

**THE ALSPAC STUDY**

# **Focus on Fathers 1**

**Prepared by:**

**The ALSPAC Study Team**

Documentation giving frequencies, background and instructions for use.

**Version 3a: October 2019 (Partial Update)**

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# **1. Introduction**

## **1.1 Background**

The main purpose of this study is to collect more detailed phenotypic data on the fathers of ALSPAC participants. This will allow examination of the association of risk factors across generations between mothers, fathers and their offspring and examine biological and social transmission of risk.

The study was funded by the ALSPAC strategic award with the Wellcome Trust and the MRC, the Principal Investigator was Professor George Davey Smith. Professor Yoav Ben Shlomo had oversight of the methods and data collection.

The first “Focus on Fathers” (FOF1) hands on data collection started in September 2011. Each visit was expected to last under two hours. All visits were completed by February 2013.

A Questionnaire was also completed during this clinic – The data from this questionnaire is held in the ‘FA’ file. The relationship between father and the Young Person/Study Child is held in the FA file (variable fa9980), not the current FOF1 clinic file.

## **1.2 Sample & response rates**

A total of 2,001 men attended the FOF1 clinic; however there are a total of 2,034 cases on the release file (see section 1.7 for an important note on this). Invitations to FOF1 were sent out to a total of 3,663 study fathers (55% response).

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

## **1.3 Data Collection**

Data were entered directly into a computerised system at the time of collection. On rare occasions the computerised system was not working and paper based data collection was brought in and later entered into the computer system.

## **1.4 Format of the clinic**

Trained field workers conducted all assessments at the clinic. On the whole one field worker looked after each participant, meaning that the same individual greeted the participant, explained the assessments, obtained informed consent and then conducted each of the assessments. The field worker moved around the different rooms of the clinic (e.g. DXA scan room, carotid artery scan room) with the participant.

Clinic staff used a separate sheet of paper to collect data on “Permission to use blood sample for cell lines”, and “Permission to complete and use clinic data”. The information collected on these sheets is not part of this file.

Medication and allergy questions were also collected on a separate sheet called “FoF1 Medication and Allergy Questionnaire v1”; this data was entered by the Fieldworker separately at the end of Station 1.

The table below summarises the procedures that were conducted on each participant. All men went through the clinic in the same order – as the sessions are presented in the table:

<b>Session (Procedures)</b>	<b>Estimated completion time</b>
Reception (welcome, registration, completion of meal vouchers)	10 minutes
Consent & fasting blood sample	20 minutes
Food (breakfast/lunch in café)	20 minutes
Anthropometrics and DXA scan	20 minutes
Blood pressure and pulse rate	20 minutes
Carotid Intima-Media Thickness	30 minutes
Face shape	20 minutes

## **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. For each session administrative variables appear first, followed by the actual data collected, with the exception of session end time which is presented last.

Variables take the format FF1xx followed by a 3-digit number, where xx denotes the session from which the data were collected (e.g. variables from the measures session are FF1ms100, FF1ms101, etc). Variables with the prefix FF1a and a number (e.g. FF1a011) are administrative variables. As far as possible the variables are named in the same way as for the Focus on Mothers 1 clinic (except that in the mother’s data FF1 will be replaced by FM1).

## **1.6 Format of this documentation**

Brief Summaries of the protocols for data collection are provided. The bulk of this documentation consists of the frequency tables of the variables collected. Where any post-data collection editing has occurred a description has been added before the relevant frequency tables. The algorithms used to create derived variables are also included where appropriate.

## **1.7 Important Note for all data users**

**Please be aware that some men may appear in the release file more than once. This is due to the fact that ALSPAC started by enrolling pregnant women and the main study ID is therefore 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. Any man associated with both of these pregnancies will therefore be duplicated.**

- 1- An indicator variable has been included in the file, called *mult\_dad* to identify these men. If you are carrying out father based research that does not require you to consider repeat pregnancies for which we have data then please select *mult\_dad* = 2 to remove the duplicate entries. This will keep one pregnancy and randomly drop the other pregnancy. 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 ASLAPC pregnancies, as well as the mother or father-based data, you need not do anything as each pregnancy (and hence each child from a separate pregnancy) has a unique identifier and a fathers' data has been included/repeated here for each of the pregnancies he is associated with where appropriate.

**mult\_dad Entry is a duplicate - Remove if only looking at fathers: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 One father/father figure related to two pregnancies	33	1.6	1.6	1.6
	2 No	2001	98.4	98.4	100.0
	Total	2034	100.0	100.0	

## 1.8 Built file version history

Built file version 1 – released February 2014

Built file version 2a (Partial Update) – released February 2018

Details of additions/corrections from previous release file:

- DXA data has now been processed and is included in this version of the release file.
- There were three cases in the FoF clinic where both the biological father and the step-father of the same study child attended the clinic. As ALSPAC ID's are pregnancy based (meaning that these biological and step-father pairs would have the same ID number), in order to prevent potential confusion when merging datasets only the biological fathers are kept on this version of the built file. In the previous built file there were two cases where data associated with the step-father was in the release file; in both of these cases the data was been replaced with that of the biological father.
- Note that this is a partial update, so the frequencies and histograms below have not been updated to reflect the change is data associated with changing step-fathers for biological fathers (other than the new DXA data, which does reflect these updates).

Built file version 3a – released October 2019

- Faceshape coordinate data has been added (variables ff1fs120a to ff1fs140c). Note also that faceshape admin variables ff1fs110 and ff1fs111 have been updated to match this new data.

## 2. The data and observations

### 2.1 Administrative variables

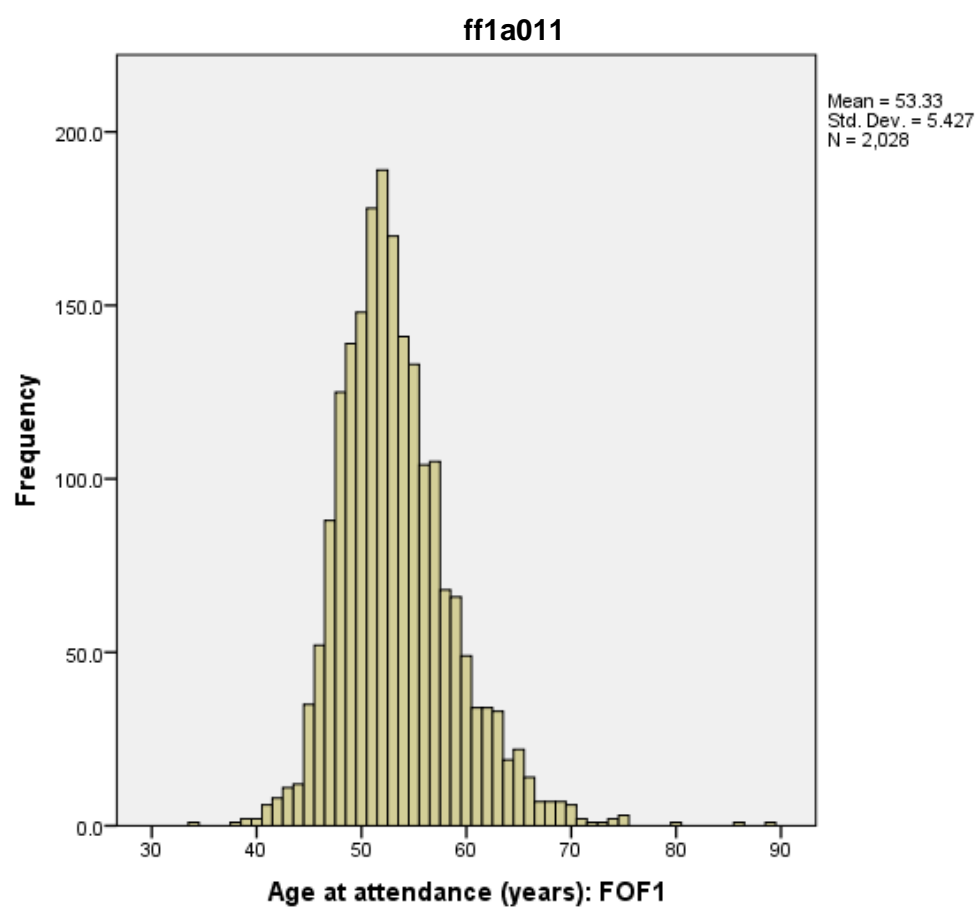
**ff1a010a Month of attendance: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1	194	9.5	9.5	9.5
2	255	12.5	12.5	22.1
3	176	8.7	8.7	30.7
4	112	5.5	5.5	36.2
5	145	7.1	7.1	43.4
6	147	7.2	7.2	50.6
Valid 7	131	6.4	6.4	57.0
8	151	7.4	7.4	64.5
9	134	6.6	6.6	71.0
10	224	11.0	11.0	82.1
11	211	10.4	10.4	92.4
12	154	7.6	7.6	100.0
Total	2034	100.0	100.0	

