THE ALSPAC STUDY

Focus on Mothers 2

Prepared by:
The ALSPAC Study Team

Documentation giving frequencies, background and instructions for use.

Version 4a: January 2019

1. Introduction

1.1 Background

The main purpose of this study is to determine what factors are related to body size, bone density, blood pressure, glucose, insulin and abnormal blood lipids in women, before age-related changes occur and prior to large numbers having to take medications that would affect these factors. The “Focus on Mothers” 2 clinic is the second 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 2” hands-on data collection started in July 2011. All visits were completed by June 2013.

1.2 Sample and response rates

There are a total of 14,670 records on the built file with 2,973 women having attended the FOM2 clinic, however there are a total of 2,892 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 FOM2), plus 129 eligible mothers not in the core sample to whom invites were sent out. Invitations to FOM2 were sent out to a total of 5,054 study mothers (34.8% of cohort invited; 58.8% 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 fm2a001 and fm2a005 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 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:

Time	*Session*
20 mins	Consent and fasting blood sample, medications check and menstrual questionnaire
20 mins	Café
20 mins	Measuring (BP and pulse, weight, height, (standing and seated), waist circumference, arm circumference and hip size. Also includes DXA (whole body and hip) and pQCT (radial) scans.
20 mins	Physical capability (hand grip, chair rises, static balance (one legged stand), timed 3 metre walk)
40 mins	Cognitive activities (logic memory, digit backwards, digit symbol coding, verbal fluency, spot the word)

Each visit therefore lasted approximately 2 hours.

1.5 Data file structure

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

Variables are given the prefix fm2xx and a 3-digit number, where xx denotes the session from which the data were collected (e.g. variables from the measures session are fm2ms100, fm2ms101, etc). Variables with the prefix fm2a and a number (e.g. fm2a011) 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 tables, as appropriate.

1.7 Important Note for all data users

Please be aware that some women <u>may</u> 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_fm2 Entry is a duplicate - Remove if only looking at Mothers: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	80	.5	2.7	2.7
	2 No	2892	19.7	97.3	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

1.8 Built file version history

Version 1 – released March 2015

Version 2a – released January 2017

Details of additions/corrections from previous release file:

- Updated 'mult_mum' variable so that coding is consistent between FoM2 and FoM1 release file.
- pQCT data has been removed from the release file as this requires re-processing in order for the data to be comparable across all FoM clinics.

Version 3a – released February 2018

Details of additions/corrections from previous release file:

- The original pQCT data from version 1 has been re-included to this file until the pQCT data has been re-processed. Once this has been done, the re-processed data will be added and the original pQCT data removed. Note that there are no known issues with the pQCT data, but rather it requires re-processing so that all pQCT variables are consistent across all FoM clinics.
- Additional multiple pregnancies missed during the creation of previous built versions have been added.
- Updated some outliers missed in previous built file: height (fm2ms100); sitting height (fm2ms101); leg length (fm2ms103); left grip strength (fm2pt013); 3 metre walk (fm2pt042); and logical memory delayed test score (fm2cg015). Impossible anthropometric values have been coded based on measures from other FoM clinics (where possible), while other impossible values have been coded as a missing 'unresolvable' value (-8).
- Original DXA variables have been removed and replaced by re-processed DXA data. Note that the previous data was not incorrect, but the re-processed data contains additional variables not previously included and makes the variables comparable between this and all other FoM clinics.
- pQCT consent variable has been added (fm2pq001).
- Several variables in the 'measurements' section were in decimetres, but have now been converted to centimetres for consistency with other FoM clinics.
- Recalculated averages for variables based on two measurements (e.g., anthropometrics, blood pressure, pulse rate, grip strength). In previous version for cases where only one measurement was taken, the average was incorrectly calculated. This has now been updated so that if only one measurement was recorded, this value is used for the averaged derived variable.
- New derived grip strength variables to indicate maximum value reached.
- New derived variables to identify length of time between last meal and blood sampling, and whether this was longer than 8 hours (the proposed minimum fasting time prior to bloods sample).
- The 'reinvite' variable has been removed.
- The full sample of core ALSPAC mothers have been included (in addition to those who attended).
- Missing age (fm2a011) for one mother has been added.

Version 4a – released January 2019

Details of additions/corrections from previous release file:

- New variables relating to whether certain medications were being taking have been derived from the medications text data. These include:
    - Statins (fm2sa201)
    - Diabetes medication (fm2sa210)
- During this process, it was also noticed that a number of Mothers were incorrectly categorised as either taking or not taking any medication (variable fm2sa068). This variable has therefore been updated.

2. The Data and Observations

2.1 Administrative Variables

fm2a001 Attended FOM2 clinic: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2973	20.3	20.3	20.3
	2 No	11697	79.7	79.7	100.0
	Total	14670	100.0	100.0	

fm2a005 In core ALSPAC sample: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	14541	99.1	99.1	99.1
	2 No	129	.9	.9	100.0
	Total	14670	100.0	100.0	

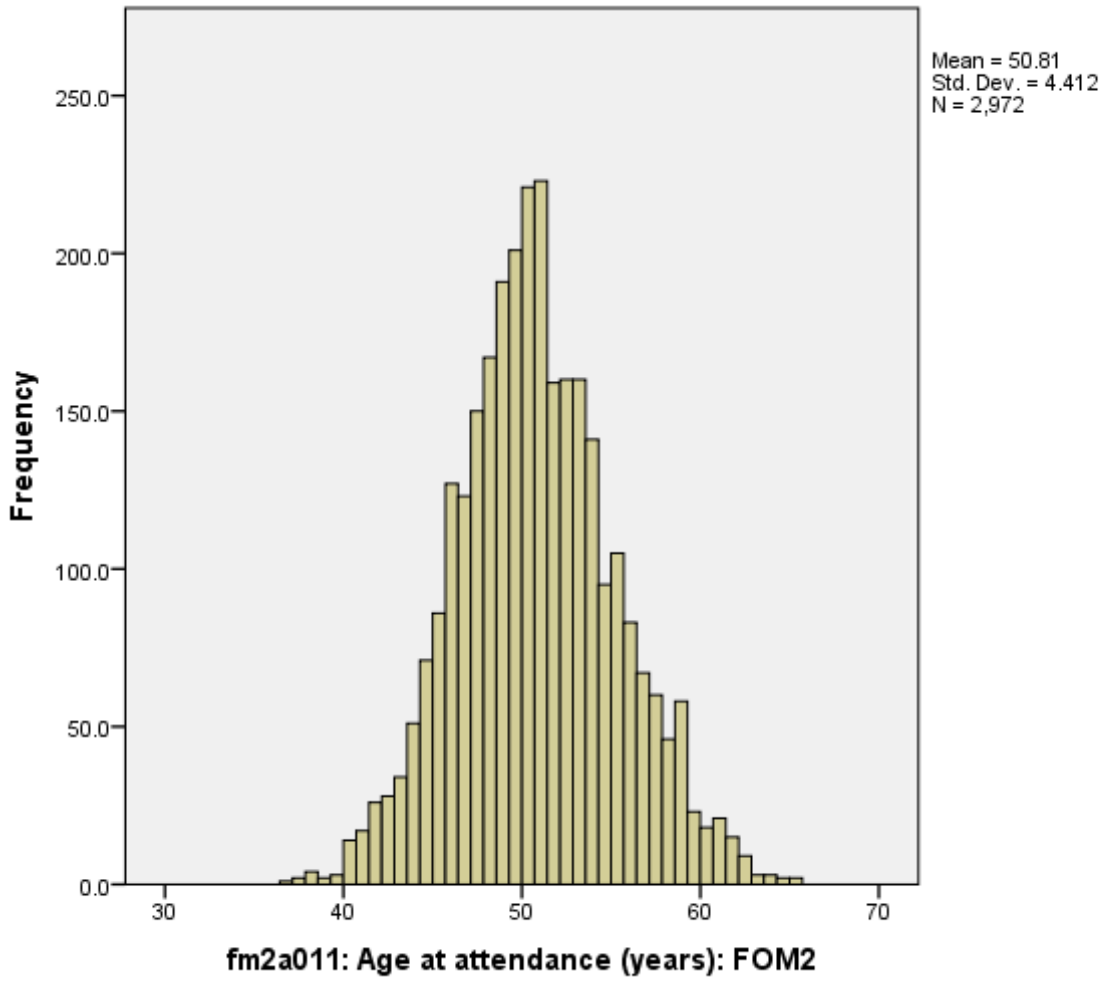
fm2a010a Month of attendance: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	274	1.9	9.2	9.2
	2	328	2.2	11.0	20.3
	3	229	1.6	7.7	28.0
	4	185	1.3	6.2	34.2
	5	230	1.6	7.7	41.9
	6	138	.9	4.6	46.6
	7	179	1.2	6.0	52.6
	8	250	1.7	8.4	61.0
	9	304	2.1	10.2	71.2
	10	318	2.2	10.7	81.9
	11	329	2.2	11.1	93.0
	12	208	1.4	7.0	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2a010b Year of attendance: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2011	728	5.0	24.5	24.5
	2012	1806	12.3	60.8	85.3
	2013	438	3.0	14.7	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

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



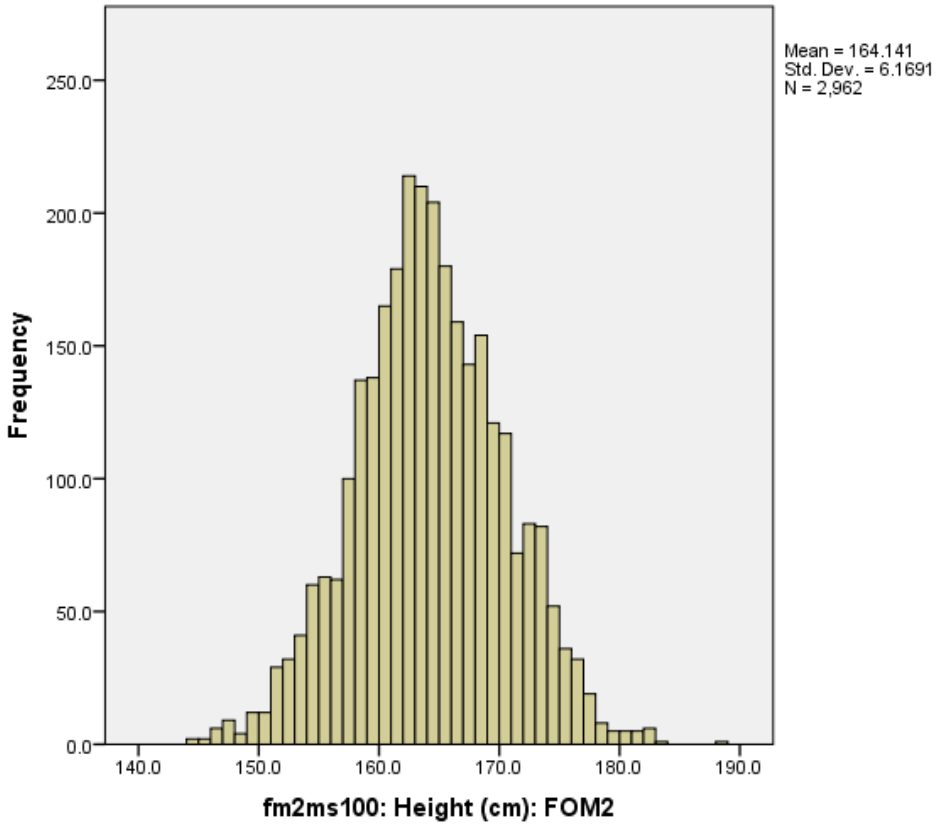
2.2 Anthropometry

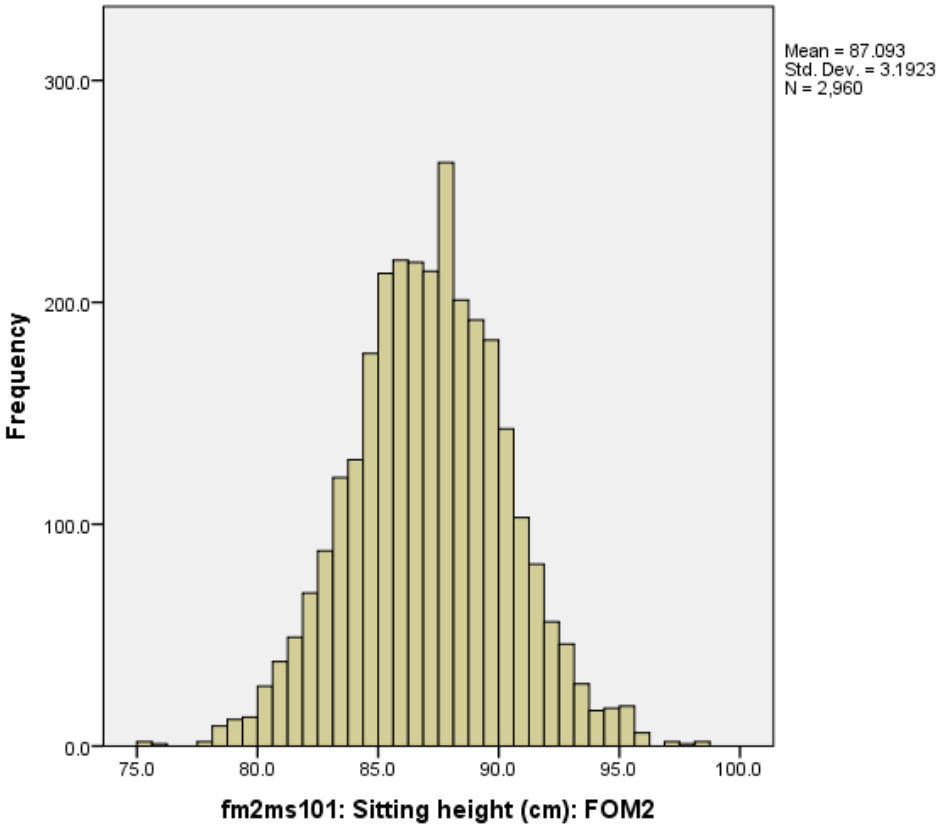
Height (seated and standing), weight and circumferences (waist, hip and arm) were all conducted in the same room as blood pressure measurements. The order of measurements was generally height (standing and seated), weight, waist circumference, hip circumference and arm circumference.

fm2ms001 Anthropometry fieldworker: FOM2

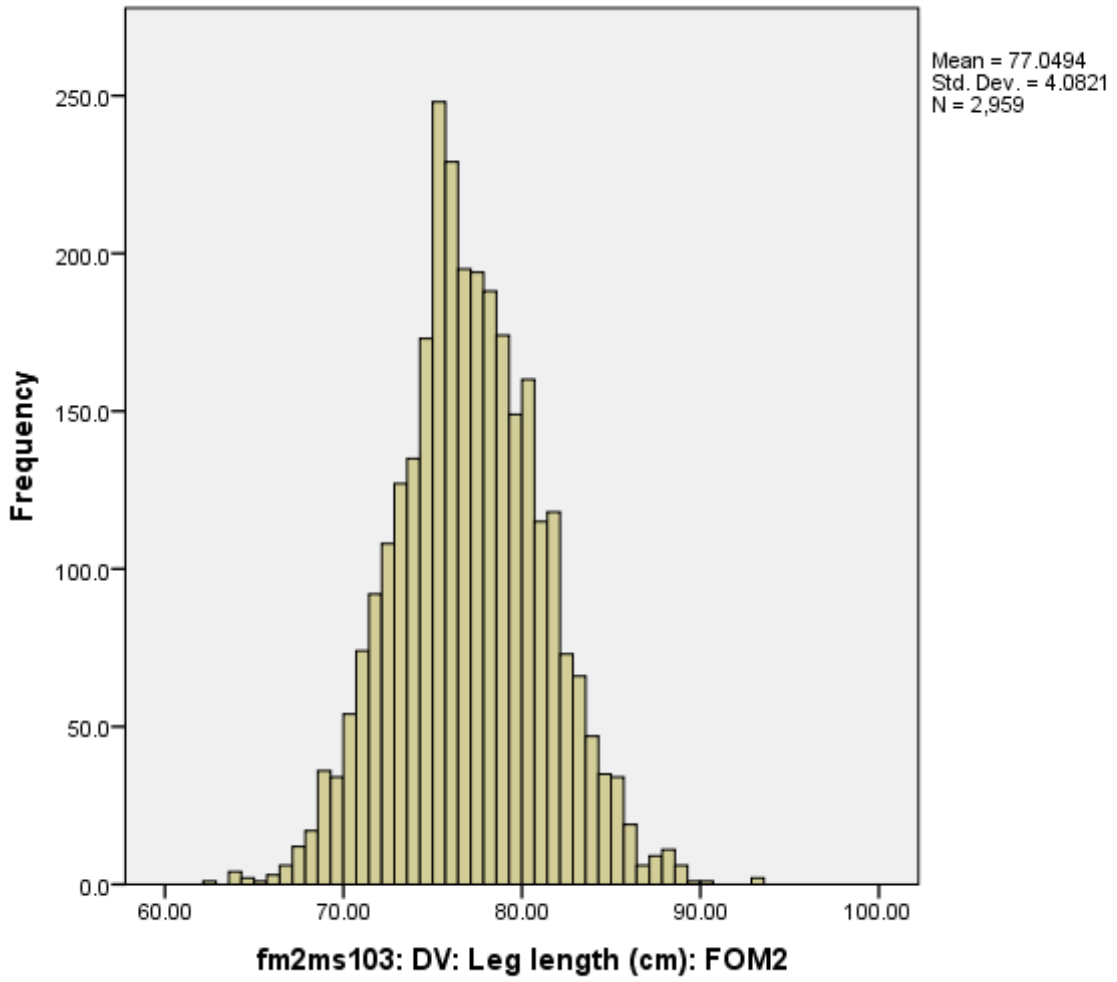
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	32	.2	1.1	1.1
	2	105	.7	3.6	4.6
	3	40	.3	1.4	6.0
	4	500	3.4	16.9	22.9
	5	1	.0	.0	23.0
	6	611	4.2	20.7	43.7
	7	35	.2	1.2	44.9
	8	39	.3	1.3	46.2
	9	388	2.6	13.1	59.3
	10	454	3.1	15.4	74.7
	11	31	.2	1.1	75.8
	12	31	.2	1.1	76.8
	13	332	2.3	11.3	88.1
	14	30	.2	1.0	89.1
	15	95	.6	3.2	92.3
	16	112	.8	3.8	96.1
	17	46	.3	1.6	97.7
	18	1	.0	.0	97.7
	19	16	.1	.5	98.2
	20	46	.3	1.6	99.8
	21	3	.0	.1	99.9
	22	3	.0	.1	100.0
	Total	2951	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	21	.1		
	Total	11719	79.9		
Total		14670	100.0		

Standing and sitting height were 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 (fm2ms100 – fm2ms101).

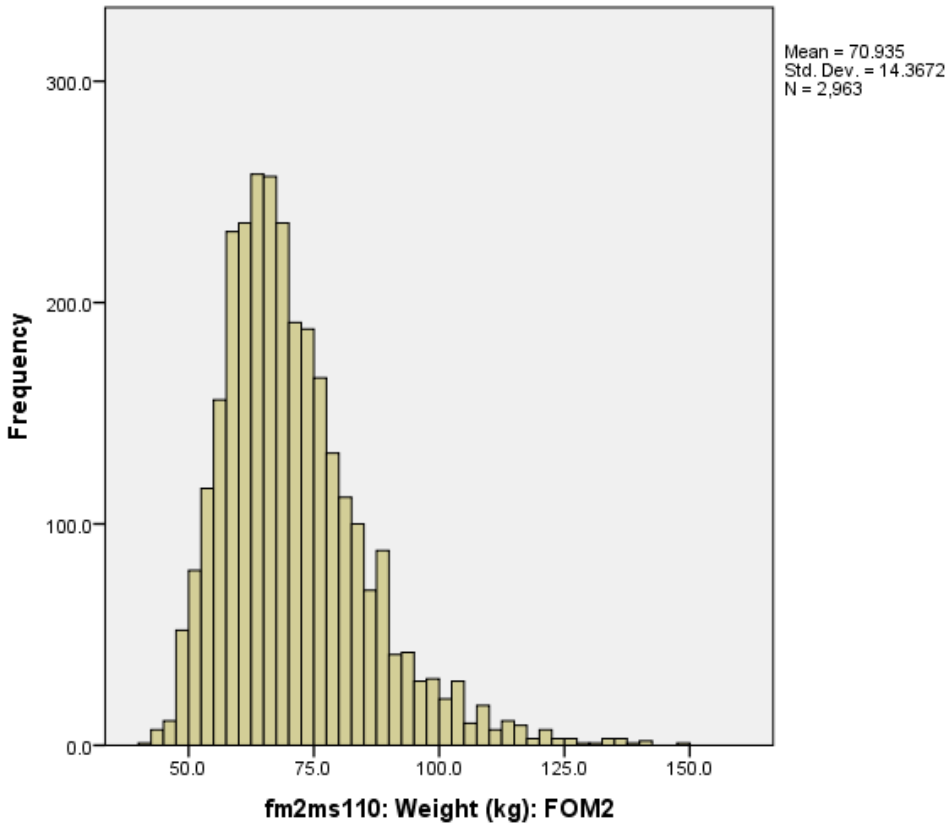


Women were asked whether they had a pacemaker. Those who did could not use the TANITA scales and were instead weighed using standard bathroom scales.

fm2ms105 Has a pacemaker fitted: FOM2

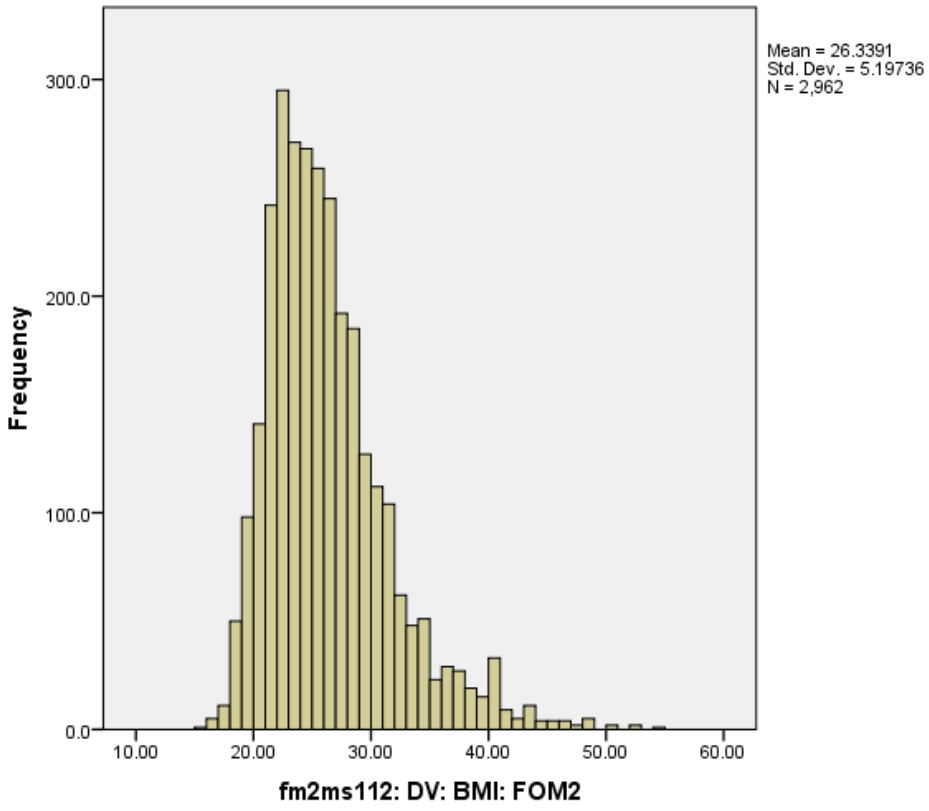
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	25	.2	.8	.8
	2 No	2922	19.9	99.2	100.0
	Total	2947	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	25	.2		
	Total	11723	79.9		
Total		14670	100.0		

Weight was recorded to the nearest 0.1 kg.



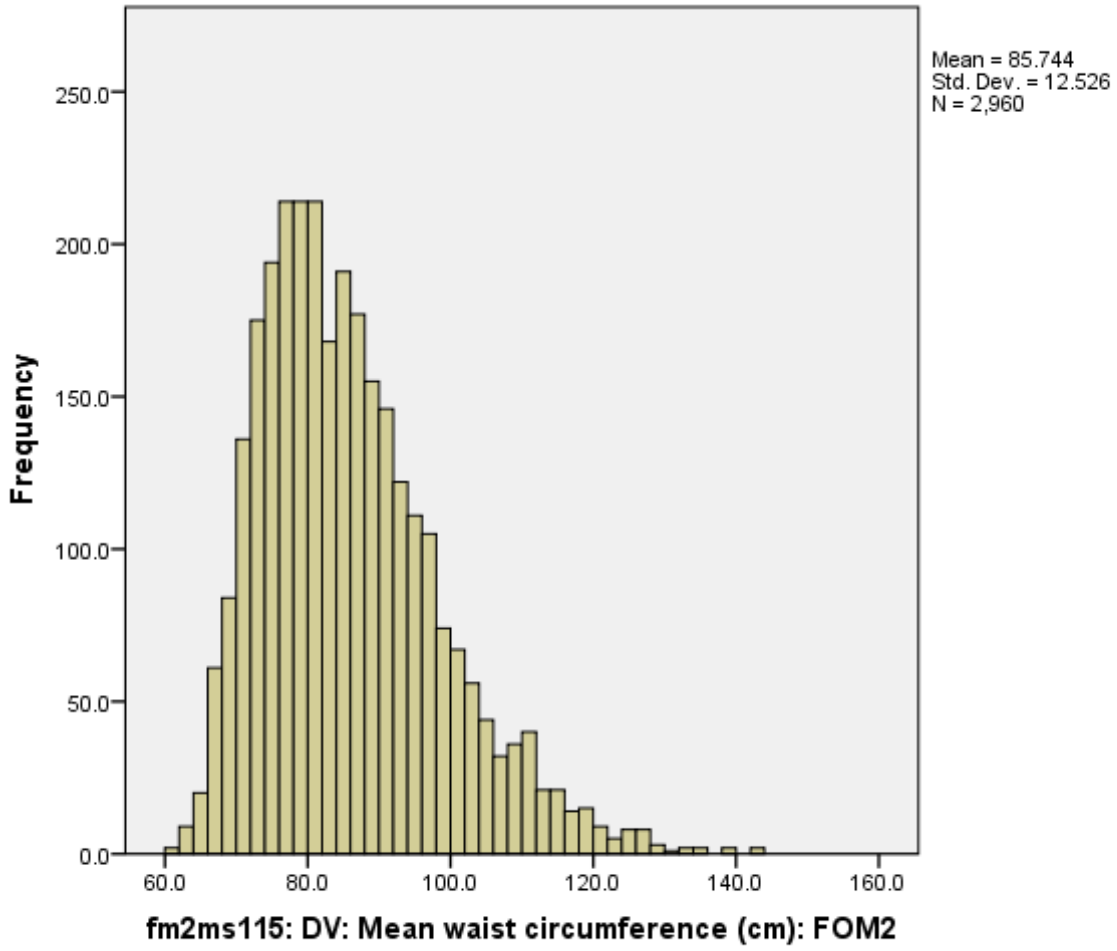
Derived variable: BMI calculated as [weight (kg)] / [height $(m)^2$].

