15	.63	.3924	.07180
fm4dx392 Total Right Tissue Fat (g): FOM4	2859	.15	.63	.3935	.07126
fm4dx393 Total Left Tissue Fat (g): FOM4	2859	.15	.62	.3918	.07253
fm4dx500 Total T score: FOM4	2933	-2.47	5.14	1.1012	1.16182
fm4dx501 Total Z score: FOM4	2927	-1.91	4.82	1.3657	.99879

fm4dx990 DV: Arm(s) out of full body DXA scan area: FOM4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
1 Yes	59	.4	2.0	2.0
2 No	2936	20.0	98.0	100.0
Total	2995	20.4	100.0	
Missing				
-11 Mother of trip/quad	1	.0		
-10 Did not attend clinic	11679	79.6		
Total	11680	79.6		
Total	14675	100.0		

fm4dx991 DV: Alignment issues in the full body DXA scan: FOM4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
1 Yes	33	.2	1.1	1.1
2 No	2962	20.2	98.9	100.0
Total	2995	20.4	100.0	
Missing				
-11 Mother of trip/quad	1	.0		
-10 Did not attend clinic	11679	79.6		
Total	11680	79.6		
Total	14675	100.0		

fm4dx992 DV: Full body DXA image is grainy: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	2994	20.4	100.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4dx993 DV: White masses on chest (breast implant(s)): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	12	.1	.4	.4
	2 No	2983	20.3	99.6	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4dx994 DV: Miscellaneous error/artefact in full body DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	30	.2	1.0	1.0
	2 No	2965	20.2	99.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4dx995 DV: Any error/artefact noted in full body DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	84	.6	2.8	2.8
	2 No	2911	19.8	97.2	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

The following variables are based upon the hip DXA scan (fm4hdx060 to fm4hdx205).

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
fm4hdx060 Hip Total BMD (g\cm ²): FOM4	2922	.57	2.35	.9986	.14720
fm4hdx061 Hip Total BMC (g): FOM4	2922	14.77	66.10	31.3260	5.21172
fm4hdx062 Hip Total area (cm ²): FOM4	2922	14.75	42.35	31.3571	2.27949
fm4hdx065 Hip Total T Score: FOM4	2922	-3.55	11.28	-.0121	1.22669
fm4hdx066 Hip Total Z Score: FOM4	2916	-2.59	12.02	.3795	1.10318
fm4hdx070 Hip Troch BMD (g\cm ²): FOM4	2926	.37	1.26	.7973	.13260
fm4hdx071 Hip Troch BMC (g): FOM4	2926	.00	21.64	10.1083	2.40989
fm4hdx072 Hip Troch area (cm ²): FOM4	2926	.00	20.52	12.6131	1.75481
fm4hdx075 Hip Troch T Score: FOM4	2926	-3.85	4.29	.0663	1.20546
fm4hdx076 Hip Troch Z Score: FOM4	2920	-3.85	4.70	.2104	1.08267
fm4hdx080 Hip Wards BMD (g\cm ²): FOM4	2926	.00	3.04	.7818	.15869
fm4hdx081 Hip Wards BMC (g): FOM4	2926	.00	10.39	2.0223	.54451
fm4hdx082 Hip Wards area (cm ²): FOM4	2926	.00	8.99	2.5830	.42394
fm4hdx085 Hip Wards T Score: FOM4	2924	-4.08	16.37	-.9818	1.21092
fm4hdx086 Hip Wards Z Score: FOM4	2918	-2.89	17.77	-.0245	1.13281
fm4hdx090 Hip Shaft BMD (g\cm ²): FOM4	2922	.70	3.25	1.1944	.18135
fm4hdx091 Hip Shaft BMC (g) : FOM4	2922	9.92	45.52	16.6105	2.52078
fm4hdx092 Hip Shaft area (cm ²): FOM4	2922	8.87	17.71	13.9312	.81255
fm4hdx100 Cross-sectional moment of inertia (CSMI) (mm4): FOM4	2852	-6757.78	73182.86	9860.1513	2866.15769
fm4hdx101 Bone cross-sectional area (CSA) (mm2): FOM4	2852	4.44	304.55	144.4270	23.60399
fm4hdx102 Hip axis length (mm): FOM4	2840	15.86	127.66	105.0128	6.47582
fm4hdx103 Strength Index: FOM4	2850	.00	17.67	1.5149	.56663
fm4hdx108 Alpha (deg: Neck angle): FOM4	2852	-21.45	12.60	-1.9406	3.33235
fm4hdx109 Theta (deg: Neck angle): FOM4	2851	110.11	144.98	125.8184	4.11383
fm4hdx130 Hip Neck BMD (g\cm ²): FOM4	2926	.00	2.98	.9580	.14373
fm4hdx131 Hip Neck BMC (g\cm ²): FOM4	2926	.00	9.49	4.6038	.75379
fm4hdx132 Hip Neck Area (g\cm ²): FOM4	2926	.00	9.00	4.8073	.38779
fm4hdx135 Hip Neck T Score: FOM4	2925	-3.16	16.68	-.1802	1.18884
fm4hdx136 Hip Neck Z Score: FOM4	2919	-2.70	17.65	.4034	1.09537
fm4hdx140 Hip Upper Neck BMD (g\cm ²): FOM4	2925	.29	2.58	.7904	.15019
fm4hdx141 Hip Upper Neck BMC (g): FOM4	2925	.49	4.91	1.8647	.36645
fm4hdx142 Hip Upper Neck area (cm ²): FOM4	2925	.36	4.48	2.3633	.18886
fm4hdx145 Hip Upper Neck T Score: FOM4	2925	-4.40	14.62	-.2588	1.25159
fm4hdx146 Hip Upper Neck Z Score: FOM4	2919	-4.25	15.26	.3250	1.17428
fm4hdx150 Hip Lower Neck BMD (g\cm ²): FOM4	2925	.00	3.49	1.1202	.15000
fm4hdx151 Hip Lower Neck BMC (g): FOM4	2925	.00	5.44	2.7410	.41695
fm4hdx152 Hip Lower Neck area (cm ²): FOM4	2925	.11	4.51	2.4457	.18965
fm4hdx200 Hip cortical width neck: FOM4	2852	.00	13.78	5.7058	1.95521
fm4hdx201 Hip cortical ratio neck: FOM4	2852	.00	44.64	19.1440	6.47550
fm4hdx202 Hip cortical width calcar: FOM4	2852	.00	13.38	3.8936	1.10733
fm4hdx203 Hip cortical ratio calcar: FOM4	2852	.00	25.00	7.5585	2.08495
fm4hdx204 Hip cortical width shaft: FOM4	2852	.00	15.02	5.1183	1.35841
fm4hdx205 Hip cortical ratio shaft: FOM4	2852	.00	35.14	17.6248	4.33562

fm4hdx299 side of hip DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Left	2910	19.8	99.4	99.4
	2 Right	18	.1	.6	100.0
	Total	2928	20.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	67	.5		
	Total	11747	80.0		
Total		14675	100.0		

fm4hdx990 DV: Alignment issues in the hip DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	28	.2	.9	.9
	2 No	2967	20.2	99.1	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4hdx991 DV: Edge of hip missing from hip DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4	.0	.1	.1
	2 No	2991	20.4	99.9	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4hdx992 DV: All/some hip geometry measures coded as '0' for hip DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	67	.5	2.2	2.2
	2 No	2928	20.0	97.8	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4hdx993 DV: Miscellaneous error/artefact in hip DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	33	.2	1.1	1.1
	2 No	2962	20.2	98.9	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4hdx994 DV: Any error/artefact noted in hip DXA scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	80	.5	2.7	2.7
	2 No	2915	19.9	97.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

2.4 pQCT

Peripheral Quantitative Computerised Tomography (pQCT) arm scans were performed to measure bone density. However, as this data is currently being processed and is not ready for release it is not contained in this version of the release file.

fm4pq002 Consent for PQCT scan withdrawn: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	6	.0	.2	.2
	2 No	2989	20.4	99.8	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4pq004 Scanner used for PQCT scan: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	26	.2	.9	.9
	2	34	.2	1.2	2.0
	3	2893	19.7	98.0	100.0
	Total	2953	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	42	.3		
	Total	11722	79.9		
Total		14675	100.0		

fm4pg005 PQCT fieldworker: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	161	1.1	5.4	5.4
	2	129	.9	4.3	9.7
	3	322	2.2	10.8	20.4
	4	313	2.1	10.5	30.9
	5	124	.8	4.1	35.0
	6	118	.8	3.9	39.0
	7	298	2.0	9.9	48.9
	8	117	.8	3.9	52.8
	9	262	1.8	8.7	61.6
	10	113	.8	3.8	65.3
	11	5	.0	.2	65.5
	12	361	2.5	12.1	77.6
	13	292	2.0	9.7	87.3
	14	166	1.1	5.5	92.9
	15	6	.0	.2	93.1
	16	33	.2	1.1	94.2
	19	78	.5	2.6	96.8
	20	48	.3	1.6	98.4
	21	41	.3	1.4	99.7
	22	8	.1	.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4pg010 PQCT scan done: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2953	20.1	98.8	98.8
	2 No	35	.2	1.2	100.0
	Total	2988	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	7	.0		
	Total	11687	79.6		
Total		14675	100.0		

fm4pg011 Reason PQCT scan not done: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Participant reasons	29	.2	82.9	82.9
	2 Equipment/clinic facilities reasons	6	.0	17.1	100.0
	Total	35	.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2960	20.2		
	Total	14640	99.8		
Total		14675	100.0		

2.5 Samples

Written and verbal consent was required prior to taking blood.

All women were asked to fast overnight (if booked in for a morning appointment) or for at least 8 hours prior to their visit. The protocols followed by the fieldworkers for collecting blood are available on request. A list of medications currently being taken and allergies were also noted (appendix 4.3). This text data is available to researchers (although additional costs may be involved: please refer to the ALSPAC access policy for further details).

All blood assay results will be available in the mother's sample release file as data becomes available.

fm4sa001 Blood sample fieldworker: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	183	1.2	6.1	6.1
	2	143	1.0	4.8	10.9
	3	301	2.1	10.1	20.9
	4	315	2.1	10.5	31.5
	5	126	.9	4.2	35.7
	6	102	.7	3.4	39.1
	7	329	2.2	11.0	50.1
	8	108	.7	3.6	53.7
	9	264	1.8	8.8	62.5
	10	121	.8	4.0	66.5
	11	5	.0	.2	66.7
	12	369	2.5	12.3	79.0
	13	278	1.9	9.3	88.3
	14	139	.9	4.6	92.9
	15	7	.0	.2	93.2
	16	43	.3	1.4	94.6
	17	1	.0	.0	94.6
	19	71	.5	2.4	97.0
	20	51	.3	1.7	98.7
	21	31	.2	1.0	99.7
	22	8	.1	.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa005 Taking any form of anti-coagulant: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	29	.2	1.0	1.0
	2 No	2966	20.2	99.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa006 Any clotting/bleeding or are anaemic: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	45	.3	1.5	1.5
	2 No	2950	20.1	98.5	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa008 Taking insulin: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	28	.2	.9	.9
	2 No	2966	20.2	99.1	100.0
	Total	2994	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1	.0		
	Total	11681	79.6		
Total		14675	100.0		

fm4sa009 Participant eligible to give blood: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2950	20.1	98.5	98.5
	2 No	44	.3	1.5	100.0
	Total	2994	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1	.0		
	Total	11681	79.6		
Total		14675	100.0		

fm4sa009a Cell lines required: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2907	19.8	97.1	97.1
	2 No	88	.6	2.9	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa011 Consent to cell-line and DNA: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	50	.3	1.7	1.7
	2 No	2944	20.1	98.3	100.0
	Total	2994	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1	.0		
	Total	11681	79.6		
Total		14675	100.0		

fm4sa013 Consent to Haemoglobin test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2915	19.9	97.3	97.3
	2 No	80	.5	2.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa014 Consent to be informed if Haemoglobin low: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2882	19.6	96.2	96.2
	2 No	113	.8	3.8	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa015 Consent to glucose test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2915	19.9	97.3	97.3
	2 No	80	.5	2.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa016 Consent to be informed if glucose high: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2875	19.6	96.0	96.0
	2 No	120	.8	4.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa017 Consent to have lipids test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2915	19.9	97.3	97.3
	2 No	80	.5	2.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa018 Consent to be informed if lipids out of range: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2875	19.6	96.0	96.0
	2 No	120	.8	4.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa019 Consent to have blood sample stored for non-genetic research: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2905	19.8	97.0	97.0
	2 No	90	.6	3.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa019a Consent to have blood sample stored for genetic research: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2883	19.6	96.3	96.3
	2 No	112	.8	3.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa020 Consent to have hormones measured: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2914	19.9	97.3	97.3
	2 No	81	.6	2.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa025 Consent for bloods withdrawn: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	11	.1	.4	.4
	2 No	2984	20.3	99.6	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa050a Time last eaten (hour): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	33	.2	1.1	1.1
	1	9	.1	.3	1.4
	2	12	.1	.4	1.8
	3	4	.0	.1	2.0
	4	12	.1	.4	2.4
	5	105	.7	3.6	5.9
	6	177	1.2	6.0	11.9
	7	110	.7	3.7	15.6
	8	66	.4	2.2	17.9
	9	38	.3	1.3	19.2
	10	42	.3	1.4	20.6
	11	38	.3	1.3	21.9
	12	49	.3	1.7	23.5
	13	21	.1	.7	24.2
	14	13	.1	.4	24.7
	15	2	.0	.1	24.7
	16	2	.0	.1	24.8
	17	23	.2	.8	25.6
	18	114	.8	3.9	29.4
	19	261	1.8	8.8	38.3
	20	479	3.3	16.2	54.5
	21	558	3.8	18.9	73.4
	22	527	3.6	17.8	91.2
	23	260	1.8	8.8	100.0
	Total	2955	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	40	.3		
	Total	11720	79.9		
Total		14675	100.0		

fm4sa050b Time last eaten (minutes): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1869	12.7	63.2	63.2
	1	4	.0	.1	63.4
	3	1	.0	.0	63.4
	5	1	.0	.0	63.5
	9	2	.0	.1	63.5
	10	15	.1	.5	64.0
	11	2	.0	.1	64.1
	13	3	.0	.1	64.2
	14	1	.0	.0	64.2
	15	55	.4	1.9	66.1
	16	3	.0	.1	66.2
	18	1	.0	.0	66.2
	19	2	.0	.1	66.3
	20	16	.1	.5	66.8
	24	2	.0	.1	66.9
	25	2	.0	.1	67.0
	26	1	.0	.0	67.0
	27	1	.0	.0	67.0
	29	2	.0	.1	67.1
	30	786	5.4	26.6	93.7
	31	3	.0	.1	93.8
	32	1	.0	.0	93.8
	34	2	.0	.1	93.9
	40	12	.1	.4	94.3
	41	3	.0	.1	94.4
	43	1	.0	.0	94.5
	45	109	.7	3.7	98.1
	46	1	.0	.0	98.2
	48	1	.0	.0	98.2
	49	3	.0	.1	98.3
	50	18	.1	.6	98.9
	51	1	.0	.0	99.0
	53	1	.0	.0	99.0
	54	2	.0	.1	99.1
	55	19	.1	.6	99.7
	56	2	.0	.1	99.8
	59	7	.0	.2	100.0
	Total	2955	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	40	.3		
	Total	11720	79.9		
Total		14675	100.0		

fm4sa055 CPDA sample taken: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2960	20.2	98.8	98.8
	2 No	35	.2	1.2	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa057 Heparin sample taken: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	189	1.3	6.3	6.3
	2 No	2806	19.1	93.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa058 EDTA sample taken: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	183	1.2	6.1	6.1
	2 No	2812	19.2	93.9	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa060a Time blood sample taken (hour): FOM4

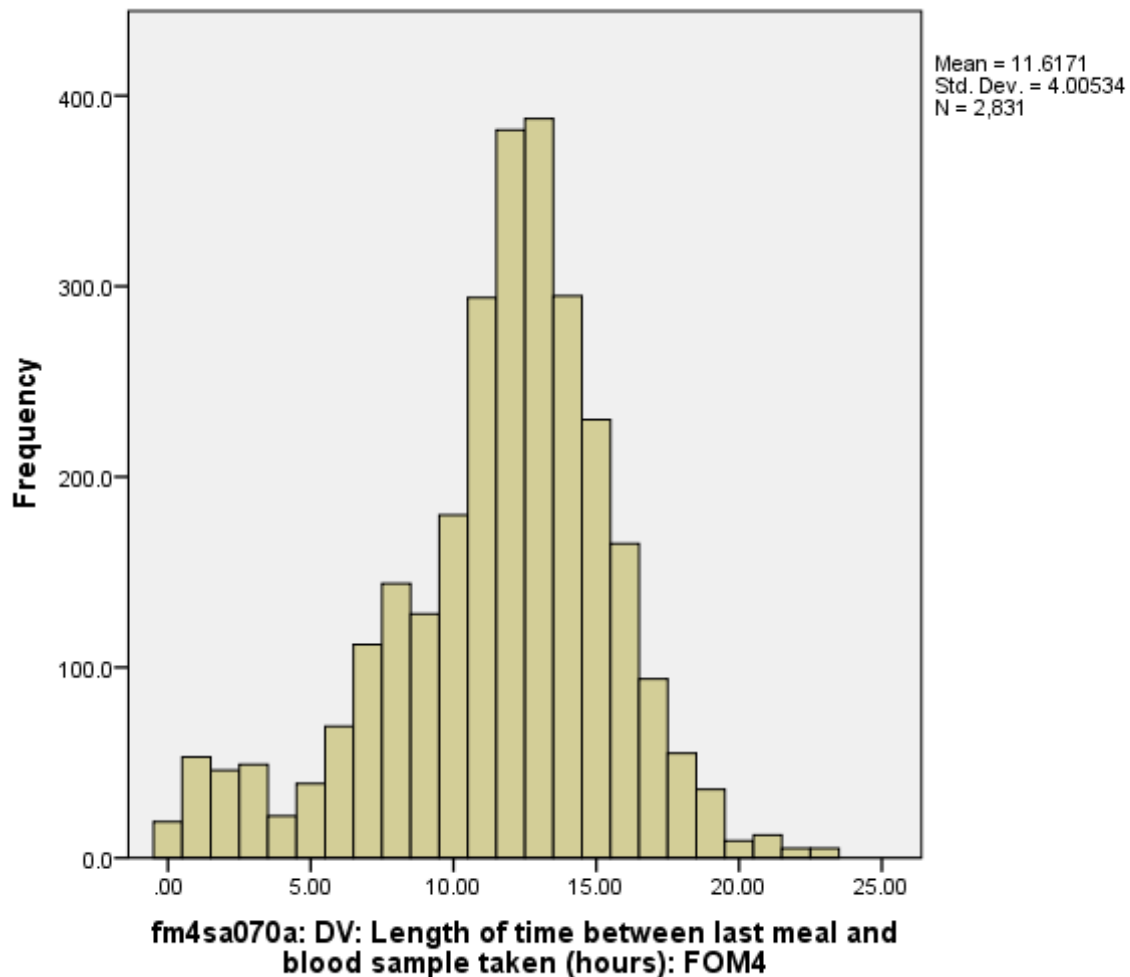
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	7	2	.0	.1	.1
	8	542	3.7	19.1	19.2
	9	462	3.1	16.3	35.5
	10	319	2.2	11.3	46.8
	11	458	3.1	16.2	63.0
	12	269	1.8	9.5	72.5
	13	258	1.8	9.1	81.6
	14	343	2.3	12.1	93.7
	15	160	1.1	5.7	99.4
	16	1	.0	.0	99.4
	17	12	.1	.4	99.8
	18	5	.0	.2	100.0
	Total	2831	19.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	164	1.1		
	Total	11844	80.7		
Total		14675	100.0		

fm4sa060b Time blood sample taken (minutes): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	55	.4	1.9	1.9
	1	49	.3	1.7	3.7
	2	49	.3	1.7	5.4
	3	45	.3	1.6	7.0
	4	65	.4	2.3	9.3
	5	36	.2	1.3	10.6
	6	44	.3	1.6	12.1
	7	52	.4	1.8	14.0
	8	69	.5	2.4	16.4
	9	43	.3	1.5	17.9
	10	40	.3	1.4	19.3
	11	58	.4	2.0	21.4
	12	36	.2	1.3	22.6
	13	65	.4	2.3	24.9
	14	34	.2	1.2	26.1
	15	50	.3	1.8	27.9
	16	69	.5	2.4	30.3
	17	29	.2	1.0	31.4
	18	45	.3	1.6	33.0
	19	50	.3	1.8	34.7
	20	60	.4	2.1	36.8
	21	33	.2	1.2	38.0
	22	47	.3	1.7	39.7
	23	61	.4	2.2	41.8
	24	60	.4	2.1	43.9
	25	27	.2	1.0	44.9
	26	54	.4	1.9	46.8
	27	44	.3	1.6	48.4
	28	62	.4	2.2	50.5
	29	28	.2	1.0	51.5
	30	46	.3	1.6	53.2