**ff1a010b Year of attendance: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
2011	347	17.1	17.1	17.1
Valid 2012	1552	76.3	76.3	93.4
2013	135	6.6	6.6	100.0
Total	2034	100.0	100.0	

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



## 2.2 Samples session

### 2.2.1 Blood sample

Written and verbal consent was required prior to taking blood.

All men were asked to fast overnight (if booked in for to 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.

Note: ff1sa100 Urine tube given and ff1sa101 Urine sample collected are recorded in this session.

The session start time is recorded in variables ff1sa001a (hour) and ff1sa001b (minutes).

**ff1sa001 Blood sample fieldworker: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1	38	1.9	1.9	1.9
2	1	.0	.0	1.9
4	15	.7	.7	2.7
5	229	11.3	11.4	14.1
6	3	.1	.1	14.2
7	274	13.5	13.6	27.8
8	243	11.9	12.1	39.9
9	87	4.3	4.3	44.2
11	184	9.0	9.1	53.3
Valid 12	66	3.2	3.3	56.6
13	3	.1	.1	56.8
14	183	9.0	9.1	65.8
15	116	5.7	5.8	71.6
16	70	3.4	3.5	75.1
17	16	.8	.8	75.9
18	237	11.7	11.8	87.6
19	184	9.0	9.1	96.8
20	65	3.2	3.2	100.0
Total	2014	99.0	100.0	
Missing -1 NS/NK	20	1.0		
Total	2034	100.0		



**ff1sa005 Taking any form of anti-coagulant: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	54	2.7	2.7	2.7
	2 No	1972	97.0	97.3	100.0
	Total	2026	99.6	100.0	
Missing	-1 NS/NK	8	.4		
Total		2034	100.0		

**ff1sa006 Any clotting/bleeding or are anaemic: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	18	.9	.9	.9
	2 No	2006	98.6	99.1	100.0
	Total	2024	99.5	100.0	
Missing	-1 NS/NK	10	.5		
Total		2034	100.0		

**ff1sa007 Taking any Medication: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	892	43.9	45.0	45.0
	2 No	1092	53.7	55.0	100.0
	Total	1984	97.5	100.0	
Missing	-1 NS/NK	50	2.5		
Total		2034	100.0		

**ff1sa008 Taking Insulin medications: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	34	1.7	1.7	1.7
	2 No	1990	97.8	98.3	100.0
	Total	2024	99.5	100.0	
Missing	-1 NS/NK	10	.5		
Total		2034	100.0		

**ff1sa010 Consent to bloods: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1985	97.6	97.6	97.6
	2 No	49	2.4	2.4	100.0
	Total	2034	100.0	100.0	

**ff1sa011 Consent to cell-line or DNA: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1106	54.4	54.4	54.4
2 No	928	45.6	45.6	100.0
Total	2034	100.0	100.0	

**ff1sa012 Consent to DNA only: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	335	16.5	16.5	16.5
2 No	1699	83.5	83.5	100.0
Total	2034	100.0	100.0	

**ff1sa013 Consent to Haemoglobin test: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1983	97.5	97.5	97.5
2 No	51	2.5	2.5	100.0
Total	2034	100.0	100.0	

**ff1sa014 Consent to be informed if Haemoglobin low: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1926	94.7	94.7	94.7
2 No	108	5.3	5.3	100.0
Total	2034	100.0	100.0	

**ff1sa015 Consent to Glucose test: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1982	97.4	97.4	97.4
2 No	52	2.6	2.6	100.0
Total	2034	100.0	100.0	

**ff1sa016 Consent to be informed if glucose high: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1903	93.6	93.6	93.6
2 No	131	6.4	6.4	100.0
Total	2034	100.0	100.0	

**ff1sa017 Consent to have lipids test: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1983	97.5	97.5	97.5
Valid 2 No	51	2.5	2.5	100.0
Total	2034	100.0	100.0	

**ff1sa018 Consent to be informed if lipids out of range: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1901	93.5	93.5	93.5
Valid 2 No	133	6.5	6.5	100.0
Total	2034	100.0	100.0	

**ff1sa019 Consent to have bloods and urine stored: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1988	97.7	97.7	97.7
Valid 2 No	46	2.3	2.3	100.0
Total	2034	100.0	100.0	

**ff1sa020 Consent to urine for protein and other substances: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	2024	99.5	99.5	99.5
Valid 2 No	10	.5	.5	100.0
Total	2034	100.0	100.0	

**ff1sa055 CPDA sample taken: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1078	53.0	53.5	53.5
Valid 2 No	938	46.1	46.5	100.0
Total	2016	99.1	100.0	
Missing -1 NS/NK	18	.9		
Total	2034	100.0		

**ff1sa057 Heparin sample taken: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1926	94.7	95.8	95.8
Valid 2 No	84	4.1	4.2	100.0
Total	2010	98.8	100.0	
Missing -1 NS/NK	24	1.2		
Total	2034	100.0		

**ff1sa058 EDTA sample taken: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1923	94.5	95.5	95.5
Valid 2 No	91	4.5	4.5	100.0
Total	2014	99.0	100.0	
Missing -1 NS/NK	20	1.0		
Total	2034	100.0		

The time that the man last consumed food or drink other than water is recorded in ff1sa050a (hour) and ff1sa050b (minutes) and the time the samples were put on ice is recorded in ff1sa060a (hours) and ff1sa060b (minutes).

**ff1sa070 Problems taking blood sample: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	131	6.4	6.6	6.6
Valid 2 No	1847	90.8	93.4	100.0
Total	1978	97.2	100.0	
Missing -1 NS/NK	56	2.8		
Total	2034	100.0		

**ff1sa071 Nature of problem taking blood sample: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Faint	21	1.0	26.3	26.3
Valid 2 Looks like there will be marked bruising	6	.3	7.5	33.8
Valid 3 Took more than 2 attempts to take blood	19	.9	23.8	57.5
Valid 4 Other	34	1.7	42.5	100.0
Total	80	3.9	100.0	
Missing -1 NS/NK	1954	96.1		
Total	2034	100.0		

**ff1sa072 Number of attempts to take blood: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	1645	80.9	90.5	90.5
2	142	7.0	7.8	98.3
3	25	1.2	1.4	99.7
4	5	.2	.3	100.0
Total	1817	89.3	100.0	
Missing -1 NS/NK	217	10.7		
Total	2034	100.0		

**ff1sa100 Urine tube given: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	2009	98.8	99.5	99.5
2 No	11	.5	.5	100.0
Total	2020	99.3	100.0	
Missing -1 NS/NK	14	.7		
Total	2034	100.0		

**ff1sa101 Urine sample collected: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1729	85.0	96.7	96.7
2 No	59	2.9	3.3	100.0
Total	1788	87.9	100.0	
Missing -1 NS/NK	246	12.1		
Total	2034	100.0		

**ff1sa105 Respondent has any allergies: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	571	28.1	29.6	29.6
2 No	1360	66.9	70.4	100.0
Total	1931	94.9	100.0	
Missing -1 NS/NK	103	5.1		
Total	2034	100.0		

The session end time is recorded in variables ff1sa160a (hour) and ff1sa160b (minutes).