(fm2ms112 = fm2ms110/((fm2ms100/100) * (fm2ms100/100)).



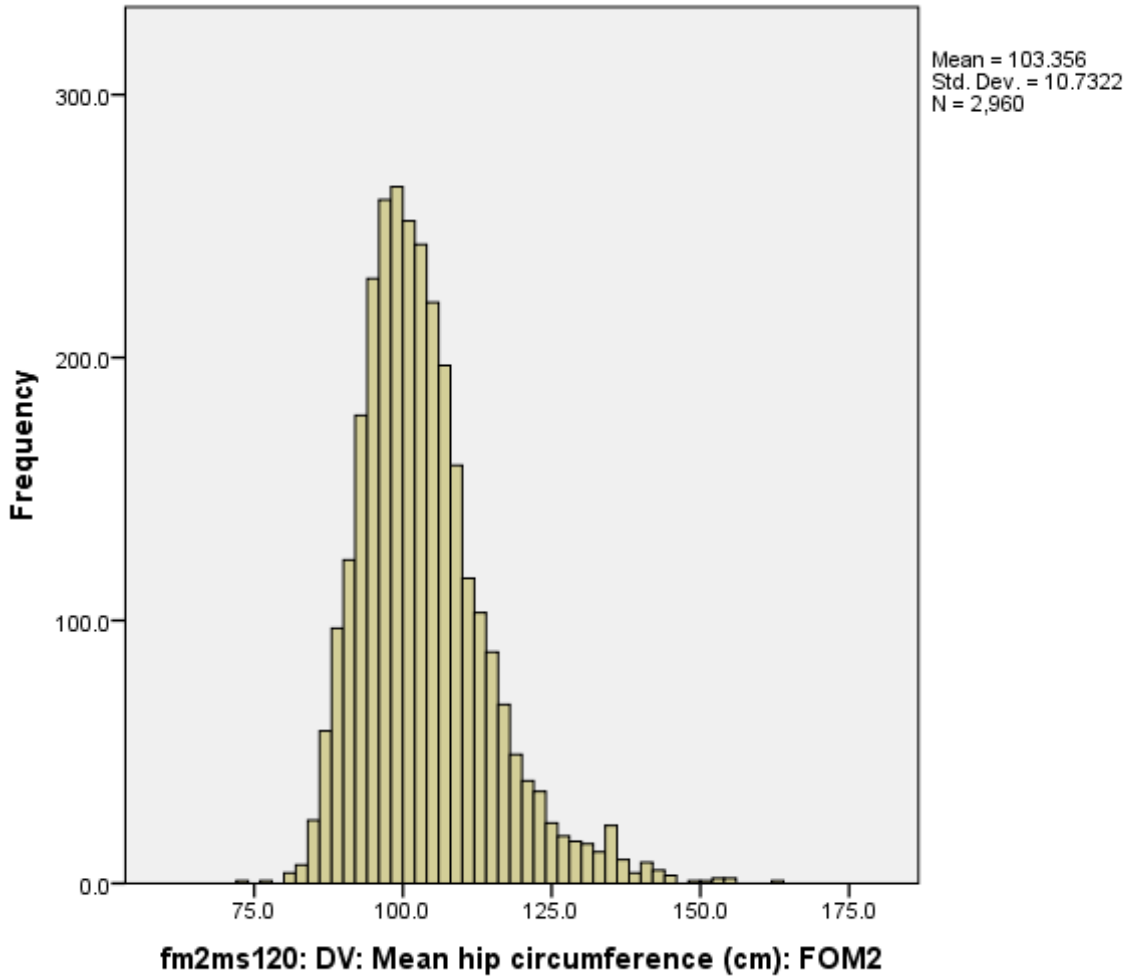
Waist circumference was measured using the Seca 200 body tension tape. It was measured twice and recorded to the nearest 1mm. The two measures for waist circumference are variables fm2ms115a and fm2ms115b.

Derived variable (fm2ms115): mean of these two measures: (fm2ms115a + fm2ms115b)/2. [If only one measure was taken, that one was used].

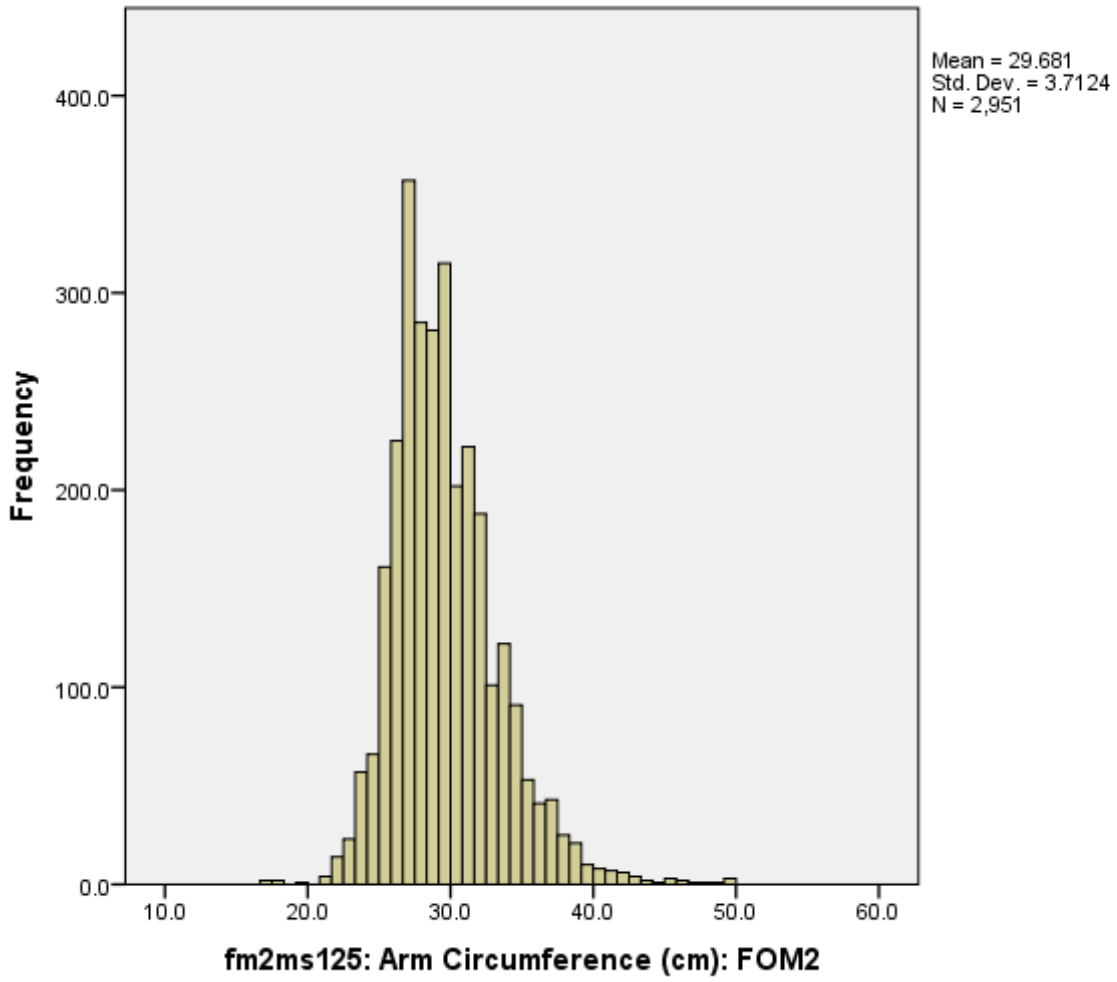


Hip circumference was measured using the Seca 200 body tension tape. It was measured twice and recorded to the nearest 1mm. The two measures for waist circumference are variables fm2ms120a and fm2ms120b.

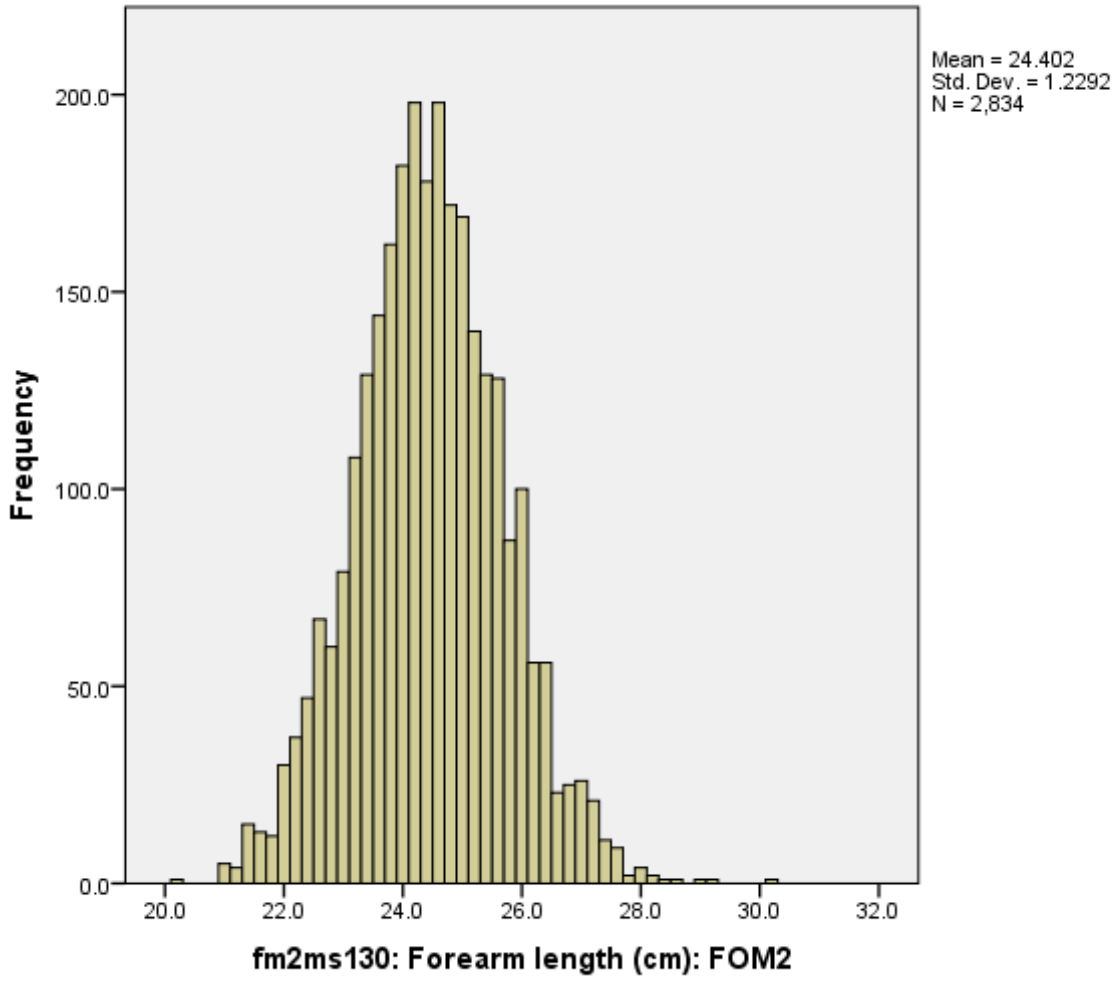
Derived variable (fm2ms120): mean of these two measures: (fm2ms120a + fm2ms120b)/2. [If only one measure was taken, that one was used].



Arm circumference was measured using the Seca 200 body tension tape. It was measured once and recorded to the nearest 1mm.



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., fm2dx020) relate to the full body DXA scan, while variables with the code 'hdx' (e.g., fm2hdx061) 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 for full body DXA scan, these are variables fm2dx990 to fm2dx995; while for the hip DXA scan these are variables fm2hdx990 to fm2hdx994.

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.

fm2dx001 Consent given for DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2957	20.2	99.5	99.5
	2 No	15	.1	.5	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2dx002 Consent given to be informed if low BMD on DXA: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2954	20.1	99.4	99.4
	2 No	18	.1	.6	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2dx010 DXA scan done: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2873	19.6	98.5	98.5
	2 No	43	.3	1.5	100.0
	Total	2916	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	56	.4		
	Total	11754	80.1		
Total		14670	100.0		

fm2dx015 DXA - possibly pregnant: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	31	.2	1.0	1.0
	2 No	2934	20.0	99.0	100.0
	Total	2965	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	7	.0		
	Total	11705	79.8		
Total		14670	100.0		

The following variables are based upon the full-body DXA scan (fm2dx020 to fm2dx501).

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
fm2dx020 Total Fat Mass (g): FOM2	2875	6438.27	76824.66	26550.7972	9952.69459
fm2dx021 Total Lean Mass (g): FOM2	2875	19425.87	63869.48	41810.4826	5211.38396
fm2dx030 Total BMD (g\cmˆ2): FOM2	2875	.00	1.61	1.2023	.11634
fm2dx031 Total BMC (g): FOM2	2875	.00	3648.68	2353.7268	314.86394
fm2dx035 Total Area (cmˆ2): FOM2	2875	.00	2416.37	1953.8815	146.29349
fm2dx036 Total Bone Mass (g): FOM2	2875	1048.14	3648.68	2354.9601	312.17712
fm2dx050 Head BMD (g\cmˆ2): FOM2	2875	.00	4.84	2.4237	.30435
fm2dx051 Head BMC (g): FOM2	2875	.00	881.20	521.7149	78.75278
fm2dx052 Head Area (cmˆ2): FOM2	2875	.00	436.64	215.0183	15.83586
fm2dx101 Arm Left Bone Mass (g): FOM2	2875	.00	520.68	147.9486	24.95296
fm2dx102 Arm Left Fat Mass (g): FOM2	2875	.00	20381.10	1498.8937	816.35323
fm2dx103 Arm Left Lean Mass (g) : FOM2	2875	.00	20270.60	2162.5624	683.79229
fm2dx104 Arm Right Bone Mass (g): FOM2	2875	.00	323.15	143.6399	23.28695
fm2dx105 Arm Right Fat Mass (g): FOM2	2875	.00	12385.75	1340.5988	577.18603
fm2dx106 Arm Right Lean Mass (g) : FOM2	2875	.00	11321.10	2070.3975	449.36323
fm2dx107 Arms Bone Mass (g): FOM2	2875	.00	703.97	291.5885	45.22855
fm2dx108 Arms Fat Mass (g): FOM2	2875	.00	31566.19	2839.4925	1244.80227
fm2dx109 Arms Lean Mass (g) : FOM2	2875	.00	25752.37	4232.9599	978.17646
fm2dx110 Leg Left Bone Mass (g): FOM2	2875	86.97	639.22	414.9617	61.20107
fm2dx111 Leg Left Fat Mass (g): FOM2	2875	1286.25	15518.76	4717.5669	1580.36009
fm2dx112 Leg Left Lean Mass (g): FOM2	2875	3646.27	11347.38	6900.7775	1075.33919
fm2dx113 Leg Right Bone Mass (g): FOM2	2875	118.26	642.33	419.3887	60.63241
fm2dx114 Leg Right Fat Mass (g): FOM2	2875	1413.11	14603.16	4661.8459	1563.88870
fm2dx115 Leg Right Lean Mass (g): FOM2	2875	2351.02	11158.26	6834.5221	1057.26301
fm2dx116 Legs Bone Mass (g): FOM2	2875	205.23	1280.90	834.3504	120.90589
fm2dx117 Legs Fat Mass (g): FOM2	2875	2699.36	30082.69	9379.4128	3131.46121
fm2dx118 Legs Lean Mass (g): FOM2	2875	7260.58	22337.96	13735.2996	2110.17968
fm2dx119 Trunk Left Bone Mass (g): FOM2	2875	64.47	908.23	358.0139	70.41827
fm2dx120 Trunk Left Fat Mass (g): FOM2	2875	484.13	26021.92	6754.7479	3277.29767
fm2dx121 Trunk Left Lean Mass (g): FOM2	2875	927.59	20826.98	10699.8377	1444.44009
fm2dx122 Trunk Right Bone Mass (g): FOM2	2875	80.87	812.25	348.9833	67.53019
fm2dx123 Trunk Right Fat Mass (g): FOM2	2875	937.61	24590.86	6747.9007	3208.35527
fm2dx124 Trunk Right Lean Mass (g): FOM2	2875	2510.58	19288.40	10237.6226	1374.02399
fm2dx125 Trunk Bone Mass (g): FOM2	2875	148.93	1631.69	706.9972	134.18668
fm2dx126 Trunk Fat Mass (g): FOM2	2875	1510.04	49814.91	13502.6486	6449.97171
fm2dx127 Trunk Lean Mass (g): FOM2	2875	3438.17	39715.01	20937.4603	2754.50242
fm2dx128 Total Left Bone Mass (g): FOM2	2875	319.12	1858.60	1183.5394	165.02050
fm2dx129 Total Left Fat Mass (g) : FOM2	2875	3261.92	47797.58	13389.4611	5080.19365
fm2dx130 Total Left Lean Mass (g): FOM2	2875	7888.81	39884.14	21224.9945	2699.90516
fm2dx131 Total Right Bone Mass (g): FOM2	2875	658.42	1839.18	1171.4207	163.71608
fm2dx132 Total Right Fat Mass (g): FOM2	2875	3176.34	39369.55	13161.3361	4914.41849
fm2dx133 Total Right Lean Mass (g): FOM2	2875	11537.06	36069.49	20585.4881	2609.29225
fm2dx137 Android Bone Mass (g): FOM2	2875	12.27	221.91	46.7113	10.72962
fm2dx138 Android Fat Mass (g): FOM2	2875	142.52	8848.08	2166.0924	1203.41581

fm2dx139 Android Lean Mass (g): FOM2	2875	321.68	5421.87	3140.9805	438.17486
fm2dx140 Gynoid Bone Mass (g): FOM2	2875	49.40	371.42	224.9979	38.21939
fm2dx141 Gynoid Fat Mass (g): FOM2	2875	753.24	13449.90	4654.7871	1561.89672
fm2dx142 Gynoid Lean Mass (g): FOM2	2875	1645.44	10209.17	6470.2751	866.14462
fm2dx204 Arms BMD (g\cm^2): FOM2	2875	.00	1.23	.9145	.09534
fm2dx205 Arms BMC (g): FOM2	2875	.00	703.97	291.4865	45.53158
fm2dx206 Arms Area (cm^2): FOM2	2875	.00	620.04	318.9972	41.79295
fm2dx207 Legs BMD (g\cm^2): FOM2	2875	.00	1.57	1.1824	.11665
fm2dx208 Legs BMC (g): FOM2	2875	.00	1280.90	833.9221	121.79665
fm2dx209 Legs Area (cm^2): FOM2	2875	.00	959.76	704.0008	66.56326
fm2dx210 Trunk BMD (g\cm^2): FOM2	2875	.00	1.95	.9817	.12657
fm2dx211 Trunk BMC (g): FOM2	2875	.00	1631.69	706.6033	134.64568
fm2dx212 Trunk Area (cm^2): FOM2	2875	.00	1054.93	715.8652	69.59751
fm2dx213 Ribs BMD (g\cm^2): FOM2	2875	.00	2.66	.7833	.11039
fm2dx214 Ribs BMC (g): FOM2	2875	.00	535.94	203.4861	48.54296
fm2dx215 Ribs Area (cm^2): FOM2	2875	.00	459.69	257.6025	36.98442
fm2dx216 Pelvis BMD (g\cm^2): FOM2	2875	.00	1.69	1.0754	.14703
fm2dx217 Pelvis BMC (g): FOM2	2875	.00	576.76	306.5475	61.29461
fm2dx218 Pelvis Area (cm^2): FOM2	2875	.00	447.04	283.6126	31.10951
fm2dx219 Spine BMD (g\cm^2): FOM2	2875	.00	2.59	1.1180	.16533
fm2dx220 Spine BMC (g): FOM2	2875	.00	873.91	196.5697	44.51426
fm2dx221 Spine Area (cm^2): FOM2	2875	.00	414.50	174.6502	21.07319
fm2dx251 Arm Left BMD (g\cm^2): FOM2	2875	.00	1.24	.9073	.09716
fm2dx252 Arm Left BMC (g): FOM2	2875	.00	520.68	147.8927	25.09065
fm2dx253 Arm Left Area (cm^2): FOM2	2875	.00	428.39	163.1427	22.98024
fm2dx254 Arm Right BMD (g\cm^2): FOM2	2875	.00	1.24	.9222	.09830
fm2dx255 Arm Right BMC (g): FOM2	2875	.00	323.15	143.5938	23.43256
fm2dx256 Arm Right Area (cm^2): FOM2	2875	.00	343.84	155.8545	22.00814
fm2dx257 Leg Left BMD (g\cm^2): FOM2	2875	.00	1.58	1.1788	.11790
fm2dx258 Leg Left BMC (g): FOM2	2875	.00	639.22	414.7379	61.61942
fm2dx259 Leg Left Area (cm^2): FOM2	2875	.00	477.29	351.1453	33.86550
fm2dx260 Leg Right BMD (g\cm^2): FOM2	2875	.00	1.56	1.1860	.11790
fm2dx261 Leg Right BMC (g): FOM2	2875	.00	642.33	419.1843	61.09609
fm2dx262 Leg Right Area (cm^2): FOM2	2875	.00	482.47	352.8555	33.51531
fm2dx263 Trunk Left BMD (g\cm^2): FOM2	2875	.00	1.91	.9786	.12783
fm2dx264 Trunk Left BMC (g): FOM2	2875	.00	908.23	357.8096	70.65264
fm2dx265 Trunk Left Area (cm^2): FOM2	2875	.00	638.56	363.6470	38.22075
fm2dx266 Trunk Right BMD (g\cm^2): FOM2	2875	.00	1.96	.9849	.12812
fm2dx267 Trunk Right BMC (g): FOM2	2875	.00	812.25	348.7937	67.74323
fm2dx268 Trunk Right Area (cm^2): FOM2	2875	.00	586.20	352.2182	36.36436
fm2dx269 Total Left BMD (g\cm^2): FOM2	2875	.00	1.65	1.1968	.11835
fm2dx270 Total Left BMC (g): FOM2	2875	.00	1858.60	1182.8516	166.20639
fm2dx271 Total Left Area (cm^2): FOM2	2875	.00	1382.30	986.0530	78.27846
fm2dx272 Total Right BMD (g\cm^2): FOM2	2875	.00	1.66	1.2070	.11934
fm2dx273 Total Right BMC (g): FOM2	2875	.00	1839.18	1170.8751	165.05766
fm2dx274 Total Right Area (cm^2): FOM2	2875	.00	1336.96	967.8285	77.78893
fm2dx300 Arms Tissue Mass (g): FOM2	2875	.00	57318.57	7072.4525	2081.33230
fm2dx301 Arm Right Tissue Mass (g): FOM2	2875	.00	23706.84	3410.9963	950.89521
fm2dx302 Arm Left Tissue Mass (g): FOM2	2875	.00	38296.22	3661.4562	1436.54106
fm2dx303 Legs Tissue Mass (g): FOM2	2875	13351.89	52025.90	23114.7124	4703.73449
fm2dx304 Leg Right Tissue Mass (g): FOM2	2875	6132.86	25579.03	11496.3679	2349.39808
fm2dx305 Leg Left Tissue Mass (g): FOM2	2875	6570.28	26446.87	11618.3445	2379.50121
fm2dx306 Trunk Tissue Mass (g): FOM2	2875	5463.63	87048.34	34440.1089	8301.71072
fm2dx307 Trunk Right Tissue Mass (g): FOM2	2875	3942.87	43879.27	16985.5233	4144.04561
fm2dx308 Trunk Left Tissue Mass (g): FOM2	2875	1520.76	45182.08	17454.5856	4238.96354
fm2dx309 Android Tissue Mass (g): FOM2	2875	523.96	12440.30	5307.0729	1475.75437
fm2dx310 Gynoid Tissue Mass (g): FOM2	2875	2398.68	22940.69	11125.0622	2162.52271
fm2dx311 Total Tissue Mass (g): FOM2	2875	31971.28	128718.67	68361.2798	13682.71769
fm2dx312 Total Right Tissue Mass (g): FOM2	2875	17779.60	75439.04	33746.8242	6786.46525
fm2dx313 Total Left Tissue Mass (g): FOM2	2875	14191.67	82739.00	34614.4556	7011.70983
fm2dx320 Arms Fat Free Mass (g): FOM2	2875	.00	26296.88	4524.5485	1003.50646
fm2dx321 Arm Right Fat Free Mass (g): FOM2	2875	.00	11644.25	2214.0374	463.29829
fm2dx322 Arm Left Fat Free Mass (g): FOM2	2875	.00	20791.28	2310.5110	698.43456
fm2dx323 Legs Fat Free Mass (g): FOM2	2875	7675.11	23505.58	14569.6500	2196.57056
fm2dx324 Leg Right Fat Free Mass (g): FOM2	2875	2579.42	11748.00	7253.9108	1099.71203
fm2dx325 Leg Left Fat Free Mass (g): FOM2	2875	3924.38	11947.82	7315.7393	1118.98037
fm2dx326 Trunk Fat Free Mass (g): FOM2	2875	3922.48	41016.38	21644.4575	2853.26035