	31	58	.4	2.0	55.2
	32	35	.2	1.2	56.4
	33	48	.3	1.7	58.1
	34	55	.4	1.9	60.1
	35	50	.3	1.8	61.9
	36	47	.3	1.7	63.5
	37	57	.4	2.0	65.5
	38	50	.3	1.8	67.3
	39	36	.2	1.3	68.6
	40	42	.3	1.5	70.0
	41	60	.4	2.1	72.2
	42	63	.4	2.2	74.4
	43	43	.3	1.5	75.9
	44	45	.3	1.6	77.5
	45	52	.4	1.8	79.3
	46	41	.3	1.4	80.8
	47	42	.3	1.5	82.3
	48	37	.3	1.3	83.6
	49	42	.3	1.5	85.1
	50	42	.3	1.5	86.5
	51	46	.3	1.6	88.2
	52	39	.3	1.4	89.5
	53	43	.3	1.5	91.1
	54	43	.3	1.5	92.6
	55	28	.2	1.0	93.6
	56	53	.4	1.9	95.4
	57	42	.3	1.5	96.9
	58	53	.4	1.9	98.8
	59	34	.2	1.2	100.0
	Total	2831	19.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	164	1.1		
	Total	11844	80.7		
Total		14675	100.0		

The time that the Mother last ate is recorded in fm4sa050a (hour) and fm4sa050b (minutes) and the time that the samples were taken is recorded in fm4sa060a (hour) and fm4sa060b (minutes). These were used to create three new derived variables; the first two detail the length of time between last meal and bloods sample in hours (fm4sa070a) and minutes (fm4sa070b), while the other is a binary variable stating whether the length of time was over eight hours or not (fm4sa071).



fm4sa070b DV: Length of time between last meal and blood sample taken (minutes): FOM4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 0	60	.4	2.1	2.1
1	46	.3	1.6	3.7
2	44	.3	1.6	5.3
3	44	.3	1.6	6.9
4	65	.4	2.3	9.1
5	39	.3	1.4	10.5
6	49	.3	1.7	12.3
7	67	.5	2.4	14.6
8	57	.4	2.0	16.6
9	32	.2	1.1	17.8
10	49	.3	1.7	19.5
11	45	.3	1.6	21.1
12	56	.4	2.0	23.1
13	40	.3	1.4	24.5

	14	51	.3	1.8	26.3
	15	53	.4	1.9	28.2
	16	65	.4	2.3	30.4
	17	42	.3	1.5	31.9
	18	43	.3	1.5	33.5
	19	47	.3	1.7	35.1
	20	55	.4	1.9	37.1
	21	29	.2	1.0	38.1
	22	48	.3	1.7	39.8
	23	51	.3	1.8	41.6
	24	42	.3	1.5	43.1
	25	31	.2	1.1	44.2
	26	38	.3	1.3	45.5
	27	59	.4	2.1	47.6
	28	64	.4	2.3	49.8
	29	35	.2	1.2	51.1
	30	56	.4	2.0	53.1
	31	50	.3	1.8	54.8
	32	35	.2	1.2	56.1
	33	45	.3	1.6	57.6
	34	62	.4	2.2	59.8
	35	45	.3	1.6	61.4
	36	49	.3	1.7	63.2
	37	42	.3	1.5	64.6
	38	57	.4	2.0	66.7
	39	45	.3	1.6	68.2
	40	46	.3	1.6	69.9
	41	60	.4	2.1	72.0
	42	44	.3	1.6	73.5
	43	47	.3	1.7	75.2
	44	42	.3	1.5	76.7
	45	50	.3	1.8	78.5
	46	43	.3	1.5	80.0
	47	37	.3	1.3	81.3
	48	43	.3	1.5	82.8
	49	39	.3	1.4	84.2
	50	45	.3	1.6	85.8
	51	46	.3	1.6	87.4
	52	44	.3	1.6	88.9
	53	44	.3	1.6	90.5
	54	55	.4	1.9	92.4
	55	31	.2	1.1	93.5
	56	61	.4	2.2	95.7
	57	43	.3	1.5	97.2
	58	41	.3	1.4	98.7
	59	38	.3	1.3	100.0
	Total	2831	19.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	164	1.1		
	Total	11844	80.7		
Total		14675	100.0		

fm4sa071 DV: Blood sample taken less than eight hours after last meal: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	409	2.8	14.4	14.4
	2 No	2422	16.5	85.6	100.0
	Total	2831	19.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	164	1.1		
	Total	11844	80.7		
Total		14675	100.0		

fm4sa061 Problems taking blood: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	246	1.7	8.2	8.2
	2 No	2746	18.7	91.8	100.0
	Total	2992	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	3	.0		
	Total	11683	79.6		
Total		14675	100.0		

fm4sa063 Arm used for blood sample: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Left	1427	9.7	49.5	49.5
	2 Right	1308	8.9	45.4	94.9
	3 Both	146	1.0	5.1	100.0
	Total	2881	19.6	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	114	.8		
	Total	11794	80.4		
Total		14675	100.0		

fm4sa068 Participant taking medication: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1837	12.5	61.3	61.3
	2 No	1158	7.9	38.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa068a Number of medications participant taking: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1158	7.9	38.7	38.7
	1	683	4.7	22.8	61.5
	2	417	2.8	13.9	75.4
	3	252	1.7	8.4	83.8
	4	158	1.1	5.3	89.1
	5	110	.7	3.7	92.8
	6	77	.5	2.6	95.3
	7	41	.3	1.4	96.7
	8	26	.2	.9	97.6
	9	19	.1	.6	98.2
	10	19	.1	.6	98.8
	11	13	.1	.4	99.3
	12	7	.0	.2	99.5
	13	3	.0	.1	99.6
	14	4	.0	.1	99.7
	15	4	.0	.1	99.9
	16	2	.0	.1	99.9
	17	1	.0	.0	100.0
	26	1	.0	.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa069 Participant has allergies: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1192	8.1	39.8	39.8
	2 No	1803	12.3	60.2	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa069a Number of allergies: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1803	12.3	60.2	60.2
	1	738	5.0	24.6	84.8
	2	260	1.8	8.7	93.5
	3	101	.7	3.4	96.9
	4	50	.3	1.7	98.6
	5	22	.1	.7	99.3
	6	12	.1	.4	99.7
	7	5	.0	.2	99.9
	8	2	.0	.1	99.9
	10	1	.0	.0	100.0
	11	1	.0	.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4sa101 Type of Medication 1: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1501	10.2	81.8	81.8
	2 Bought	335	2.3	18.2	100.0
	Total	1836	12.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1159	7.9		
	Total	12839	87.5		
Total		14675	100.0		

fm4sa102 Type of Medication 2: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	840	5.7	73.2	73.2
	2 Bought	308	2.1	26.8	100.0
	Total	1148	7.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1847	12.6		
	Total	13527	92.2		
Total		14675	100.0		

fm4sa103 Type of Medication 3: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	486	3.3	66.0	66.0
	2 Bought	250	1.7	34.0	100.0
	Total	736	5.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2259	15.4		
	Total	13939	95.0		
Total		14675	100.0		

fm4sa104 Type of Medication 4: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	315	2.1	64.7	64.7
	2 Bought	172	1.2	35.3	100.0
	Total	487	3.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2508	17.1		
	Total	14188	96.7		
Total		14675	100.0		

fm4sa105 Type of Medication 5: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	208	1.4	63.6	63.6
	2 Bought	119	.8	36.4	100.0
	Total	327	2.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2668	18.2		
	Total	14348	97.8		
Total		14675	100.0		

fm4sa106 Type of Medication 6: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	151	1.0	69.3	69.3
	2 Bought	67	.5	30.7	100.0
	Total	218	1.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2777	18.9		
	Total	14457	98.5		
Total		14675	100.0		

fm4sa107 Type of Medication 7: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	101	.7	71.6	71.6
	2 Bought	40	.3	28.4	100.0
	Total	141	1.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2854	19.4		
	Total	14534	99.0		
Total		14675	100.0		

fm4sa108 Type of Medication 8: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	69	.5	70.4	70.4
	2 Bought	29	.2	29.6	100.0
	Total	98	.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2897	19.7		
	Total	14577	99.3		
Total		14675	100.0		

fm4sa109 Type of Medication 9: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	60	.4	81.1	81.1
	2 Bought	14	.1	18.9	100.0
	Total	74	.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2921	19.9		
	Total	14601	99.5		
Total		14675	100.0		

fm4sa110 Type of Medication 10: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	43	.3	81.1	81.1
	2 Bought	10	.1	18.9	100.0
	Total	53	.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2942	20.0		
	Total	14622	99.6		
Total		14675	100.0		

fm4sa111 Type of Medication 11: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	31	.2	83.8	83.8
	2 Bought	6	.0	16.2	100.0
	Total	37	.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2958	20.2		
	Total	14638	99.7		
Total		14675	100.0		

fm4sa112 Type of Medication 12: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	21	.1	87.5	87.5
	2 Bought	3	.0	12.5	100.0
	Total	24	.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2971	20.2		
	Total	14651	99.8		
Total		14675	100.0		

fm4sa113 Type of Medication 13: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	14	.1	93.3	93.3
	2 Bought	1	.0	6.7	100.0
	Total	15	.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2980	20.3		
	Total	14660	99.9		
Total		14675	100.0		

fm4sa114 Type of Medication 14: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	10	.1	83.3	83.3
	2 Bought	2	.0	16.7	100.0
	Total	12	.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2983	20.3		
	Total	14663	99.9		
Total		14675	100.0		

fm4sa115 Type of Medication 15: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	7	.0	77.8	77.8
	2 Bought	2	.0	22.2	100.0
	Total	9	.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2986	20.3		
	Total	14666	99.9		
Total		14675	100.0		

fm4sa116 Type of Medication 16: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	4	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2991	20.4		
	Total	14671	100.0		
Total		14675	100.0		

fm4sa117 Type of Medication 17: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	2	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2993	20.4		
	Total	14673	100.0		
Total		14675	100.0		

fm4sa118 Type of Medication 18: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa119 Type of Medication 19: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa120 Type of Medication 20: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa121 Type of Medication 21: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa122 Type of Medication 22: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa123 Type of Medication 23: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa124 Type of Medication 24: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa125 Type of Medication 25: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

fm4sa126 Type of Medication 26: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Prescribed	1	.0	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2994	20.4		
	Total	14674	100.0		
Total		14675	100.0		

Derived text medications data

Diabetes medication (fm4sa210) was derived using the following protocol:

- Searching for medications (including misspellings) listed on the British National Formulary (BNF) website (<https://www.bnf.org/>) for the treatment of diabetes being taken by the Mother.
- Searching for 'diabetes' (or related terms, including misspellings) as a reason for the Mother taking a medication.
- Checking each case where drug and reason did not match up (e.g., taking a drug listed by the BNF as for diabetes, yet not giving diabetes as a reason for taking this medication; or taking a drug for diabetes, yet the drug was not listed on the BNF website as treating diabetes).
- Creating a final variable of individuals who were taking diabetes medication because of diabetes.

fm4sa210 DV: Currently taking diabetes medication: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	2946	20.1	98.4	98.4
	1 Yes	49	.3	1.6	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

2.6 Hormone use and menstruation

Data was collected on women's' use of oral contraceptives, contraceptive injections, and Hormone Replacement Therapy (HRT). The fieldworker asked the women directly and entered the responses into the computer. In addition, the women asked whether they had a period in the last 12 months, when their last period occurred, and the reason their periods had stopped (if they had stopped).

fm4ob001 Menstrual questionnaire fieldworker: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	183	1.2	6.1	6.1
	2	143	1.0	4.8	10.9
	3	301	2.1	10.1	20.9
	4	314	2.1	10.5	31.4
	5	126	.9	4.2	35.6
	6	102	.7	3.4	39.1
	7	330	2.2	11.0	50.1
	8	108	.7	3.6	53.7
	9	264	1.8	8.8	62.5
	10	121	.8	4.0	66.6
	11	5	.0	.2	66.7
	12	369	2.5	12.3	79.1
	13	277	1.9	9.3	88.3
	14	139	.9	4.6	93.0
	15	6	.0	.2	93.2
	16	43	.3	1.4	94.6
	17	1	.0	.0	94.6
	19	71	.5	2.4	97.0
	20	51	.3	1.7	98.7
	21	31	.2	1.0	99.7
	22	8	.1	.3	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob100 Currently taking oral contraceptives: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	100	.7	3.3	3.3
	2 No	2893	19.7	96.7	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob100a How long participant been taking oral contraceptives (years): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	10	.1	10.0	10.0
	1	3	.0	3.0	13.0
	2	4	.0	4.0	17.0
	3	3	.0	3.0	20.0
	4	5	.0	5.0	25.0
	5	7	.0	7.0	32.0
	6	2	.0	2.0	34.0
	7	1	.0	1.0	35.0
	8	4	.0	4.0	39.0
	9	2	.0	2.0	41.0
	10	7	.0	7.0	48.0
	12	1	.0	1.0	49.0
	13	1	.0	1.0	50.0
	15	1	.0	1.0	51.0
	16	2	.0	2.0	53.0
	17	2	.0	2.0	55.0
	18	2	.0	2.0	57.0
	19	3	.0	3.0	60.0
	20	6	.0	6.0	66.0
	21	1	.0	1.0	67.0
	22	3	.0	3.0	70.0
	23	1	.0	1.0	71.0
	25	8	.1	8.0	79.0
	26	1	.0	1.0	80.0
	27	1	.0	1.0	81.0
	28	1	.0	1.0	82.0
	29	1	.0	1.0	83.0
	30	11	.1	11.0	94.0
	32	1	.0	1.0	95.0
	33	3	.0	3.0	98.0
	35	1	.0	1.0	99.0
	37	1	.0	1.0	100.0
	Total	100	.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2895	19.7		
	Total	14575	99.3		
Total		14675	100.0		

fm4ob100b How long participant been taking oral contraceptives (months): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	74	.5	74.0	74.0
	1	6	.0	6.0	80.0
	2	8	.1	8.0	88.0
	3	4	.0	4.0	92.0
	4	2	.0	2.0	94.0
	5	1	.0	1.0	95.0
	6	4	.0	4.0	99.0
	9	1	.0	1.0	100.0
	Total	100	.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2895	19.7		
	Total	14575	99.3		
Total		14675	100.0		

fm4ob101 Currently using contraceptive injection: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	25	.2	.8	.8
	2 No	2968	20.2	99.2	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob101a How long participant been using contraceptive injections (years): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	2	.0	8.0	8.0
	1	2	.0	8.0	16.0
	2	4	.0	16.0	32.0
	3	2	.0	8.0	40.0
	4	2	.0	8.0	48.0
	6	1	.0	4.0	52.0
	8	1	.0	4.0	56.0
	9	1	.0	4.0	60.0
	10	3	.0	12.0	72.0
	12	2	.0	8.0	80.0
	14	2	.0	8.0	88.0
	19	1	.0	4.0	92.0
	20	1	.0	4.0	96.0
	21	1	.0	4.0	100.0
	Total	25	.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2970	20.2		
	Total	14650	99.8		
Total		14675	100.0		

fm4ob101b How long participant been using contraceptive injections (months): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	11	.1	44.0	44.0
	1	1	.0	4.0	48.0
	2	3	.0	12.0	60.0
	3	4	.0	16.0	76.0
	6	2	.0	8.0	84.0
	7	2	.0	8.0	92.0
	10	2	.0	8.0	100.0
	Total	25	.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2970	20.2		
	Total	14650	99.8		
Total		14675	100.0		

fm4ob102 Currently using hormonal coil: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	396	2.7	13.2	13.2
	2 No	2595	17.7	86.8	100.0
	Total	2991	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	4	.0		
	Total	11684	79.6		
Total		14675	100.0		

fm4ob102a How long participant been using hormonal coil (years): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	15	.1	3.8	3.8
	1	24	.2	6.1	9.8
	2	26	.2	6.6	16.4
	3	42	.3	10.6	27.0
	4	46	.3	11.6	38.6
	5	37	.3	9.3	48.0
	6	33	.2	8.3	56.3
	7	24	.2	6.1	62.4
	8	17	.1	4.3	66.7
	9	24	.2	6.1	72.7
	10	35	.2	8.8	81.6
	11	7	.0	1.8	83.3
	12	14	.1	3.5	86.9
	13	3	.0	.8	87.6
	14	14	.1	3.5	91.2
	15	16	.1	4.0	95.2
	16	3	.0	.8	96.0
	17	3	.0	.8	96.7
	18	5	.0	1.3	98.0
	19	1	.0	.3	98.2
	20	5	.0	1.3	99.5
	22	1	.0	.3	99.7
	28	1	.0	.3	100.0
	Total	396	2.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2599	17.7		
	Total	14279	97.3		
Total		14675	100.0		

fm4ob102b How long participant been using hormonal coil (months): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	221	1.5	55.8	55.8
	1	12	.1	3.0	58.8
	2	23	.2	5.8	64.6
	3	12	.1	3.0	67.7
	4	12	.1	3.0	70.7
	5	5	.0	1.3	72.0
	6	58	.4	14.6	86.6
	7	7	.0	1.8	88.4
	8	12	.1	3.0	91.4
	9	9	.1	2.3	93.7
	10	19	.1	4.8	98.5
	11	6	.0	1.5	100.0
	Total	396	2.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2599	17.7		
	Total	14279	97.3		
Total		14675	100.0		

fm4ob110a Currently taking hormone replacement therapy - tablets: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	142	1.0	4.7	4.7
	2 No	2851	19.4	95.3	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob110b Currently taking hormone replacement therapy - patches: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	30	.2	1.0	1.0
	2 No	2963	20.2	99.0	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob110c Currently taking hormone replacement therapy - cream: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	77	.5	2.6	2.6
	2 No	2916	19.9	97.4	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob110d How long participant been using hormone replacement therapy (years): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	56	.4	23.5	23.5
	1	36	.2	15.1	38.7
	2	44	.3	18.5	57.1
	3	22	.1	9.2	66.4
	4	17	.1	7.1	73.5
	5	17	.1	7.1	80.7
	6	6	.0	2.5	83.2
	7	5	.0	2.1	85.3
	8	8	.1	3.4	88.7
	9	4	.0	1.7	90.3
	10	10	.1	4.2	94.5
	11	2	.0	.8	95.4
	12	1	.0	.4	95.8
	13	3	.0	1.3	97.1
	14	1	.0	.4	97.5
	15	2	.0	.8	98.3
	18	1	.0	.4	98.7
	20	1	.0	.4	99.2
	22	1	.0	.4	99.6
	23	1	.0	.4	100.0
	Total	238	1.6	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2757	18.8		
	Total	14437	98.4		
Total		14675	100.0		

fm4ob110e How long participant been using hormone replacement therapy (months): FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	119	.8	50.0	50.0
	1	16	.1	6.7	56.7
	2	12	.1	5.0	61.8
	3	15	.1	6.3	68.1
	4	7	.0	2.9	71.0
	5	6	.0	2.5	73.5
	6	34	.2	14.3	87.8
	7	1	.0	.4	88.2
	8	4	.0	1.7	89.9
	9	6	.0	2.5	92.4
	10	14	.1	5.9	98.3
	11	4	.0	1.7	100.0
	Total	238	1.6	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2757	18.8		
	Total	14437	98.4		
Total		14675	100.0		

fm4ob120 Had a period/menstrual bleeding in the previous 12 months: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1159	7.9	38.7	38.7
	2 No	1834	12.5	61.3	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob121 Reason why periods stopped: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Hysterectomy	231	1.6	12.6	12.6
	2 Chemotherapy or radiation therapy	37	.3	2.0	14.6
	4 Menopause	1218	8.3	66.4	81.0
	5 Hormonal coil	199	1.4	10.9	91.9
	6 Other	149	1.0	8.1	100.0
	Total	1834	12.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1161	7.9		
	Total	12841	87.5		
Total		14675	100.0		

fm4ob125 Year participants periods stopped: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1990	2	.0	.1	.1
	1991	5	.0	.3	.4
	1992	10	.1	.5	.9
	1993	8	.1	.4	1.4
	1994	16	.1	.9	2.3
	1995	12	.1	.7	2.9
	1996	26	.2	1.4	4.3
	1997	18	.1	1.0	5.3
	1998	16	.1	.9	6.2
	1999	37	.3	2.0	8.2
	2000	41	.3	2.3	10.5
	2001	30	.2	1.6	12.1
	2002	50	.3	2.7	14.9
	2003	44	.3	2.4	17.3
	2004	118	.8	6.5	23.8
	2005	86	.6	4.7	28.5
	2006	89	.6	4.9	33.4
	2007	93	.6	5.1	38.5
	2008	132	.9	7.3	45.8
	2009	153	1.0	8.4	54.2
	2010	209	1.4	11.5	65.7
	2011	192	1.3	10.5	76.2
	2012	235	1.6	12.9	89.1
	2013	174	1.2	9.6	98.7
	2014	23	.2	1.3	99.9
	2015	1	.0	.1	100.0
	Total	1820	12.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1175	8.0		
	Total	12855	87.6		
Total		14675	100.0		

fm4ob126 Period/menstrual bleeding in last 3 months: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	955	6.5	82.4	82.4
	2 No	204	1.4	17.6	100.0
	Total	1159	7.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1836	12.5		
	Total	13516	92.1		
Total		14675	100.0		

fm4ob123 Day of last period: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	80	.5	7.3	7.3
	2	40	.3	3.6	10.9
	3	42	.3	3.8	14.7
	4	40	.3	3.6	18.3
	5	47	.3	4.3	22.6
	6	32	.2	2.9	25.5
	7	36	.2	3.3	28.8
	8	27	.2	2.5	31.2
	9	25	.2	2.3	33.5
	10	46	.3	4.2	37.7
	11	19	.1	1.7	39.4
	12	34	.2	3.1	42.5
	13	17	.1	1.5	44.0
	14	41	.3	3.7	47.7
	15	66	.4	6.0	53.7
	16	27	.2	2.5	56.2
	17	25	.2	2.3	58.4
	18	31	.2	2.8	61.3
	19	45	.3	4.1	65.3
	20	52	.4	4.7	70.1
	21	26	.2	2.4	72.4
	22	40	.3	3.6	76.0
	23	28	.2	2.5	78.6
	24	28	.2	2.5	81.1
	25	37	.3	3.4	84.5
	26	40	.3	3.6	88.1
	27	25	.2	2.3	90.4
	28	35	.2	3.2	93.6
	29	20	.1	1.8	95.4
	30	32	.2	2.9	98.3
	31	19	.1	1.7	100.0
	Total	1102	7.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1893	12.9		
	Total	13573	92.5		
Total		14675	100.0		

fm4ob124 Month of last period: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	107	.7	9.3	9.3
	2	89	.6	7.7	17.0
	3	83	.6	7.2	24.2
	4	114	.8	9.9	34.1
	5	122	.8	10.6	44.6
	6	119	.8	10.3	54.9
	7	111	.8	9.6	64.6
	8	105	.7	9.1	73.7
	9	81	.6	7.0	80.7
	10	81	.6	7.0	87.7
	11	72	.5	6.2	93.9
	12	70	.5	6.1	100.0
	Total	1154	7.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1841	12.5		
	Total	13521	92.1		
Total		14675	100.0		

fm4ob124a Year of last period: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2013	85	.6	7.4	7.4
	2014	887	6.0	76.8	84.2
	2015	183	1.2	15.8	100.0
	Total	1155	7.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1840	12.5		
	Total	13520	92.1		
Total		14675	100.0		

fm4ob130 Periods are regular: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes, occur every 28-30 days	345	2.4	29.8	29.8
	2 Yes, occur less than every 28 days	102	.7	8.8	38.6
	3 Yes, occur more than every 30 days	32	.2	2.8	41.4
	4 No	679	4.6	58.6	100.0
	Total	1158	7.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1837	12.5		
	Total	13517	92.1		
Total		14675	100.0		

fm4ob131 Periods have changed in last 12 months: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	633	4.3	54.8	54.8
	2 Yes, stayed regular but occur more frequently	50	.3	4.3	59.1
	3 Yes, stayed regular but occur less frequently	28	.2	2.4	61.6
	4 Yes, have become irregular	444	3.0	38.4	100.0
	Total	1155	7.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1840	12.5		
	Total	13520	92.1		
Total		14675	100.0		

fm4ob135 Frequency of hot flushes in last 2 weeks: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Not at all	1985	13.5	66.3	66.3
	2 1-5 days	402	2.7	13.4	79.8
	3 6-8 days	108	.7	3.6	83.4
	4 9-13 days	68	.5	2.3	85.6
	5 Every day	430	2.9	14.4	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

fm4ob136 Frequency of night sweats in last 2 weeks: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Not at all	2104	14.3	70.3	70.3
	2 1-5 days	376	2.6	12.6	82.9
	3 6-8 days	89	.6	3.0	85.8
	4 9-13 days	61	.4	2.0	87.9
	5 Every day	363	2.5	12.1	100.0
	Total	2993	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2	.0		
	Total	11682	79.6		
Total		14675	100.0		