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

## 2.3 Anthropometry and DEXA session

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

The session start time is recorded in variables ff1ms001a (hour) and ff1ms001b (minutes).

**ff1ms001 Anthropometry and DEXA fieldworker: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1	18	.9	.9	.9
4	9	.4	.4	1.3
5	227	11.2	11.2	12.6
6	7	.3	.3	12.9
7	238	11.7	11.8	24.7
8	221	10.9	10.9	35.6
9	69	3.4	3.4	39.0
11	206	10.1	10.2	49.2
Valid 12	70	3.4	3.5	52.7
13	7	.3	.3	53.0
14	175	8.6	8.7	61.7
15	108	5.3	5.3	67.0
16	150	7.4	7.4	74.5
17	6	.3	.3	74.8
18	302	14.8	14.9	89.7
19	154	7.6	7.6	97.3
20	54	2.7	2.7	100.0
Total	2021	99.4	100.0	
Missing -1 NS/NK	13	.6		
Total	2034	100.0		

**ff1ms010 Consent to anthropometric measures: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1 Yes	2033	100.0	100.0	100.0
Valid 2 No	1	.0	.0	100.0
Total	2034	100.0	100.0	

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

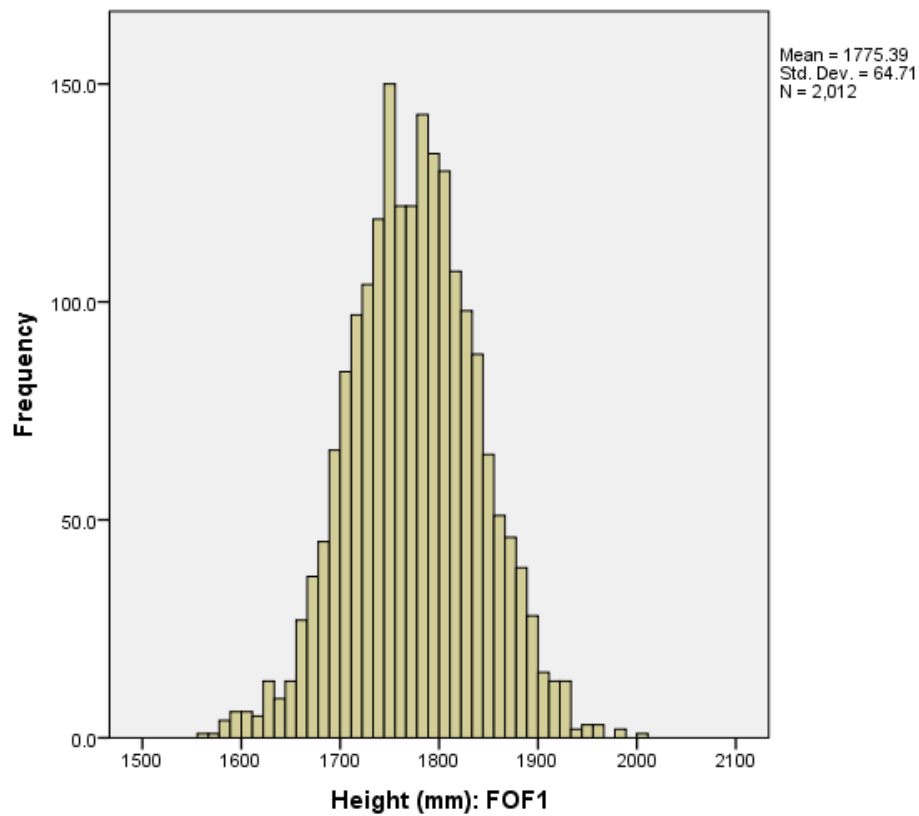
**ff1ms105 Pacemaker fitted: FOF1**

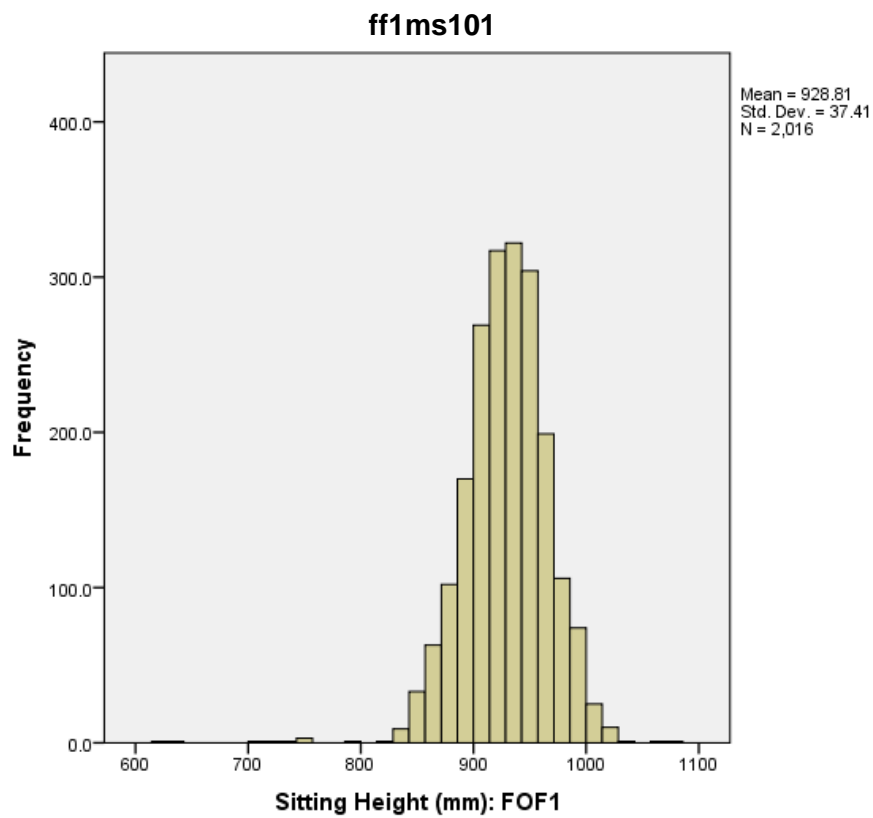
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	14	.7	.7	.7
	2 No	1994	98.0	99.3	100.0
	Total	2008	98.7	100.0	
Missing	-1 NS/NK	26	1.3		
Total		2034	100.0		