fm2dx327 Trunk Right Fat Free Mass (g): FOM2	2875	2887.85	19828.29	10586.6059	1422.85212
fm2dx328 Trunk Left Fat Free Mass (g): FOM2	2875	1034.63	21564.45	11057.8515	1495.34407
fm2dx329 Android Fat Free Mass (g): FOM2	2875	352.91	5507.11	3187.6918	444.23886
fm2dx330 Gynoid Fat Free Mass (g): FOM2	2875	1709.96	10557.99	6695.2729	894.94220
fm2dx331 Total Fat Free Mass (g): FOM2	2875	20474.01	66944.70	44165.4428	5445.89928
fm2dx332 Total Right Fat Free Mass (g): FOM2	2875	12266.09	37908.67	21756.9089	2731.74497
fm2dx333 Total Left Fat Free Mass (g): FOM2	2875	8207.93	41742.74	22408.5339	2822.12915
fm2dx340 Arms Total Mass (g): FOM2	2875	.00	57863.07	7364.0410	2098.54914
fm2dx341 Arm Right Total Mass (g): FOM2	2875	.00	24029.99	3554.6362	960.25500
fm2dx342 Arm Left Total Mass (g): FOM2	2875	.00	38700.27	3809.4048	1448.41126
fm2dx343 Legs Total Mass (g): FOM2	2875	13937.98	53090.39	23949.0628	4765.98520
fm2dx344 Leg Right Total Mass (g): FOM2	2875	6361.26	26103.89	11915.7566	2380.32081
fm2dx345 Leg Left Total Mass (g): FOM2	2875	6686.51	26986.50	12033.3062	2411.04380
fm2dx346 Trunk Total Mass (g): FOM2	2875	5947.94	88349.71	35147.1060	8397.32923
fm2dx347 Trunk Right Total Mass (g): FOM2	2875	4320.13	44419.15	17334.5066	4191.71965
fm2dx348 Trunk Left Total Mass (g): FOM2	2875	1627.81	45919.56	17812.5994	4288.56465
fm2dx349 Android Total Mass (g): FOM2	2875	555.19	12516.44	5353.7842	1481.69049
fm2dx350 Gynoid Total Mass (g): FOM2	2875	2463.20	23289.72	11350.0600	2185.04813
fm2dx351 Total Total Mass (g): FOM2	2875	33019.42	131588.83	70716.2400	13853.91096
fm2dx352 Total Right Total Mass (g): FOM2	2875	18508.63	77278.22	34918.2450	6876.68030
fm2dx353 Total Left Total Mass (g): FOM2	2875	14510.79	84569.90	35797.9950	7100.44886
fm2dx360 Arms Region Fat (g): FOM2	2874	.13	.62	.3776	.06274
fm2dx361 Arm Right Region Fat (g): FOM2	2874	.12	.64	.3696	.06400
fm2dx362 Arm Left Region Fat (g): FOM2	2874	.14	.61	.3849	.06279
fm2dx363 Legs Region Fat (g): FOM2	2875	.16	.63	.3842	.06015
fm2dx364 Leg Right Region Fat (g): FOM2	2875	.16	.63	.3837	.06068
fm2dx365 Leg Left Region Fat (g): FOM2	2875	.15	.63	.3846	.06039
fm2dx366 Trunk Region Fat (g): FOM2	2875	.08	.65	.3666	.09361
fm2dx367 Trunk Right Region Fat (g): FOM2	2875	.09	.65	.3716	.09310
fm2dx368 Trunk Left Region Fat (g): FOM2	2875	.07	.65	.3616	.09446
fm2dx369 Android Region Fat (g): FOM2	2875	.05	.71	.3790	.11458
fm2dx370 Gynoid Region Fat (g): FOM2	2875	.17	.62	.4014	.06538
fm2dx371 Total Region Fat (g): FOM2	2875	.14	.59	.3651	.07012
fm2dx372 Total Right Region Fat (g): FOM2	2875	.14	.59	.3666	.06999
fm2dx373 Total Left Region Fat (g): FOM2	2875	.14	.60	.3636	.07056
fm2dx380 Arms Tissue Fat (g): FOM2	2874	.14	.63	.3934	.06323
fm2dx381 Arm Right Tissue Fat (g): FOM2	2874	.13	.65	.3852	.06466
fm2dx382 Arm Left Tissue Fat (g): FOM2	2874	.15	.62	.4007	.06330
fm2dx383 Legs Tissue Fat (g): FOM2	2875	.16	.64	.3981	.06053
fm2dx384 Leg Right Tissue Fat (g): FOM2	2875	.17	.64	.3978	.06112
fm2dx385 Leg Left Tissue Fat (g): FOM2	2875	.16	.64	.3984	.06077
fm2dx386 Trunk Tissue Fat (g) : FOM2	2875	.08	.66	.3741	.09480
fm2dx387 Trunk Right Tissue Fat (g) : FOM2	2875	.09	.66	.3792	.09427
fm2dx388 Trunk Left Tissue Fat (g) : FOM2	2875	.07	.66	.3690	.09568
fm2dx389 Android Tissue Fat (g) : FOM2	2875	.05	.71	.3823	.11514
fm2dx390 Gynoid Tissue Fat (g): FOM2	2875	.18	.63	.4095	.06580
fm2dx391 Total Tissue Fat (g): FOM2	2875	.14	.60	.3776	.07094
fm2dx392 Total Right Tissue Fat (g): FOM2	2875	.14	.61	.3793	.07081
fm2dx393 Total Left Tissue Fat (g): FOM2	2875	.14	.61	.3760	.07138
fm2dx500 Total T score: FOM2	2875	-2.24	5.24	1.2105	1.13073
fm2dx501 Total Z score: FOM2	2870	-2.25	4.67	1.3408	.96027

fm2dx990 DV: Arm(s) out of full body DXA scan area: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	63	.4	2.1	2.1
	2 No	2909	19.8	97.9	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2dx991 DV: Alignment issues in the full body DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	73	.5	2.5	2.5
	2 No	2899	19.8	97.5	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2dx992 DV: Full body DXA image is grainy: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	2972	20.3	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2dx993 DV: White masses on chest (breast implant(s)): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	12	.1	.4	.4
	2 No	2960	20.2	99.6	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2dx994 DV: Miscellaneous error/artefact in full body DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	16	.1	.5	.5
	2 No	2956	20.1	99.5	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2dx995 DV: Any error/artefact noted in full body DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	97	.7	3.3	3.3
	2 No	2875	19.6	96.7	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

The following variables are based upon the hip DXA scan (fm2hdx060 to fm2hdx205).

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
fm2hdx060 Hip Total BMD (g\cm^2): FOM2	2855	.59	2.27	1.0005	.14139
fm2hdx061 Hip Total BMC (g): FOM2	2855	12.30	51.86	31.0733	5.06258
fm2hdx062 Hip Total area (cm^2): FOM2	2855	13.36	41.62	31.0483	2.35022
fm2hdx065 Hip Total T Score: FOM2	2854	-3.42	10.55	.0032	1.17776
fm2hdx066 Hip Total Z Score: FOM2	2849	-2.94	10.96	.2851	1.06018
fm2hdx070 Hip Troch BMD (g\cm^2): FOM2	2865	.00	2.64	.7991	.13507
fm2hdx071 Hip Troch BMC (g): FOM2	2865	.00	19.43	9.9161	2.35132
fm2hdx072 Hip Troch area (cm^2): FOM2	2865	.00	21.81	12.3360	1.76950
fm2hdx075 Hip Troch T Score: FOM2	2860	-4.00	16.79	.0927	1.19806
fm2hdx076 Hip Troch Z Score: FOM2	2855	-3.61	16.94	.1597	1.08523
fm2hdx080 Hip Wards BMD (g\cm^2): FOM2	2865	.00	1.70	.7918	.15312
fm2hdx081 Hip Wards BMC (g): FOM2	2865	.00	8.65	2.0421	.52565
fm2hdx082 Hip Wards area (cm^2): FOM2	2865	.00	8.43	2.5697	.43670
fm2hdx085 Hip Wards T Score: FOM2	2855	-3.61	6.10	-.8910	1.12835
fm2hdx086 Hip Wards Z Score: FOM2	2850	-2.90	7.00	-.1048	1.04955
fm2hdx090 Hip Shaft BMD (g\cm^2): FOM2	2855	.70	2.10	1.1921	.17301
fm2hdx091 Hip Shaft BMC (g) : FOM2	2855	9.77	26.58	16.5533	2.40244
fm2hdx092 Hip Shaft area (cm^2): FOM2	2855	7.61	17.61	13.9105	.81481
fm2hdx100 Cross-sectional moment of inertia (CSMI) (mm4): FOM2	2865	-1638.15	68716.13	9814.6629	2941.89055
fm2hdx101 Bone cross-sectional area (CSA) (mm2): FOM2	2865	-56.26	798.30	144.2751	28.06944
fm2hdx102 Hip axis length (mm): FOM2	2855	9.14	126.75	104.4300	6.77252
fm2hdx103 Strength Index: FOM2	2859	-.12	9.75	1.5139	.43418
fm2hdx108 Alpha (deg: Neck angle): FOM2	2865	-29.48	13.45	-1.4836	3.63719
fm2hdx109 Theta (deg: Neck angle): FOM2	2861	109.39	148.46	125.5737	4.39276
fm2hdx130 Hip Neck BMD (g\cm^2): FOM2	2865	.00	1.66	.9585	.13830
fm2hdx131 Hip Neck BMC (g\cm^2): FOM2	2865	.00	11.60	4.5972	.76976
fm2hdx132 Hip Neck Area (g\cm^2): FOM2	2865	.00	9.18	4.7898	.45893
fm2hdx135 Hip Neck T Score: FOM2	2860	-5.38	5.67	-.1687	1.11324
fm2hdx136 Hip Neck Z Score: FOM2	2855	-5.76	6.25	.2862	1.01550
fm2hdx140 Hip Upper Neck BMD (g\cm^2): FOM2	2861	.00	2.27	.7994	.14461
fm2hdx141 Hip Upper Neck BMC (g): FOM2	2861	.00	5.12	1.8824	.35833
fm2hdx142 Hip Upper Neck area (cm^2): FOM2	2861	.00	4.54	2.3576	.20923
fm2hdx145 Hip Upper Neck T Score: FOM2	2858	-4.12	12.09	-.1798	1.19245
fm2hdx146 Hip Upper Neck Z Score: FOM2	2853	-3.50	12.54	.2763	1.11310
fm2hdx150 Hip Lower Neck BMD (g\cm^2): FOM2	2861	.00	1.72	1.1147	.14224
fm2hdx151 Hip Lower Neck BMC (g): FOM2	2861	.00	6.48	2.7216	.42270
fm2hdx152 Hip Lower Neck area (cm^2): FOM2	2861	.00	4.64	2.4388	.21534
fm2hdx200 Hip cortical width neck: FOM2	2865	.00	14.35	5.6131	1.95835
fm2hdx201 Hip cortical ratio neck: FOM2	2865	.00	46.55	18.8926	6.51300
fm2hdx202 Hip cortical width calcar: FOM2	2865	.00	10.62	3.8046	1.02965
fm2hdx203 Hip cortical ratio calcar: FOM2	2865	.00	20.75	7.4304	1.98154
fm2hdx204 Hip cortical width shaft: FOM2	2865	.00	13.39	5.0676	1.40434
fm2hdx205 Hip cortical ratio shaft: FOM2	2865	.00	33.08	17.4462	4.42604

fm2hdx299 Side of hip DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Left	2862	19.5	99.8	99.8
	2 Right	5	.0	.2	100.0
	Total	2867	19.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	105	.7		
	Total	11803	80.5		
Total		14670	100.0		

fm2hdx990 DV: Alignment issues in the hip DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	47	.3	1.6	1.6
	2 No	2925	19.9	98.4	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2hdx991 DV: Edge of hip missing from hip DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	12	.1	.4	.4
	2 No	2960	20.2	99.6	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2hdx992 DV: All/some hip geometry measures coded as '0' for hip DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	74	.5	2.5	2.5
	2 No	2898	19.8	97.5	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2hdx993 DV: Miscellaneous error/artefact in hip DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	21	.1	.7	.7
	2 No	2951	20.1	99.3	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2hdx994 DV: Any error/artefact noted in hip DXA scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	84	.6	2.8	2.8
	2 No	2888	19.7	97.2	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

2.4 pQCT

Peripheral Quantitative Computerised Tomography (pQCT) arm scans were performed to measure bone density. Scans were performed on the mother's non-dominant arm.

As stated above, please note that this pQCT is currently in the process of being re-analysed to ensure that all pQCT variables are consistent between all FOM clinics in which it was performed (FOMs 2, 3 and 4). Once this process is complete the original pQCT here will be removed and replaced with the re-processed data.

Also note that as this data will be replaced in time, these pQCT values have not been checked systematically for errors or outliers (that is, they are simply the exported values from the pQCT scan). While there are no known errors associated with this data in its current state, we advise researchers to explore the pQCT data carefully prior to analysis, to ensure that values are sensible.

fm2pq001 Consent given for PQCT scan: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2957	20.2	99.5	99.5
	2 No	15	.1	.5	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2pq007 pQCT: Keyed Side: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Left	2575	17.6	90.9	90.9
	2 Right	259	1.8	9.1	100.0
	Total	2834	19.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	138	.9		
	Total	11836	80.7		
Total		14670	100.0		

fm2pq011 pQCT: VOXELSIZE: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.40	2834	19.3	100.0	100.0
Missing	-11.00 Mother of trip/quad	1	.0		
	-10.00 Did not attend clinic	11697	79.7		
	-1.00 Missing	138	.9		
	Total	11836	80.7		
Total		14670	100.0		

fm2pq012 pQCT: 4_10 slice_corrected: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	4	2834	19.3	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	138	.9		
	Total	11836	80.7		
Total		14670	100.0		

The following variables are based upon the pQCT scan (fm1hdx060 to fm1hdx205).

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
fm2pq013a pQCT: CTPOS (distal, 4%): FOM2	2834	134.90	347.21	206.4609	49.48211
fm2pq013b pQCT: CTPOS (shaft, 65%): FOM2	2834	.02	199.59	57.6388	49.13965
fm2pq014a pQCT: x_co_ord_rad_distal: FOM2	2834	113	259	195.21	21.751
fm2pq014b pQCT: x_co_ord_rad_shaft: FOM2	2834	69	253	155.18	21.529
fm2pq015a pQCT: ct_percent_distal: FOM2	2834	61.01	154.12	84.7269	20.43822
fm2pq015b pQCT: ct_percent_shaft: FOM2	2834	.01	93.12	23.7269	20.43820
fm2pq016 pQCT: 65_10 slice_corrected: FOM2	2834	65	65	65.00	.000
fm2pq017a pQCT: x_co_ord_ulna_distal: FOM2	2834	0	241	149.06	23.798
fm2pq017b pQCT: x_co_ord_ulna_shaft: FOM2	2834	56	279	123.74	39.945
fm2pq018 pQCT: SLICES: FOM2	2834	6	6	6.00	.000
fm2pq020 pQCT: Radius Super Cortical, Bone Mineral Content (mg): FOM2	2834	36.10	133.17	83.8010	12.58871
fm2pq021a pQCT: Radius Cortical, Bone Mineral Content (mg) (distal, 4%): FOM2	2834	.65	1462.09	45.2093	32.02091
fm2pq021b pQCT: Radius Cortical, Bone Mineral Content (mg) (shaft, 65%): FOM2	2834	40.23	137.88	88.3818	12.63733
fm2pq022 pQCT: Radius Sub Cortical, Bone Mineral Content (mg): FOM2	2834	.18	6.63	1.3984	.63100
fm2pq023a pQCT: Radius Trabecular, Bone Mineral Content (mg) (distal, 4%): FOM2	2834	8.94	163.08	50.5272	16.16711
fm2pq023b pQCT: Radius Trabecular, Bone Mineral Content (mg) (shaft, 65%): FOM2	2834	.45	12.35	1.7305	.82591
fm2pq030a pQCT: Radius Marrow Cavity, Tissue Content (mg) (distal, 4%): FOM2	2834	10.36	168.35	66.1960	16.14896
fm2pq030b pQCT: Radius Marrow Cavity, Tissue Content (mg) (shaft, 65%): FOM2	2834	-.33	5.72	1.2192	.49617
fm2pq031 pQCT: Radius Marrow Cavity Fat Filtered, Lean Tissue Content (mg): FOM2	2833	-.41	4.44	.9565	.40381
fm2pq032 pQCT: Radius Marrow Cavity Lean Filtered, Fat Tissue Content (mg): FOM2	2833	-.87	3.34	.2643	.27945
fm2pq040 pQCT: Radius Artefact Indicator, Content (mg): FOM2	2834	7.85	63.80	16.5241	6.59099
fm2pq050a pQCT: Total Cross Sectional of radius 4%, Content (mg) (distal, 4%): FOM2	2834	63.37	1499.96	111.4053	33.01073
fm2pq050b pQCT: Total Cross Sectional of radius 4%, Content (mg) (shaft, 65%): FOM2	2834	45.91	144.66	92.7299	12.70861
fm2pq060 pQCT: Radius Super Cortical, Bone Mineral Area (mm^2): FOM2	2834	32.48	108.80	70.0348	9.83270
fm2pq061a pQCT: Radius Cortical, Bone Mineral Area (mm^2) (distal, 4%): FOM2	2834	.96	386.72	49.3010	15.33893
fm2pq061b pQCT: Radius Cortical, Bone Mineral Area (mm^2) (shaft, 65%): FOM2	2834	38.24	115.36	76.2423	10.21427
fm2pq062 pQCT: Radius Sub Cortical, Bone Mineral Area (mm^2): FOM2	2834	.32	11.68	2.4370	1.09942
fm2pq063a pQCT: Radius Trabecular, Bone Mineral Area (mm^2) (distal, 4%): FOM2	2834	23.84	446.72	151.0353	50.79187
fm2pq063b pQCT: Radius Trabecular, Bone Mineral Area (mm^2) (shaft, 65%): FOM2	2834	1.28	33.76	4.7192	2.24337

fm2pq064a pQCT: Radius Marrow Cavity, Tissue Area (mm^2) (distal, 4%): FOM2	2834	65.44	576.48	268.9257	58.74428
fm2pq064b pQCT: Radius Marrow Cavity, Tissue Area (mm^2) (shaft, 65%): FOM2	2834	1.76	84.32	26.6302	10.22237
fm2pq065 pQCT: Radius Marrow Cavity Fat Filtered, Lean Tissue Area (mm^2): FOM2	2834	1.76	43.84	12.7451	4.69292
fm2pq066 pQCT: Radius Marrow Cavity Lean Filtered, Fat Tissue Area (mm^2): FOM2	2834	.00	59.68	13.8851	7.75281
fm2pq070 pQCT: Radius Artefact Indicator, Area (mm^2): FOM2	2834	17.44	177.12	40.4255	19.16385
fm2pq080a pQCT: Total Cross Sectional of radius 4%, Area (mm^2) (distal, 4%): FOM2	2834	134.24	745.28	318.2267	53.55650
fm2pq080b pQCT: Total Cross Sectional of radius 4%, Area (mm^2) (shaft, 65%): FOM2	2834	67.68	192.80	110.0286	16.75472
fm2pq090 pQCT: Radius Super Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	635.01	1275.38	1195.3008	40.65132
fm2pq091a pQCT: Radius Cortical, Bone Mineral Density (mg.cm^-3) (distal, 4%): FOM2	2834	677.08	3780.75	892.8443	92.83965
fm2pq091b pQCT: Radius Cortical, Bone Mineral Density (mg.cm^-3) (shaft, 65%): FOM2	2834	658.08	1246.17	1158.2820	40.47232
fm2pq092 pQCT: Radius Sub Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	493.75	617.19	573.9913	12.73246
fm2pq093a pQCT: Radius Trabecular, Bone Mineral Density (mg.cm^-3) (distal, 4%): FOM2	2834	294.78	412.78	337.2872	15.18195
fm2pq093b pQCT: Radius Trabecular, Bone Mineral Density (mg.cm^-3) (shaft, 65%): FOM2	2834	302.42	426.47	366.8835	15.25009
fm2pq094a pQCT: Radius Marrow Cavity, Tissue Density (mg.cm^-3) (distal, 4%): FOM2	2834	127.43	405.62	247.2192	32.81115
fm2pq094b pQCT: Radius Marrow Cavity, Tissue Density (mg.cm^-3) (shaft, 65%): FOM2	2834	-14.51	167.61	48.5691	17.59087
fm2pq095 pQCT: Radius Marrow Cavity Fat Filtered, Lean Tissue Density (mg.cm^-3): FOM2	2834	-248.88	157.44	76.3913	22.11784
fm2pq096 pQCT: Radius Marrow Cavity Lean Filtered, Fat Tissue Density (mg.cm^-3): FOM2	2586	-90.52	2625.00	45.4509	118.07828
fm2pq097 pQCT: Radius Artefact Indicator, Density (mg.cm^-3): FOM2	2834	281.34	661.68	419.3182	33.77806
fm2pq098a pQCT: Total Cross Sectional of radius 4%, Density (mg.cm^-3) (distal, 4%): FOM2	2834	196.91	2537.83	354.7740	72.80331
fm2pq098b pQCT: Total Cross Sectional of radius 4%, Density (mg.cm^-3) (shaft, 65%): FOM2	2834	460.57	1111.12	850.0194	95.96271
fm2pq100a pQCT: Periosteal Circumference of Radius (mm), measured (distal, 4%): FOM2	2834	.00	196.80	32.3035	38.59836
fm2pq100b pQCT: Periosteal Circumference of Radius (mm), measured (shaft, 65%): FOM2	2834	.00	79.20	32.4360	8.15648
fm2pq101a pQCT: Endosteal Circumference of Radius (mm), measured (distal, 4%): FOM2	2834	.00	53.20	15.5822	19.70875
fm2pq101b pQCT: Endosteal Circumference of Radius (mm), measured (shaft, 65%): FOM2	2834	.00	31.20	20.9080	5.92751
fm2pq102a pQCT: Cortical Thickness of Radius (mm), measured (distal, 4%): FOM2	2834	.00	7.57	1.0012	1.29916
fm2pq102b pQCT: Cortical Thickness of Radius (mm), measured (shaft, 65%): FOM2	2834	.00	2.71	1.8606	.51933
fm2pq103a pQCT: SD of Cortical Thickness of Radius (mm), measured (distal, 4%): FOM2	2834	.00	2.22	.2707	.39036
fm2pq103b pQCT: SD of Cortical Thickness of Radius (mm), measured (shaft, 65%): FOM2	2834	.00	1.17	.2884	.10869
fm2pq104 pQCT: Ulna Super Cortical, Bone Mineral Content (mg): FOM2	2834	65.31	565.04	109.9403	16.16996
fm2pq105a pQCT: Ulna Cortical, Bone Mineral Content (mg) (distal, 4%): FOM2	2834	.00	53.38	19.5192	10.33371
fm2pq105b pQCT: Ulna Cortical, Bone Mineral Content (mg) (shaft, 65%): FOM2	2834	69.08	568.28	115.1844	16.28755
fm2pq106 pQCT: Ulna Sub Cortical, Bone Mineral Content (mg): FOM2	2834	.00	10.43	1.8206	1.01250
fm2pq107a pQCT: Ulna Trabecular, Bone Mineral Content (mg) (distal, 4%): FOM2	2834	.00	84.76	26.0841	8.65421

fm2pq107b pQCT: Ulna Trabecular, Bone Mineral Content (mg) (shaft, 65%): FOM2	2834	.00	18.90	2.2467	1.22616
fm2pq108a pQCT: Ulna Marrow Cavity, Tissue Content (mg) (distal, 4%): FOM2	2834	.00	91.03	30.9400	8.70544
fm2pq108b pQCT: Ulna Marrow Cavity, Tissue Content (mg) (shaft, 65%): FOM2	2834	-.31	4.72	1.2708	.55343
fm2pq109 pQCT: Ulna Marrow Cavity Fat Filtered, Lean Tissue Content (mg): FOM2	2834	.00	3.66	.9868	.45169
fm2pq110 pQCT: Ulna Marrow Cavity Lean Filtered, Fat Tissue Content (mg): FOM2	2834	-.82	1.48	.2840	.25009
fm2pq120 pQCT: Ulna Artefact Indicator, Content (mg): FOM2	2834	8.84	93.49	18.4581	7.15433
fm2pq121a pQCT: Total Cross Sectional of ulna 4%, Content (mg) (distal, 4%): FOM2	2834	.00	95.54	50.4593	8.81882
fm2pq121b pQCT: Total Cross Sectional of ulna 4%, Content (mg) (shaft, 65%): FOM2	2834	72.68	568.28	120.5225	16.66754
fm2pq122 pQCT: Ulna Super Cortical, Bone Mineral Area (mm^2): FOM2	2834	54.40	179.36	90.8339	11.10603
fm2pq123a pQCT: Ulna Cortical, Bone Mineral Area (mm^2) (distal, 4%): FOM2	2834	.00	52.96	22.1272	10.22539
fm2pq123b pQCT: Ulna Cortical, Bone Mineral Area (mm^2) (shaft, 65%): FOM2	2834	58.72	184.00	98.0704	11.71734
fm2pq124 pQCT: Ulna Sub Cortical, Bone Mineral Area (mm^2): FOM2	2834	.00	18.08	3.1854	1.76925
fm2pq124a pQCT: Ulna Trabecular, Bone Mineral Area (mm^2) (distal, 4%): FOM2	2834	.00	266.40	75.6571	26.72840
fm2pq124b pQCT: Ulna Trabecular, Bone Mineral Area (mm^2) (shaft, 65%): FOM2	2834	.00	50.08	6.1193	3.32484
fm2pq125a pQCT: Ulna Marrow Cavity, Tissue Area (mm^2) (distal, 4%): FOM2	2834	.00	308.96	113.0476	30.70296
fm2pq125b pQCT: Ulna Marrow Cavity, Tissue Area (mm^2) (shaft, 65%): FOM2	2834	.00	69.28	23.0375	7.97862
fm2pq126 pQCT: Ulna Marrow Cavity Fat Filtered, Lean Tissue Area (mm^2): FOM2	2834	.00	37.92	12.3662	4.60327
fm2pq127 pQCT: Ulna Marrow Cavity Lean Filtered, Fat Tissue Area (mm^2): FOM2	2834	.00	37.92	10.6712	5.34344
fm2pq130 pQCT: Ulna Artefact Indicator, Area (mm^2): FOM2	2834	19.04	220.00	44.9974	20.50899
fm2pq131a pQCT: Total Cross Sectional of ulna 4%, Area (mm^2) (distal, 4%): FOM2	2834	.00	315.36	135.1748	25.16360
fm2pq131b pQCT: Total Cross Sectional of ulna 4%, Area (mm^2) (shaft, 65%): FOM2	2834	80.80	254.72	130.4126	18.10405
fm2pq132 pQCT: Ulna Super Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	1030.78	3150.31	1209.4167	47.35871
fm2pq133a pQCT: Ulna Cortical, Bone Mineral Density (mg.cm^-3) (distal, 4%): FOM2	2821	625.00	1195.08	850.5993	78.46295
fm2pq133b pQCT: Ulna Cortical, Bone Mineral Density (mg.cm^-3) (shaft, 65%): FOM2	2834	904.32	3088.48	1174.1012	50.22900
fm2pq134 pQCT: Ulna Sub Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2833	486.11	625.00	571.8944	15.60137
fm2pq135a pQCT: Ulna Trabecular, Bone Mineral Density (mg.cm^-3) (distal, 4%): FOM2	2833	262.76	446.71	348.4839	20.31835
fm2pq135b pQCT: Ulna Trabecular, Bone Mineral Density (mg.cm^-3) (shaft, 65%): FOM2	2833	312.50	433.04	367.2355	15.98622
fm2pq136a pQCT: Ulna Marrow Cavity, Tissue Density (mg.cm^-3) (distal, 4%): FOM2	2833	128.18	446.06	276.0383	40.36384
fm2pq136b pQCT: Ulna Marrow Cavity, Tissue Density (mg.cm^-3) (shaft, 65%): FOM2	2832	-30.24	175.68	56.5544	19.03051
fm2pq137 pQCT: Ulna Marrow Cavity Fat Filtered, Lean Tissue Density (mg.cm^-3): FOM2	2833	13.72	163.29	80.4098	22.04959
fm2pq138 pQCT: Ulna Marrow Cavity Lean Filtered, Fat Tissue Density (mg.cm^-3): FOM2	2676	-95.31	1515.62	47.4772	92.42591
fm2pq140 pQCT: Ulna Artefact Indicator, Density (mg.cm^-3): FOM2	2834	291.31	509.18	419.9746	35.11062
fm2pq141a pQCT: Total Cross Sectional of ulna 4%, Density (mg.cm^-3) (distal, 4%): FOM2	2833	177.00	865.10	382.5187	81.97636