2.7 Blood Pressure

Blood pressure and pulse readings were measured using an Omron M6 upper arm BP/Pulse monitor. BP was measured twice for both seated and standing, while pulse was measured twice seated. Means are given for both seated and standing.

fm4bp001 Blood pressure fieldworker: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	177	1.2	5.9	5.9
	2	146	1.0	4.9	10.8
	3	296	2.0	9.9	20.7
	4	315	2.1	10.5	31.2
	5	115	.8	3.8	35.0
	6	115	.8	3.8	38.9
	7	309	2.1	10.3	49.2
	8	120	.8	4.0	53.2
	9	264	1.8	8.8	62.0
	10	122	.8	4.1	66.1
	11	4	.0	.1	66.2
	12	337	2.3	11.3	77.5
	13	280	1.9	9.3	86.8
	14	173	1.2	5.8	92.6
	15	12	.1	.4	93.0
	16	29	.2	1.0	94.0
	19	76	.5	2.5	96.5
	20	54	.4	1.8	98.3
	21	42	.3	1.4	99.7
	22	9	.1	.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4bp002 Consent for blood pressure: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2991	20.4	99.9	99.9
	2 No	4	.0	.1	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4bp003 Consent to be informed if BP high: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2955	20.1	98.7	98.7
	2 No	40	.3	1.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

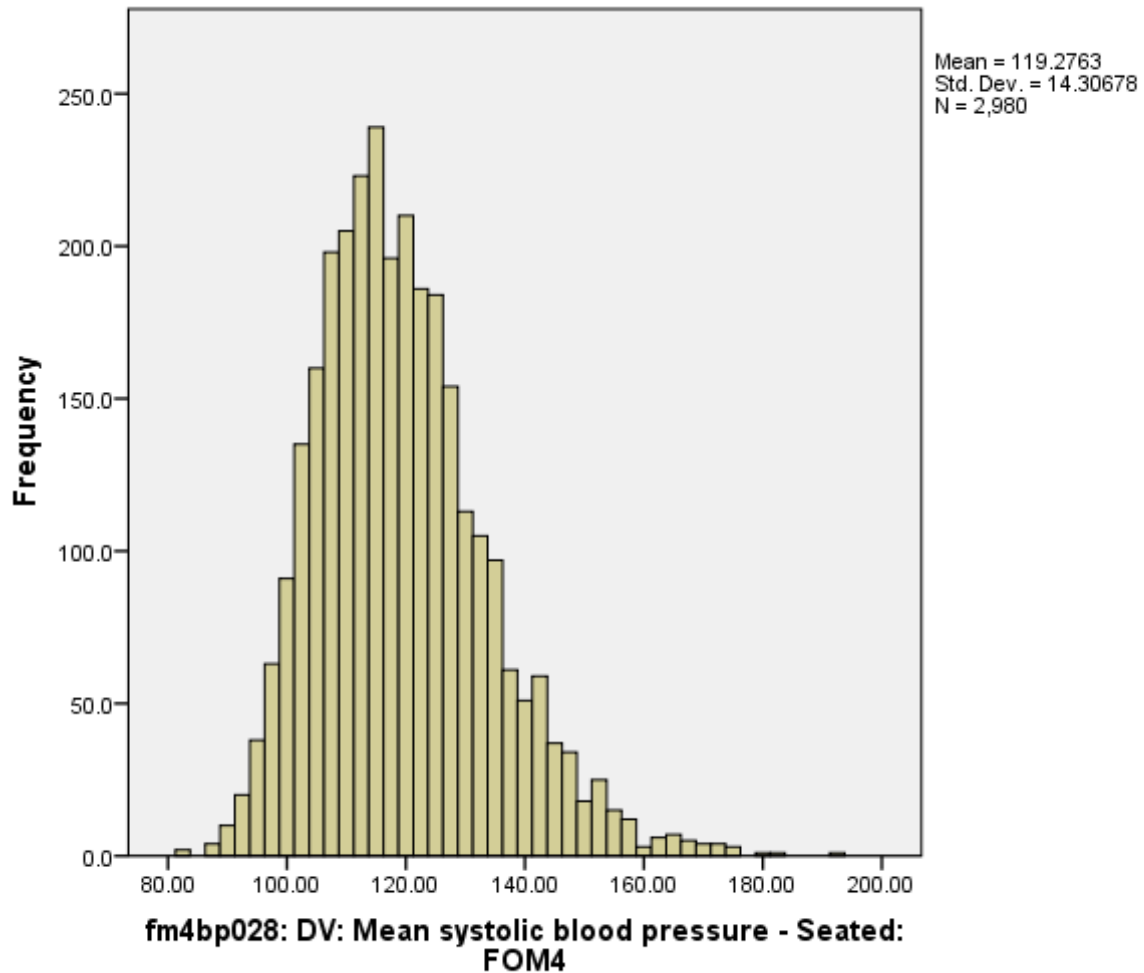
fm4bp003a Consent withdrawn for BP: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	8	.1	.3	.3
	2 No	2987	20.4	99.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

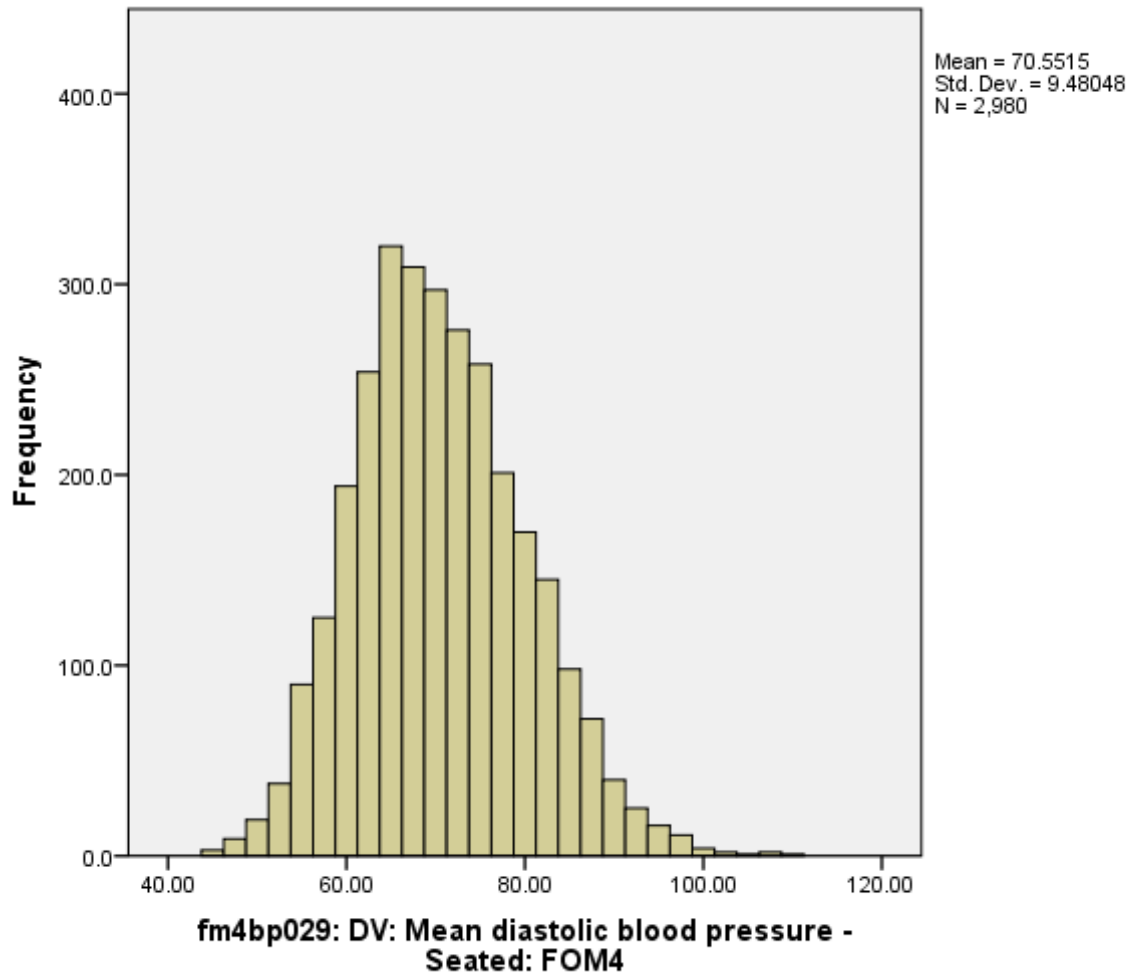
fm4bp010 Arm used for BP: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Right	2937	20.0	98.5	98.5
	2 Left	46	.3	1.5	100.0
	Total	2983	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	12	.1		
	Total	11692	79.7		
Total		14675	100.0		

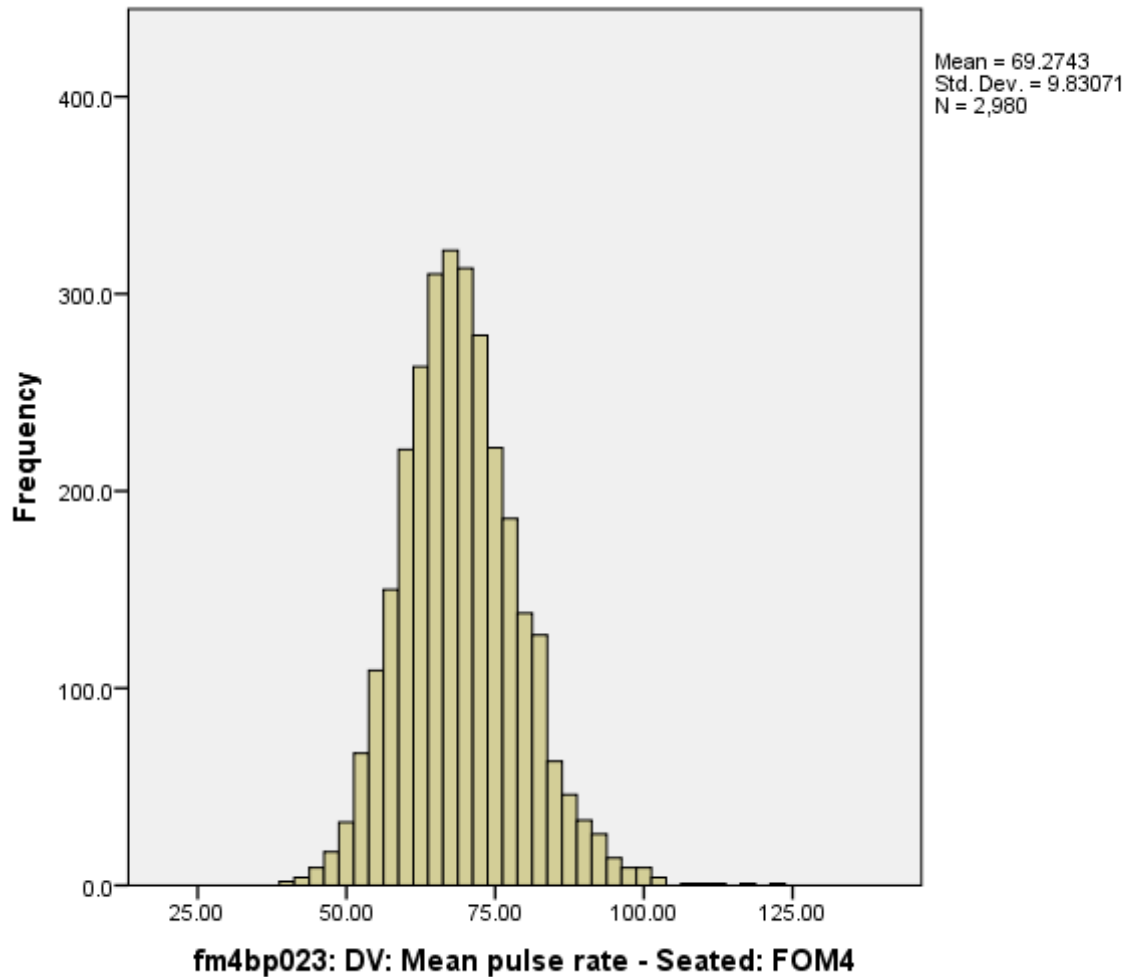
The two measures for seated systolic blood pressure are variables fm4bp020 and fm4bp025. Only the derived variable (fm4bp028) is displayed here: this was calculated as the mean of these two measures: $(fm4bp020 + fm4bp025)/2$. [If only one measure was taken, that one was used].



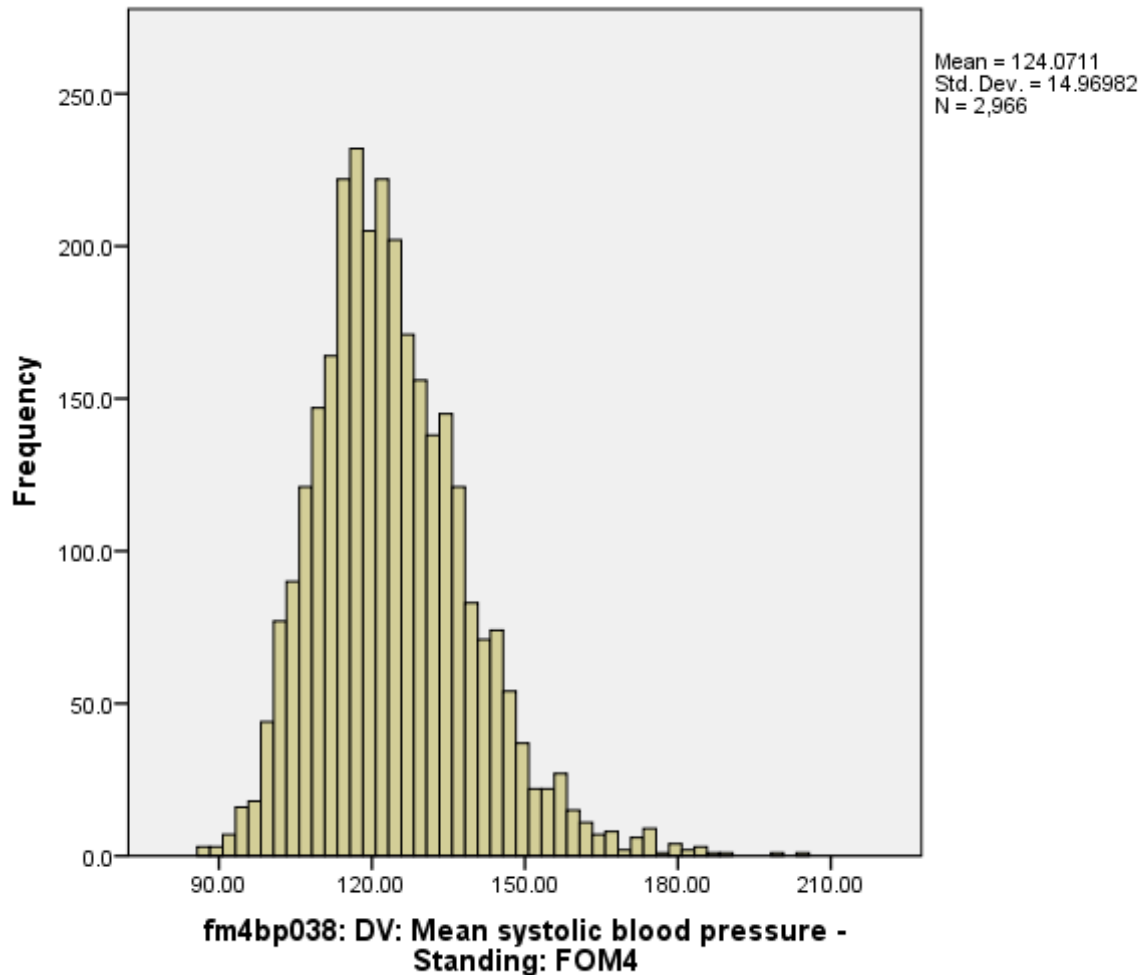
The two measures for seated diastolic blood pressure are variables fm4bp021 and fm4bp026. Only the derived variable (fm4bp029) is displayed here: this was calculated as the mean of these two measures: $(fm4bp021 + fm4bp026)/2$. [If only one measure was taken, that one was used].



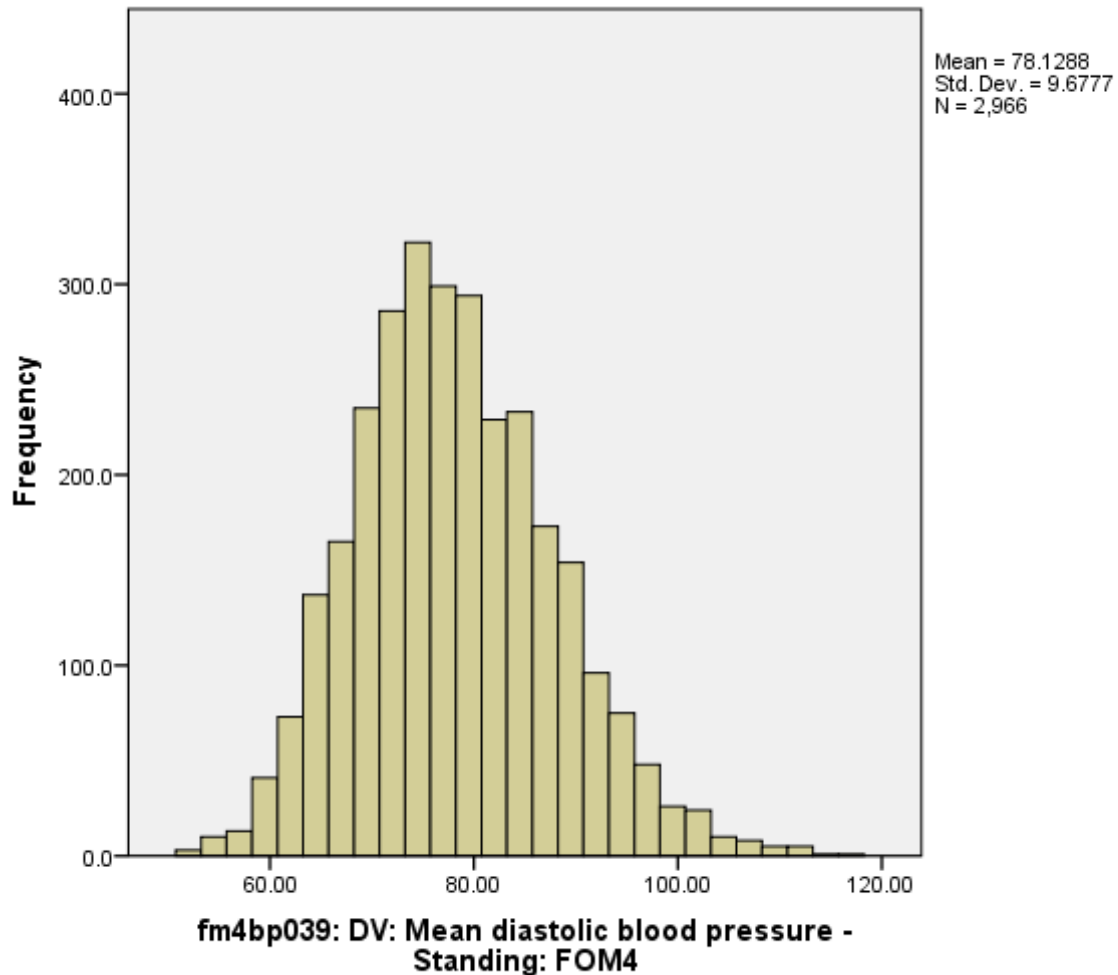
The two measures for pulse rate (beats per minute) are variables fm4bp022 and fm4bp027. Only the derived variable (fm4bp023) is displayed here: this was calculated as the mean of these two measures: $(fm4bp022 + fm4bp027)/2$. [If only one measure was taken, that one was used].