### 2.3.1 Anthropometrics

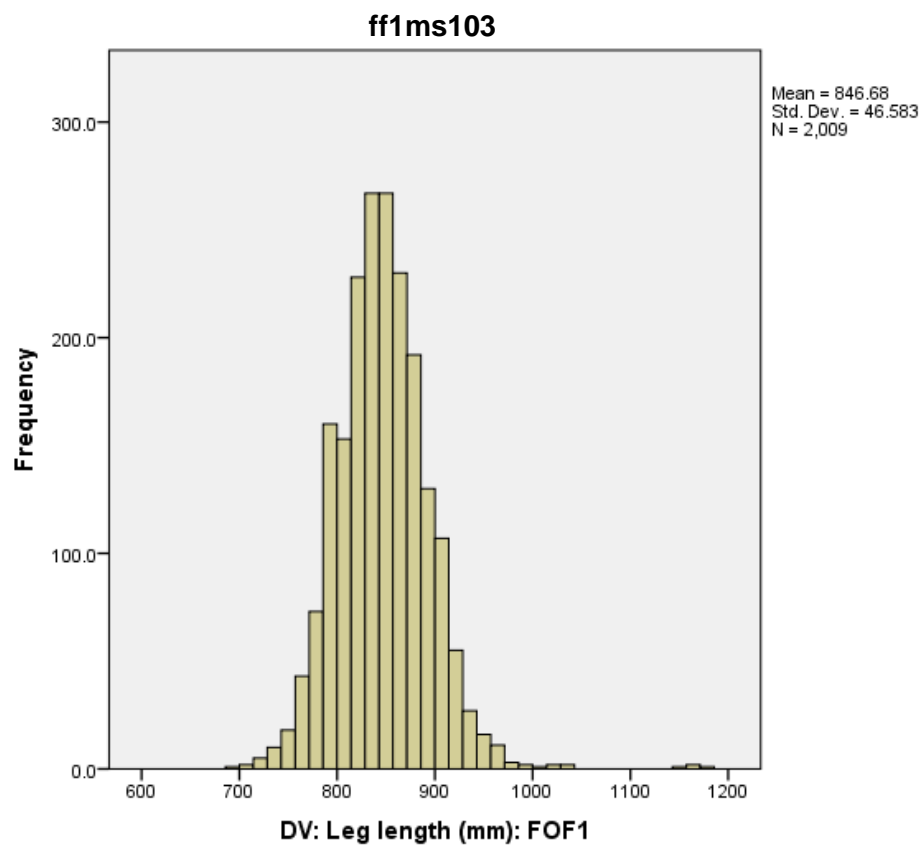
Standing and sitting height was measured using a Harpenden stadiometer and recorded to the nearest 1mm.

**ff1ms100**



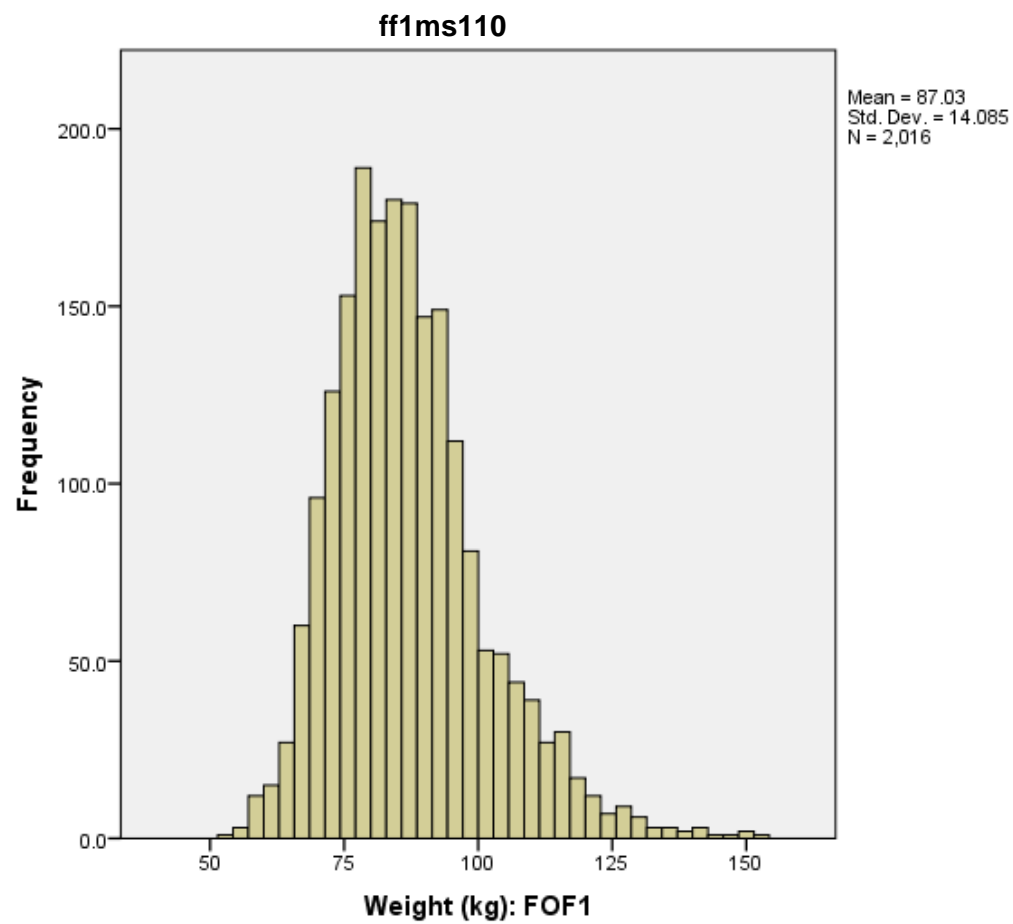


Derived variable: Leg length calculated as the difference between standing height and sitting height ( $\text{ff1ms100} - \text{ff1ms101}$ ).

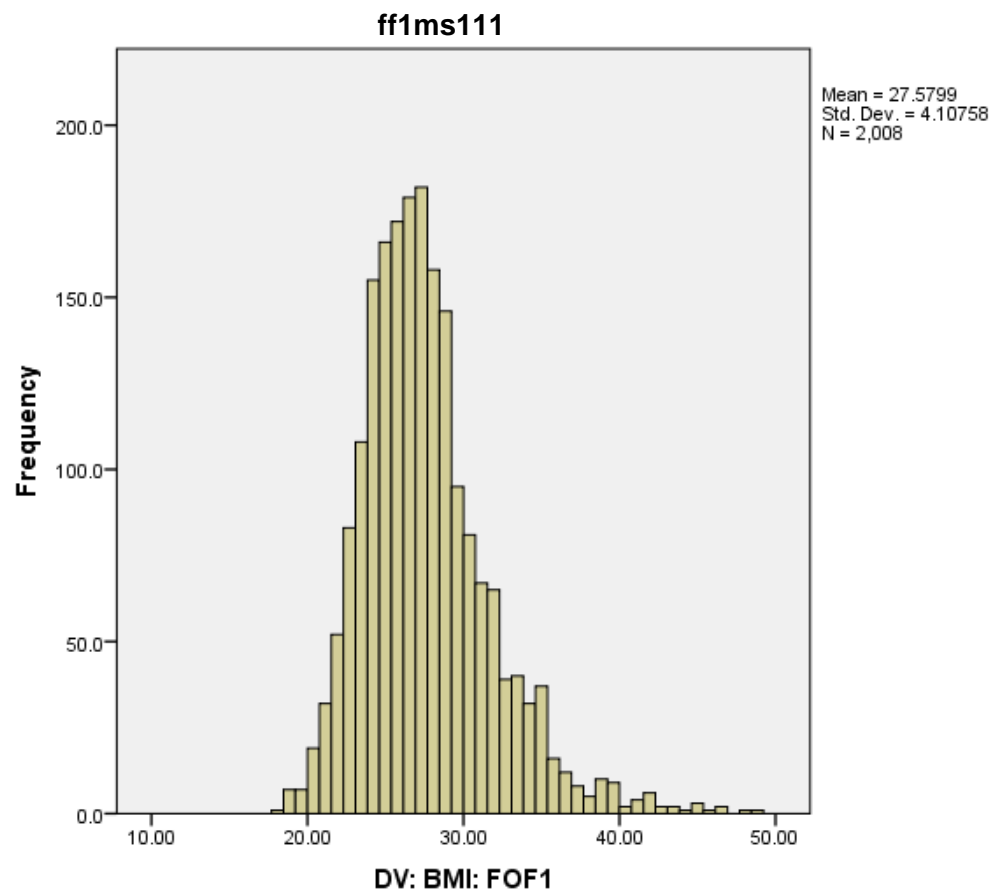




Weight was measured using Tanita scales (TBF401-A) and recorded to the nearest 0.1 kg/