fm2pq141b pQCT: Total Cross Sectional of ulna 4%, Density (mg.cm^-3) (shaft, 65%): FOM2	2834	647.11	3088.48	928.7387	81.50467
fm2pq142a pQCT: Periosteal Circumference of Ulna (mm), measured (distal, 4%): FOM2	2834	.00	93.20	22.1660	20.75320
fm2pq142b pQCT: Periosteal Circumference of Ulna (mm), measured (shaft, 65%): FOM2	2834	.00	68.40	36.8429	8.23784
fm2pq143a pQCT: Endosteal Circumference of Ulna (mm), measured (distal, 4%): FOM2	2834	.00	33.60	11.7557	11.05153
fm2pq143b pQCT: Endosteal Circumference of Ulna (mm), measured (shaft, 65%): FOM2	2834	.00	38.40	23.9945	6.53555
fm2pq144a pQCT: Cortical Thickness of Ulna (mm), measured (distal, 4%): FOM2	2834	.00	3.26	.9949	.93909
fm2pq144b pQCT: Cortical Thickness of Ulna (mm), measured (shaft, 65%): FOM2	2834	.00	3.11	1.9998	.54155
fm2pq145a pQCT: SD of Cortical Thickness of Ulna (mm), measured (distal, 4%): FOM2	2834	.00	1.87	.2152	.25243
fm2pq145b pQCT: SD of Cortical Thickness of Ulna (mm), measured (shaft, 65%): FOM2	2834	.00	1.37	.3805	.15626
fm2pq146 pQCT: Total Super Cortical, Bone Mineral Content (mg): FOM2	2834	112.48	669.27	193.7522	25.98794
fm2pq147 pQCT: Total Cortical, Bone Mineral Content (mg): FOM2	2834	120.43	683.68	203.5818	26.19396
fm2pq148 pQCT: Total Sub Cortical, Bone Mineral Content (mg): FOM2	2834	.56	15.71	3.2223	1.42225
fm2pq149 pQCT: Total Trabecular, Bone Mineral Content (mg): FOM2	2834	1.04	29.37	3.9804	1.78525
fm2pq150 pQCT: Total Marrow Cavity, Tissue Content (mg): FOM2	2834	.16	10.43	2.4905	.87385
fm2pq151 pQCT: Total Marrow Cavity Lean Filtered, Lean Tissue , Content (mg): FOM2	2834	-.04	8.08	1.9420	.73431
fm2pq152 pQCT: Total Marrow Cavity Fat Filtered, Lean Tissue , Content (mg): FOM2	2832	-.84	3.63	.5497	.38553
fm2pq160 pQCT: Total Artefact Indicator, Content (mg): FOM2	2834	17.16	176.85	40.7425	18.10730
fm2pq161 pQCT: Total Cross Sectional of total bone area, Content (mg): FOM2	2834	133.04	688.90	213.2750	26.68334
fm2pq162 pQCT: Total Super Cortical, Bone Mineral Area (mm^2): FOM2	2834	97.12	269.12	160.8739	19.32109
fm2pq163 pQCT: Total Cortical, Bone Mineral Area (mm^2): FOM2	2834	107.84	294.72	174.3386	20.27781
fm2pq164 pQCT: Total Sub Cortical, Bone Mineral Area (mm^2): FOM2	2834	.96	27.52	5.6278	2.48094
fm2pq165 pQCT: Total Trabecular, Bone Mineral Area (mm^2): FOM2	2834	2.88	78.72	10.8468	4.84464
fm2pq166 pQCT: Total Marrow Cavity, Tissue Area (mm^2): FOM2	2834	9.12	150.56	49.6747	16.66437
fm2pq167 pQCT: Total Marrow Cavity Lean Filtered, Lean Tissue , Area (mm^2): FOM2	2834	6.40	81.76	25.1173	7.86981
fm2pq168 pQCT: Total Marrow Cavity Fat Filtered, Lean Tissue , Area (mm^2): FOM2	2834	.00	87.84	24.5575	11.44329
fm2pq170 pQCT: Total Artefact Indicator, Area (mm^2): FOM2	2834	39.20	926.08	139.2014	92.06845
fm2pq171 pQCT: Total Cross Sectional of total bone area, Area (mm^2): FOM2	2834	155.04	427.68	240.4880	32.72198
fm2pq172 pQCT: Total Super Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	899.92	2486.88	1203.4238	39.93639
fm2pq173 pQCT: Total Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	886.09	2319.76	1167.1954	41.07184
fm2pq174 pQCT: Total Sub Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	510.42	602.27	572.6263	10.40962
fm2pq175 pQCT: Total Trabecular, Bone Mineral Density (mg.cm^-3): FOM2	2834	314.34	417.34	366.9692	11.28312
fm2pq176 pQCT: Total Marrow Cavity, Tissue Density (mg.cm^-3): FOM2	2834	5.49	155.85	51.7913	13.64889
fm2pq177 pQCT: Total Marrow Cavity Lean Filtered, Lean Tissue , Density (mg.cm^-3): FOM2	2833	20.92	146.93	77.5569	16.08561

fm2pq178 pQCT: Total Marrow Cavity Fat Filtered, Lean Tissue , Density (mg.cm^-3): FOM2	2732	-56.40	1999.99	32.6826	51.24736
fm2pq180 pQCT: Total Artefact Indicator, Density (mg.cm^-3): FOM2	2834	123.75	470.25	325.1825	64.64464
fm2pq181 pQCT: Total Cross Sectional of total bone area, Density (mg.cm^-3): FOM2	2834	561.10	2085.05	891.9499	79.98148
fm2pq182 pQCT: Ulna Der. Super Cortical, Bone Mineral Content (mg): FOM2	2834	65.41	580.65	109.9512	16.32731
fm2pq183 pQCT: Ulna Der. Cortical, Bone Mineral Content (mg): FOM2	2834	69.08	591.24	115.2000	16.51702
fm2pq184 pQCT: Ulna Der. Sub Cortical, Bone Mineral Content (mg): FOM2	2834	.19	10.44	1.8239	1.01760
fm2pq185 pQCT: Ulna Der. Trabecular, Bone Mineral Content (mg): FOM2	2834	.23	18.89	2.2499	1.23254
fm2pq186 pQCT: Ulna Der. Marrow Cavity, Tissue Content (mg): FOM2	2834	-.31	4.71	1.2713	.55375
fm2pq187 pQCT: Ulna Der. Marrow Cavity Fat Filtered, Lean Tissue Content (mg): FOM2	2834	-.75	3.65	.9867	.45305
fm2pq188 pQCT: Ulna Der. Marrow Cavity Lean Filtered, Fat Tissue Content (mg): FOM2	2834	-.82	1.48	.2847	.25059
fm2pq190 pQCT: Ulna Der. Artefact Indicator, Content (mg): FOM2	2834	9.31	126.41	24.2184	12.45801
fm2pq191 pQCT: Total Cross Sectional of ulna derived 4%, Content: FOM2	2834	72.69	592.57	120.5451	16.90276
fm2pq192 pQCT: Ulna Der. Super Cortical, Bone Mineral Area (mm^2): FOM2	2834	54.40	196.80	90.8391	11.16551
fm2pq193 pQCT: Ulna Der. Cortical, Bone Mineral Area (mm^2): FOM2	2834	58.72	217.12	98.0963	11.82711
fm2pq194 pQCT: Ulna Der. Sub Cortical, Bone Mineral Area (mm^2): FOM2	2834	.32	18.08	3.1909	1.77776
fm2pq195 pQCT: Ulna Der. Trabecular, Bone Mineral Area (mm^2): FOM2	2834	1.28	50.08	6.1276	3.34153
fm2pq196 pQCT: Ulna Der. Marrow Cavity, Tissue Area (mm^2): FOM2	2834	1.44	69.28	23.0446	7.97251
fm2pq197 pQCT: Ulna Der. Marrow Cavity Fat Filtered, Lean Tissue Area (mm^2): FOM2	2834	1.44	37.92	12.3722	4.60170
fm2pq198 pQCT: Ulna Der. Marrow Cavity Lean Filtered, Fat Tissue Area (mm^2): FOM2	2834	.00	37.92	10.6724	5.34268
fm2pq200 pQCT: Ulna Der. Artefact Indicator, Area (mm^2): FOM2	2834	21.76	856.48	98.7759	77.60227
fm2pq201 pQCT: Total Cross Sectional of ulna derived 4%, Area (mm^2): FOM2	2834	80.80	254.72	130.4593	18.17408
fm2pq202 pQCT: Ulna Der. Super Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	1029.75	2950.46	1209.4300	44.52854
fm2pq203 pQCT: Ulna Der. Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	903.79	2723.10	1173.8898	45.60291
fm2pq204 pQCT: Ulna Der. Sub Cortical, Bone Mineral Density (mg.cm^-3): FOM2	2834	486.11	625.00	571.8836	15.73997
fm2pq205 pQCT: Ulna Der. Trabecular, Bone Mineral Density (mg.cm^-3): FOM2	2834	179.69	433.04	367.2093	16.33249
fm2pq206 pQCT: Ulna Der. Marrow Cavity, Tissue Density (mg.cm^-3): FOM2	2833	-30.24	175.68	56.5407	19.05761
fm2pq207 pQCT: Ulna Der. Marrow Cavity Fat Filtered, Lean Tissue Density (mg.cm^-3): FOM2	2834	-520.83	163.29	80.1371	24.81677
fm2pq208 pQCT: Ulna Der. Marrow Cavity Lean Filtered, Fat Tissue Density (mg.cm^-3): FOM2	2679	-492830752.00	251658288.00	-115417.2130	12600202.92408
fm2pq210 pQCT: Ulna Der. Artefact Indicator, Density (mg.cm^-3): FOM2	2834	106.47	472.48	285.8737	72.16285
fm2pq211 pQCT: Total Cross Sectional of ulna derived 4%, Density (mg.cm^-3): FOM2	2834	647.11	2672.12	928.4817	77.98389
fm2pq212 pQCT: Total Cross Section (Not Smoothed), Content (mg): FOM2	2834	276.76	939.76	430.0113	50.24437
fm2pq213 pQCT: Total Muscle and Fat (Not Smoothed), Content (mg): FOM2	2834	118.95	359.81	216.7363	30.82331
fm2pq214 pQCT: Total Muscle (Not Smoothed) Lean Filtered , Content (mg): FOM2	2752	-117.07	206.08	60.1716	37.79113

fm2pq215 pQCT: Total Fat (Not Smoothed) Fat Filtered , Content (mg): FOM2	2834	57.53	274.42	158.4557	29.86020
fm2pq216 pQCT: Total Cross Section (Smoothed), Content (mg): FOM2	2834	267.79	916.83	417.3170	49.31812
fm2pq217 pQCT: Total Muscle and Fat (Smoothed), Content (mg): FOM2	2834	109.24	339.64	204.0419	29.81925
fm2pq218 pQCT: Total Muscle (Smoothed) Lean Filtered , Content (mg): FOM2	2834	114.79	334.16	209.6943	28.22134
fm2pq219 pQCT: Total Fat (Smoothed) Fat Filtered , Content (mg): FOM2	1318	-52.29	61.61	-5.9912	11.06122
fm2pq220 pQCT: Total Cross Section (Not Smoothed), Area (mm^2): FOM2	2834	2736.64	9783.84	4702.9145	875.62515
fm2pq221 pQCT: Total Muscle and Fat (Not Smoothed), Area (mm^2): FOM2	2834	2558.55	9497.68	4489.6395	868.07085
fm2pq222 pQCT: Total Muscle (Not Smoothed) Lean Filtered , Area (mm^2): FOM2	2834	1739.90	4529.73	2931.5719	356.92769
fm2pq223 pQCT: Total Fat (Not Smoothed) Fat Filtered , Area (mm^2): FOM2	2834	300.65	5599.68	1558.0676	641.87070
fm2pq224 pQCT: Total Cross Section (Smoothed), Area (mm^2): FOM2	2834	2668.48	9677.44	4612.4182	869.07170
fm2pq225 pQCT: Total Muscle and Fat (Smoothed), Area (mm^2): FOM2	2834	2487.36	9328.96	4371.9303	859.22828
fm2pq226 pQCT: Total Muscle (Smoothed) Lean Filtered , Area (mm^2): FOM2	2834	1515.52	4582.72	2664.2040	366.34832
fm2pq227 pQCT: Total Fat (Smoothed) Fat Filtered , Area (mm^2): FOM2	2834	304.21	6477.28	1825.4355	706.65368
fm2pq228 pQCT: Total Cross Section (Not Smoothed), Density (mg.cm^-3): FOM2	2834	44.16	232.80	93.4640	14.52489
fm2pq229 pQCT: Total Muscle and Fat (Not Smoothed), Density (mg.cm^-3): FOM2	2834	22.25	76.06	49.3248	8.06846
fm2pq230 pQCT: Total Muscle (Not Smoothed) Lean Filtered , Density (mg.cm^-3): FOM2	2693	-45.63	93.15	21.1783	12.12903
fm2pq231 pQCT: Total Fat (Not Smoothed) Fat Filtered , Density (mg.cm^-3): FOM2	2834	20.78	316.95	114.9911	40.94066
fm2pq232 pQCT: Total Cross Section (Smoothed), Density (mg.cm^-3): FOM2	2834	42.88	231.02	92.5571	14.68804
fm2pq233 pQCT: Total Muscle and Fat (Smoothed), Density (mg.cm^-3): FOM2	2834	20.62	74.21	47.7427	8.11991
fm2pq234 pQCT: Total Muscle (Smoothed) Lean Filtered , Density (mg.cm^-3): FOM2	2834	60.67	104.24	78.7975	3.20963
fm2pq235 pQCT: Total Fat (Smoothed) Fat Filtered , Density (mg.cm^-3): FOM2	858	-12.66	16.98	1.5153	2.43410
fm2pq240 pQCT: 4% Radius, All Bone, Bone Mineral Content (mg): FOM2	2834	41.51	1506.36	95.7365	34.49658
fm2pq241 pQCT: 4% Radius, All Bone, Bone Mineral Area (mm^2): FOM2	2834	82.56	595.36	200.3363	50.81395
fm2pq242 pQCT: 4% Radius, All Bone, Bone Mineral Density (mg.cm^-3): FOM2	2834	300.91	2818.79	485.2948	81.65035
fm2pq243 pQCT: 4% Radius, All Bone, Bone Mineral Content (mg): FOM2	2834	.00	90.83	45.6033	9.92783
fm2pq244 pQCT: 4% Radius, All Bone, Bone Mineral Area (mm^2): FOM2	2834	.00	272.80	97.7843	23.69206
fm2pq245 pQCT: 4% Radius, All Bone, Bone Mineral Density (mg.cm^-3): FOM2	2833	264.92	943.84	476.8334	92.70589
fm2pq250a pQCT: Periosteal circumference of the radius [mm], Circ Ring (distal, 4%): FOM2	2834	41.07	96.78	63.0187	5.25631
fm2pq250b pQCT: Periosteal circumference of the radius [mm], Circ Ring (shaft, 65%): FOM2	2834	29.16	49.22	37.0784	2.80237
fm2pq251a pQCT: Width of the radius [mm], Circ Ring (distal, 4%): FOM2	2834	13.07	30.80	20.0596	1.67317
fm2pq251b pQCT: Width of the radius [mm], Circ Ring (shaft, 65%): FOM2	2834	9.28	15.67	11.8023	.89211
fm2pq252a pQCT: Endosteal circumference of the radius [mm], Circ Ring (distal, 4%): FOM2	2834	28.68	85.11	57.7909	6.29691
fm2pq252b pQCT: Endosteal circumference of the radius [mm], Circ Ring (shaft, 65%): FOM2	2834	11.17	35.62	20.2954	3.55858

fm2pq253a pQCT: Cortical thickness of the radius [mm], Circ Ring (distal, 4%): FOM2	2834	.01	5.65	.8321	.28241
fm2pq253b pQCT: Cortical thickness of the radius [mm], Circ Ring (shaft, 65%): FOM2	2834	1.26	3.88	2.6710	.34214
fm2pq254a pQCT: rad_wt_distal: FOM2	2834	.56	3.15	.7440	.07742
fm2pq254b pQCT: rad_wt_shaft: FOM2	2834	.55	1.04	.9653	.03384
fm2pq255a pQCT: Est. Cross Sectional Moment of Inertia, radius [mm^4] (distal, 4%): FOM2	2834	80.16	24476.57	2257.2006	837.58348
fm2pq255b pQCT: Est. Cross Sectional Moment of Inertia, radius [mm^4] (shaft, 65%): FOM2	2834	328.61	2296.16	883.4422	251.62328
fm2pq256a pQCT: Est. Section Modulus, radius [mm^3] (distal, 4%): FOM2	2834	6.20	1784.50	224.4583	68.30091
fm2pq256b pQCT: Est. Section Modulus, radius [mm^3] (shaft, 65%): FOM2	2834	70.63	293.11	147.4730	30.53814
fm2pq257a pQCT: Est. Buckling Ratio, radius (distal, 4%): FOM2	2834	2.43	1093.55	16.0680	34.80260
fm2pq257b pQCT: Est. Buckling Ratio, radius (shaft, 65%): FOM2	2834	1.49	4.64	2.2497	.36884
fm2pq258a pQCT: Est. Cross Sectional Moment of Inertia, radius [mm^3] (distal, 4%): FOM2	2834	3.50	5622.29	171.0076	127.79526
fm2pq258b pQCT: Est. Cross Sectional Moment of Inertia, radius [mm^3] (shaft, 65%): FOM2	2834	62.61	271.70	142.2257	29.13586
fm2pq259a pQCT: Periosteal circumference of the ulna [mm], Circ Ring (distal, 4%): FOM2	2834	.00	62.95	41.0345	3.85275
fm2pq259b pQCT: Periosteal circumference of the ulna [mm], Circ Ring (shaft, 65%): FOM2	2834	31.86	56.58	40.3870	2.77914
fm2pq260a pQCT: Width of the ulna [mm], Circ Ring (distal, 4%): FOM2	2834	.00	20.04	13.0617	1.22644
fm2pq260b pQCT: Width of the ulna [mm], Circ Ring (shaft, 65%): FOM2	2834	10.14	18.01	12.8556	.88475
fm2pq261a pQCT: Endosteal circumference of the ulna [mm], Circ Ring (distal, 4%): FOM2	2834	.00	62.31	37.3402	5.12951
fm2pq261b pQCT: Endosteal circumference of the ulna [mm], Circ Ring (shaft, 65%): FOM2	2834	.00	38.55	19.8864	3.30991
fm2pq262a pQCT: Cortical thickness of the ulna [mm], Circ Ring (distal, 4%): FOM2	2834	.00	1.64	.5880	.30337
fm2pq262b pQCT: Cortical thickness of the ulna [mm], Circ Ring (shaft, 65%): FOM2	2834	2.13	7.65	3.2627	.33467
fm2pq263a pQCT: ulna_wt_distal: FOM2	2821	.52	1.00	.7088	.06542
fm2pq263b pQCT: ulna_wt_shaft: FOM2	2834	.75	2.57	.9784	.04190
fm2pq264a pQCT: Est. Cross Sectional Moment of Inertia, ulna [mm^4] (distal, 4%): FOM2	2834	.00	1594.32	412.4588	178.48117
fm2pq264b pQCT: Est. Cross Sectional Moment of Inertia, ulna [mm^4] (shaft, 65%): FOM2	2834	482.23	4050.62	1287.0775	345.00543
fm2pq265a pQCT: Est. Section Modulus, ulna [mm^3] (distal, 4%): FOM2	2833	.00	191.78	63.5915	26.65616
fm2pq265b pQCT: Est. Section Modulus, ulna [mm^3] (shaft, 65%): FOM2	2834	94.99	449.85	197.6222	38.56858
fm2pq266a pQCT: Est. Buckling Ratio, ulna (distal, 4%): FOM2	2820	2.14	2305.67	24.9181	92.44546
fm2pq266b pQCT: Est. Buckling Ratio, ulna (shaft, 65%): FOM2	2834	1.00	3.42	1.9890	.23483
fm2pq267a pQCT: Est. Cross Sectional Moment of Inertia, ulna [mm^3] (distal, 4%): FOM2	2821	.31	137.58	46.5961	21.87497
fm2pq267b pQCT: Est. Cross Sectional Moment of Inertia, ulna [mm^3] (shaft, 65%): FOM2	2834	93.13	906.06	193.2110	39.11703
fm2pq270 pQCT: Periosteal circumference of the ulna [mm], Circ Ring: FOM2	2834	31.86	56.58	40.3937	2.78737
fm2pq271 pQCT: Width of the ulna [mm], Circ Ring: FOM2	2834	10.14	18.01	12.8577	.88734
fm2pq272 pQCT: Endosteal circumference of the ulna [mm], Circ Ring: FOM2	2834	7.64	38.55	19.8949	3.29817
fm2pq273 pQCT: Cortical thickness of the ulna [mm], Circ Ring: FOM2	2834	2.13	7.19	3.2624	.33263
fm2pq274 pQCT: ulna_der_wt: FOM2	2834	.75	2.27	.9782	.03814
fm2pq275 pQCT: Estimated Cross Sectional Moment of Inertia, of the ulna [mm^4]: FOM2	2834	482.23	4050.62	1288.1411	347.93959

fm2pq276 pQCT: Estimated Section Modulus, of the ulna [mm^3]: FOM2	2834	94.99	465.59	197.7313	38.82960
fm2pq277 pQCT: Estimated Buckling Ratio, of the ulna: FOM2	2834	1.17	3.42	1.9894	.23464
fm2pq278 pQCT: Estimated Cross Sectional Moment of Inertia, of the ulna [mm^3]: FOM2	2834	93.13	1056.53	193.3118	40.17588
fm2pq280a pQCT: bone_check_distal: FOM2	2834	-68	202	46.15	33.999
fm2pq280b pQCT: bone_check_shaft: FOM2	2829	-67	74	31.51	25.408
Valid N (listwise)	641				

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.