The two measures for standing systolic blood pressure are variables fm4bp030 and fm4bp035. Only the derived variable (fm4bp038) is displayed here: this was calculated as the mean of these two measures: $(fm4bp030 + fm4bp035)/2$. [If only one measure was taken, that one was used].



The two measures for seated diastolic blood pressure are variables fm4bp031 and fm4bp036. Only the derived variable (fm4bp039) is displayed here: this was calculated as the mean of these two measures: $(fm4bp031 + fm4bp036)/2$. [If only one measure was taken, that one was used].



2.8 cIMT Ultrasound

An ultrasound scan of the participant's carotid artery in the neck took place to measure the thickness of the artery wall. Artery wall thickness is a measure of atherosclerosis and artery stiffness. The measurement was conducted using a portable ultrasound scanner (CardioHealth® Station). The CardioHealth Station is a cardiovascular ultrasound system specifically developed for use on the carotid arteries. Women were scanned on both sides of their neck using an ultrasound probe. Ultrasound gel was applied to the right side of the neck of the participant, and the probe placed on the neck and manoeuvred from the base of the neck up to and including the bifurcation point. A clear image of the artery was captured digitally. The process was then repeated on the left side of the neck.

fm4cv001 Fieldworker CIMT session: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	163	1.1	5.4	5.4
	2	129	.9	4.3	9.7
	3	314	2.1	10.5	20.2
	4	318	2.2	10.6	30.9
	5	119	.8	4.0	34.8
	6	120	.8	4.0	38.8
	7	293	2.0	9.8	48.6
	8	119	.8	4.0	52.6
	9	270	1.8	9.0	61.6
	10	115	.8	3.8	65.4
	12	362	2.5	12.1	77.5
	13	287	2.0	9.6	87.1
	14	176	1.2	5.9	93.0
	15	6	.0	.2	93.2
	16	33	.2	1.1	94.3
	19	68	.5	2.3	96.6
	20	49	.3	1.6	98.2
	21	43	.3	1.4	99.6
	22	11	.1	.4	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4cv100 Consent for CIMT ultrasound: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2992	20.4	99.9	99.9
	2 No	3	.0	.1	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4cv100a Consent withdrawn for CIMT ultrasound: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7	.0	.2	.2
	2 No	2988	20.4	99.8	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4cv101a Right CIMT ultrasound performed: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2978	20.3	99.8	99.8
	2 No	7	.0	.2	100.0
	Total	2985	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	10	.1		
	Total	11690	79.7		
Total		14675	100.0		

fm4cv101b Right CIMT ultrasound - type: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Normal	2422	16.5	81.3	81.3
	2 Easy	8	.1	.3	81.6
	3 Difficult	548	3.7	18.4	100.0
	Total	2978	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	17	.1		
	Total	11697	79.7		
Total		14675	100.0		

fm4cv101c Right CIMT ultrasound - probe repositioned due to plaque: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	26	.2	.9	.9
	2 No	2952	20.1	99.1	100.0
	Total	2978	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	17	.1		
	Total	11697	79.7		
Total		14675	100.0		

fm4cv101d Reason Right CIMT ultrasound was not performed: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Participant reasons	3	.0	42.9	42.9
	2 Equipment/clinic facilities reasons	2	.0	28.6	71.4
	3 Unable to obtain image	2	.0	28.6	100.0
	Total	7	.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2988	20.4		
	Total	14668	100.0		
Total		14675	100.0		

fm4cv102a Left CIMT ultrasound performed: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2972	20.3	99.6	99.6
	2 No	13	.1	.4	100.0
	Total	2985	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	10	.1		
	Total	11690	79.7		
Total		14675	100.0		

fm4cv102b Left CIMT ultrasound - type: FOM4

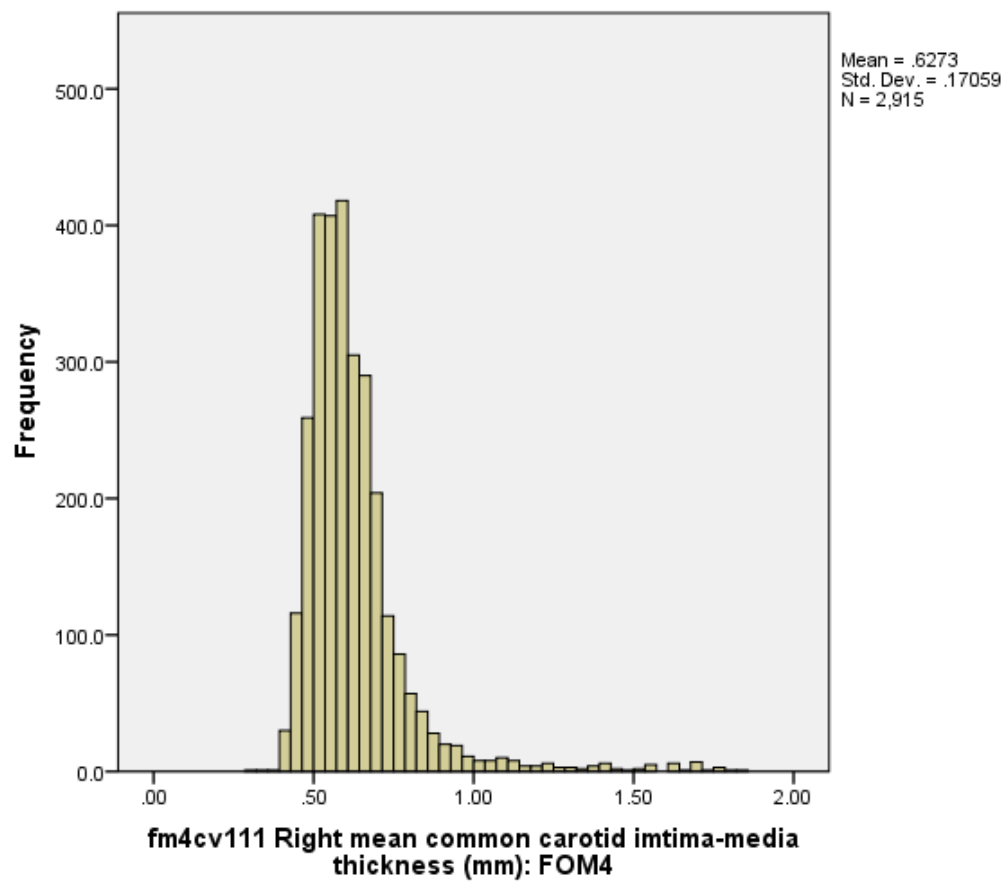
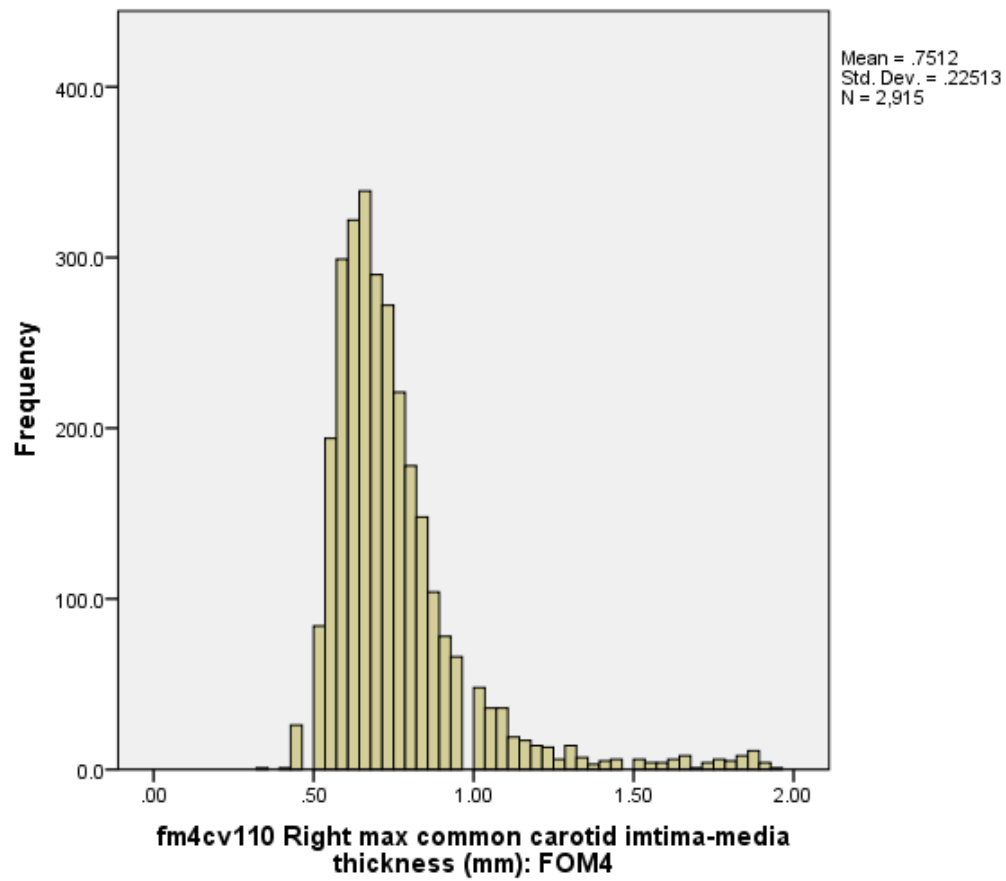
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Normal	2384	16.2	80.2	80.2
	2 Easy	10	.1	.3	80.6
	3 Difficult	578	3.9	19.4	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	System	23	.2		
	Total	11703	79.7		
Total		14675	100.0		

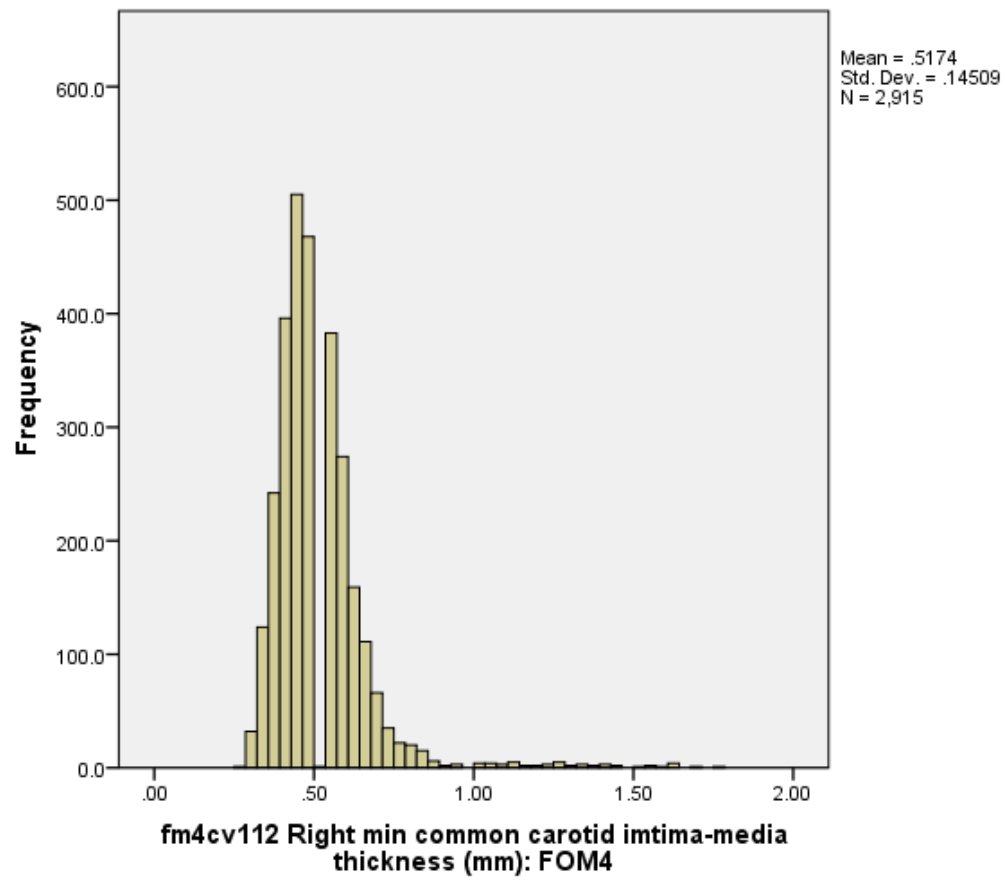
fm4cv102c Left CIMT ultrasound - probe repositioned due to plaque: FOM4

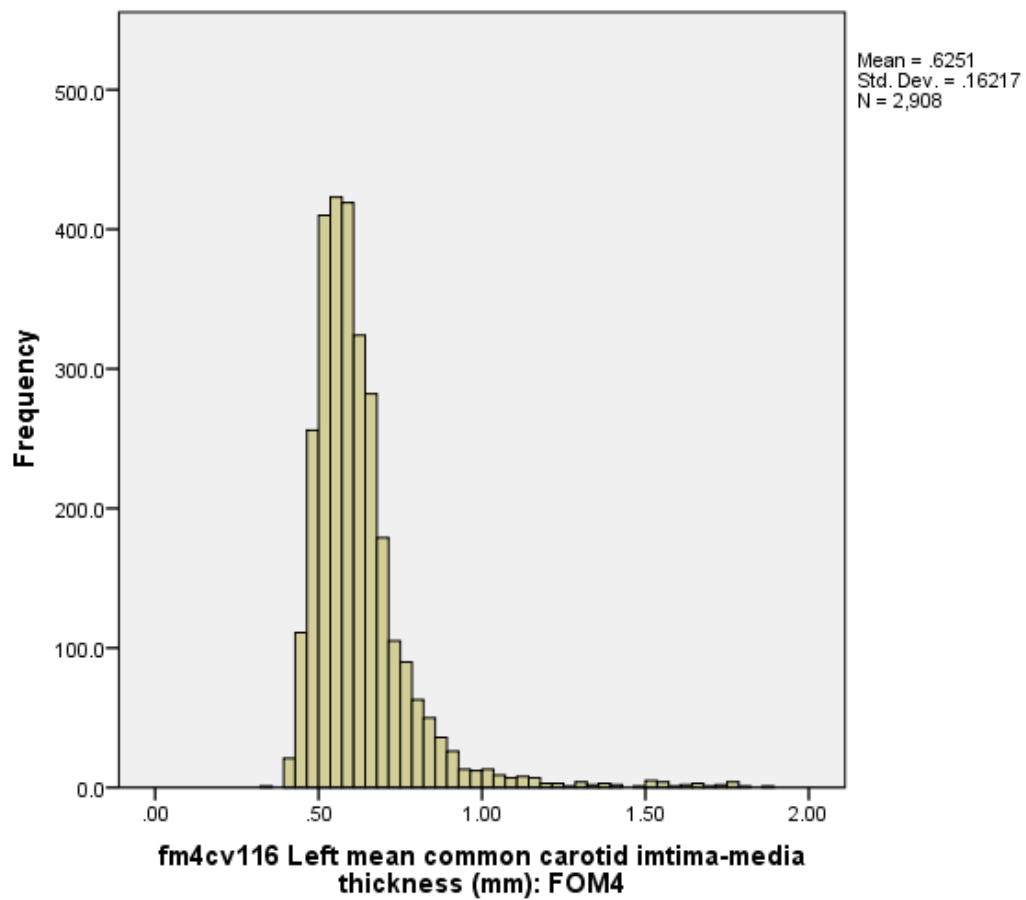
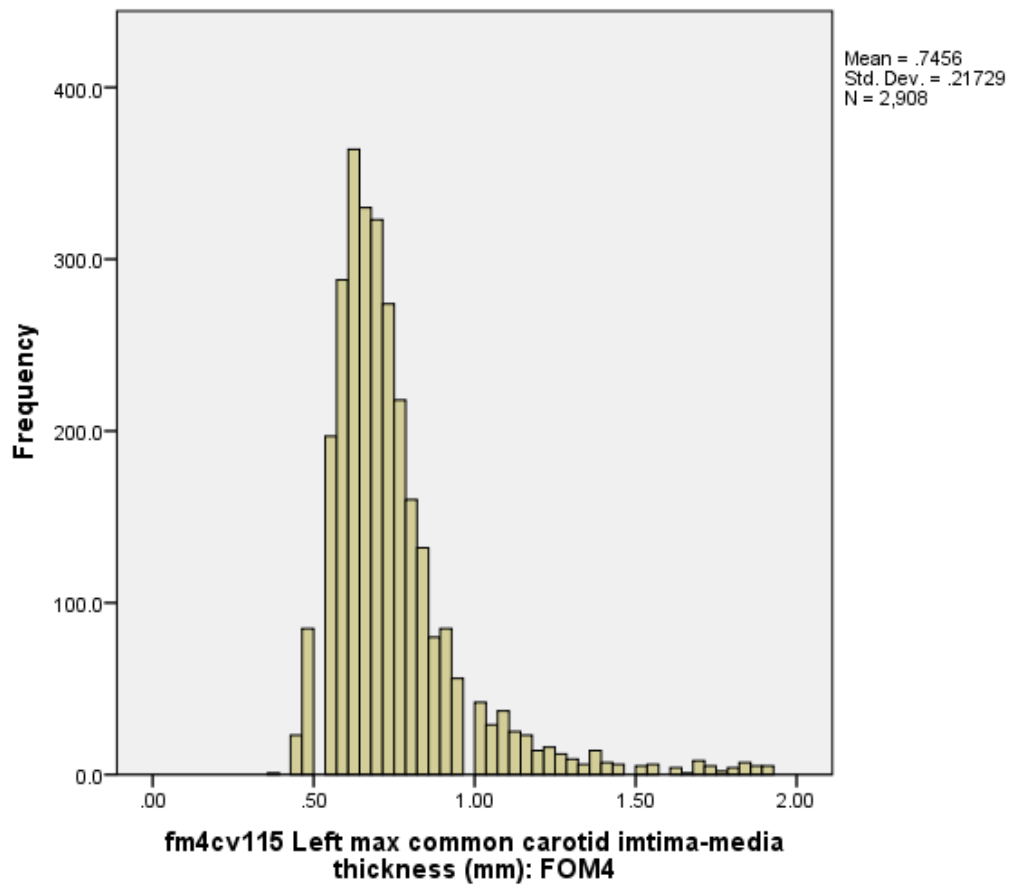
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	38	.3	1.3	1.3
	2 No	2933	20.0	98.7	100.0
	Total	2971	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	24	.2		
	Total	11704	79.8		
Total		14675	100.0		

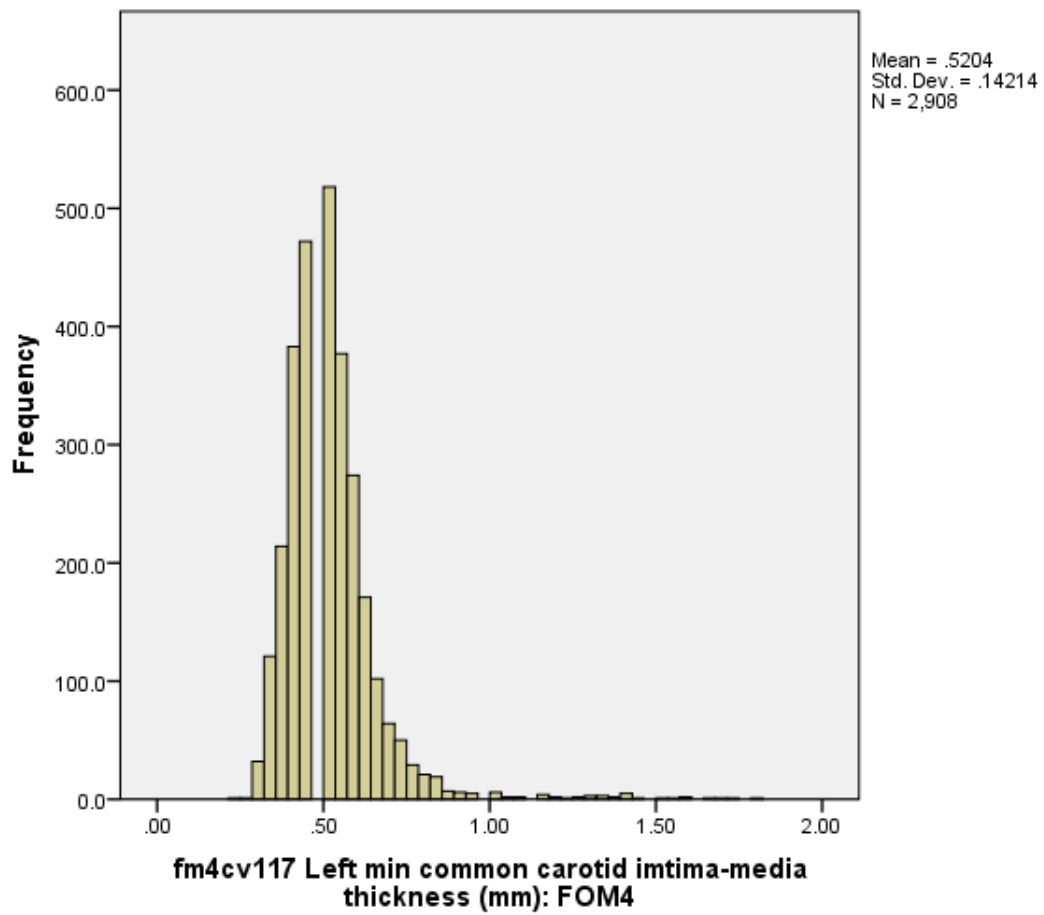
fm4cv102d Reason Left CIMT ultrasound was not performed: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Participant reasons	4	.0	30.8	30.8
	2 Equipment/clinic facilities reasons	1	.0	7.7	38.5
	3 Unable to obtain image	8	.1	61.5	100.0
	Total	13	.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2982	20.3		
	Total	14662	99.9		
Total		14675	100.0		