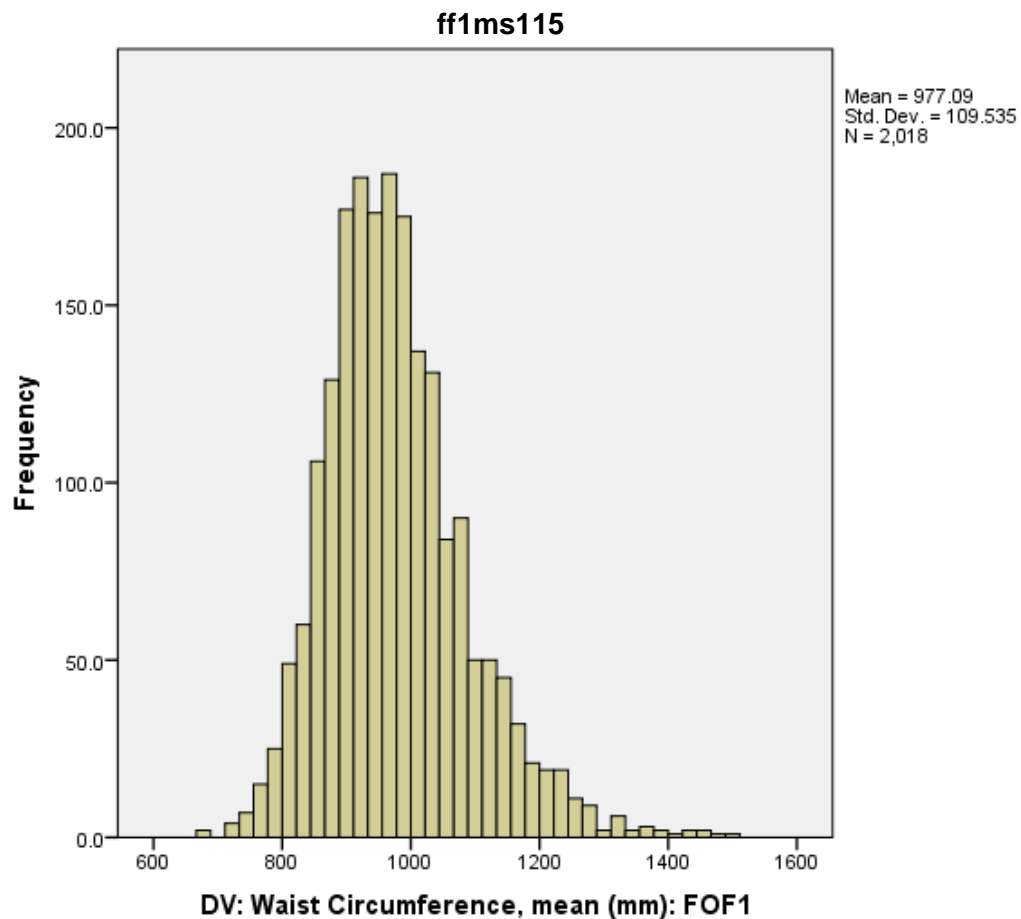


Derived variable: BMI calculated as [weight (kg)] / [height (m) 2]  
(ff1ms110/ ((ff1ms100/100) \* (ff1ms100/100))).



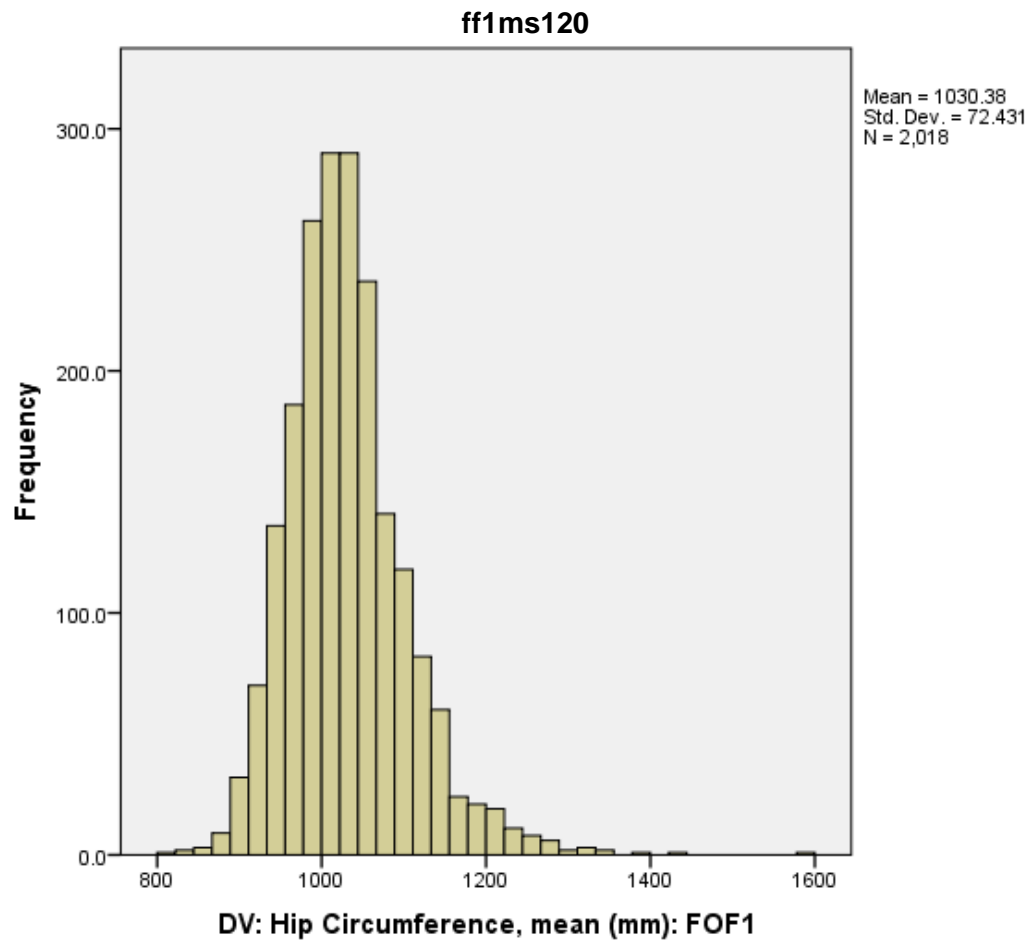
Waist circumference was measured using the Seca 200 body tension tape. It was measured twice and recorded to the nearest 1mm. The two measures for waist circumference are variables ff1ms115a and ff1ms115b.

Derived variable: mean of these two measures:  $(ff1ms115a + ff1ms115b) / 2$ . [If only one measure was taken, that one was used].