fm2sa001 Blood sample fieldworker: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	12	.1	.4	.4
	2	37	.3	1.2	1.6
	3	38	.3	1.3	2.9
	4	462	3.1	15.6	18.5
	5	1	.0	.0	18.5
	6	577	3.9	19.4	37.9
	7	51	.3	1.7	39.7
	8	61	.4	2.1	41.7
	9	382	2.6	12.9	54.6
	10	404	2.8	13.6	68.2
	11	48	.3	1.6	69.8
	12	44	.3	1.5	71.3
	13	308	2.1	10.4	81.6
	14	25	.2	.8	82.5
	15	114	.8	3.8	86.3
	16	62	.4	2.1	88.4
	17	132	.9	4.4	92.9
	18	73	.5	2.5	95.3
	19	89	.6	3.0	98.3
	20	43	.3	1.4	99.8
	21	4	.0	.1	99.9
	22	3	.0	.1	100.0
	Total	2970	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2	.0		
	Total	11700	79.8		
Total		14670	100.0		

fm2sa005 Taking any form of anticoagulant: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	33	.2	1.1	1.1
	2 No	2928	20.0	98.9	100.0
	Total	2961	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	11	.1		
	Total	11709	79.8		
Total		14670	100.0		

fm2sa006 Any clotting/bleeding or are anaemic: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	39	.3	1.3	1.3
	2 No	2919	19.9	98.7	100.0
	Total	2958	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	14	.1		
	Total	11712	79.8		
Total		14670	100.0		

fm2sa008 Taking Insulin medications: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	42	.3	1.4	1.4
	2 No	2914	19.9	98.6	100.0
	Total	2956	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	16	.1		
	Total	11714	79.9		
Total		14670	100.0		

fm2sa010 Consent to bloods: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2943	20.1	99.0	99.0
	2 No	29	.2	1.0	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa011 Consent to cellline and DNA: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	283	1.9	9.5	9.5
	2 No	2689	18.3	90.5	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa012 Consent to DNA only: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	223	1.5	7.5	7.5
	2 No	2749	18.7	92.5	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa013 Consent to Haemoglobin test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2920	19.9	98.3	98.3
	2 No	52	.4	1.7	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa014 Consent to be informed if Haemoglobin is low: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2890	19.7	97.2	97.2
	2 No	82	.6	2.8	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa015 Consent to Glucose test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2916	19.9	98.1	98.1
	2 No	56	.4	1.9	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa016 Consent to be informed if Glucose is high: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2879	19.6	96.9	96.9
	2 No	93	.6	3.1	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa017 Consent to Lipids test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2920	19.9	98.3	98.3
	2 No	52	.4	1.7	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa018 Consent to be informed if Lipids out of range: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2884	19.7	97.0	97.0
	2 No	88	.6	3.0	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa019 Consent to have bloods stored: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2915	19.9	98.1	98.1
	2 No	57	.4	1.9	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa020 Consent to have hormones related to pregnancy and menopause: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2920	19.9	98.3	98.3
	2 No	52	.4	1.7	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

fm2sa050a Time last eaten (hour): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	30	.2	1.0	1.0
	1	16	.1	.5	1.6
	2	1	.0	.0	1.6
	3	2	.0	.1	1.7
	4	23	.2	.8	2.4
	5	95	.6	3.2	5.7
	6	125	.9	4.2	9.9
	7	101	.7	3.4	13.3
	8	20	.1	.7	14.0
	9	31	.2	1.0	15.0
	10	40	.3	1.4	16.4
	11	17	.1	.6	17.0
	12	30	.2	1.0	18.0
	13	18	.1	.6	18.6
	14	3	.0	.1	18.7
	15	2	.0	.1	18.7
	16	16	.1	.5	19.3
	17	10	.1	.3	19.6
	18	157	1.1	5.3	24.9
	19	652	4.4	22.1	47.0
	20	157	1.1	5.3	52.3
	21	586	4.0	19.8	72.1
	22	720	4.9	24.4	96.5
	23	103	.7	3.5	100.0
	Total	2955	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	17	.1		
	Total	11715	79.9		
Total		14670	100.0		

fm2sa050b Time last eaten (minutes): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1241	8.5	42.0	42.0
	2	1	.0	.0	42.0
	4	3	.0	.1	42.1
	9	6	.0	.2	42.3
	10	5	.0	.2	42.5
	11	1	.0	.0	42.5
	14	29	.2	1.0	43.5
	15	48	.3	1.6	45.1
	16	2	.0	.1	45.2
	19	6	.0	.2	45.4
	20	7	.0	.2	45.7
	21	1	.0	.0	45.7
	24	1	.0	.0	45.7
	29	296	2.0	10.0	55.7
	30	553	3.8	18.7	74.5
	33	1	.0	.0	74.5
	39	6	.0	.2	74.7
	40	1	.0	.0	74.7
	44	55	.4	1.9	76.6
	45	53	.4	1.8	78.4
	49	1	.0	.0	78.4
	50	18	.1	.6	79.0
	55	18	.1	.6	79.6
	59	602	4.1	20.4	100.0
	Total	2955	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	17	.1		
	Total	11715	79.9		
Total		14670	100.0		

fm2sa055 CDPA sample taken (yellow tube): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	226	1.5	7.8	7.8
	2 No	2680	18.3	92.2	100.0
	Total	2906	19.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	66	.4		
	Total	11764	80.2		
Total		14670	100.0		

fm2sa057 Heparin sample taken (orange tube): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2740	18.7	93.8	93.8
	2 No	182	1.2	6.2	100.0
	Total	2922	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	50	.3		
	Total	11748	80.1		
Total		14670	100.0		

fm2sa058 EDTA sample taken (purple tube): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2767	18.9	94.6	94.6
	2 No	158	1.1	5.4	100.0
	Total	2925	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	47	.3		
	Total	11745	80.1		
Total		14670	100.0		

fm2sa060a Time blood sample taken (hour): FOM2

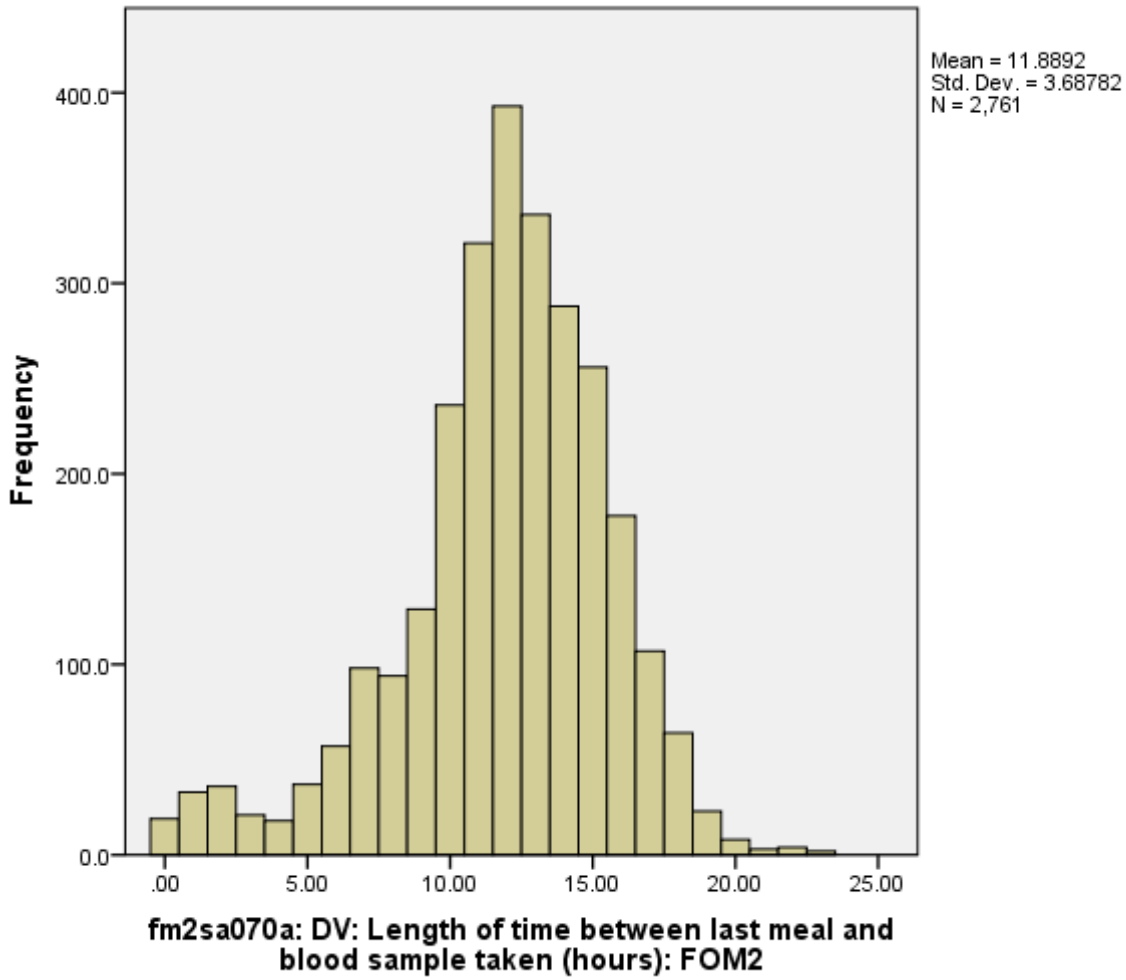
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	7	5	.0	.2	.2
	8	751	5.1	27.2	27.4
	9	146	1.0	5.3	32.7
	10	749	5.1	27.1	59.8
	11	72	.5	2.6	62.4
	12	418	2.8	15.1	77.5
	13	357	2.4	12.9	90.5
	14	89	.6	3.2	93.7
	15	124	.8	4.5	98.2
	16	9	.1	.3	98.5
	17	39	.3	1.4	99.9
	18	2	.0	.1	100.0
	Total	2761	18.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	211	1.4		
	Total	11909	81.2		
Total		14670	100.0		

fm2sa060b Time blood sample taken (minutes): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	59	.4	2.1	2.1
	1	14	.1	.5	2.6
	2	62	.4	2.2	4.9
	3	54	.4	2.0	6.8
	4	15	.1	.5	7.4
	5	47	.3	1.7	9.1
	6	39	.3	1.4	10.5
	7	54	.4	2.0	12.5
	8	51	.3	1.8	14.3
	9	58	.4	2.1	16.4
	10	27	.2	1.0	17.4
	11	41	.3	1.5	18.9
	12	86	.6	3.1	22.0
	13	24	.2	.9	22.9
	14	64	.4	2.3	25.2
	15	66	.4	2.4	27.6
	16	53	.4	1.9	29.5
	17	43	.3	1.6	31.0
	18	58	.4	2.1	33.1
	19	43	.3	1.6	34.7
	20	64	.4	2.3	37.0
	21	86	.6	3.1	40.1
	22	13	.1	.5	40.6
	23	66	.4	2.4	43.0
	24	49	.3	1.8	44.8
	25	55	.4	2.0	46.8
	26	36	.2	1.3	48.1
	27	70	.5	2.5	50.6
	28	48	.3	1.7	52.3
	29	20	.1	.7	53.1
	30	69	.5	2.5	55.6
	31	12	.1	.4	56.0
	32	58	.4	2.1	58.1
	33	46	.3	1.7	59.8
	34	29	.2	1.1	60.8
	35	37	.3	1.3	62.2
	36	57	.4	2.1	64.2
	37	30	.2	1.1	65.3
	38	55	.4	2.0	67.3
	39	51	.3	1.8	69.1
	40	20	.1	.7	69.9
	41	52	.4	1.9	71.7
	42	47	.3	1.7	73.5
	43	22	.1	.8	74.2
	44	67	.5	2.4	76.7
	45	55	.4	2.0	78.7
	46	26	.2	.9	79.6
	47	45	.3	1.6	81.2
	48	52	.4	1.9	83.1
	49	34	.2	1.2	84.4
	50	48	.3	1.7	86.1
	51	55	.4	2.0	88.1
	52	22	.1	.8	88.9

	53	62	.4	2.2	91.1
	54	43	.3	1.6	92.7
	55	32	.2	1.2	93.8
	56	50	.3	1.8	95.7
	57	47	.3	1.7	97.4
	58	46	.3	1.7	99.0
	59	27	.2	1.0	100.0
	Total	2761	18.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	211	1.4		
	Total	11909	81.2		
Total		14670	100.0		

The time that the Mother last ate is recorded in fm2sa050a (hour) and fm2sa050b (minutes) and the time that the samples were taken is recorded in fm2sa060a (hour) and fm2sa060b (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 (fm2sa070a) and minutes (fm2sa070b), while the other is a binary variable stating whether the length of time was over eight hours or not (fm2sa071).



fm2sa070b DV: Length of time between last meal and blood sample taken (minutes): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	56	.4	2.0	2.0
	1	26	.2	.9	3.0
	2	46	.3	1.7	4.6
	3	55	.4	2.0	6.6
	4	23	.2	.8	7.5
	5	34	.2	1.2	8.7
	6	45	.3	1.6	10.3
	7	41	.3	1.5	11.8
	8	46	.3	1.7	13.5
	9	52	.4	1.9	15.4
	10	37	.3	1.3	16.7
	11	54	.4	2.0	18.7
	12	74	.5	2.7	21.3
	13	46	.3	1.7	23.0
	14	63	.4	2.3	25.3
	15	54	.4	2.0	27.2
	16	42	.3	1.5	28.8
	17	34	.2	1.2	30.0
	18	63	.4	2.3	32.3
	19	24	.2	.9	33.1
	20	50	.3	1.8	35.0
	21	61	.4	2.2	37.2
	22	27	.2	1.0	38.1
	23	52	.4	1.9	40.0
	24	56	.4	2.0	42.0
	25	44	.3	1.6	43.6
	26	45	.3	1.6	45.3
	27	62	.4	2.2	47.5
	28	41	.3	1.5	49.0
	29	36	.2	1.3	50.3
	30	62	.4	2.2	52.6
	31	20	.1	.7	53.3
	32	47	.3	1.7	55.0
	33	57	.4	2.1	57.0
	34	25	.2	.9	58.0
	35	46	.3	1.7	59.6
	36	66	.4	2.4	62.0
	37	30	.2	1.1	63.1
	38	57	.4	2.1	65.2
	39	48	.3	1.7	66.9
	40	24	.2	.9	67.8
	41	50	.3	1.8	69.6
	42	45	.3	1.6	71.2
	43	19	.1	.7	71.9
	44	50	.3	1.8	73.7
	45	74	.5	2.7	76.4
	46	39	.3	1.4	77.8
	47	48	.3	1.7	79.5
	48	48	.3	1.7	81.3
	49	41	.3	1.5	82.8
	50	62	.4	2.2	85.0
	51	57	.4	2.1	87.1
	52	41	.3	1.5	88.6

	53	46	.3	1.7	90.2
	54	70	.5	2.5	92.8
	55	30	.2	1.1	93.8
	56	48	.3	1.7	95.6
	57	58	.4	2.1	97.7
	58	29	.2	1.1	98.7
	59	35	.2	1.3	100.0
	Total	2761	18.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	211	1.4		
	Total	11909	81.2		
Total		14670	100.0		

fm2sa071 DV: Blood sample taken less than eight hours after last meal: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	319	2.2	11.6	11.6
	2 No	2442	16.6	88.4	100.0
	Total	2761	18.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	211	1.4		
	Total	11909	81.2		
Total		14670	100.0		

fm2sa061 Problems with taking blood sample: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	288	2.0	10.0	10.0
	2 No	2603	17.7	90.0	100.0
	Total	2891	19.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	81	.6		
	Total	11779	80.3		
Total		14670	100.0		

fm2sa061a Problems with taking blood sample nature: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Faint	16	.1	8.2	8.2
	2 Looks like there will be marked bruising	6	.0	3.1	11.3
	3 Took more than 2 attempts to take blood	109	.7	56.2	67.5
	4 Other	63	.4	32.5	100.0
	Total	194	1.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2778	18.9		
	Total	14476	98.7		
Total		14670	100.0		

fm2sa062 Number of attempts to take blood: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	2445	16.7	90.5	90.5
	2	209	1.4	7.7	98.2
	3	44	.3	1.6	99.8
	4	5	.0	.2	100.0
	Total	2703	18.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	269	1.8		
	Total	11967	81.6		
Total		14670	100.0		

fm2sa063 Arm used for taking blood: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Left	1172	8.0	42.2	42.2
	2 Right	1447	9.9	52.1	94.3
	3 Both	159	1.1	5.7	100.0
	Total	2778	18.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	194	1.3		
	Total	11892	81.1		
Total		14670	100.0		

fm2sa068 Currently taking any regular medications: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1596	10.9	54.7	54.7
	2 No	1324	9.0	45.3	100.0
	Total	2920	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	52	.4		
	Total	11750	80.1		
Total		14670	100.0		

fm2sa069 Any allergies: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	818	5.6	35.6	35.6
	2 No	1478	10.1	64.4	100.0
	Total	2296	15.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	676	4.6		
	Total	12374	84.3		
Total		14670	100.0		

Derived text medications data

The following variables detail whether the Mother was taken either certain medications (e.g., statins), or medication for certain conditions (e.g., diabetes). These variables were derived from the text medications data.

Statin use (fm2sa201) was derived using the following protocol:

- Searching for statin medications (including misspellings) listed on the British National Formulary (BNF) website (https://www.bnf.org/) and whether the Mother was taking any of these.

fm2sa201 DV: Taking any statins: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	2840	19.4	97.3	97.3
	1 Yes	80	.5	2.7	100.0
	Total	2920	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	52	.4		
	Total	11750	80.1		
Total		14670	100.0		

Diabetes medication (fm2sa210) 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.

fm2sa210 DV: Currently taking diabetes medication: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	2874	19.6	98.4	98.4
	1 Yes	46	.3	1.6	100.0
	Total	2920	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	52	.4		
	Total	11750	80.1		
Total		14670	100.0		

2.6 Hormone use and menstruation

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

fm2ob100 Currently taking oral contraceptives: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	149	1.0	5.0	5.0
	2 No	2804	19.1	95.0	100.0
	Total	2953	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	19	.1		
	Total	11717	79.9		
Total		14670	100.0		

fm2ob100a Length of time taking oral contraceptive pill (years): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	5	.0	4.1	4.1
	1	4	.0	3.3	7.4
	2	6	.0	4.9	12.3
	3	5	.0	4.1	16.4
	4	4	.0	3.3	19.7
	5	7	.0	5.7	25.4
	6	8	.1	6.6	32.0
	7	2	.0	1.6	33.6
	8	3	.0	2.5	36.1
	9	1	.0	.8	36.9
	10	10	.1	8.2	45.1
	12	2	.0	1.6	46.7
	15	4	.0	3.3	50.0
	16	4	.0	3.3	53.3
	17	2	.0	1.6	54.9
	18	3	.0	2.5	57.4
	19	3	.0	2.5	59.8
	20	13	.1	10.7	70.5
	22	1	.0	.8	71.3
	23	2	.0	1.6	73.0
	24	4	.0	3.3	76.2
	25	5	.0	4.1	80.3
	26	3	.0	2.5	82.8
	27	3	.0	2.5	85.2
	28	3	.0	2.5	87.7
	30	10	.1	8.2	95.9
	31	2	.0	1.6	97.5
	32	1	.0	.8	98.4
	34	1	.0	.8	99.2
	37	1	.0	.8	100.0
	Total	122	.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2850	19.4		
	Total	14548	99.2		
Total		14670	100.0		

fm2ob100b Length of time taking oral contraceptive pill (months): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	40	.3	65.6	65.6
	1	3	.0	4.9	70.5
	2	2	.0	3.3	73.8
	3	2	.0	3.3	77.0
	4	3	.0	4.9	82.0
	5	2	.0	3.3	85.2
	6	5	.0	8.2	93.4
	7	1	.0	1.6	95.1
	8	2	.0	3.3	98.4
	9	1	.0	1.6	100.0
	Total	61	.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2911	19.8		
	Total	14609	99.6		
Total		14670	100.0		

fm2ob101 Currently using contraceptive injection or implant: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	39	.3	1.3	1.3
	2 No	2899	19.8	98.7	100.0
	Total	2938	20.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	34	.2		
	Total	11732	80.0		
Total		14670	100.0		

fm2ob101a Length of time using contraceptive injection or implant (years): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1	.0	4.0	4.0
	1	7	.0	28.0	32.0
	2	3	.0	12.0	44.0
	4	1	.0	4.0	48.0
	5	1	.0	4.0	52.0
	6	3	.0	12.0	64.0
	7	1	.0	4.0	68.0
	8	1	.0	4.0	72.0
	9	1	.0	4.0	76.0
	11	1	.0	4.0	80.0
	12	1	.0	4.0	84.0
	15	1	.0	4.0	88.0
	16	1	.0	4.0	92.0
	18	1	.0	4.0	96.0
	19	1	.0	4.0	100.0
	Total	25	.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2947	20.1		
	Total	14645	99.8		
Total		14670	100.0		

fm2ob101b Length of time using contraceptive injection or implant (months): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	7	.0	35.0	35.0
	2	2	.0	10.0	45.0
	3	5	.0	25.0	70.0
	4	1	.0	5.0	75.0
	6	3	.0	15.0	90.0
	9	1	.0	5.0	95.0
	10	1	.0	5.0	100.0
	Total	20	.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2952	20.1		
	Total	14650	99.9		
Total		14670	100.0		

fm2ob102 Currently using hormonal coil: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	434	3.0	14.7	14.7
	2 No	2515	17.1	85.3	100.0
	Total	2949	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	23	.2		
	Total	11721	79.9		
Total		14670	100.0		

fm2ob102a Length of time using hormonal coil (years): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	13	.1	3.6	3.6
	1	41	.3	11.3	14.8
	2	52	.4	14.3	29.1
	3	37	.3	10.2	39.3
	4	36	.2	9.9	49.2
	5	26	.2	7.1	56.3
	6	18	.1	4.9	61.3
	7	19	.1	5.2	66.5
	8	25	.2	6.9	73.4
	9	15	.1	4.1	77.5
	10	25	.2	6.9	84.3
	11	1	.0	.3	84.6
	12	12	.1	3.3	87.9
	13	8	.1	2.2	90.1
	14	3	.0	.8	90.9
	15	11	.1	3.0	94.0
	16	6	.0	1.6	95.6
	17	4	.0	1.1	96.7
	18	3	.0	.8	97.5
	19	5	.0	1.4	98.9
	20	1	.0	.3	99.2
	21	1	.0	.3	99.5
	22	1	.0	.3	99.7
	26	1	.0	.3	100.0
	Total	364	2.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2608	17.8		
	Total	14306	97.5		
Total		14670	100.0		

fm2ob102b Length of time using hormonal coil (months): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	85	.6	41.1	41.1
	1	9	.1	4.3	45.4
	2	9	.1	4.3	49.8
	3	7	.0	3.4	53.1
	4	11	.1	5.3	58.5
	5	7	.0	3.4	61.8
	6	42	.3	20.3	82.1
	7	5	.0	2.4	84.5
	8	11	.1	5.3	89.9
	9	8	.1	3.9	93.7
	10	10	.1	4.8	98.6
	11	3	.0	1.4	100.0
	Total	207	1.4	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2765	18.8		
	Total	14463	98.6		
Total		14670	100.0		

fm2ob110a Currently taking Hormone Replacement Therapy tablets: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	135	.9	4.6	4.6
	2 No	2816	19.2	95.4	100.0
	Total	2951	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	21	.1		
	Total	11719	79.9		
Total		14670	100.0		

fm2ob110b Currently taking Hormone Replacement Therapy patches: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	31	.2	1.1	1.1
	2 No	2895	19.7	98.9	100.0
	Total	2926	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	46	.3		
	Total	11744	80.1		
Total		14670	100.0		

fm2ob110c Currently taking Hormone Replacement Therapy creams: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	38	.3	1.3	1.3
	2 No	2865	19.5	98.7	100.0
	Total	2903	19.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	69	.5		
	Total	11767	80.2		
Total		14670	100.0		

fm2ob110d Length of time taking Hormone Replacement (years): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	16	.1	11.4	11.4
	1	25	.2	17.9	29.3
	2	29	.2	20.7	50.0
	3	13	.1	9.3	59.3
	4	7	.0	5.0	64.3
	5	17	.1	12.1	76.4
	6	4	.0	2.9	79.3
	7	9	.1	6.4	85.7
	8	3	.0	2.1	87.9
	9	2	.0	1.4	89.3
	10	5	.0	3.6	92.9
	11	2	.0	1.4	94.3
	12	1	.0	.7	95.0
	14	2	.0	1.4	96.4
	15	1	.0	.7	97.1
	18	2	.0	1.4	98.6
	19	1	.0	.7	99.3
	21	1	.0	.7	100.0
	Total	140	1.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2832	19.3		
	Total	14530	99.0		
Total		14670	100.0		

fm2ob110e Length of time taking Hormone Replacement (months): FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	34	.2	36.2	36.2
	1	7	.0	7.4	43.6
	2	5	.0	5.3	48.9
	3	7	.0	7.4	56.4
	4	7	.0	7.4	63.8
	5	5	.0	5.3	69.1
	6	20	.1	21.3	90.4
	7	1	.0	1.1	91.5
	8	3	.0	3.2	94.7
	9	2	.0	2.1	96.8
	10	2	.0	2.1	98.9
	11	1	.0	1.1	100.0
	Total	94	.6	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2878	19.6		
	Total	14576	99.4		
Total		14670	100.0		

fm2ob120 Had a period/menstrual bleeding in the previous 12 months: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1651	11.3	56.3	56.3
	2 No	1282	8.7	43.7	100.0
	Total	2933	20.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	39	.3		
	Total	11737	80.0		
Total		14670	100.0		

fm2ob121 Reason why periods stopped: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Hysterectomy	196	1.3	15.8	15.8
	2 Chemotherapy or radiation therapy	33	.2	2.7	18.4
	4 Menopause	741	5.1	59.6	78.0
	5 Other	273	1.9	22.0	100.0
	Total	1243	8.5	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	1729	11.8		
	Total	13427	91.5		
Total		14670	100.0		

Date of last period was initially recorded as a complete date, with separate day (fm2ob123), month (fm2ob124) and year (fm2ob124a) variable extracted later. However, some women could only recall year of their last periods (especially if this was a long time ago), hence a separate 'year of last period' variable was also used for this cases (fm2ob125).

fm2ob123 First day of last period: Day: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	142	1.0	9.1	9.1
	2	48	.3	3.1	12.1
	3	50	.3	3.2	15.3
	4	50	.3	3.2	18.5
	5	61	.4	3.9	22.4
	6	52	.4	3.3	25.7
	7	50	.3	3.2	28.9
	8	44	.3	2.8	31.7
	9	56	.4	3.6	35.3
	10	54	.4	3.4	38.7
	11	40	.3	2.6	41.3
	12	44	.3	2.8	44.1
	13	36	.2	2.3	46.4
	14	47	.3	3.0	49.4
	15	112	.8	7.1	56.5
	16	45	.3	2.9	59.4
	17	46	.3	2.9	62.3
	18	45	.3	2.9	65.2
	19	46	.3	2.9	68.2
	20	65	.4	4.1	72.3
	21	41	.3	2.6	74.9
	22	37	.3	2.4	77.3
	23	35	.2	2.2	79.5
	24	49	.3	3.1	82.6
	25	51	.3	3.3	85.9
	26	38	.3	2.4	88.3
	27	42	.3	2.7	91.0
	28	49	.3	3.1	94.1
	29	33	.2	2.1	96.2
	30	34	.2	2.2	98.4
	31	25	.2	1.6	100.0
	Total	1567	10.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	1405	9.6		
	Total	13103	89.3		
Total		14670	100.0		

fm2ob124 First day of last period: Month: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	174	1.2	10.7	10.7
	2	136	.9	8.4	19.1
	3	140	1.0	8.6	27.7
	4	139	.9	8.6	36.3
	5	132	.9	8.1	44.4
	6	79	.5	4.9	49.3
	7	93	.6	5.7	55.0
	8	158	1.1	9.7	64.8
	9	137	.9	8.4	73.2
	10	155	1.1	9.6	82.7
	11	157	1.1	9.7	92.4
	12	123	.8	7.6	100.0
	Total	1623	11.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	1349	9.2		
	Total	13047	88.9		
Total		14670	100.0		

fm2ob124a First day of last period: Year: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1992	1	.0	.1	.1
	2001	1	.0	.1	.1
	2002	2	.0	.1	.2
	2003	1	.0	.1	.3
	2004	1	.0	.1	.4
	2005	3	.0	.2	.5
	2006	2	.0	.1	.7
	2007	4	.0	.2	.9
	2008	10	.1	.6	1.5
	2009	18	.1	1.1	2.6
	2010	27	.2	1.6	4.2
	2011	633	4.3	38.4	42.7
	2012	821	5.6	49.8	92.5
	2013	124	.8	7.5	100.0
	Total	1648	11.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	1324	9.0		
	Total	13022	88.8		
Total		14670	100.0		

fm2ob125 Year of last period: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1990	1	.0	.1	.1
	1991	5	.0	.4	.5
	1992	8	.1	.6	1.1
	1993	11	.1	.8	1.9
	1994	10	.1	.8	2.6
	1995	9	.1	.7	3.3
	1996	16	.1	1.2	4.5
	1997	22	.1	1.7	6.2
	1998	19	.1	1.4	7.6
	1999	20	.1	1.5	9.1
	2000	43	.3	3.2	12.3
	2001	27	.2	2.0	14.4
	2002	74	.5	5.6	20.0
	2003	44	.3	3.3	23.3
	2004	51	.3	3.8	27.1
	2005	80	.5	6.0	33.1
	2006	120	.8	9.0	42.2
	2007	109	.7	8.2	50.4
	2008	119	.8	9.0	59.3
	2009	150	1.0	11.3	70.6
	2010	200	1.4	15.1	85.7
	2011	160	1.1	12.0	97.7
	2012	26	.2	2.0	99.7
	2013	4	.0	.3	100.0
	Total	1328	9.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	1644	11.2		
	Total	13342	90.9		
Total		14670	100.0		

fm2ob126 Period/menstrual bleeding in last 3 months: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1379	9.4	64.4	64.4
	2 No	762	5.2	35.6	100.0
	Total	2141	14.6	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	831	5.7		
	Total	12529	85.4		
Total		14670	100.0		

fm2ob130 Periods are regular: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes occur every 28-30 days	618	4.2	29.8	29.8
	2 Yes occur less than every 28 days	194	1.3	9.3	39.1
	3 Yes occur more than every 30 days	68	.5	3.3	42.4
	4 No	1196	8.2	57.6	100.0
	Total	2076	14.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	896	6.1		
	Total	12594	85.8		
Total		14670	100.0		

fm2ob131 Periods changed in last 12 months: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	1213	8.3	59.7	59.7
	2 Yes stayed regular but occur more frequently (shorter in between)	132	.9	6.5	66.2
	3 Yes stayed regular but occur less frequently (longer in between)	91	.6	4.5	70.7
	4 Yes have become irregular	595	4.1	29.3	100.0
	Total	2031	13.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	941	6.4		
	Total	12639	86.2		
Total		14670	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.