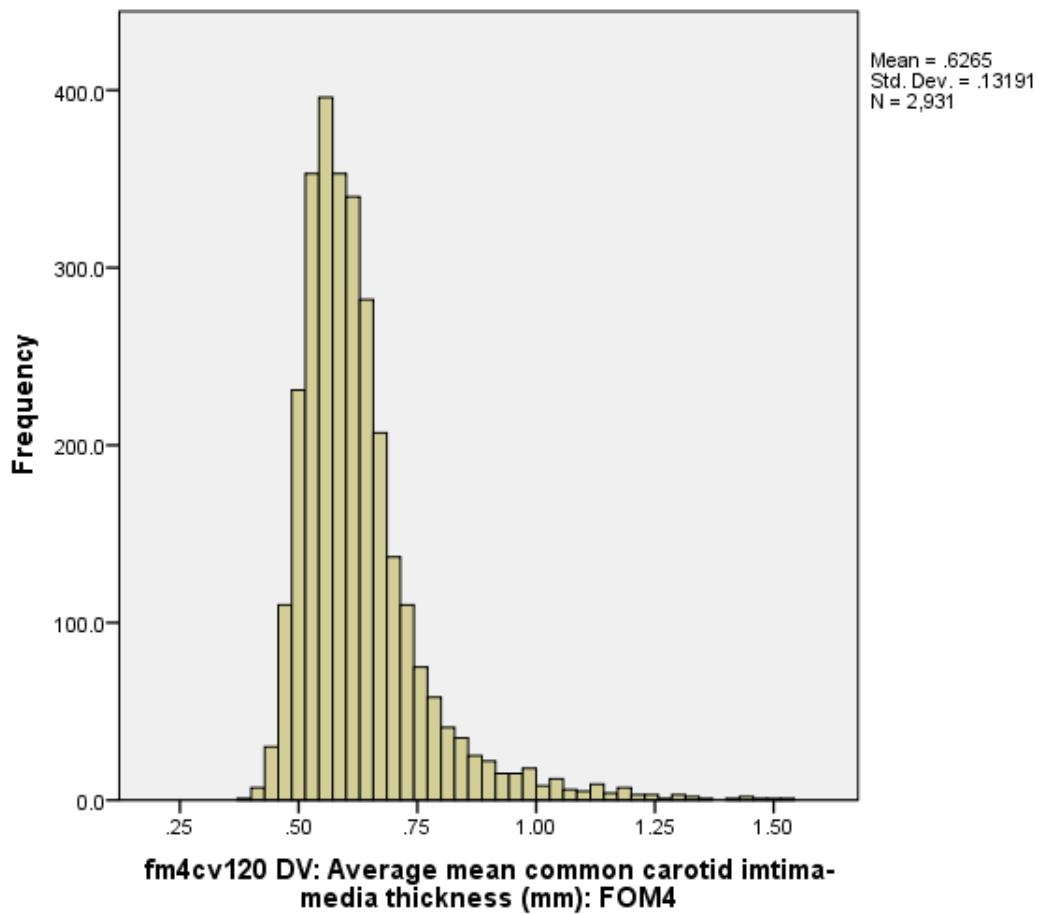








Derived variable (fm4cv120) – Average mean common carotid intima-media thickness (cIMT): $(fm4cv111 + fm4cv116)/2$. [If only one measure was taken, that one was used].



2.9 Physical Tests

The tests were conducted in accordance with the following procedure instruction sheet:

Timed 3 Metre Walk

1. Instruct the SP (study person) to stand with their toes positioned directly behind the black tape on the line on the floor.
2. Explain to the SP that they are to walk until they have crossed the second black tape line on the floor.
3. Instruct them to walk at their usual pace.
4. On the word "GO" they walk and the FW starts the stopwatch.
5. The FW (fieldworker) walks alongside them and then stops the stopwatch when the SP's foot touches or crosses the second line. The foot could be mid-air when it crosses the line.
6. Record this time in the box on the Access direct data entry database.

Chair Rises

1. Ensure that the SP is wearing sensible flat shoes.
2. Seat the participant in an armless chair with back support ensuring that the same chair is used each time.
3. Instruct the SP to fold their arms across their chest.
4. For practice, ask the SP to rise from a sitting position to a straight-legged fully standing position, keeping their arms folded. The SP should stand up as straight as possible, so that their back is upright and their knees are not bent. Where this is not possible, SP should be encouraged to get to their normal standing position.
5. After successful completion of the practice go, explain to the SP that on the word "GO" they are to stand up and sit back down as practiced, ten times. Between each rise the SP must sit back down fully with their back supported against the back of the chair. Explain that we would like them to do this as quickly as possible and that they will be timed.
6. Count each successful completion out loud for the SP x 10.
7. Stop the stopwatch when the SP is seated back in the chair on the final descent, with arms remaining folded and back supported by the chair.
8. Record this time in the box on the Access direct data entry database.

Assessment of Grip Strength

1. Sit the SP comfortably in a standard chair with legs, back support and fixed arms. Use the same chair for every measurement.
2. Ask them to rest their forearms on the arms of the chair with the wrists just over the end of the arms of the chair – wrists in a neutral position, thumbs facing upwards.
3. Demonstrate how to use the Jamar handgrip dynamometer to show that gripping very tightly registers the best score.
4. Start with the right hand.
5. Position the hand so that the thumb is round one side of the handle and the four fingers are around the other side. The instrument should feel comfortable in the hand. Alter the position of the handle if necessary. One can usually observe if the SP is uncomfortable.
6. The FW should rest the base of the dynamometer on the palm of their hand as the SP holds the dynamometer. The aim of this is to support the weight of the dynamometer, but care should be taken not to restrict its movement.

7. Encourage the SP to squeeze as long and as tightly as possible or until the needle stops rising. Once the needle stops rising, the SP can be instructed to stop squeezing.
8. Read grip strength in kilograms from the outside dial and record the result to the nearest 1kg on the data entry sheet.
9. Repeat measurement in the left hand.
10. Do two further measurements for each hand alternating sides to give 2 readings in total for each side.
11. The best of the four grip strength measurements is used in statistical analyses to encourage the SP to get as high a score as possible.
12. Also record hand dominance, i.e. right, left or ambidextrous (people who can **genuinely** write with both hands).

One Legged Stands

Eyes open

1. Ensure that the SP is wearing sensible flat shoes.
2. Remove all obstacles immediately surrounding the SP except for a table.
3. Explain to the SP that she will be standing on one leg and that it will be timed (without mentioning how long they will be timed for).
4. Instruct the SP to stand next to the table and grab it at any time they feel unbalanced. The FW should stand at the other side to also act as support should the SP need it.
5. Ask the SP to remain vertical during the stand and to stare straight ahead. Their arms should remain straight down by their sides.
6. Ask the SP to take a short time to choose a leg (but not to practise) and then to raise it off the floor to ankle height. The SP should bend the leg and the foot should be relaxed at ankle level. The stop watch should be started as the foot is raised and continued until the SP loses their balance and drops their foot, or has to reach out to the table for support.
7. Record this time on the Access direct data entry database.
8. If the SP remains on one leg for longer than 30 seconds instruct them to stop and record 30 seconds on the database.

Eyes shut

9. Repeat steps 3 – 7, but ask the SP to close her eyes for this second balance.
10. Record the time on the Access direct data entry database.

fm4pt001 Fieldworker for physical tests: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	177	1.2	5.9	5.9
	2	145	1.0	4.8	10.8
	3	296	2.0	9.9	20.6
	4	316	2.2	10.6	31.2
	5	115	.8	3.8	35.0
	6	115	.8	3.8	38.9
	7	312	2.1	10.4	49.3
	8	120	.8	4.0	53.3
	9	262	1.8	8.7	62.0
	10	122	.8	4.1	66.1
	11	4	.0	.1	66.2
	12	336	2.3	11.2	77.5
	13	280	1.9	9.3	86.8
	14	174	1.2	5.8	92.6
	15	12	.1	.4	93.0
	16	29	.2	1.0	94.0
	19	77	.5	2.6	96.6
	20	54	.4	1.8	98.4
	21	41	.3	1.4	99.7
	22	8	.1	.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4pt002 Consent to have physical tests: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2983	20.3	99.6	99.6
	2 No	12	.1	.4	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4pt002a Withdrew consent for physical tests: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	14	.1	.5	.5
	2 No	2981	20.3	99.5	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

2.9.1 Grip Strength

Average grip strength and maximum grip strength were calculated for the right hand, the left hand, and both hands combined. Right hand values are variables fm4pt012 (1st measure) and fm4pt014 (2nd measure), while left hand values are variables fm4pt013 (1st measure) and fm4pt015 (2nd measure). Hand dominance was also noted.

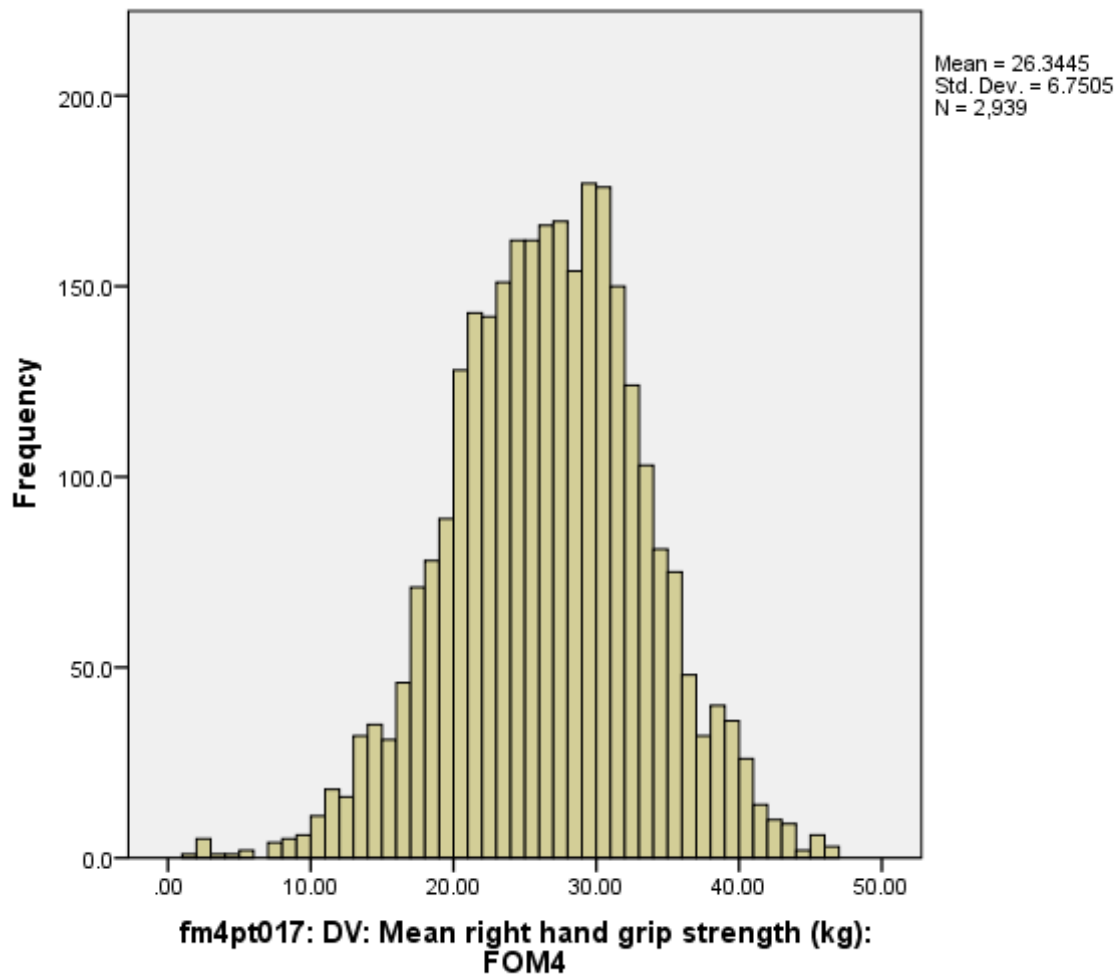
fm4pt010 Able to perform hand grip test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2950	20.1	99.3	99.3
	2 No	21	.1	.7	100.0
	Total	2971	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	24	.2		
	Total	11704	79.8		
Total		14675	100.0		

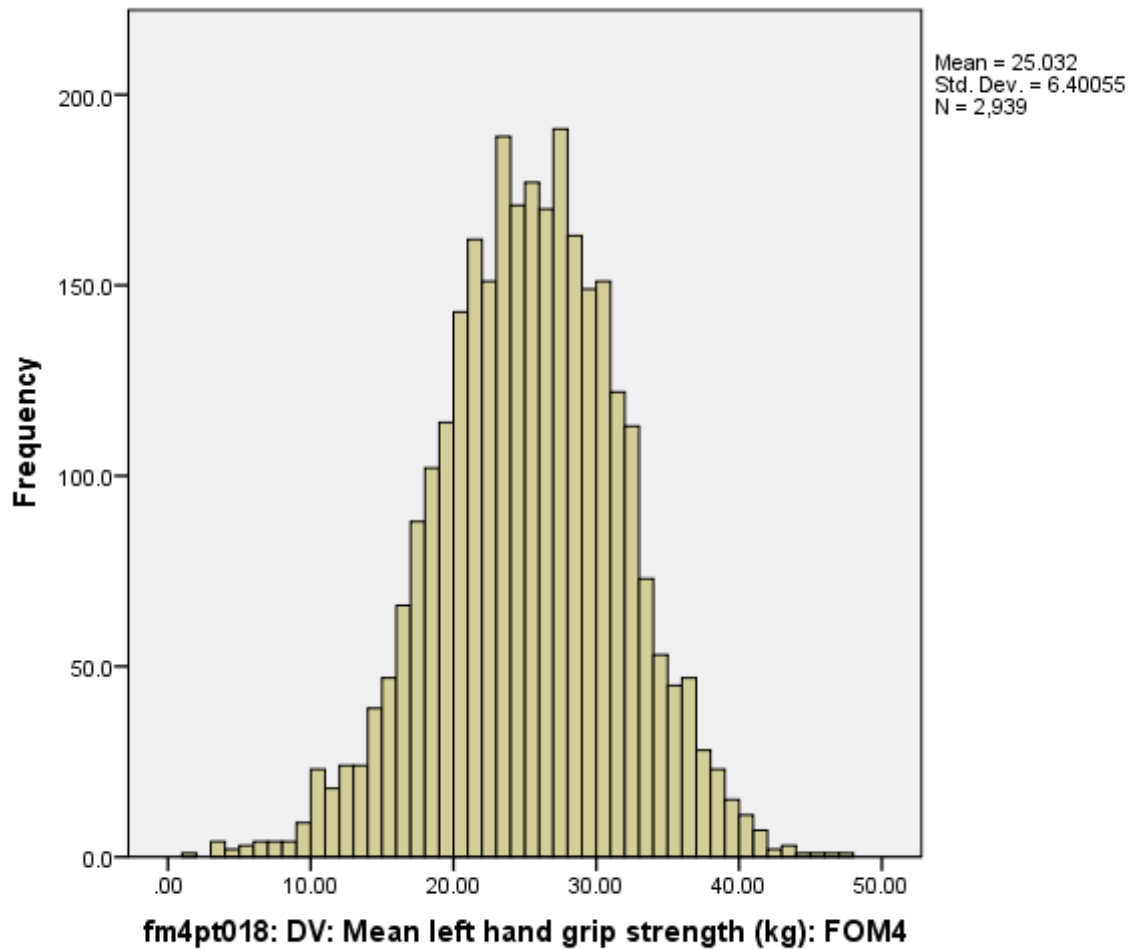
fm4pt016 Hand mostly write with: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Left	277	1.9	9.4	9.4
	2 Right	2661	18.1	90.2	99.6
	3 Ambidextrous	12	.1	.4	100.0
	Total	2950	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	45	.3		
	Total	11725	79.9		
Total		14675	100.0		

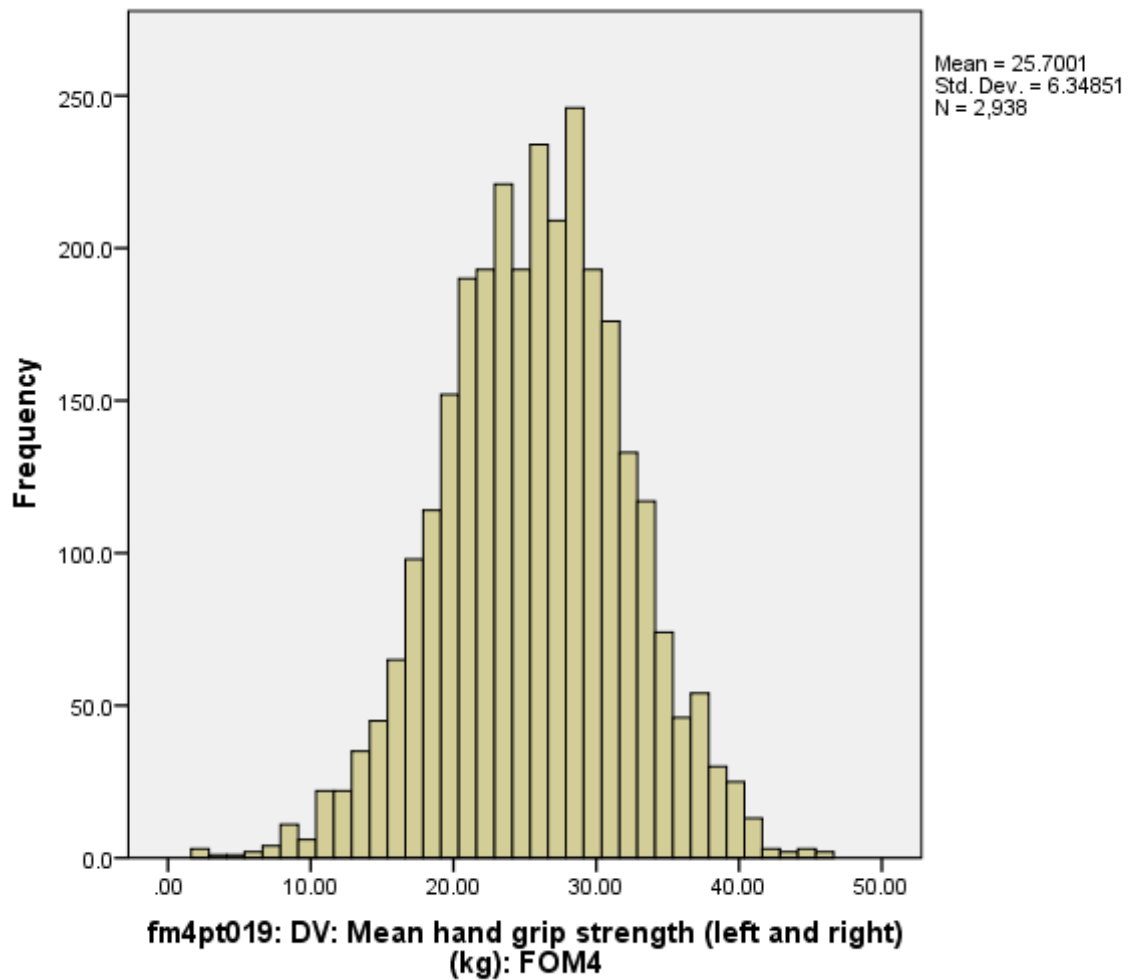
Derived variable (fm4pt017) – Mean of right hand grip measurements:
(fm4pt012+fm4pt014)/2. [If only one measure was taken, that one was used].