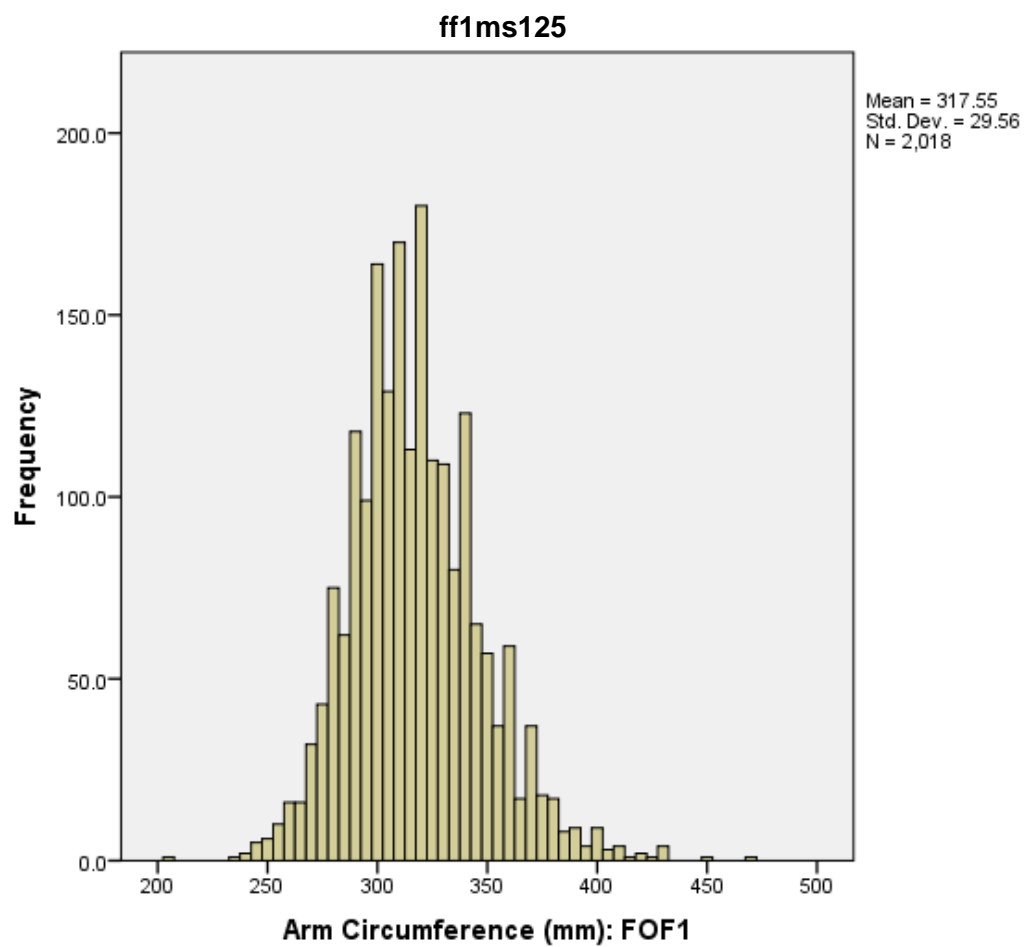


Hip circumference was measured using the Seca 200 body tension tape. It was measured twice and recorded to the nearest 1mm. The two measures for waist circumference are variables ff1ms120a and ff1ms120b.

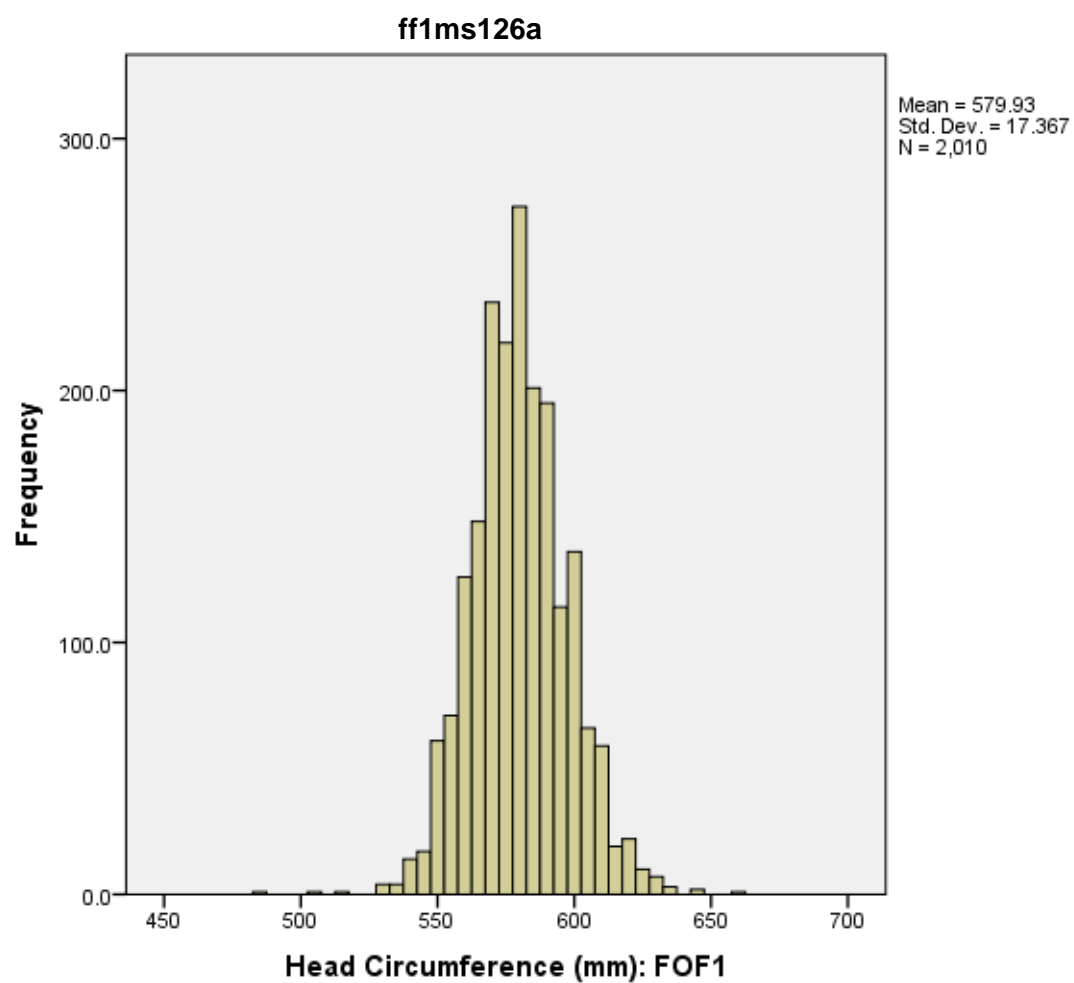
Derived variable: mean of these two measures:  $(ff1ms120a + ff1ms120b) / 2$  [If only one measure was taken, that one was used].



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



Head circumference was measured using a Harlow healthcare “Lasso-o” head circumference tape



### 2.3.2 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. Note that variables with the code 'dx' (e.g., ff1dx020) relate to the full body DXA scan, while variables with the code 'hdx' (e.g., ff1hdx061) relate to the DXA scan focusing specifically on participants' hips.

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

Where any anomalies on the scan were noted, these were categorised and derived variables created to describe the issue (e.g., arm(s) outside of scan area; alignment issues; white masses on chest (breast implant(s)); miscellaneous; etc.). A derived variable highlighting cases where *any* issues were identified was also created. For the full body DXA scan, these are variables ff1dx990 to ff1dx995; while for the hip DXA scan these are variables ff1hdx990 to ff1hdx994. Note also variable 'ff1dx012', which states whether all limbs were captured within the DXA lines; this existed in the previous version of the built file and was derived independently of variables ff1dx990 to ff1dx995.

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.

**ff1dx001 Consent given for DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2026	99.6	99.7	99.7
	2 No	7	.3	.3	100.0
	Total	2033	100.0	100.0	
Missing	-1 NS/NK	1	.0		
Total		2034	100.0		

**ff1dx010 DXA scan done: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1880	92.4	93.6	93.6
	2 No	129	6.3	6.4	100.0
	Total	2009	98.8	100.0	
Missing	-1 NS/NK	25	1.2		
Total		2034	100.0		

**ff1dx011 Reason DXA scan not performed: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Too large	7	.3	5.8	5.8
	2 Disability	1	.0	.8	6.6
	4 Past radiotherapy	4	.2	3.3	9.9
	5 Other	109	5.4	90.1	100.0
	Total	121	5.9	100.0	
Missing	-1 NS/NK	1913	94.1		
Total		2034	100.0		

**ff1dx012 All limbs captured within the DXA lines: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1758	86.4	92.8	92.8
	2 No	137	6.7	7.2	100.0
	Total	1895	93.2	100.0	
Missing	-1 NS/NK	139	6.8		
Total		2034	100.0		

**ff1dx013 Type of DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Standard	1109	54.5	81.5	81.5
	2 Thick	251	12.3	18.5	100.0
	Total	1360	66.9	100.0	
Missing	-1 NS/NK	674	33.1		
Total		2034	100.0		



The following variables are based upon the full-body DXA scan (ff1dx020 to ff1dx501).

#### Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
ff1dx020 Total Fat Mass (g): FOF1	1868	3123.91	62039.24	23736.7826	9103.54261
ff1dx021 Total Lean Mass (g): FOF1	1868	38670.73	92281.35	59490.0421	6549.17061
ff1dx030 Total BMD (g\cm <sup>2</sup> ): FOF1	1868	1.03	1.63	1.2954	.09696
ff1dx031 Total BMC (g): FOF1	1868	2034.34	5102.73	3389.8425	474.34703
ff1dx035 Total Area (cm <sup>2</sup> ): FOF1	1868	1951.08	3315.49	2607.8520	219.26204
ff1dx036 Total Bone Mass (g): FOF1	1868	2034.34	5102.73	3389.8425	474.34703
ff1dx050 Head BMD (g\cm <sup>2</sup> ): FOF1	1868	1.39	3.17	2.2032	.27131
ff1dx051 Head BMC (g): FOF1	1868	307.59	851.96	520.6305	77.03354
ff1dx052 Head Area (cm <sup>2</sup> ): FOF1	1868	159.78	297.08	236.0891	16.07589
ff1dx101 Arm Left Bone Mass (g): FOF1	1868	93.06	373.81	235.9832	35.93297
ff1dx102 Arm Left Fat Mass (g): FOF1	1868	131.83	3059.90	1060.1055	441.59710
ff1dx103 Arm Left Lean Mass (g) : FOF1	1868	2148.12	5699.27	3702.3848	513.15382
ff1dx104 Arm Right Bone Mass (g): FOF1	1868	114.41	390.85	240.0396	34.51140
ff1dx105 Arm Right Fat Mass (g): FOF1	1868	140.08	3531.94	1055.9316	453.69118
ff1dx106 Arm Right Lean Mass (g) : FOF1	1868	2424.32	6696.33	3689.8181	510.79337
ff1dx107 Arms Bone Mass (g): FOF1	1868	238.27	764.66	476.0228	67.47301
ff1dx108 Arms Fat Mass (g): FOF1	1868	271.91	6591.84	2116.0371	889.00789
ff1dx109 Arms Lean Mass (g): FOF1	1868	5054.09	10930.24	7392.2029	983.46414
ff1dx110 Leg Left Bone Mass (g): FOF1	1868	383.82	1086.08	645.7185	94.03051
ff1dx111 Leg Left Fat Mass (g): FOF1	1868	469.30	10375.34	3056.5078	1224.12901
ff1dx112 Leg Left Lean Mass (g): FOF1	1868	3493.79	14442.78	9831.6429	1269.52141
ff1dx113 Leg Right Bone Mass (g): FOF1	1868	377.21	1028.95	646.8243	92.55873
ff1dx114 Leg Right Fat Mass (g): FOF1	1868	437.53	10239.24	3029.7567	1218.46216
ff1dx115 Leg Right Lean Mass (g): FOF1	1868	3511.40	14680.80	9737.5565	1243.02262
ff1dx116 Legs Bone Mass (g): FOF1	1868	765.03	2080.67	1292.5428	185.19148
ff1dx117 Legs Fat Mass (g): FOF1	1868	906.83	20614.59	6086.2645	2439.52081
ff1dx118 Legs Lean Mass (g): FOF1	1868	7005.19	28928.08	19569.1994	2486.49681
ff1dx119 Trunk Left Bone Mass (g): FOF1	1868	250.83	969.75	555.1086	113.32684
ff1dx120 Trunk Left Fat Mass (g): FOF1	1868	815.68	19902.61	7572.0114	3047.54843
ff1dx121 Trunk Left Lean Mass (g): FOF1	1868	9460.84	25924.22	14517.3235	1822.68693
ff1dx122 Trunk Right Bone Mass (g): FOF1	1868	237.28	1016.05	545.5378	111.93411
ff1dx123 Trunk Right Fat Mass (g): FOF1	1868	755.34	18322.17	7231.6821	2923.27222
ff1dx124 Trunk Right Lean Mass (g): FOF1	1868	9625.91	24419.77	13844.7587	1727.69485
ff1dx125 Trunk Bone Mass (g): FOF1	1868	488.11	1955.80	1100.6464	222.25002
ff1dx126 Trunk Fat Mass (g): FOF1	1868	1583.69	38209.79	14803.6935	5957.82523
ff1dx127 Trunk Lean Mass (g): FOF1	1868	19488.60	49606.85	28362.0822	3482.84794
ff1dx128 Total Left Bone Mass (g): FOF1	1868	986.00	2626.76	1682.0884	241.97077
ff1dx129 Total Left Fat Mass (g) : FOF1	1868	1592.30	31312.59	12035.3754	4603.63001
ff1dx130 Total Left Lean Mass (g): FOF1	1868	19576.90	45451.72	30023.0100	3335.17886
ff1dx131 Total Right Bone Mass (g): FOF1	1868	1009.26	2614.48	1707.7541	242.36789
ff1dx132 Total Right Fat Mass (g): FOF1	1868	1531.61	30726.64	11701.4072	4509.34771
ff1dx133 Total Right Lean Mass (g): FOF1	1868	19093.83	47294.66	29467.0321	3285.52532
ff1dx137 Android Bone Mass (g): FOF1	1868	23.14	141.66	61.5407	13.87713
ff1dx138 Android Fat Mass (g): FOF1	1868	270.16	7283.19	2698.6546	1152.13817
ff1dx139 Android Lean Mass (g): FOF1	1868	2557.64	8366.31	4119.6805	612.26988
ff1dx140 Gynoid Bone Mass (g): FOF1	1868	181.20	596.15	353.8045	60.75261
ff1dx141 Gynoid Fat Mass (g): FOF1	1868	632.14	10636.65	3744.5549	1314.41770
ff1dx142 Gynoid Lean Mass (g): FOF1	1868	3755.17	13128.91	8702.5874	1098.83305
ff1dx204 Arms BMD (g\cm <sup>2</sup> ): FOF1	1868	.80	1.55	1.1711	.10452
ff1dx205 Arms BMC (g): FOF1	1868	238.27	764.66	476.0228	67.47301
ff1dx206 Arms Area (cm <sup>2</sup> ): FOF1	1868	227.50	550.62	406.0474	40.76149
ff1dx207 Legs BMD (g\cm <sup>2</sup> ): FOF1	1868	1.06	1.91	1.4515	.12976
ff1dx208 Legs BMC (g): FOF1	1868	765.03	2080.67	1292.5428	185.19148
ff1dx209 Legs Area (cm <sup>2</sup> ): FOF1	1868	652.21	1221.16	888.2733	77.08090
ff1dx210 Trunk BMD (g\cm <sup>2</sup> ): FOF1	1868	.75	1.34	1.0133	.09420
ff1dx211 Trunk BMC (g): FOF1	1868	488.11	1955.80	1100.6464	222.25002
ff1dx212 Trunk Area (cm <sup>2</sup> ): FOF1	1868	632.42	1505.06	1077.4421	136.98115
ff1dx213 Ribs BMD (g\cm <sup>2</sup> ): FOF1	1868	.54	1.01	.7489	.07080
ff1dx214 Ribs BMC (g): FOF1	1868	113.75	648.92	347.7108	84.31476
ff1dx215 Ribs Area (cm <sup>2</sup> ): FOF1	1868	163.31	714.32	459.2163	77.30060