fm2bp001 Fieldworker: Blood pressure session: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	4	.0	.1	.1
	2	49	.3	1.7	1.8
	3	37	.3	1.3	3.0
	4	459	3.1	15.5	18.6
	6	547	3.7	18.5	37.0
	7	41	.3	1.4	38.4
	8	41	.3	1.4	39.8
	9	378	2.6	12.8	52.6
	10	463	3.2	15.6	68.2
	11	32	.2	1.1	69.3
	12	27	.2	.9	70.2
	13	326	2.2	11.0	81.2
	14	31	.2	1.0	82.3
	15	99	.7	3.3	85.6
	16	98	.7	3.3	88.9
	17	126	.9	4.3	93.2
	18	57	.4	1.9	95.1
	19	89	.6	3.0	98.1
	20	49	.3	1.7	99.8
	21	3	.0	.1	99.9
	22	3	.0	.1	100.0
	Total	2959	20.2	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	13	.1		
	Total	11711	79.8		
Total		14670	100.0		

fm2bp002 Consent to have BP measured: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2972	20.3	100.0	100.0
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

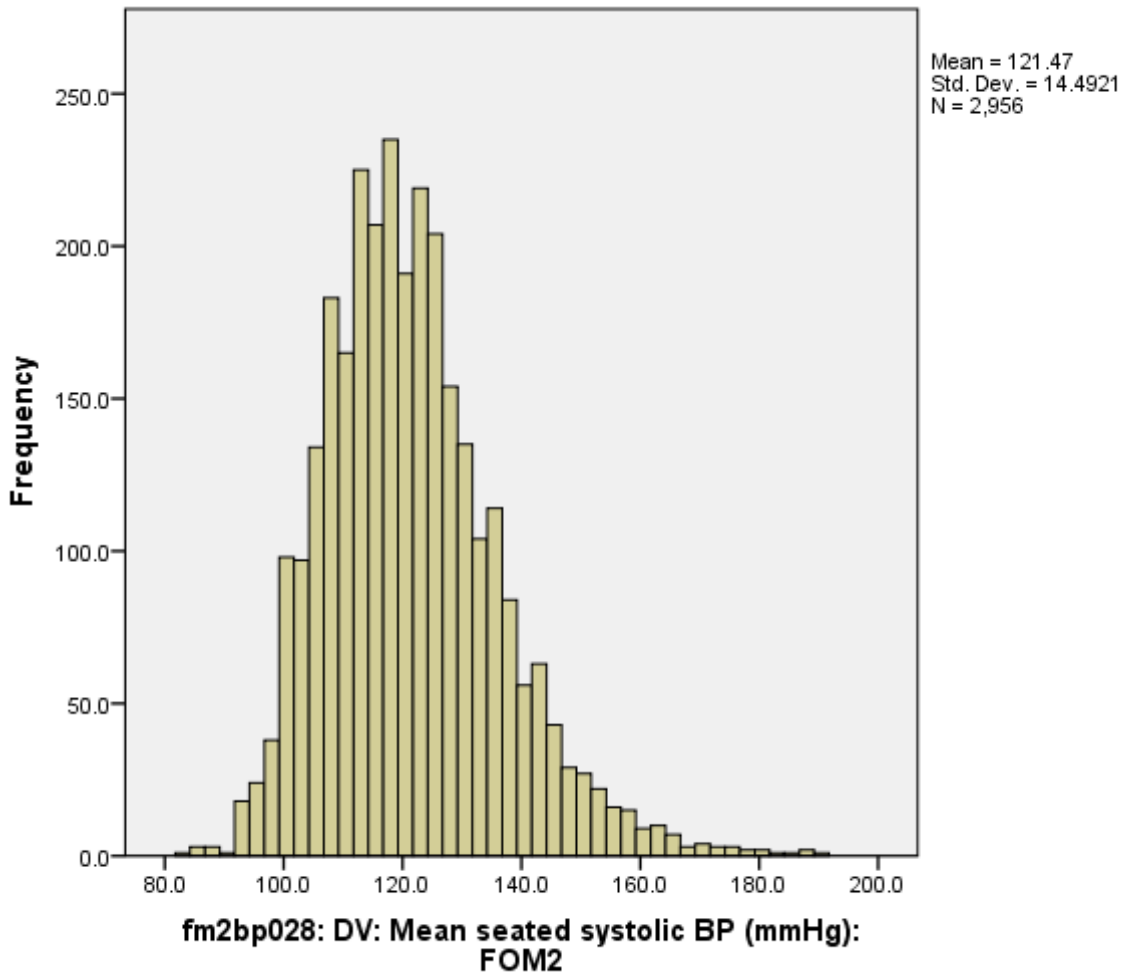
fm2bp003 Consent to be informed if BP is high: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2964	20.2	99.7	99.7
	2 No	8	.1	.3	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

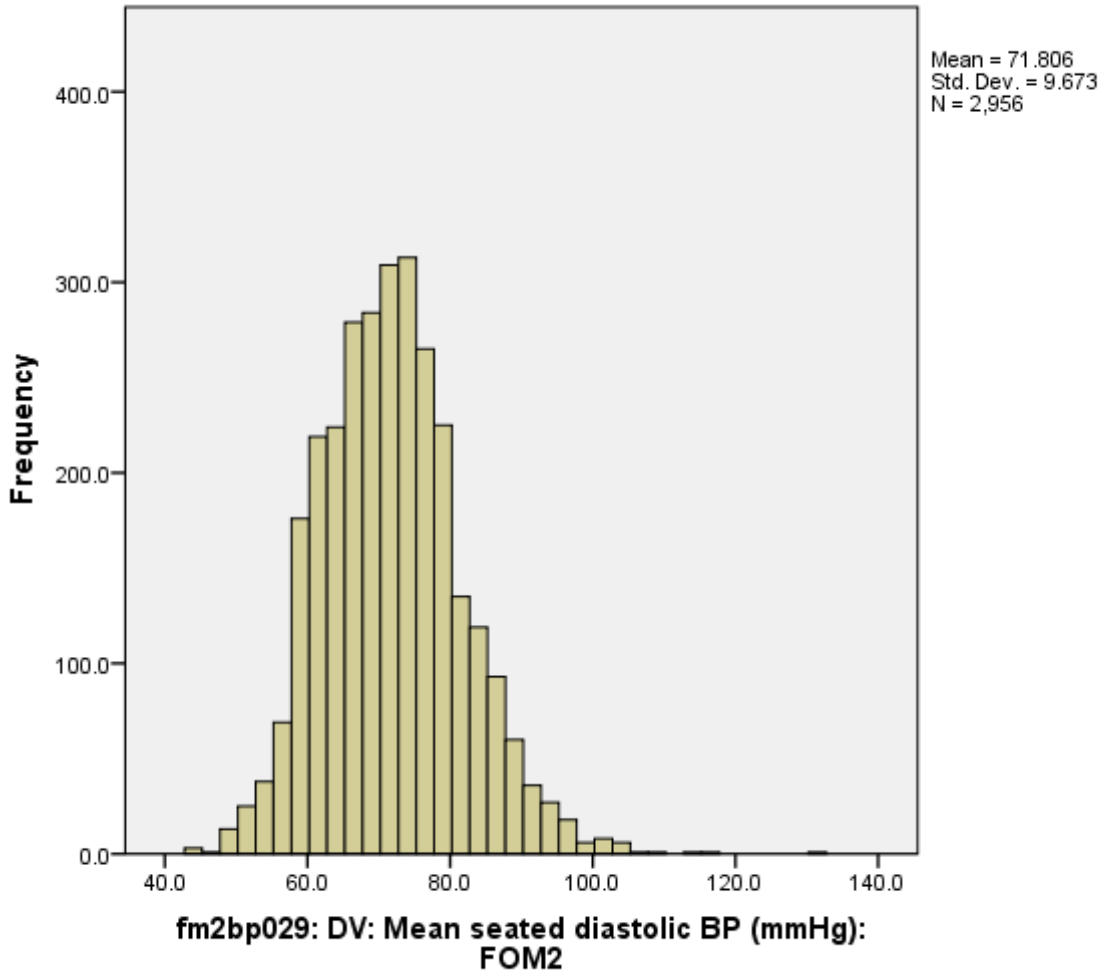
fm2bp010 Arm used for blood pressure: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Right	403	2.7	13.7	13.7
	2 Left	2545	17.3	86.3	100.0
	Total	2948	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	24	.2		
	Total	11722	79.9		
Total		14670	100.0		

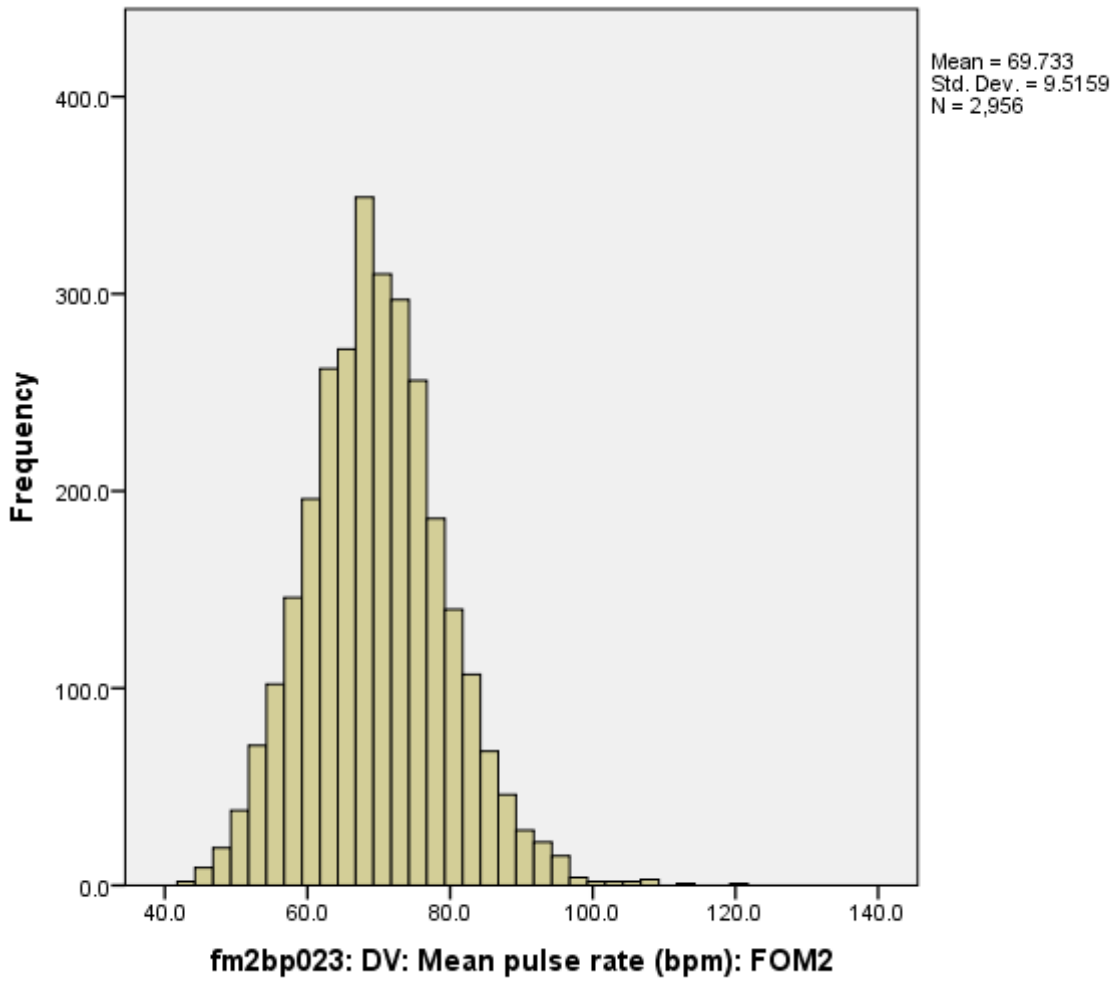
The two measures for seated systolic blood pressure are variables fm2bp020 and fm2bp025. Only the derived variable (fm2bp028) is displayed here: this was calculated as the mean of these two measures: (fm2bp020 + fm2bp025)/2. [If only one measure was taken, that one was used].



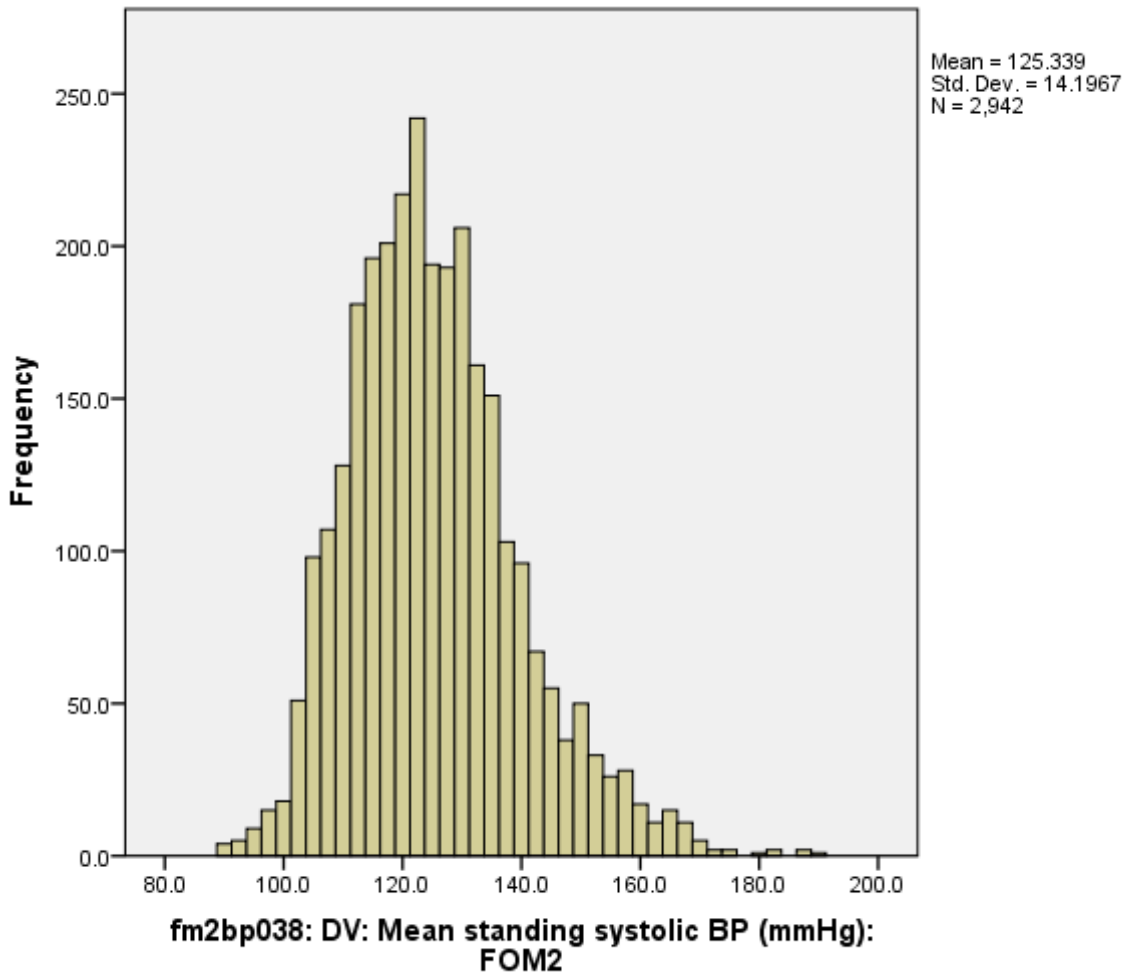
The two measures for seated diastolic blood pressure are variables fm2bp021 and fm2bp026. Only the derived variable (fm2bp029) is displayed here: this was calculated as the mean of these two measures: (fm2bp021 + fm2bp026)/2. [If only one measure was taken, that one was used].



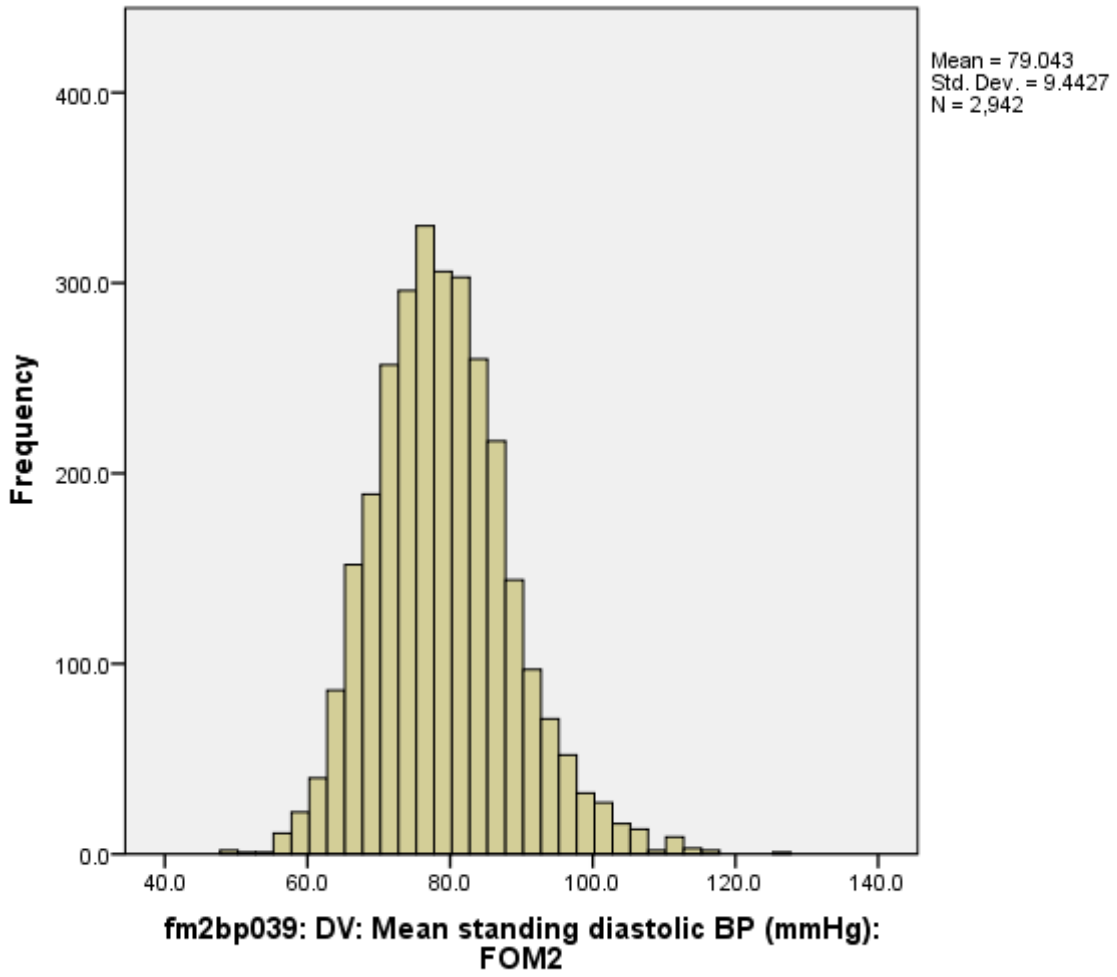
The two measures for pulse rate (beats per minute) are variables fm2bp022 and fm2bp027. Only the derived variable (fm2bp023) is displayed here: this was calculated as the mean of these two measures: (fm2bp022 + fm2bp027)/2. [If only one measure was taken, that one was used].



The two measures for standing systolic blood pressure are variables fm2bp030 and fm2bp035. Only the derived variable (fm2bp038) is displayed here: this was calculated as the mean of these two measures: (fm2bp030 + fm2bp035)/2. [If only one measure was taken, that one was used].



The two measures for seated diastolic blood pressure are variables fm2bp031 and fm2bp036. Only the derived variable (fm2bp039) is displayed here: this was calculated as the mean of these two measures: (fm2bp031 + fm2bp036)/2. [If only one measure was taken, that one was used].



2.8 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.

fm2pt001 Had physical tests: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2915	19.9	99.5	99.5
	2 No	15	.1	.5	100.0
	Total	2930	20.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	42	.3		
	Total	11740	80.0		
Total		14670	100.0		

fm2pt002 Consent to have physical tests: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2968	20.2	99.9	99.9
	2 No	4	.0	.1	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

2.8.1 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 fm2pt012 (1st measure) and fm2pt014 (2nd measure), while left hand values are variables fm2pt013 (1st measure) and fm2pt015 (2nd measure). Hand dominance was also noted.

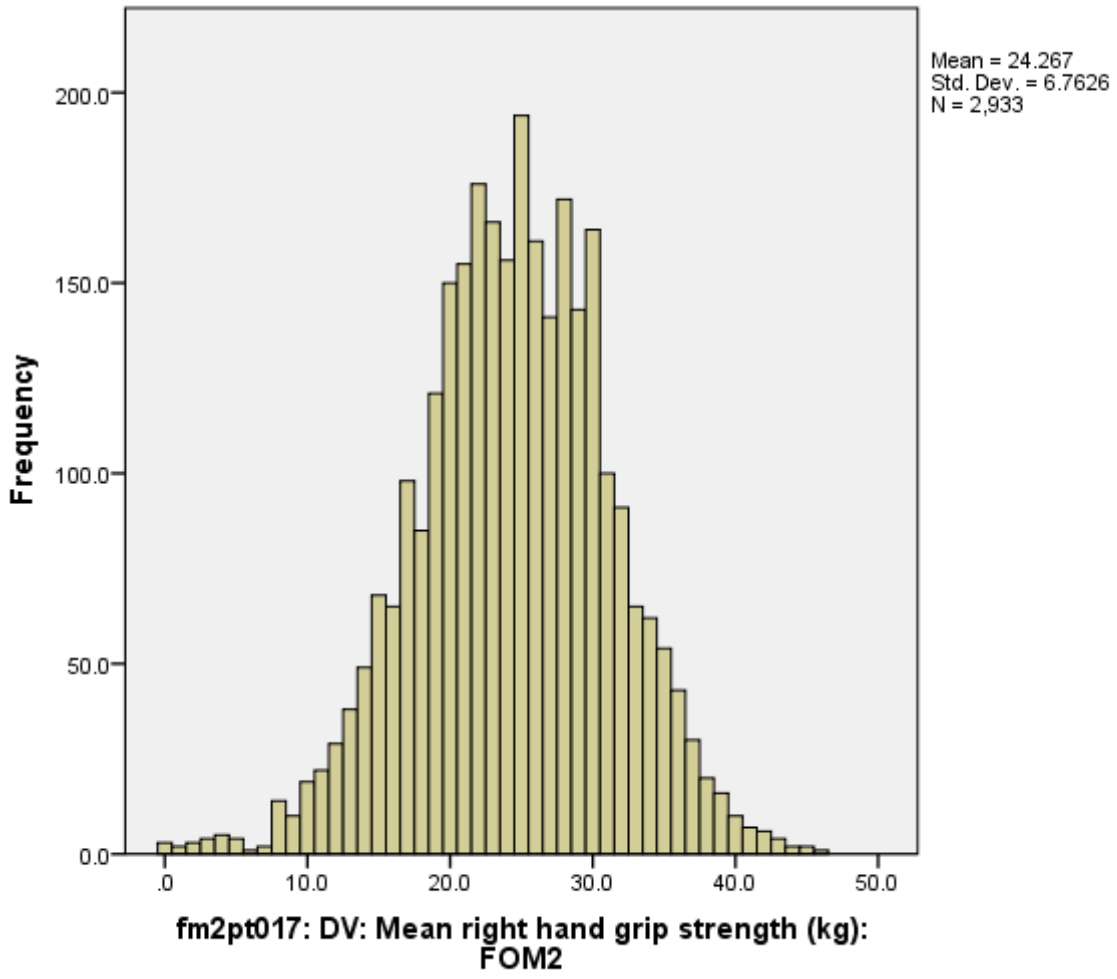
fm2pt010 Able to perform hand grip test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2866	19.5	99.3	99.3
	2 No	21	.1	.7	100.0
	Total	2887	19.7	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	85	.6		
	Total	11783	80.3		
Total		14670	100.0		