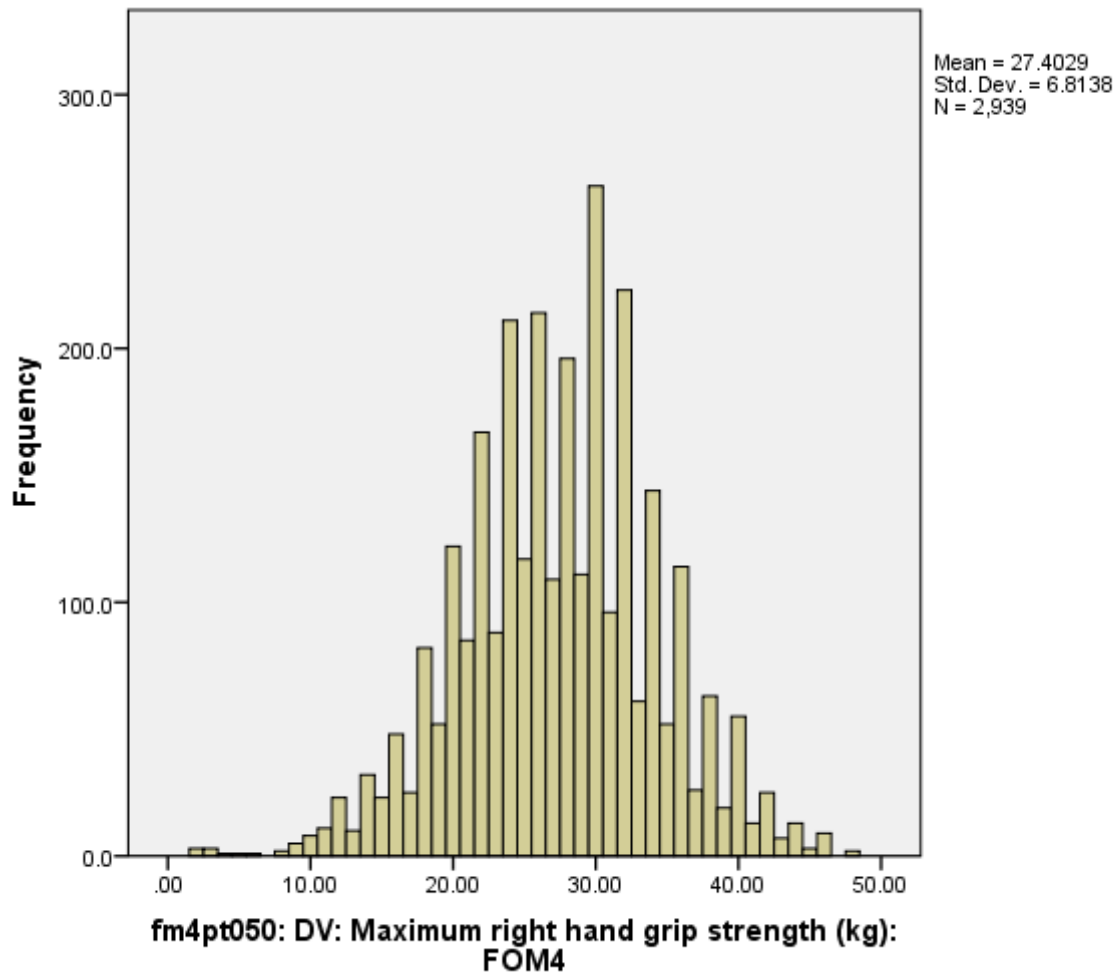
Derived variable (fm4pt018) – Mean of left hand grip measurements:
(fm4pt013+fm4pt015)/2. [If only one measure was taken, that one was used].



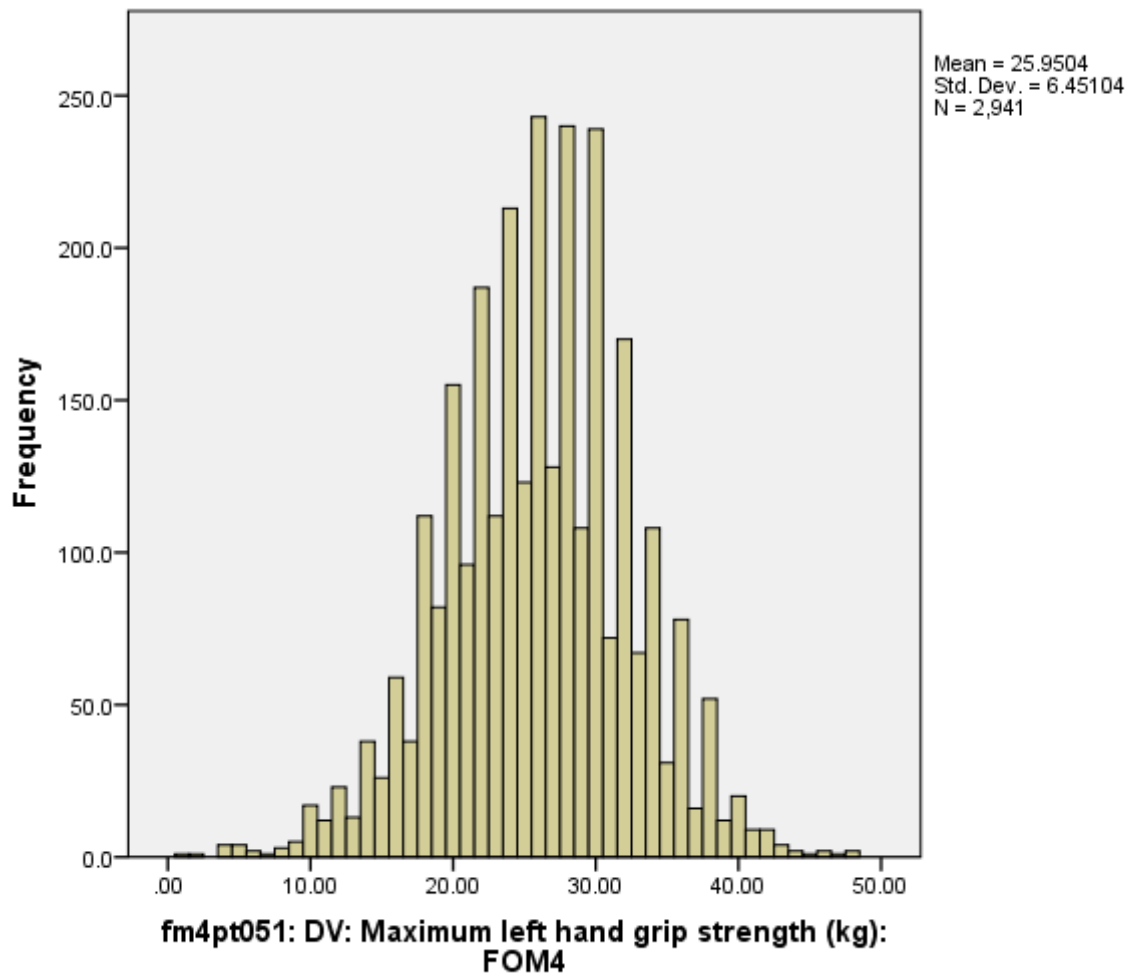
Derived variable (fm4pt019) – Mean of all hand grip measurements (both hands):
(fm4pt017+fm4pt018)/2. [If only one measure was taken, that one was used].



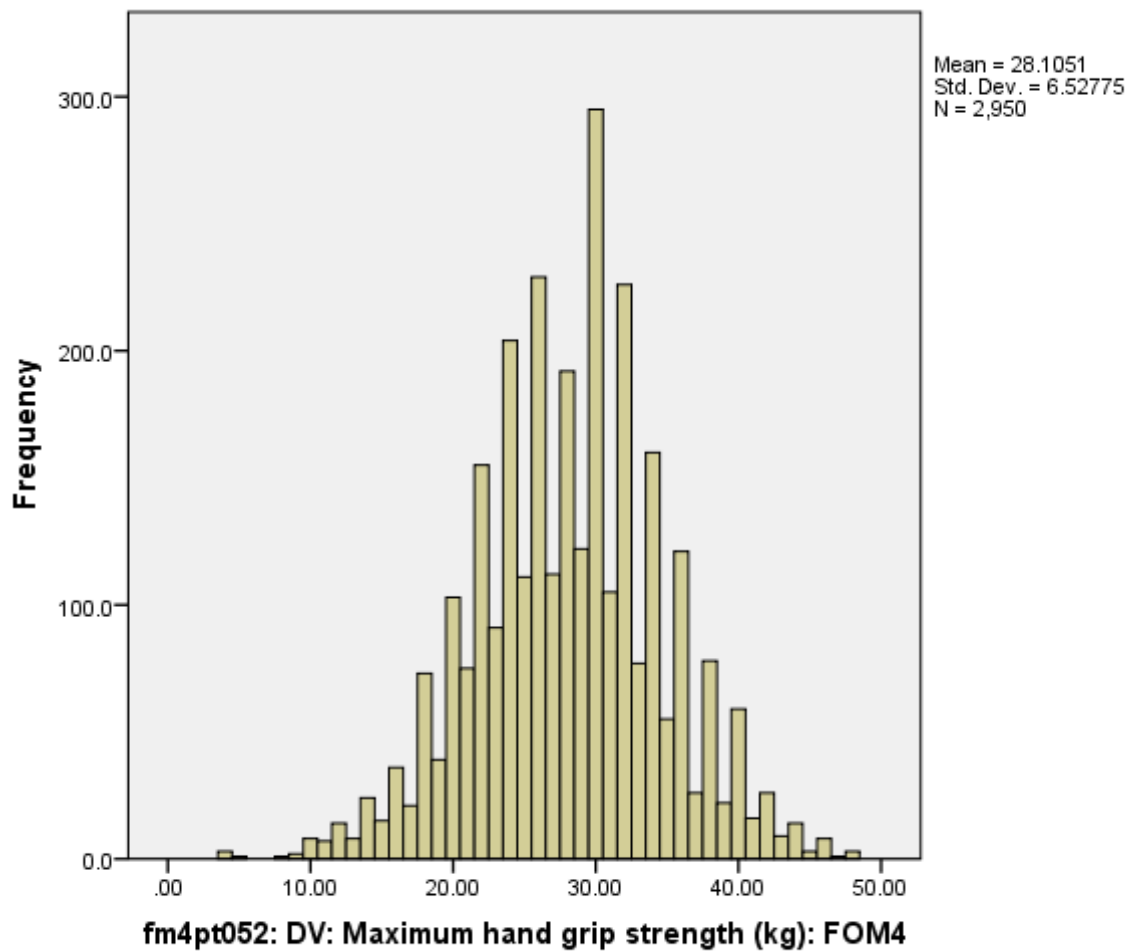
Derived variable (fm4pt050) – Maximum right hand grip measurement: highest value of fm4pt012 and fm4pt014). [If only one measure was taken, that one was used].



Derived variable (fm4pt051) – Maximum left hand grip measurement: highest value of fm4pt013 and fm4pt015). [If only one measure was taken, that one was used].



Derived variable (fm4pt052) – Maximum hand grip measurement (both hands): highest value of fm4pt050 and fm4pt051). [If only one measure was taken, that one was used].



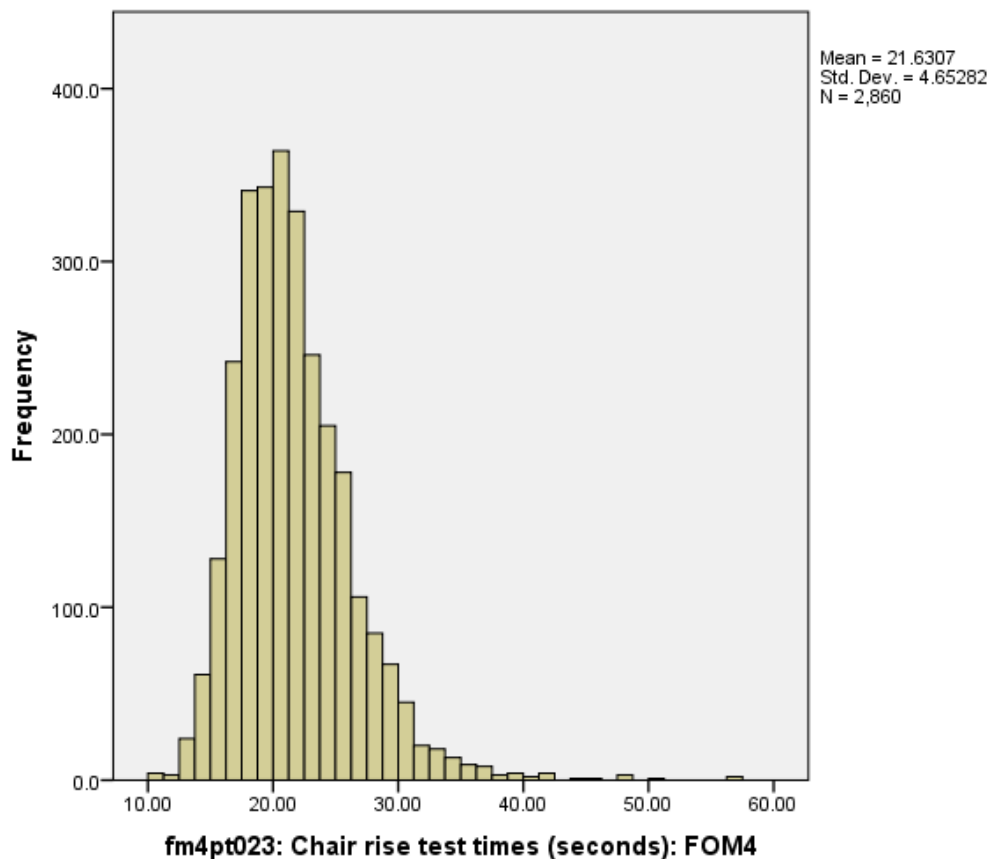
2.9.2 Chair Rises

fm4pt022 Able to perform chair rise test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2864	19.5	96.4	96.4
	2 No	107	.7	3.6	100.0
	Total	2971	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	24	.2		
	Total	11704	79.8		
Total		14675	100.0		

fm4pt024 Reason not able to perform chair rise test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Balance	1	.0	1.0	1.0
	2 Walking Aid	12	.1	11.4	12.4
	3 Injury	92	.6	87.6	100.0
	Total	105	.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2890	19.7		
	Total	14570	99.3		
Total		14675	100.0		



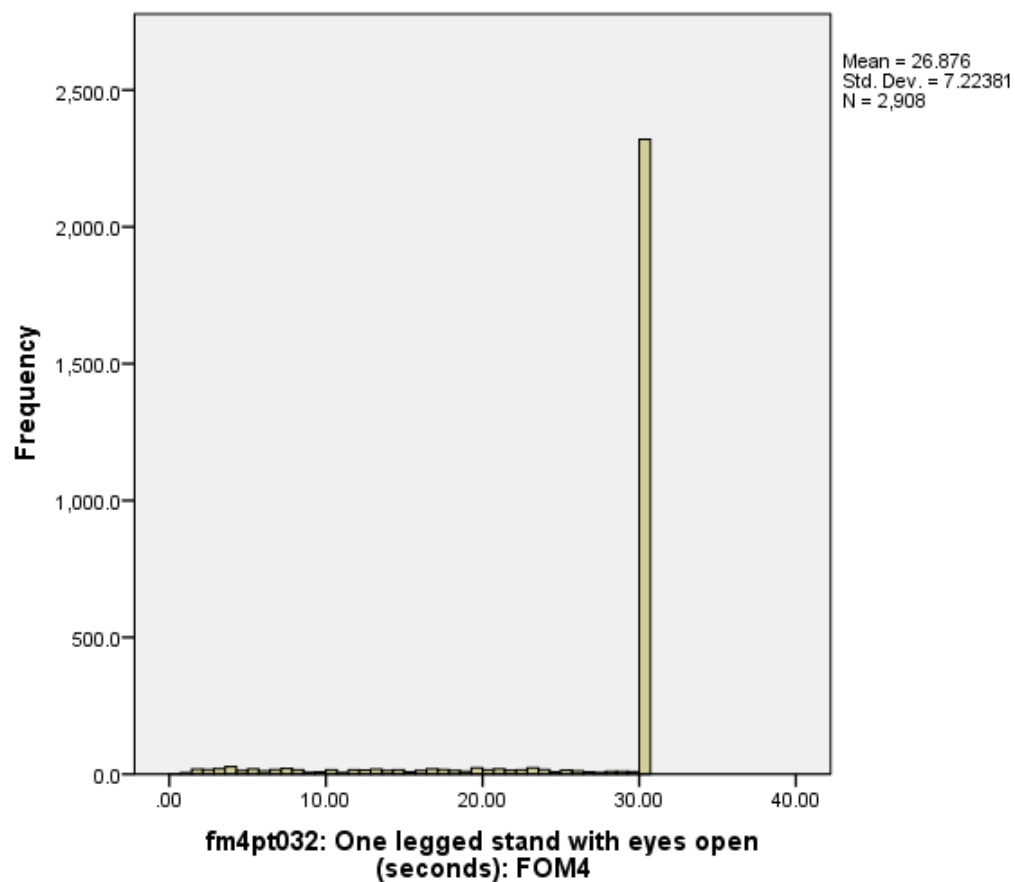
2.9.3. One Legged Stands

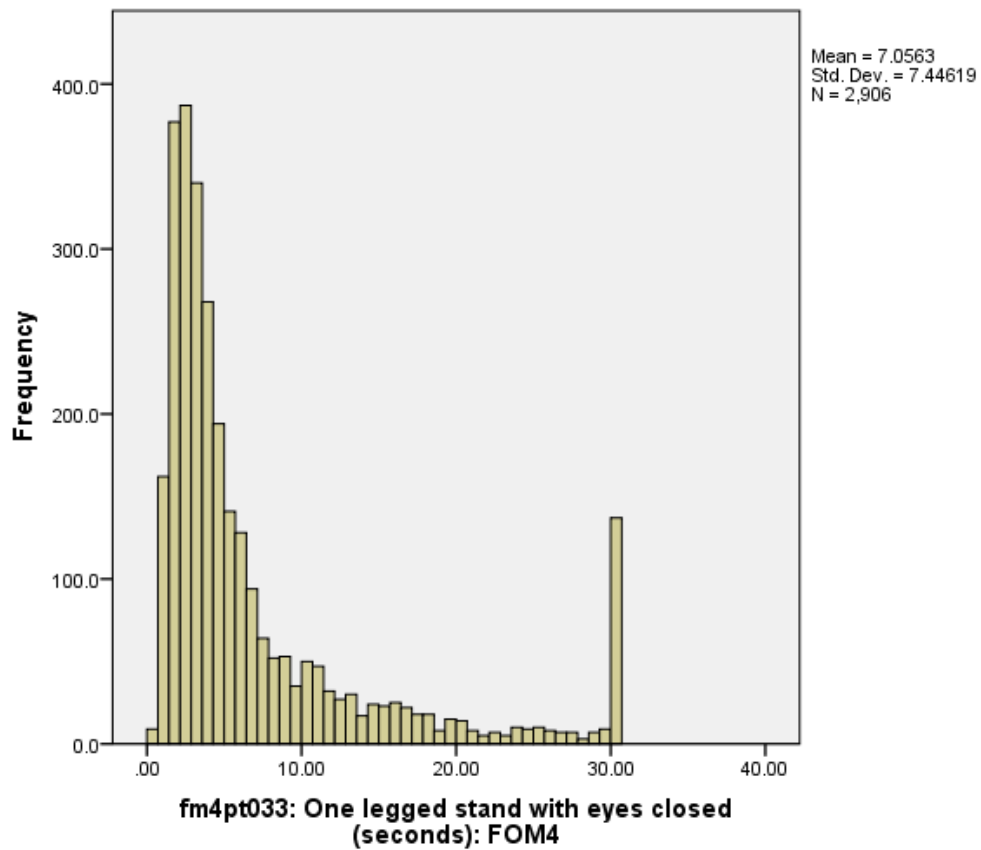
fm4pt030 Able to perform one legged stand test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2907	19.8	97.9	97.9
	2 No	63	.4	2.1	100.0
	Total	2970	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	25	.2		
	Total	11705	79.8		
Total		14675	100.0		

fm4pt031 Reason not able to perform one legged stand test: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Balance	9	.1	14.3	14.3
	2 Walking Aid	10	.1	15.9	30.2
	3 Injury	44	.3	69.8	100.0
	Total	63	.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2932	20.0		
	Total	14612	99.6		
Total		14675	100.0		





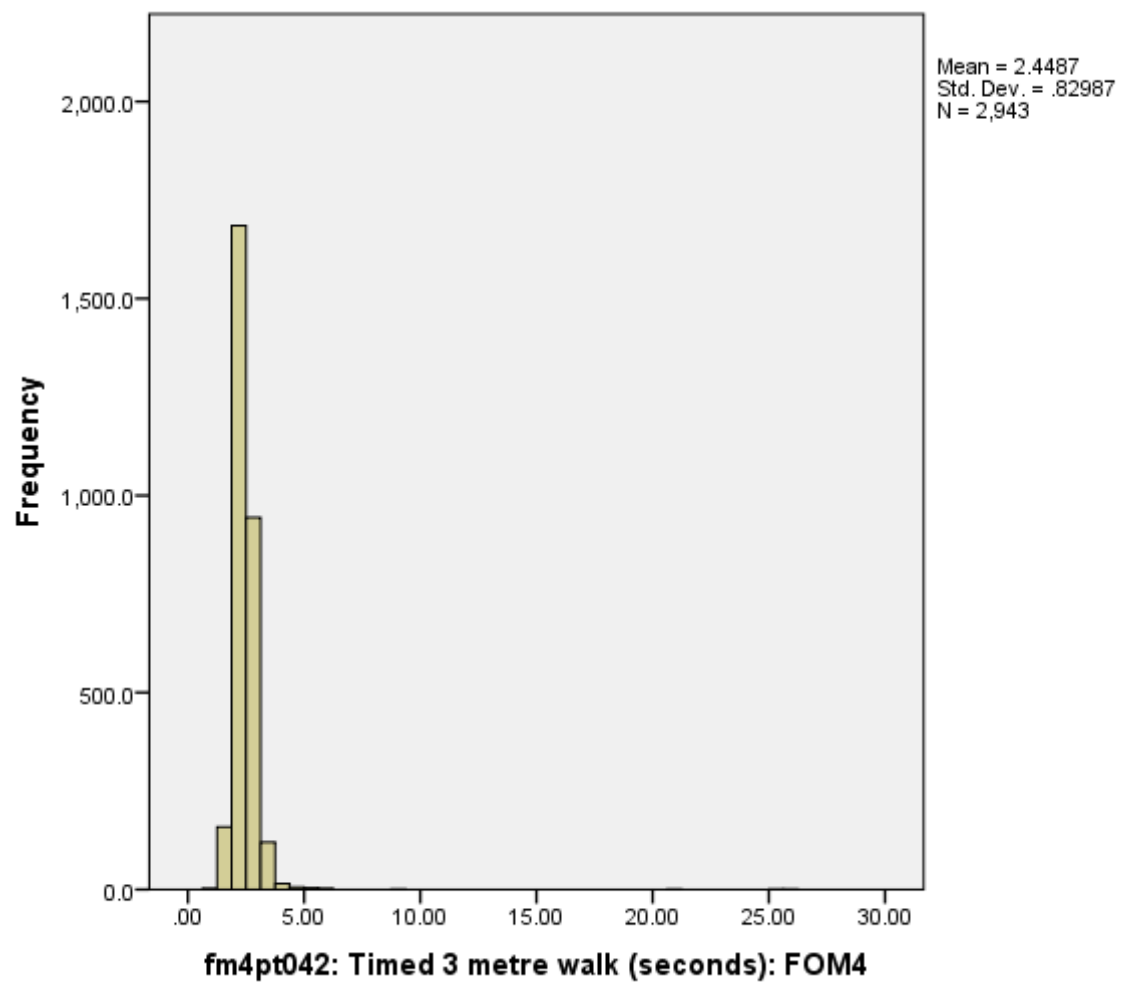
2.9.4. Timed 3 Metre Walk

fm4pt040 Able to perform 3 metre walk unaided: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2943	20.1	99.1	99.1
	2 No	27	.2	.9	100.0
	Total	2970	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	25	.2		
	Total	11705	79.8		
Total		14675	100.0		

fm4pt041 Reason not able to perform 3 metre timed walk: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stick	13	.1	48.1	48.1
	2 Frame	1	.0	3.7	51.9
	3 Person	13	.1	48.1	100.0
	Total	27	.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2968	20.2		
	Total	14648	99.8		
Total		14675	100.0		



2.10 Cognitive Tests

Tests were conducted in accordance with the following procedure instruction sheet. Quality control was conducted by collaborators from University of Edinburgh on a regular basis.

Logic Memory 1

- Before playing the standardised recording of the story, say:
'I am going to play a recorded reading of a short story. Please listen carefully and try to remember it just the way it is said, as close to the same words as you can remember. When I am finished, I want you to tell me everything you heard. Please tell me all that you can remember even if you are not sure. Are you ready?'
- *Play standardised recording of story*
- After *playing* the story, say: 'Tell me everything you can remember about this story. Please start at the beginning'
- After participant has finished recalling the story, say: 'Anything else?'
- Allow a few seconds for any further recall. Add any further response to the list. Allow approximately one minute.
- Then say: 'I want you to remember this story because I am going to ask you to tell me it again later'
- END OF TEST
- SCORING: Score 1 point for each correct item at each line. If the participant's response is not exactly as in the story, write it down and refer to the scoring guidelines. Enter the total number in the box.

Digits Backwards

- Say: "Now I am going to say some numbers. When I have said them I want you to say them backwards straight away. For example, if I say 7-1-9, what would you say?"
- If the *participant* responds correctly (9-1-7) say "That's right" and proceed to Trial 1 of Item 1.
- If the *participant* responds incorrectly, provide the correct response and say: "No, you would say 9-1-7. I said 7-1-9, so to say it backward, you would say 9-1-7. Now try these numbers. Remember, you are to say them backward: 3-4-8."
- Do not provide any assistance on this example or on any of the items. Whether or not the *participant* responds correctly (i.e. 8-4-3), proceed to Trial 1 of Item 1.
- *Participants must respond immediately, without repeating the numbers to themselves or spending too much time thinking about the answer.*
- Write the respondents scores on the answer sheet.
- Discontinue Rule: Discontinue if a participant scores 0 on both trials of any item.
- END OF TEST
- SCORING:
Each item is scored 0, 1 or 2 points as follows:
2 points = if the participant passes both trials
1 points = if the participant passes only 1 trial
0 points = if the participant fails both trials
Maximum score = 14 points

Spot-the-Word Test

- Hand the participant the sheet titled “Instruction Sheet and Practice Items”. Read through the instructions with the participant: ‘Each of the pairs of words below contains one real and one nonsense word, which is a word made-up to look like a word, but it has no real meaning. Please place a tick next to the word in each pair that you think is the real word. If you think the word on the left of the pair is the real word, put a tick in the column to the left; if you think the item on the right is the real word, put a tick in the column to the right. Some will be common words, most will be uncommon and some very rarely used. We don’t expect people to know all of the words, so if you are unsure just guess, you will probably be right more often than you think. Before we move on to the main test, try the following practice ones. If you think the word on the left of the pair is the real word (point to items on the left), put a tick in the column to the left (point to the column on the left of the word pair). If you think the word on the right of the pair is the real word (point to items on the right), put a tick in the column to the right (point to the column on the right of the word pair).’
- *Score the practice items to ensure the participant has understood the instructions. If there were any mistakes, correct the items and reassure the subject that many of the words are very uncommon and it is fine to guess if need be.*
- Check that the participant understands the task and ask if he/she has any questions. Answer any questions and then give the participant the sheet titled “Test Sheet”.
- Say: ‘This is the real list now. Please complete all of them. If you do not know the answer, just have a guess and move on to the next one. Are you ready? ... Go.’
- If the participant is taking too long on any question, prompt them to guess. When they have finished, check that they have answered all questions and ticked only one word in each question. If they have missed any ask them to complete the remaining questions.
- END OF TEST
- SCORING: Score 1 point for each correct answer.

Digit Symbol Coding

- Before administering the test, say: ‘In this test, I’m going to ask you to copy some symbols. Look at these boxes.’
- Point to squares immediately under heading ‘Digit Symbol-Coding.’ Say ‘Each box has a number in the upper part and a special mark in the lower part. Each number has its own mark. The squares have numbers in the top part but the squares at the bottom are empty.’
- Point to squares immediately under heading ‘Sample items’. ‘In each of the empty squares, put the mark that should go there. Like this.’
- Point to the first number on the left hand side, the number 2. ‘Here is a 2; the 2 has this mark. So I put it in this empty square, like this.’ Fill in the appropriate symbol under the number 2. ‘Here is a 1; the 1 has this mark, so I put it in this square.’
- Point to the next number and fill in the appropriate symbol under the number 1. ‘This number is a 3; the 3 has this mark. So I put it in the square.’
- Point to the next number and fill in the appropriate symbol under the number 3. ‘Now you fill in the squares up to this heavy line.’
- Point to the thick black line between the number 8 and the number 2. Supervise participant filling in remaining 4 squares.
- Say ‘Now you know how to do them. When I tell you to start, you do the rest of them. Begin here.’

- Point to the first number after the thick black line, the number 2. Say 'Fill in as many squares as you can one after the other without skipping any. Keep working until I tell you to stop. Work as quickly as you can and try not to make any mistakes. When you finish this line, go on to the next one. Go ahead.'
- Start the stopwatch. After 120 seconds, say: 'Stop'
- END OF TEST
- SCORING: Score 1 point for each correct entry done in the allocated time.

Verbal Fluency Test

- Before administering, say: 'I am going to give you a letter from the alphabet and I'd like you to say as many words as you can think of that begin with that letter. You can't include proper nouns, like people's names or towns or numbers, or any word which would have a capital letter. You also can't include the same word with different ending. For example, if the letter was S then 'see' as in 'to look' is allowed but you can't also have 'seeing'. We can practice first with the letter S if you wish. Do you want to practice?'
- After *participant* has said 3 to 4 correct words beginning with S, say: 'I am going to give you 3 different letters. We will do them one at a time and you have one minute to tell me as many words as you can beginning with that letter. The first letter is C for cat. Are you ready? Begin!'
- Time 1 minute with stopwatch and write down all the words the *participant* says in the allocated time under the letter C.
- Say 'The second letter is F for fun. Are you ready? Begin!'
- Time 1 minute with stopwatch and write down all the words the *participant* says in the allocated time under the letter F.
- Say 'The last letter is L for log. Are you ready? Begin!'
- Time 1 minute with stopwatch and write down all the words the *participant* says in the allocated time under the letter L.
- If the *participant* appears to be struggling, say gently and encouragingly: 'It's OK, keep going'.
- END OF TEST
- SCORING: Score one point for each correct entry done in allocated time. Total score is obtained as a summary of scores from all three columns.
- Note: if the participant produces words too quickly, note one point for each correct entry without writing the actual word. Make sure not to allocate any point for proper nouns, numbers and repeats.

Logical Memory – Delay

- Say: 'Do you remember the story you heard a little while ago? I want you to tell me the story again. Tell me everything that you can remember about the story. Start at the beginning.'
- If the person does not recall any story units, say: 'The story was about a lady who was robbed.'
- Tick the sheet for each correct response; write anything on sheet which is not said exactly the same as was read.
- After the *participant* has finished recalling the story, ask: 'Anything else?'
- Allow a few seconds for any further recall. Add any further responses to list.
- END OF TEST
- SCORING: Score 1 point for each correct item at each line. If the participant's response is not exactly as in the story, write it down and refer to the scoring guidelines. Enter the total number in the box.

Scoring Procedures

- Logic Memory scoring guidelines and instructions are provided on the datasheet 'Focus on Mothers 2 Participant Test Sheet'.
- Digits Backwards and Spot-the-Word scoring is conducted using acetate templates to overlay the study person's datasheet.
- Scores for all tests are entered by the fieldworker onto the computer database.

fm4cg001 Fieldworker for Cognitive tests: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	177	1.2	5.9	5.9
	2	142	1.0	4.7	10.7
	3	290	2.0	9.7	20.3
	4	322	2.2	10.8	31.1
	5	130	.9	4.3	35.4
	6	119	.8	4.0	39.4
	7	303	2.1	10.1	49.5
	8	116	.8	3.9	53.4
	9	274	1.9	9.1	62.5
	10	125	.9	4.2	66.7
	11	6	.0	.2	66.9
	12	317	2.2	10.6	77.5
	13	284	1.9	9.5	87.0
	14	177	1.2	5.9	92.9
	15	15	.1	.5	93.4
	16	28	.2	.9	94.3
	19	72	.5	2.4	96.7
	20	50	.3	1.7	98.4
	21	39	.3	1.3	99.7
	22	9	.1	.3	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4cg002 Consent to have Cognitive tests: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2883	19.6	96.3	96.3
	2 No	112	.8	3.7	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4cg002a Withdrew consent for Cognitive tests: FOM4

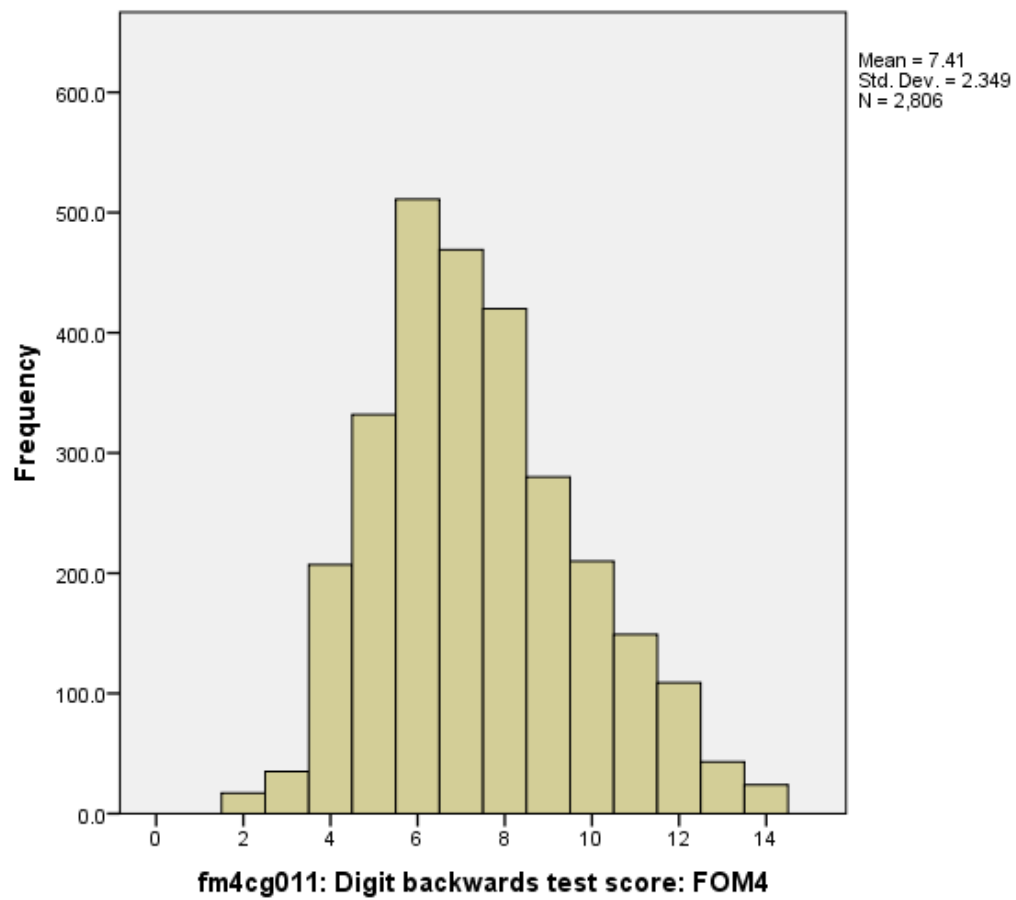
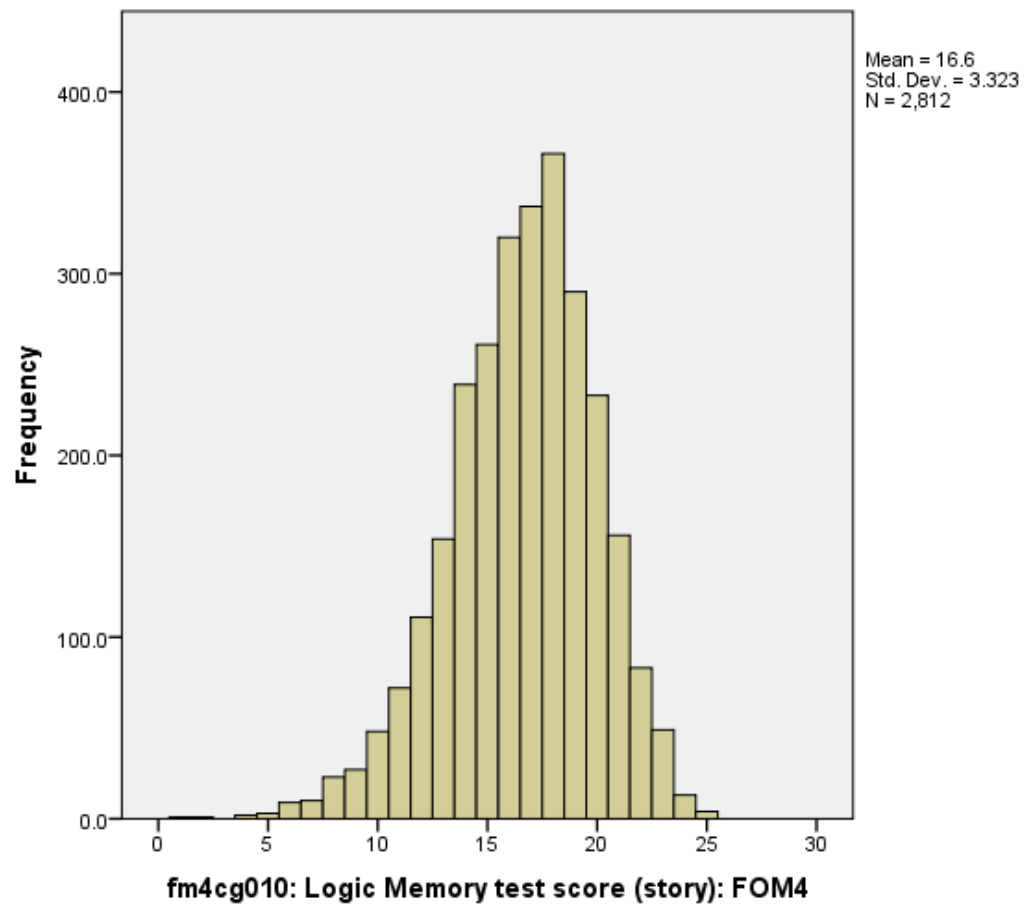
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	66	.4	2.2	2.2
	2 No	2929	20.0	97.8	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

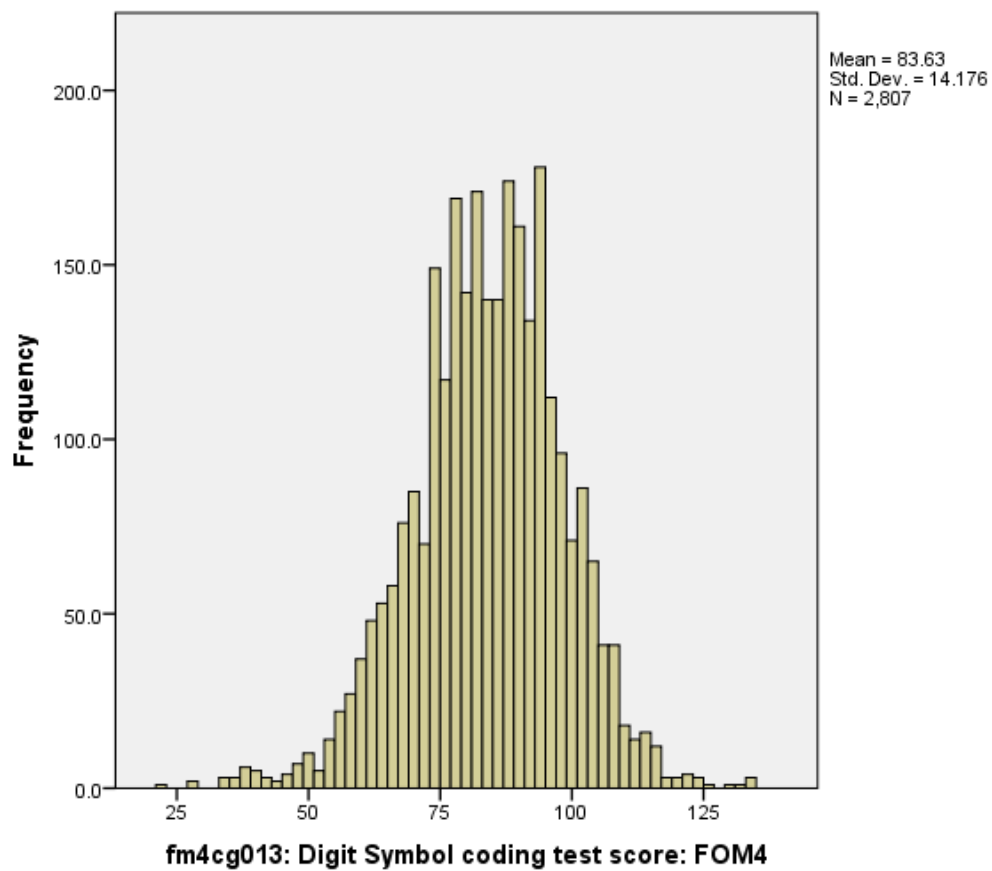
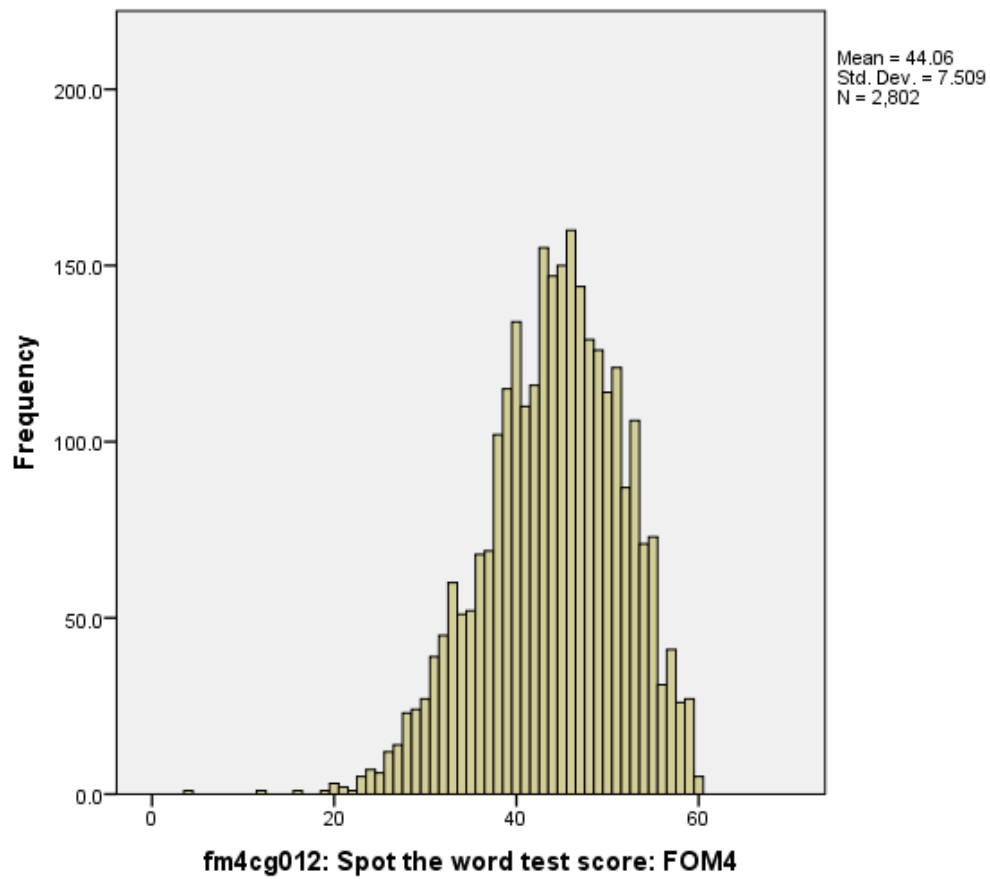
fm4cg020 Cognitive tests completed: FOM4