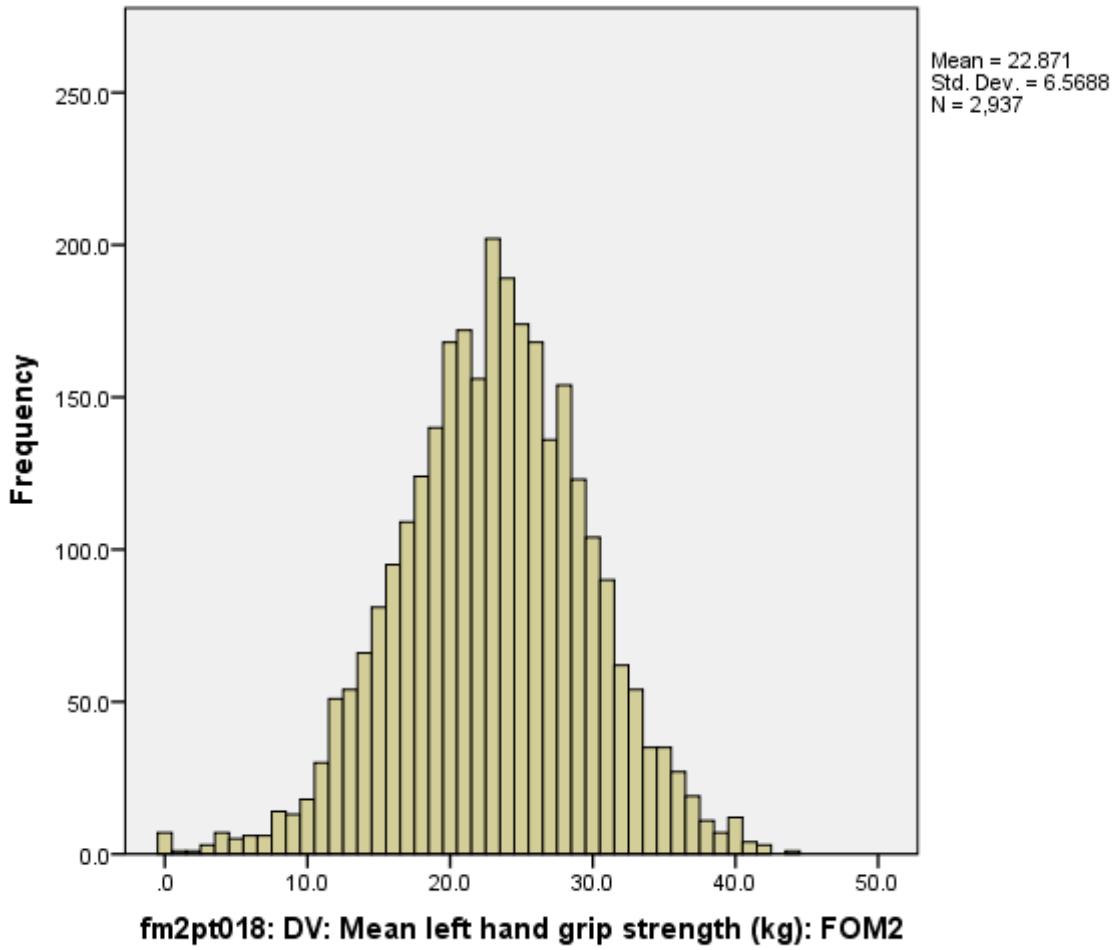
fm2pt016 Hand mostly write with: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Left	266	1.8	9.0	9.0
	2 Right	2657	18.1	90.1	99.2
	3 Ambidextrous	25	.2	.8	100.0
	Total	2948	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	24	.2		
	Total	11722	79.9		
Total		14670	100.0		

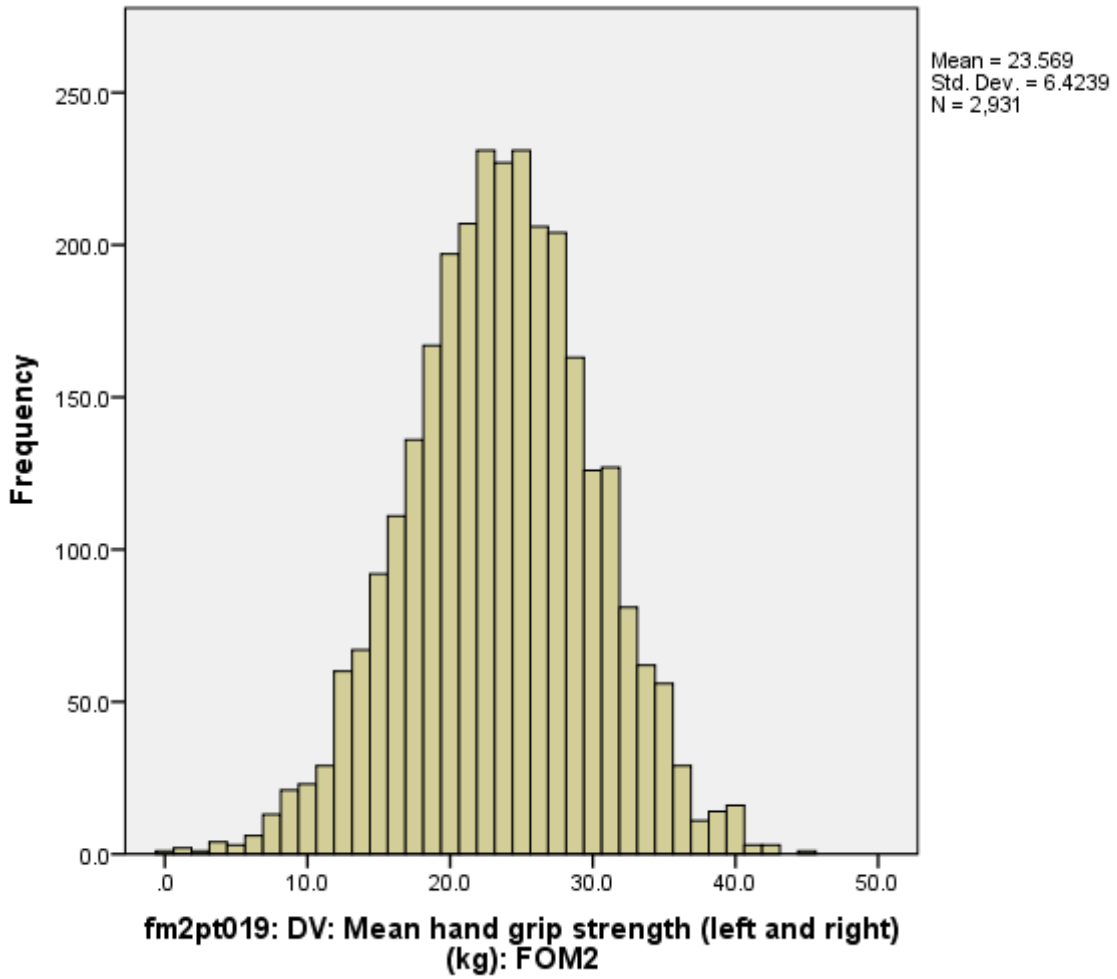
Derived variable (fm2pt017) – Mean of right hand grip measurements: (fm2pt012+fm2pt014)/2. [If only one measure was taken, that one was used].



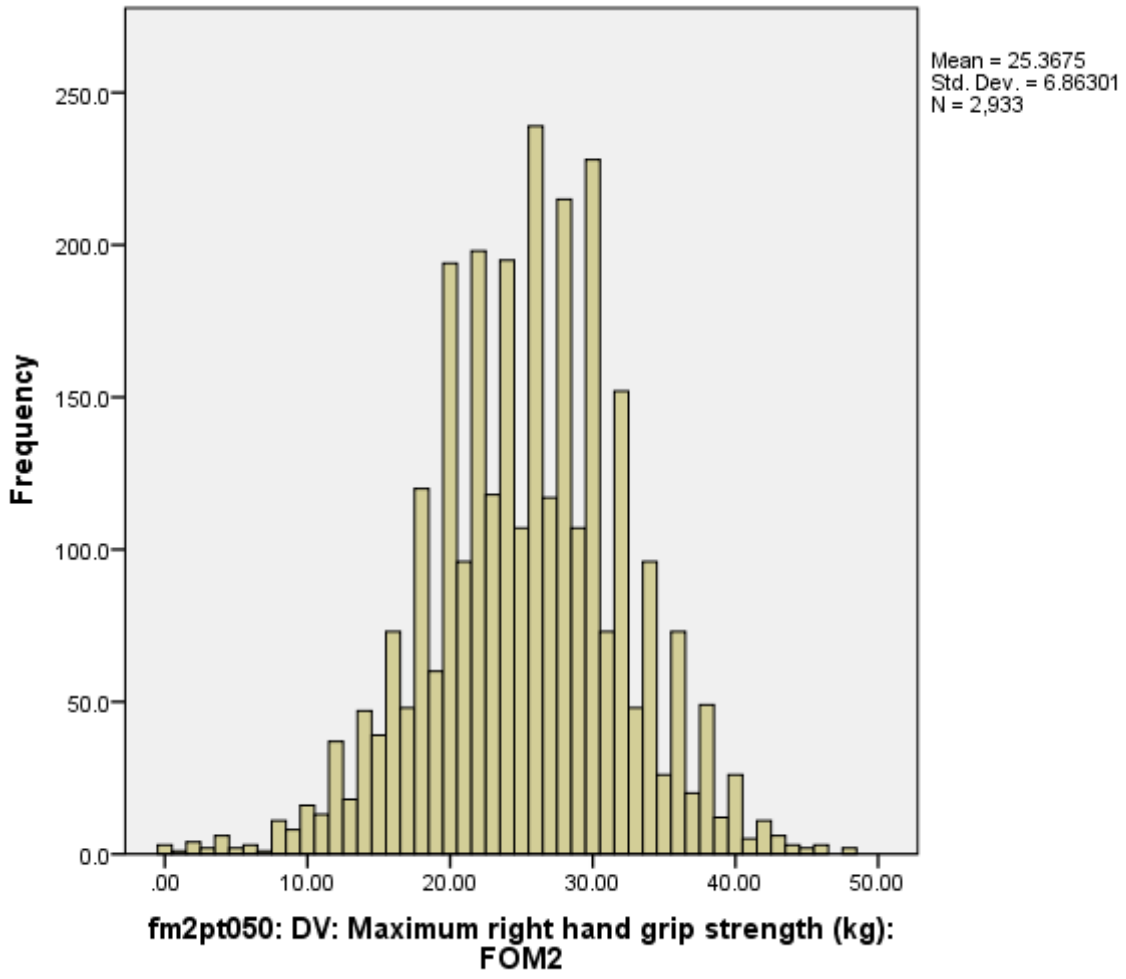
Derived variable (fm2pt018) – Mean of left hand grip measurements: (fm2pt013+fm2pt015)/2. [If only one measure was taken, that one was used].



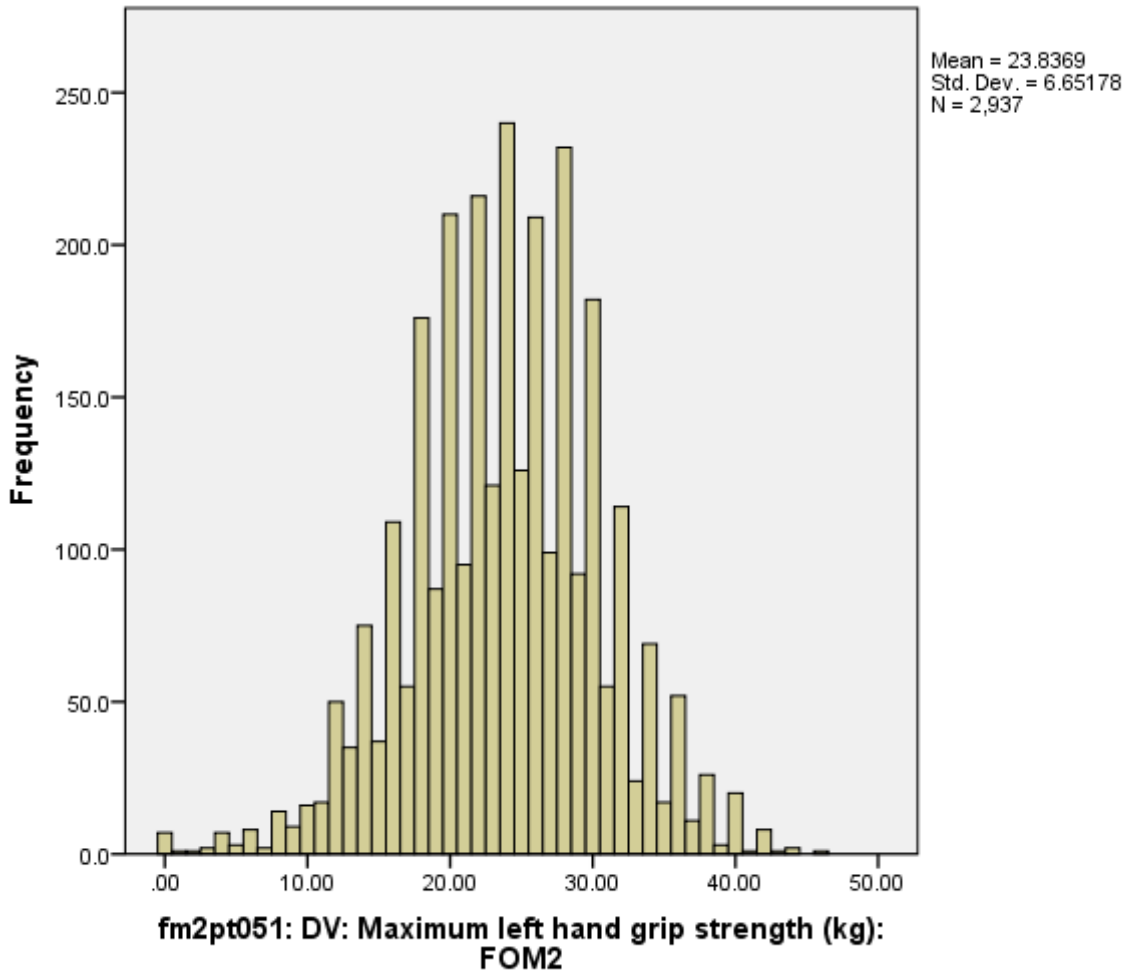
Derived variable (fm2pt019) – Mean of all hand grip measurements (both hands): (fm2pt017+fm2pt018)/2. [If only one measure was taken, that one was used].



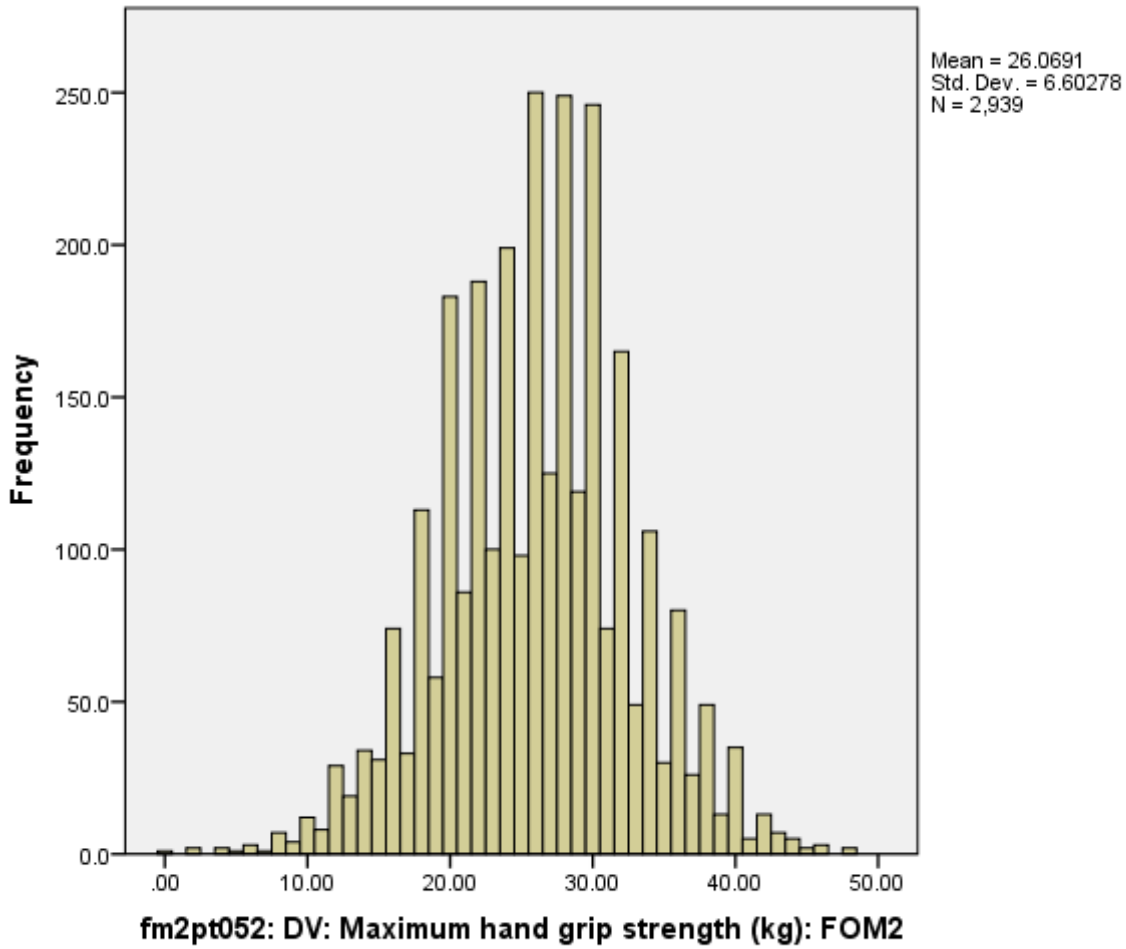
Derived variable (fm2pt050) – Maximum right hand grip measurement: highest value of fm2pt012 and fm2pt014). [If only one measure was taken, that one was used].



Derived variable (fm2pt051) – Maximum left hand grip measurement: highest value of fm2pt013 and fm2pt015). [If only one measure was taken, that one was used].



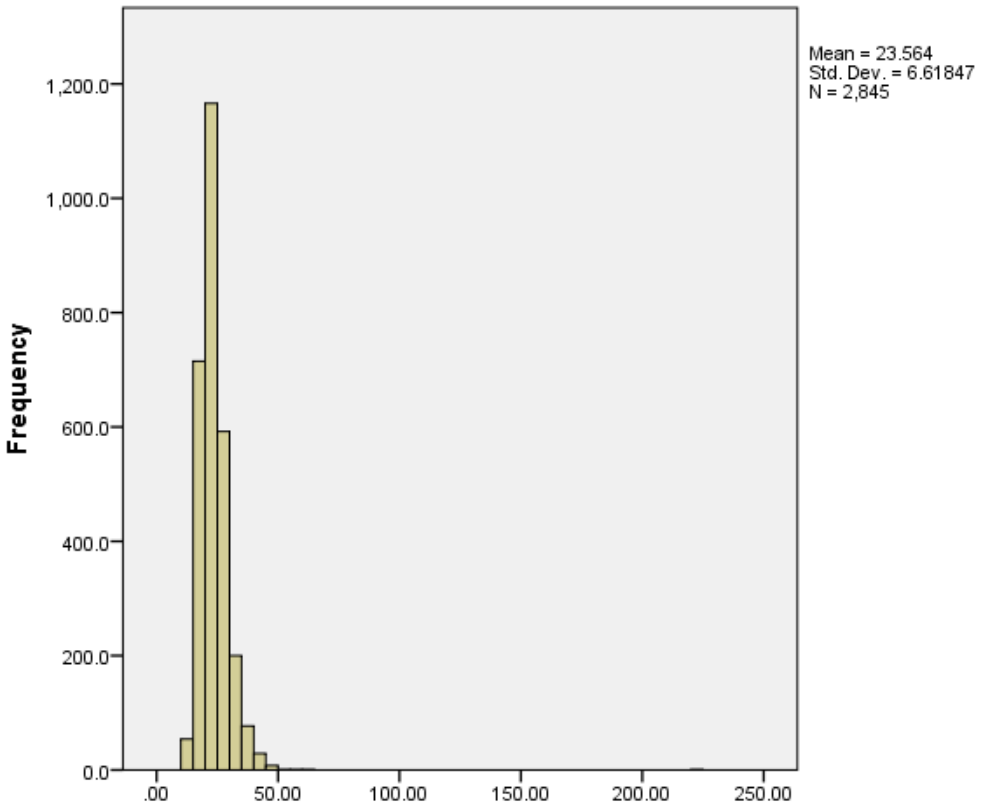
Derived variable (fm2pt052) – Maximum hand grip measurement (both hands): highest value of fm2pt050 and fm2pt051). [If only one measure was taken, that one was used].



2.8.2 Chair Rises

fm2pt022 Able to perform chair rise test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2820	19.2	97.1	97.1
	2 No	84	.6	2.9	100.0
	Total	2904	19.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	68	.5		
	Total	11766	80.2		
Total		14670	100.0		



fm2pt023: Chair rise test times (seconds): FOM2

fm2pt024 Reason not able to perform chair rise test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Balance	5	.0	5.3	5.3
	2 Walking aid	7	.0	7.4	12.8
	3 Other	82	.6	87.2	100.0
	Total	94	.6	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2878	19.6		
	Total	14576	99.4		
Total		14670	100.0		

fm2pt025 Chair rise test completed: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2784	19.0	96.7	96.7
	2 No	96	.7	3.3	100.0
	Total	2880	19.6	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	92	.6		
	Total	11790	80.4		
Total		14670	100.0		

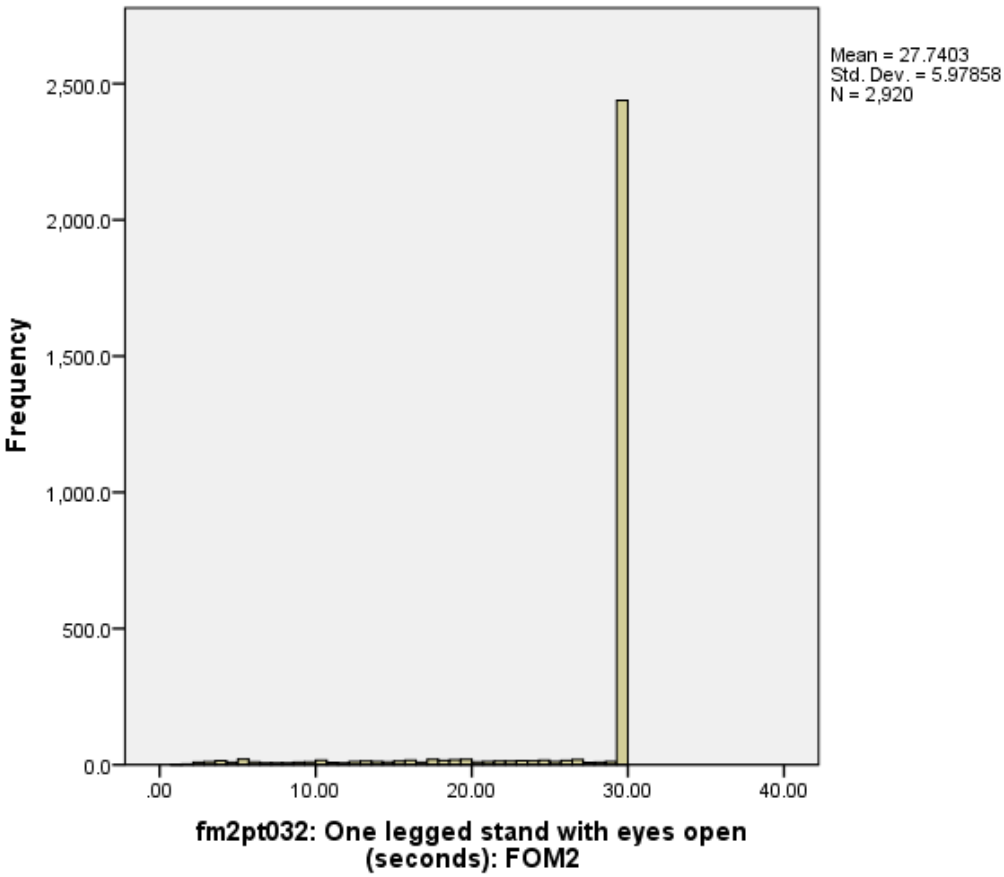
2.8.3. One Legged Stands

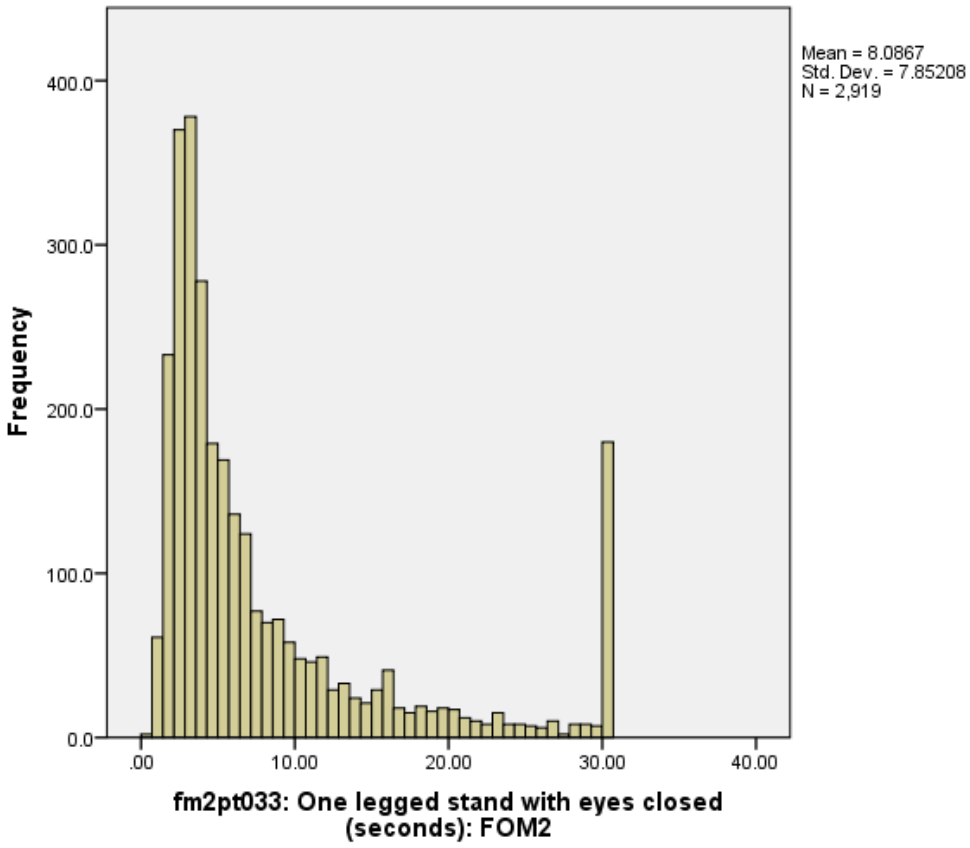
fm2pt030 Able to perform one legged stand test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2881	19.6	98.5	98.5
	2 No	44	.3	1.5	100.0
	Total	2925	19.9	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	47	.3		
	Total	11745	80.1		
Total		14670	100.0		

fm2pt031 Reason not able to perform one legged stand test: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Balance	2	.0	5.1	5.1
	2 Walking aid	4	.0	10.3	15.4
	3 Other	33	.2	84.6	100.0
	Total	39	.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2933	20.0		
	Total	14631	99.7		
Total		14670	100.0		


Mean = 27.7403
Std. Dev. = 5.97858
N = 2,920
Frequency
2,500.0
2,000.0
1,500.0
1,000.0
500.0
0.0
.00
10.00
20.00
30.00
40.00
fm2pt032: One legged stand with eyes open (seconds): FOM2


Mean = 8.0867
Std. Dev. = 7.85208
N = 2,919
Frequency
400.0
300.0
200.0
100.0
0.0
.00
10.00
20.00
30.00
40.00
fm2pt033: One legged stand with eyes closed (seconds): FOM2