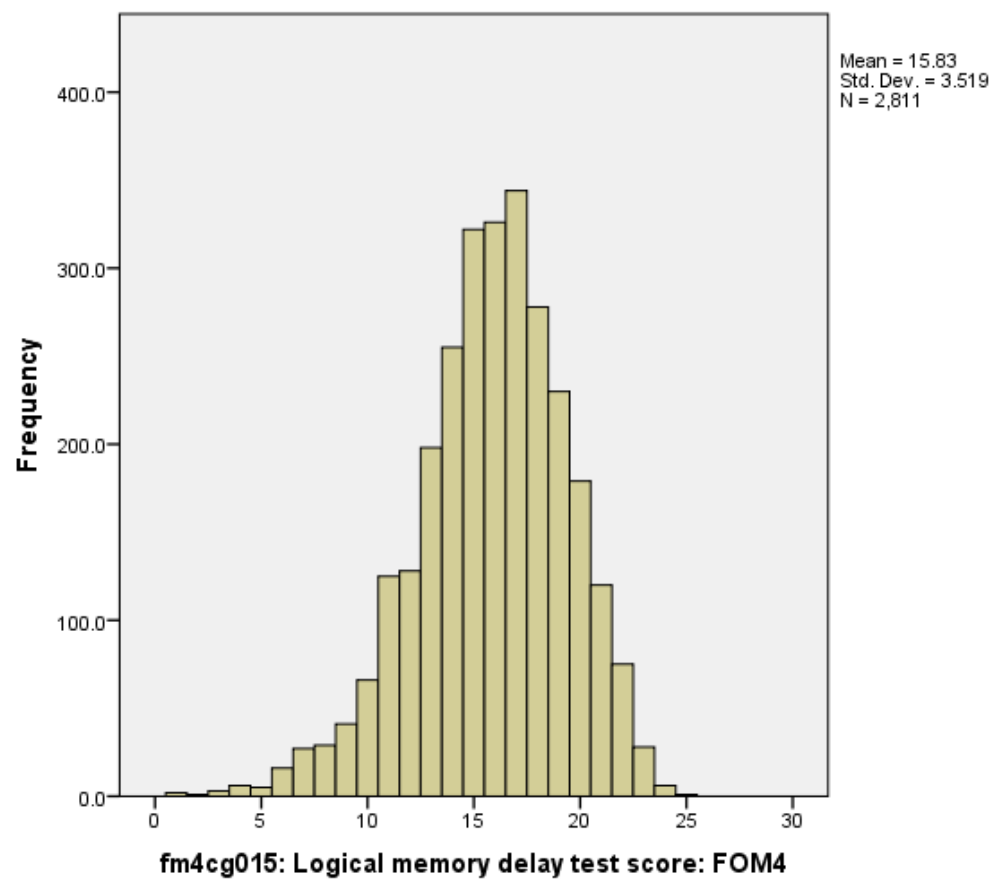
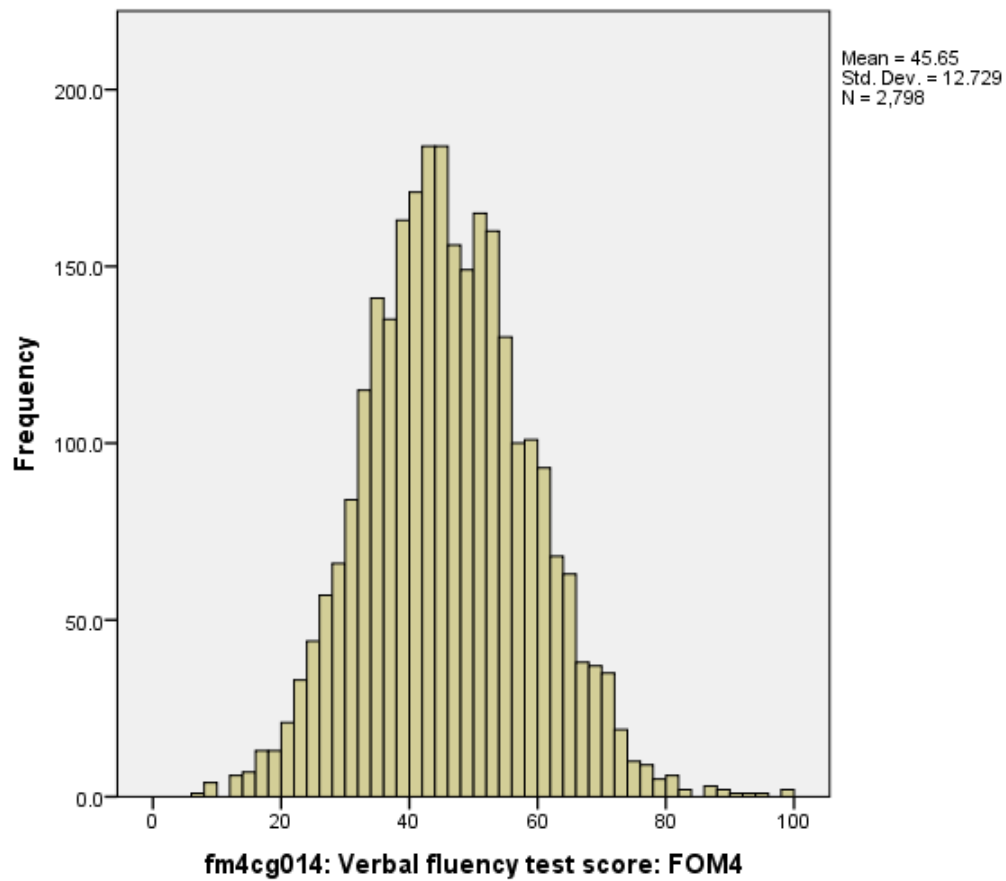
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2815	19.2	94.0	94.0
	2 No	180	1.2	6.0	100.0
	Total	2995	20.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	Total	11680	79.6		
Total		14675	100.0		

fm4cg020a Reason cognitive tests not completed: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 English participant's second language	35	.2	34.0	34.0
	2 Participant not feeling well	23	.2	22.3	56.3
	3 Test disrupted	45	.3	43.7	100.0
	Total	103	.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	2892	19.7		
	Total	14572	99.3		
Total		14675	100.0		







2.11 BCG Scar Size

Participant's BCG scars were measured and described as part of a sub-study to assess the genetics of scarring. A BCG immunisation is a vaccine against tuberculosis, which was routinely given to children at schools between the 1960s and 2005. First, a skin test was carried out to assess if there was a previous history of tuberculosis. Only if the test was negative, the BCG injection was given 2-3 days later into the non-dominant arm (e.g. the left arm of right handed people). This injection leads to a characteristic scar in most cases, which differs in size and character in every person.

The procedure was as follows: i) participants were asked if they had a BCG scar; ii) if so, when this took place; iii) the size of the BCG scar was measured; iv) the colour of the scar; and v) the appearance of the scar (raised (keloid), flat, or pitted).

Note that as this measure was introduced part way through the FoM4 clinic (July 2014), not all Mothers attended this session.

fm4bc001 Fieldworker for BCG session: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	106	.7	5.4	5.4
	2	97	.7	5.0	10.4
	3	202	1.4	10.3	20.7
	4	195	1.3	10.0	30.6
	5	77	.5	3.9	34.6
	6	51	.3	2.6	37.2
	7	219	1.5	11.2	48.3
	8	23	.2	1.2	49.5
	9	197	1.3	10.1	59.6
	10	73	.5	3.7	63.3
	12	259	1.8	13.2	76.5
	13	181	1.2	9.2	85.8
	14	86	.6	4.4	90.1
	15	6	.0	.3	90.5
	16	27	.2	1.4	91.8
	19	71	.5	3.6	95.5
	20	50	.3	2.6	98.0
	21	31	.2	1.6	99.6
	22	8	.1	.4	100.0
	Total	1959	13.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1036	7.1		
	Total	12716	86.7		
Total		14675	100.0		

fm4bc010 Consent to questions about BCG injection and scar: FOM4

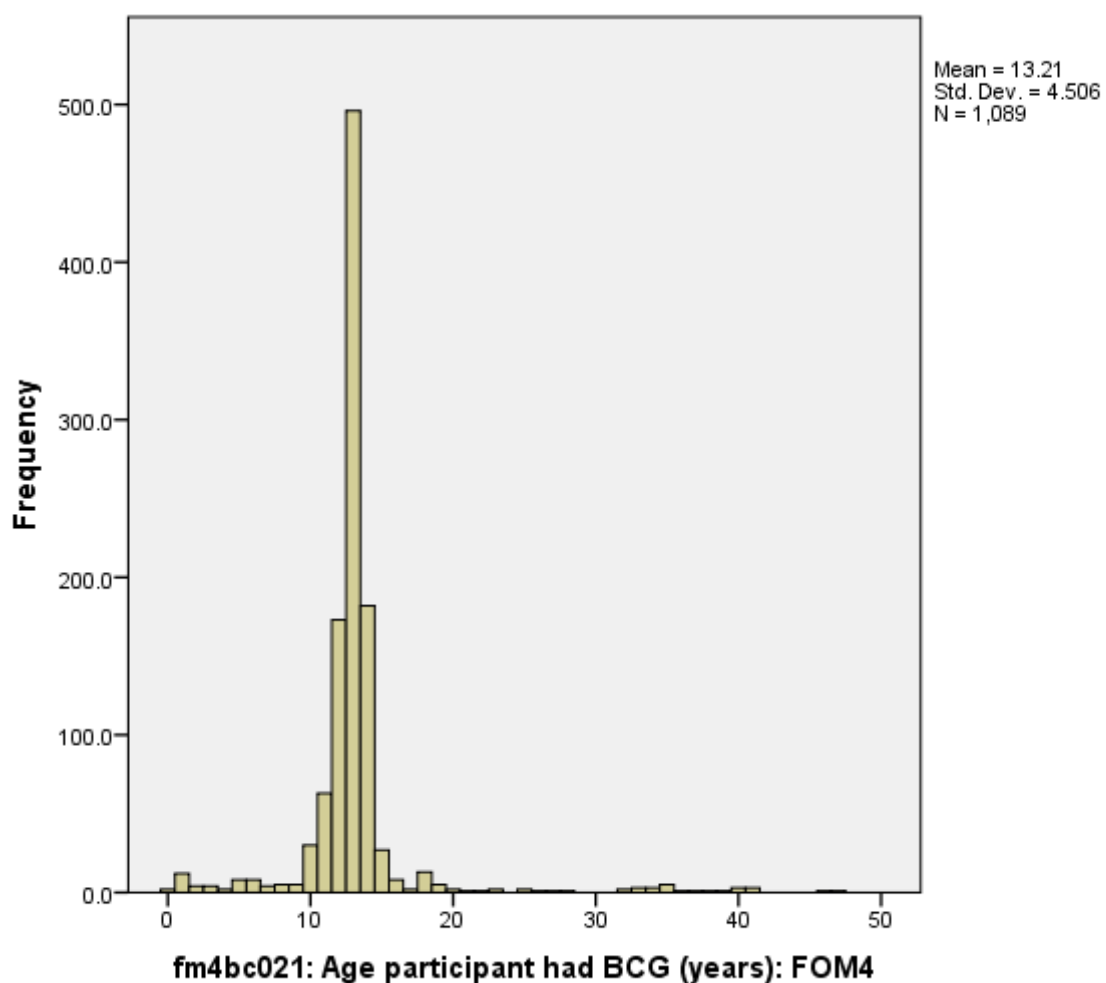
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1958	13.3	99.9	99.9
	2 No	1	.0	.1	100.0
	Total	1959	13.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1036	7.1		
	Total	12716	86.7		
Total		14675	100.0		

fm4bc010a Withdrew consent for BCG questions: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	1959	13.3	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1036	7.1		
	Total	12716	86.7		
Total		14675	100.0		

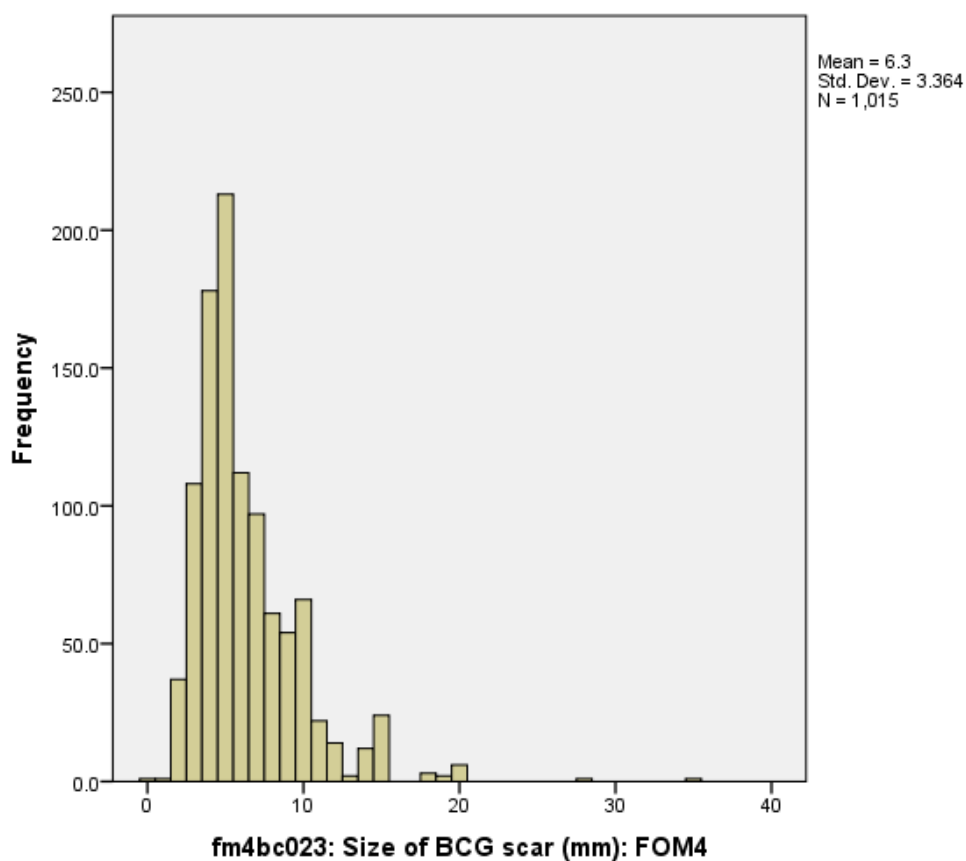
fm4bc020 Participant remembers having BCG injection: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1206	8.2	61.8	61.8
	2 No	747	5.1	38.2	100.0
	Total	1953	13.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1042	7.1		
	Total	12722	86.7		
Total		14675	100.0		



fm4bc022 BCG scar present: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	958	6.5	50.8	50.8
	2 No	928	6.3	49.2	100.0
	Total	1886	12.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1109	7.6		
	Total	12789	87.1		
Total		14675	100.0		



fm4bc024 Description of BCG scar: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Raised (keloid)	181	1.2	17.9	17.9
	2 Flat	653	4.4	64.4	82.2
	3 Pitted	180	1.2	17.8	100.0
	Total	1014	6.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1981	13.5		
	Total	13661	93.1		
Total		14675	100.0		

fm4bc025 Colour of BCG scar: FOM4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Lighter than skin	800	5.5	78.9	78.9
	2 Darker than skin	47	.3	4.6	83.5
	3 Same as surrounding skin	167	1.1	16.5	100.0
	Total	1014	6.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11679	79.6		
	-1 Missing	1981	13.5		
	Total	13661	93.1		
Total		14675	100.0		

3. References

Fraser A, Macdonald-Wallis C, Tilling K, Boyd A, Golding J, Davey Smith G, Henderson J, Macleod J, Molloy L, Ness A, Ring S, Nelson SM, Lawlor DA. Cohort profile: the Avon Longitudinal Study of parents and Children: ALSPAC mothers cohort. *Int J Epidemiol.* 2013; 42: 97-110.

4.1 Consent forms

Permission to use blood sample for cell lines

CONSENT

I agree to having the following blood samples taken for analyses for the Children of the 90s study: (If you consent, please cross the box below)

The University of Bristol holds legal liability insurance in the event that any participant is injured due to any negligence on the part of the University.



Focus on Mothers 4

Oakfield House, Oakfield Grove
Clifton, Bristol BS8 2BN

Tel: 0117 331 0012
There is an answer phone on this line

E-mail: admin@childrenofthe90s.ac.uk

Permission to complete and use clinic data

We would like to ask you to undertake all of the following measurements/procedures:

Please cross the boxes and initial to indicate that you consent, or leave blank if you do not consent. Also cross and initial to indicate whether you would like us to inform you, and give you a letter to give to your GP, if the results of tests marked * give cause for concern.

- (a) DXA scan of bone density*, fat and muscle mass
- (b) Weight, height, waist, hip and arm circumference
- (c) Blood pressure* and pulse pressure
- (d) pQCT of arm and wrist
- (e) Physical capability tasks
- (f) Assessment of thought processes
- (g) Ultrasound scan of the carotoid artery
- (h) Wound Healing (BCG scar)

I understand that donated blood will be considered a gift but I will have the right to withdraw permission for analysis.

Fasting blood sample for:

- (i) Haemoglobin (test for anaemia)*
- (j) Glucose (sugar)*
- (k) Lipids (forms of cholesterol)*
- (l) Storage for future non genetic research
- (m) Storage for future genetic research
- (n) Hormones related to reproduction and menopause

1. Consent to test		2. Consent to inform	
Cross box	Initial	Cross box	Initial
<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		
<input type="checkbox"/>	<input type="text"/>		

Signature

Date signed

 / / 20

Initial

Last Name

17759

The University of Bristol holds legal liability insurance in the event that any participant is injured due to any negligence on the part of the University.



4.2 Comparison of data collected over the four FoM clinics. Note that even though the same type of data may have been collected (e.g., anthropometry or hormone use), some methods of data collection differed between the clinics so occasional variables may not be consistent across the FoM clinics.

Data	FoM1	FoM2	FoM3	FoM4
Anthropometry	Yes	Yes	Yes	Yes
DXA scans (full-body and hip)	Yes	Yes	Yes	Yes
Blood samples ^a	Yes	Yes	Yes	Yes
Hormone use and menstruation	Yes	Yes	Yes	Yes
Blood pressure	Yes	Yes	Yes	Yes
pQCT scan ^b	No	Yes	Yes	Yes
Physical tests	No	Yes	Yes	Yes
Cognitive tests	No	Yes	Yes	Yes
Carotid intima-media thickness (cIMT) scan	Yes	No	No	Yes
Mammogram use	Yes	No	No	No
Assessment of physical activity (accelerometer)	No	No	Yes ^c	No
3D body scan	No	No	Yes ^d	No
BCG scar size	No	No	No	Yes

^a Note that blood samples do not appear in this 'clinic' release file, but rather are in the 'sample' release file. All blood assay results will be available in the mother's sample release file as data becomes available.

^b Note that pQCT data are currently not available for any of the FoM clinics (other than preliminary pQCT data in FoM2). Once they have been processed they will be made available for release.

^c Note that the physical activity data for FoM3 has not been processed yet. Once this has been processed the data will be made available for release.

^d Note that the 3D body scan data for FoM3 has not been processed yet. Once this has been processed the data will be made available for release.

4.3 Medication and allergy form



Focus on Mothers 4 Medications and Allergies Form v1

Focus on Mothers 4



Medications

Q1. Are you currently taking any regular medication? Yes No

If yes, please tell us which medications you are currently taking?

The fieldworker will ask you for the name, reason, how often you take them.

If you are unsure of the name or amount of any of your medications please bring the container/package to the clinic with you.

	Name of Medication (Please copy name in full from container)	Amount, and how often (please copy from container)	Reason for taking	Type	
				Prescribed or Bought (please circle)	
1				1	2
2				1	2
3				1	2
4				1	2
5				1	2
6				1	2
7				1	2
8				1	2
9				1	2
10				1	2
11				1	2
12				1	2
13				1	2
14				1	2
15				1	2

If you require extra space, please continue overleaf.

**Allergies**

Q2. Do you have any allergies?

Yes

No

If yes, please describe what you are allergic to below.

1

2

3

4

5

6

7

8

9

10