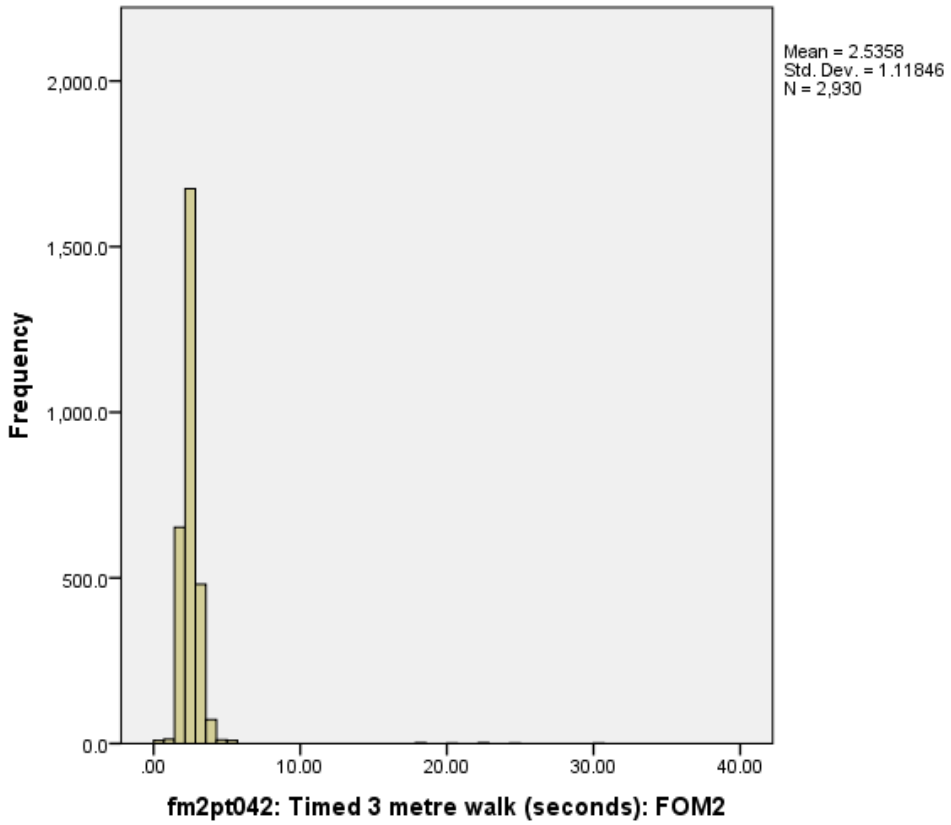
2.8.4. Timed 3 Metre Walk

fm2pt040 Able to perform 3 metre walk unaided: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2925	19.9	99.0	99.0
	2 No	29	.2	1.0	100.0
	Total	2954	20.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	18	.1		
	Total	11716	79.9		
Total		14670	100.0		

fm2pt041 Reason not able to perform 3 metre timed walk: FOM2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stick	6	.0	28.6	28.6
	2 Frame	1	.0	4.8	33.3
	3 Person	1	.0	4.8	38.1
	4 Other	13	.1	61.9	100.0
	Total	21	.1	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	2951	20.1		
	Total	14649	99.9		
Total		14670	100.0		



fm2pt042: Timed 3 metre walk (seconds): FOM2

2.9 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.

fm2cg017 Had Cognitive function tests: FOM2

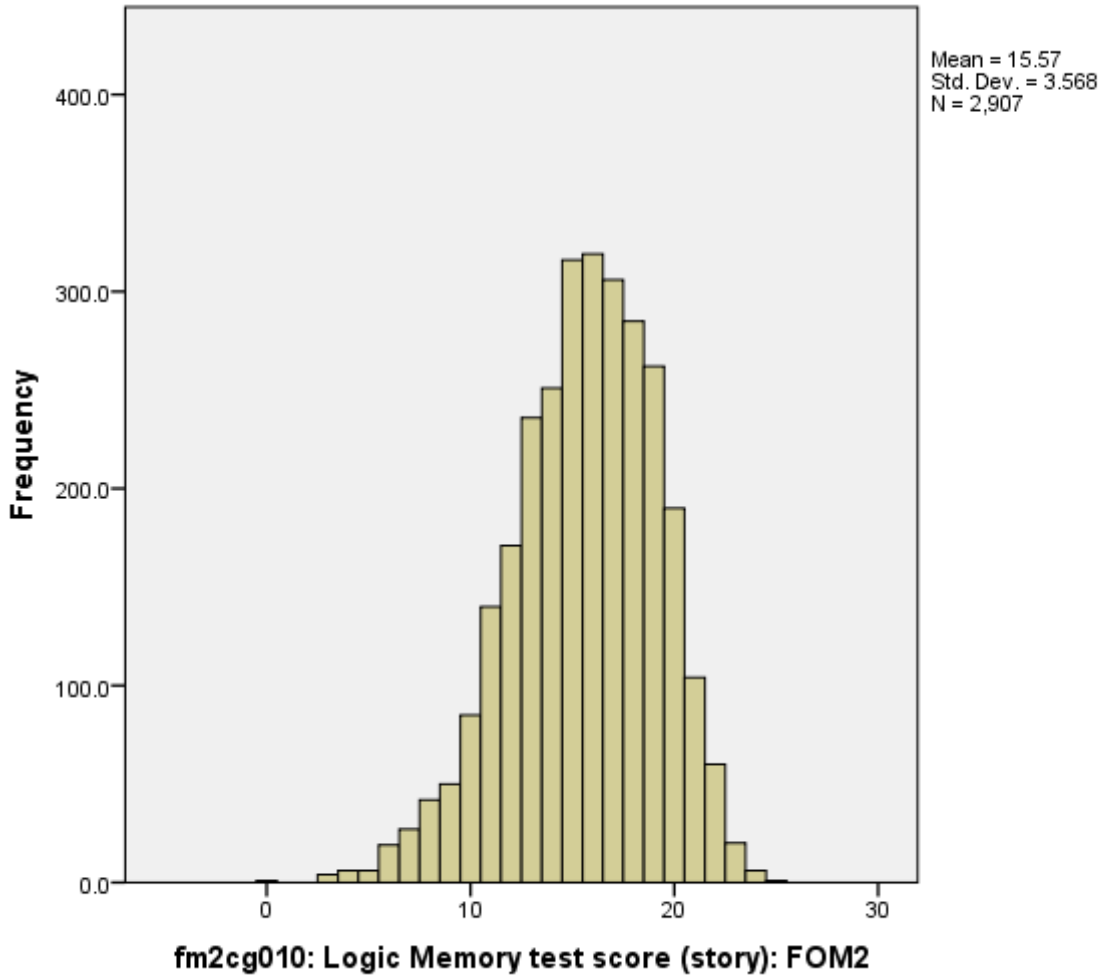
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2856	19.5	98.3	98.3
	2 No	48	.3	1.7	100.0
	Total	2904	19.8	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	68	.5		
	Total	11766	80.2		
Total		14670	100.0		

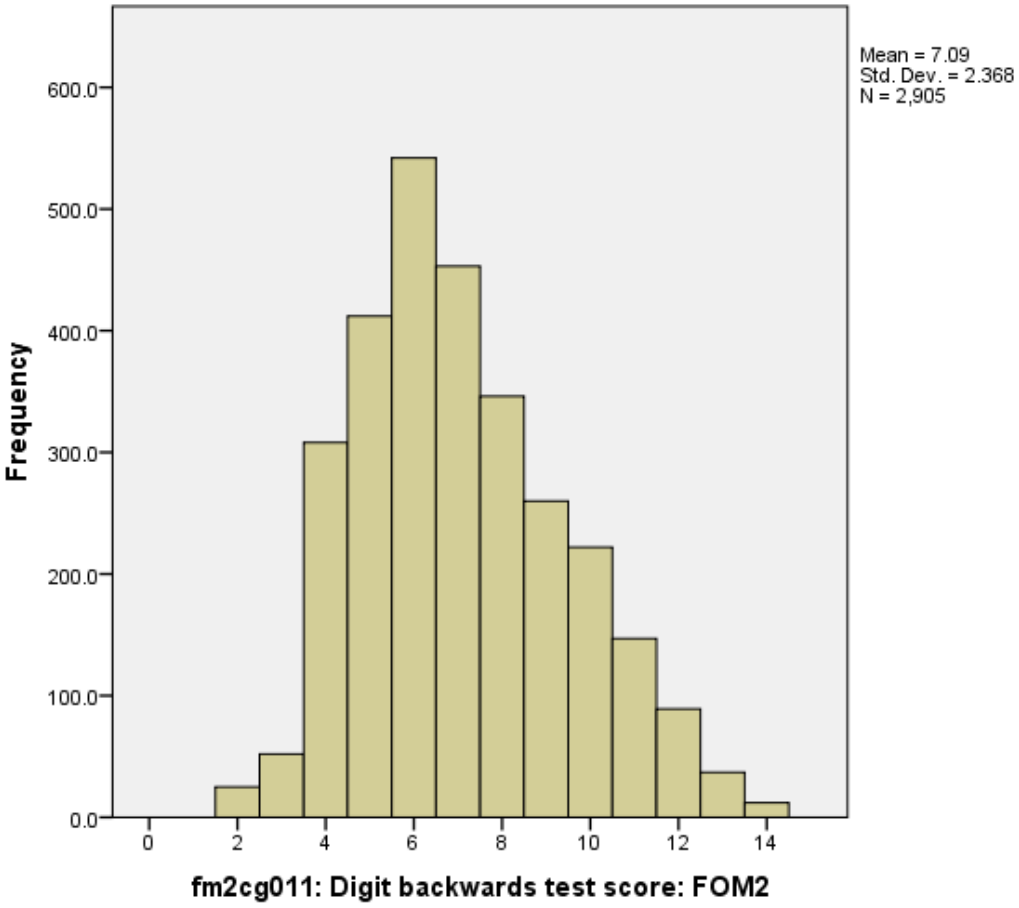
fm2cg001 Fieldworker: Cognitive session: FOM2

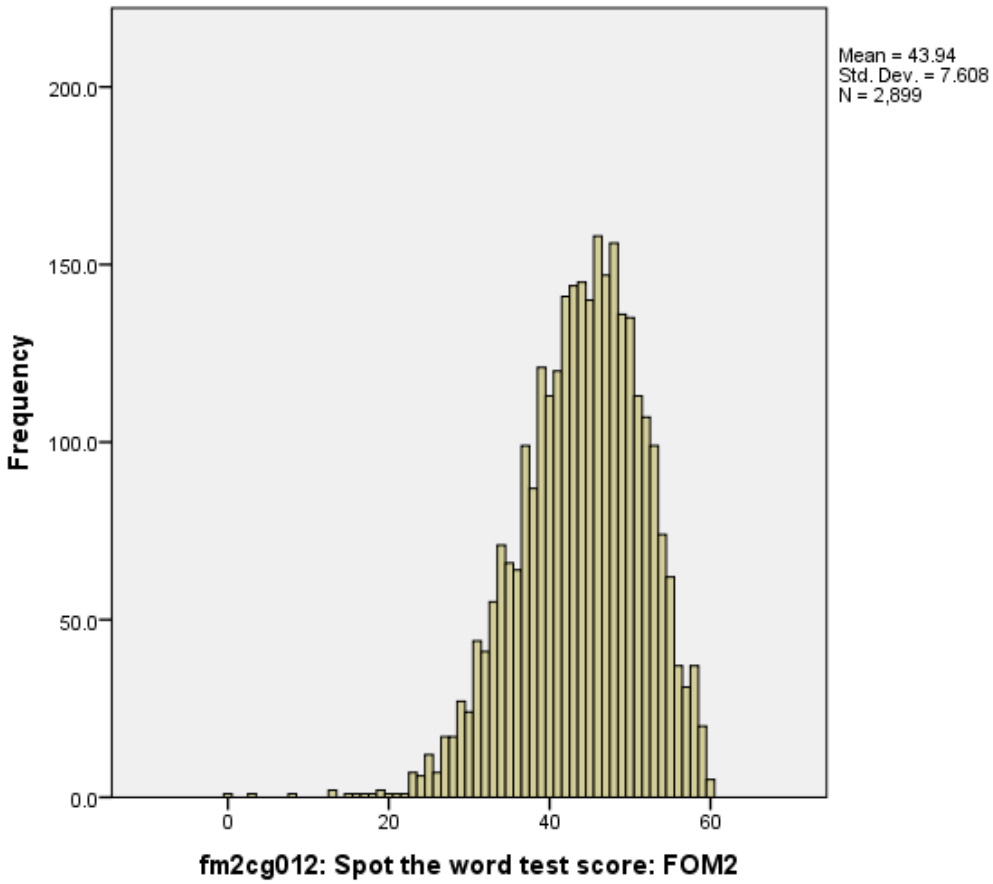
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	2	.0	.1	.1
	2	46	.3	1.6	1.6
	3	39	.3	1.3	3.0
	4	455	3.1	15.5	18.5
	6	556	3.8	19.0	37.4
	7	40	.3	1.4	38.8
	8	36	.2	1.2	40.0
	9	381	2.6	13.0	53.0
	10	454	3.1	15.5	68.5
	11	25	.2	.9	69.3
	12	26	.2	.9	70.2
	13	331	2.3	11.3	81.5
	14	33	.2	1.1	82.6
	15	97	.7	3.3	86.0
	16	103	.7	3.5	89.5
	17	120	.8	4.1	93.6
	18	60	.4	2.0	95.6
	19	75	.5	2.6	98.2
	20	48	.3	1.6	99.8
	21	3	.0	.1	99.9
	22	3	.0	.1	100.0
	Total	2933	20.0	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	-1 Missing	39	.3		
	Total	11737	80.0		
Total		14670	100.0		

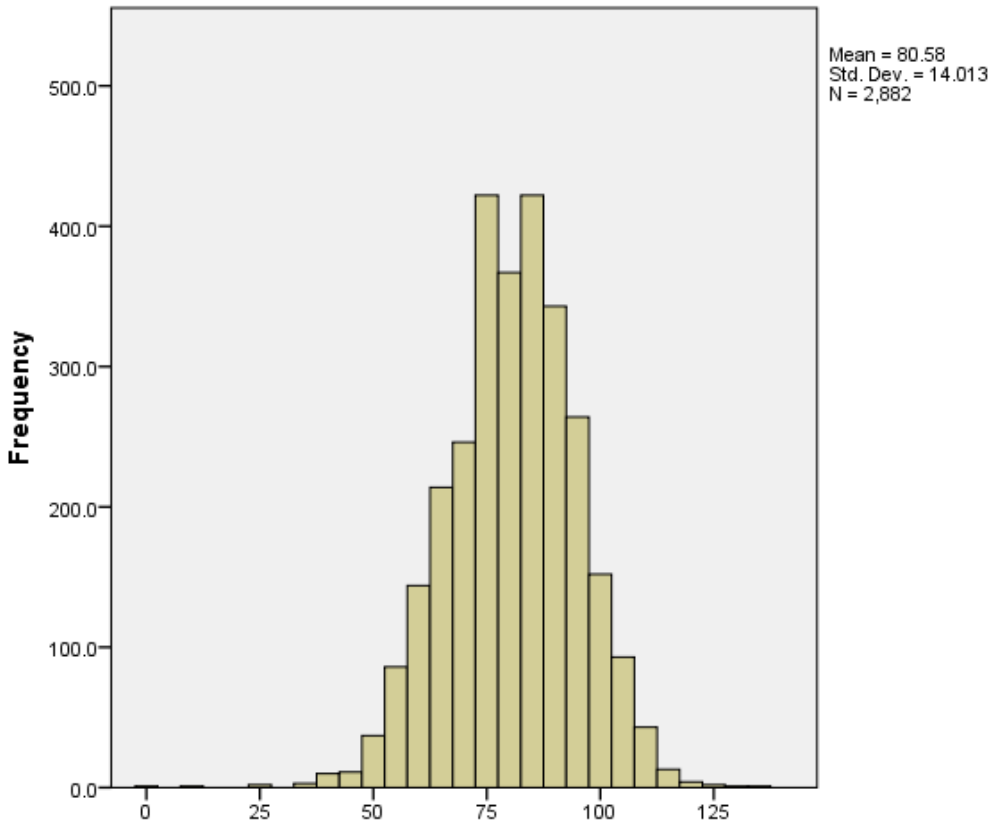
fm2cg002 Consent to Cognitive tests: FOM2

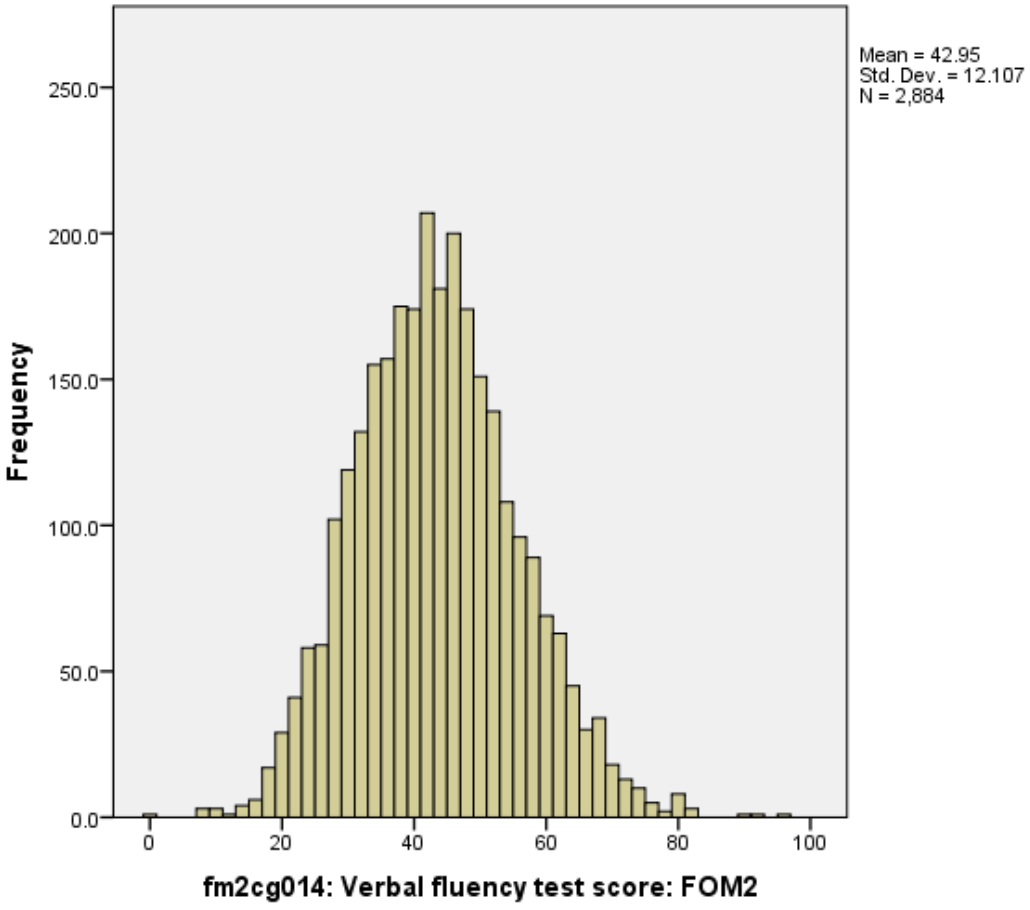
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2952	20.1	99.3	99.3
	2 No	20	.1	.7	100.0
	Total	2972	20.3	100.0	
Missing	-11 Mother of trip/quad	1	.0		
	-10 Did not attend clinic	11697	79.7		
	Total	11698	79.7		
Total		14670	100.0		

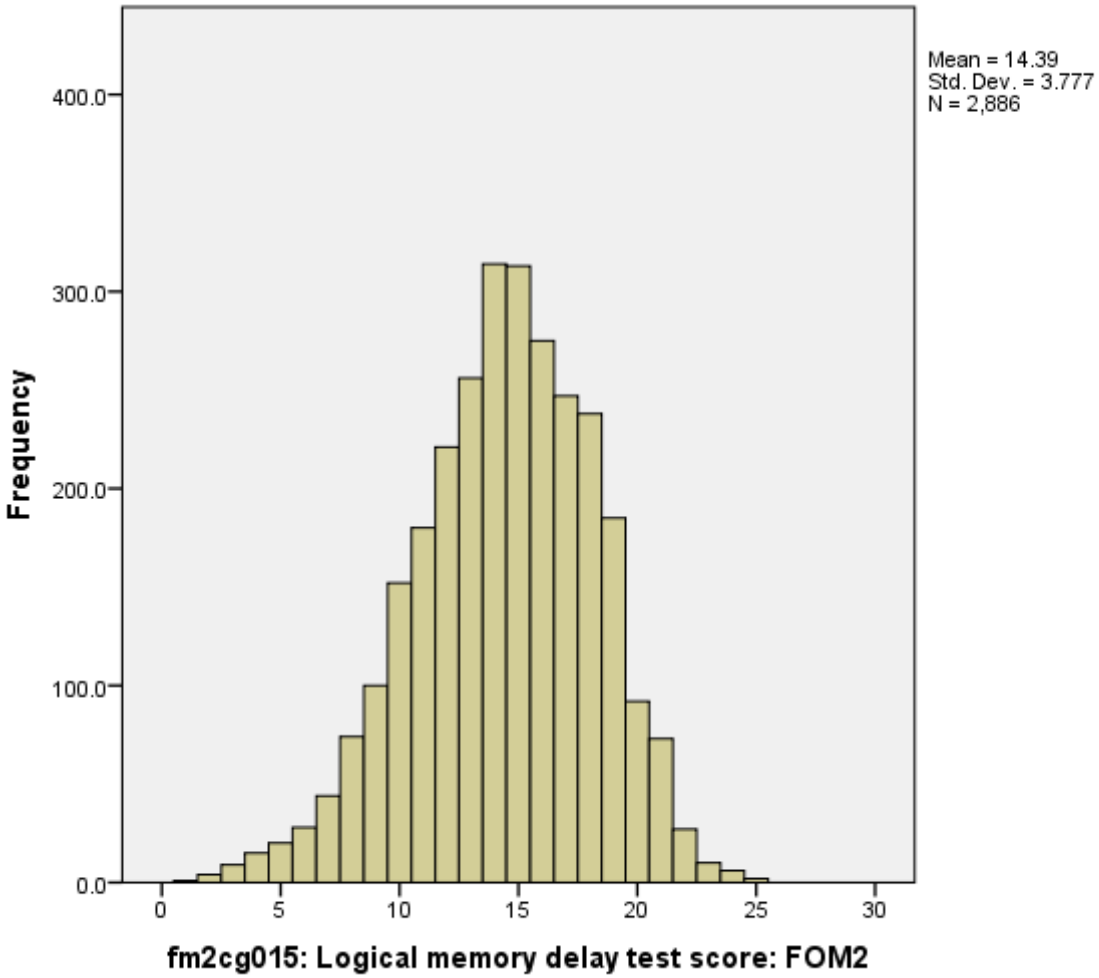



Mean = 7.09
Std. Dev. = 2.368
N = 2,905
Frequency
600.0
500.0
400.0
300.0
200.0
100.0
0.0
0
2
4
6
8
10
12
14
fm2cg011: Digit backwards test score: FOM2


Mean = 43.94
Std. Dev. = 7.608
N = 2,899
Frequency
200.0
150.0
100.0
50.0
0.0
0
20
40
60
fm2cg012: Spot the word test score: FOM2


Mean = 80.58
Std. Dev. = 14.013
N = 2,882
Frequency
500.0
400.0
300.0
200.0
100.0
0.0
0
25
50
75
100
125
fm2cg013: Digit Symbol coding test score: FOM2


Mean = 42.95
Std. Dev. = 12.107
N = 2,884
Frequency
250.0
200.0
150.0
100.0
50.0
0.0
0
20
40
60
80
100
fm2cg014: Verbal fluency test score: FOM2


Mean = 14.39
Std. Dev. = 3.777
N = 2,886
Frequency
400.0
300.0
200.0
100.0
0.0
0
5
10
15
20
25
30
fm2cg015: Logical memory delay test score: FOM2

3. References

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Wechsler, D. (1998). *Wechsler Memory Scale - Third Edition (UK): Administration and scoring manual*. London: The Psychological Corporation.

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4. Appendices

4.1 Consent forms

FoM2 DNA and Cell line consent FoM2BC v1 01.04.11

Focus on Mothers 2

Oakfield House, Oakfield Grove
Clifton, Bristol BS8 2BN

Tel: 0117 331 0012

E-mail: focus-admin@bristol.ac.uk

Visit Number

Permission to use blood sample for cell lines

After processing the name will be taken off the blood samples. The cell lines and DNA samples will be stored with no names attached to them. Results will be used for statistical purposes only and not linked to named people.

CONSENT

The purposes and possible risks in having blood taken have been explained to me. I understand that donated blood will be considered a gift but I will have the right to withdraw permission for analysis.

I understand that the main stocks of DNA and/or cell lines will be stored in Bristol, but that the DNA/cell lines (with an anonymous number only), or information about the sequence of my DNA, may be sent to specialist research laboratories in the UK and abroad for analyses, and the results returned to Children of the 90s. Researchers at these laboratories have no access to personal information about study participants.

I agree that information about my genes can be analysed together with information about my health, disease and life style factors in order to undertake research into biological or genetic factors affecting the risk of developing a range of common medical conditions. I understand that any such analyses will only be undertaken on data from which all personal information has been removed and replaced with an anonymous code.

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

A sample for cell lines ('immortalised' DNA)	1 ☐
OR	
A sample for DNA only	2 ☐

Signature ☐ **Date signed** ☐☐ / ☐☐ / 20☐☐

Initial ☐ **Last Name** ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

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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.

FoM2 Combined Consent FoM2CC v1b

Focus on Mothers 2

Visit Number

Oakfield House, Oakfield Grove
Clifton, Bristol BS8 2BN
Tel: 0117 331 0012
E-mail: focus-admin@bristol.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.

		1. Consent to test		2. Consent to inform	
		Cross box	Initial	Cross box	Initial
(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	☐			
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:				
(g)	Haemoglobin (test for anaemia)*	☐		☐	
(h)	Glucose (sugar)*	☐		☐	
(i)	Lipids (forms of cholesterol)*	☐		☐	
(j)	Storage for future research	☐			
(k)	Hormones related to reproduction and menopause	☐			

Signature _____ **Date signed** ___ / ___ / 20___

Initial ___ **Last Name** _____

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.

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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 2

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
N.B. Please include prescribed tablets, inhalers, sprays, injections.

	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)	
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 ☐

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

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