ff1dx216 Pelvis BMD (g\cm <sup>2</sup> ): FOF1	1868	.81	1.71	1.2442	.12486
ff1dx217 Pelvis BMC (g): FOF1	1868	194.58	771.11	442.1538	92.51056
ff1dx218 Pelvis Area (cm <sup>2</sup> ): FOF1	1868	195.93	527.27	352.6335	47.83981
ff1dx219 Spine BMD (g\cm <sup>2</sup> ): FOF1	1868	.78	1.81	1.1633	.14477
ff1dx220 Spine BMC (g): FOF1	1868	157.39	583.58	310.7817	59.21109
ff1dx221 Spine Area (cm <sup>2</sup> ): FOF1	1868	186.31	347.03	265.5923	25.44913
ff1dx251 Arm Left BMD (g\cm <sup>2</sup> ): FOF1	1868	.80	1.53	1.1607	.10677
ff1dx252 Arm Left BMC (g): FOF1	1868	93.06	373.81	235.9832	35.93297
ff1dx253 Arm Left Area (cm <sup>2</sup> ): FOF1	1868	77.54	277.41	203.0712	22.74263
ff1dx254 Arm Right BMD (g\cm <sup>2</sup> ): FOF1	1868	.80	1.58	1.1820	.10922
ff1dx255 Arm Right BMC (g): FOF1	1868	114.41	390.85	240.0396	34.51140
ff1dx256 Arm Right Area (cm <sup>2</sup> ): FOF1	1868	113.11	282.36	202.9762	21.29921
ff1dx257 Leg Left BMD (g\cm <sup>2</sup> ): FOF1	1868	1.07	1.89	1.4517	.13404
ff1dx258 Leg Left BMC (g): FOF1	1868	383.82	1086.08	645.7185	94.03051
ff1dx259 Leg Left Area (cm <sup>2</sup> ): FOF1	1868	326.75	613.12	443.7369	39.10353
ff1dx260 Leg Right BMD (g\cm <sup>2</sup> ): FOF1	1868	1.03	1.95	1.4517	.12987
ff1dx261 Leg Right BMC (g): FOF1	1868	377.21	1028.95	646.8243	92.55873
ff1dx262 Leg Right Area (cm <sup>2</sup> ): FOF1	1868	325.45	608.04	444.5364	39.28145
ff1dx263 Trunk Left BMD (g\cm <sup>2</sup> ): FOF1	1868	.76	1.35	1.0206	.09788
ff1dx264 Trunk Left BMC (g): FOF1	1868	250.83	969.75	555.1086	113.32684
ff1dx265 Trunk Left Area (cm <sup>2</sup> ): FOF1	1868	330.17	779.38	539.5529	69.18981
ff1dx266 Trunk Right BMD (g\cm <sup>2</sup> ): FOF1	1868	.75	1.40	1.0061	.09298
ff1dx267 Trunk Right BMC (g): FOF1	1868	237.28	1016.05	545.5378	111.93411
ff1dx268 Trunk Right Area (cm <sup>2</sup> ): FOF1	1868	295.93	793.35	537.8892	71.80533
ff1dx269 Total Left BMD (g\cm <sup>2</sup> ): FOF1	1868	1.00	1.64	1.2923	.09987
ff1dx270 Total Left BMC (g): FOF1	1868	986.00	2626.76	1682.0884	241.97077
ff1dx271 Total Left Area (cm <sup>2</sup> ): FOF1	1868	960.82	1664.12	1296.9673	112.25627
ff1dx272 Total Right BMD (g\cm <sup>2</sup> ): FOF1	1868	1.00	1.67	1.2982	.09722
ff1dx273 Total Right BMC (g): FOF1	1868	1009.26	2614.48	1707.7541	242.36789
ff1dx274 Total Right Area (cm <sup>2</sup> ): FOF1	1868	967.15	1719.97	1310.8847	114.49960
ff1dx300 Arms Tissue Mass (g): FOF1	1868	5649.64	16078.54	9508.2400	1470.95392
ff1dx301 Arm Right Tissue Mass (g): FOF1	1868	2687.04	9895.09	4745.7497	767.82503
ff1dx302 Arm Left Tissue Mass (g): FOF1	1868	2962.60	7705.74	4762.4903	752.53532
ff1dx303 Legs Tissue Mass (g): FOF1	1868	14000.62	46617.65	25655.4639	4016.63570
ff1dx304 Leg Right Tissue Mass (g): FOF1	1868	7007.22	23797.40	12767.3132	2012.33328
ff1dx305 Leg Left Tissue Mass (g): FOF1	1868	6993.40	22820.25	12888.1507	2032.56957
ff1dx306 Trunk Tissue Mass (g): FOF1	1868	23893.31	85189.81	43165.7758	8210.18543
ff1dx307 Trunk Right Tissue Mass (g): FOF1	1868	11580.56	40674.17	21076.4409	4059.59720
ff1dx308 Trunk Left Tissue Mass (g): FOF1	1868	12161.91	44515.63	22089.3349	4219.89603
ff1dx309 Android Tissue Mass (g): FOF1	1868	3204.32	15212.21	6818.3352	1589.40756
ff1dx310 Gynoid Tissue Mass (g): FOF1	1868	6895.87	21904.92	12447.1424	2019.35386
ff1dx311 Total Tissue Mass (g): FOF1	1868	50715.89	144645.75	83226.8248	13207.36170
ff1dx312 Total Right Tissue Mass (g): FOF1	1868	25378.04	71370.53	41168.4394	6606.37380
ff1dx313 Total Left Tissue Mass (g): FOF1	1868	25337.85	73275.22	42058.3854	6668.06026
ff1dx320 Arms Fat Free Mass (g): FOF1	1868	5403.67	11545.09	7868.2257	1031.89667
ff1dx321 Arm Right Fat Free Mass (g): FOF1	1868	2617.29	7008.26	3929.8577	535.81859
ff1dx322 Arm Left Fat Free Mass (g): FOF1	1868	2241.18	5996.90	3938.3681	539.04614
ff1dx323 Legs Fat Free Mass (g): FOF1	1868	7781.91	30988.58	20861.7422	2625.89775
ff1dx324 Leg Right Fat Free Mass (g): FOF1	1868	3888.60	15542.45	10384.3808	1312.08162
ff1dx325 Leg Left Fat Free Mass (g): FOF1	1868	3893.31	15446.13	10477.3614	1339.74589
ff1dx326 Trunk Fat Free Mass (g): FOF1	1868	20302.77	50758.78	29462.7286	3592.31981
ff1dx327 Trunk Right Fat Free Mass (g): FOF1	1868	10034.28	25123.56	14390.2965	1783.89418
ff1dx328 Trunk Left Fat Free Mass (g): FOF1	1868	9847.47	26452.20	15072.4321	1878.16268
ff1dx329 Android Fat Free Mass (g): FOF1	1868	2613.66	8435.57	4181.2212	617.55802
ff1dx330 Gynoid Fat Free Mass (g): FOF1	1868	3936.37	13568.34	9056.3919	1141.71368
ff1dx331 Total Fat Free Mass (g): FOF1	1868	41468.59	96013.65	62879.8847	6861.90490
ff1dx332 Total Right Fat Free Mass (g): FOF1	1868	20527.64	49294.21	31174.7862	3447.31838
ff1dx333 Total Left Fat Free Mass (g): FOF1	1868	20940.95	47947.95	31705.0985	3494.14137
ff1dx340 Arms Total Mass (g): FOF1	1868	6001.01	16554.13	9984.2628	1505.29688
ff1dx341 Arm Right Total Mass (g): FOF1	1868	2863.13	10207.02	4985.7892	786.98296
ff1dx342 Arm Left Total Mass (g): FOF1	1868	3137.88	7942.03	4998.4736	770.69333
ff1dx343 Legs Total Mass (g): FOF1	1868	14777.35	47843.30	26948.0067	4145.64578
ff1dx344 Leg Right Total Mass (g): FOF1	1868	7384.42	24420.65	13414.1375	2076.44751
ff1dx345 Leg Left Total Mass (g): FOF1	1868	7392.92	23422.65	13533.8692	2097.62361
ff1dx346 Trunk Total Mass (g): FOF1	1868	24637.59	86341.73	44266.4221	8337.29489

ff1dx347 Trunk Right Total Mass (g): FOF1	1868	11919.56	41298.13	21621.9786	4125.62114
ff1dx348 Trunk Left Total Mass (g): FOF1	1868	12553.91	45043.61	22644.4435	4282.71793
ff1dx349 Android Total Mass (g): FOF1	1868	3253.25	15281.48	6879.8759	1592.96671
ff1dx350 Gynoid Total Mass (g): FOF1	1868	7077.08	22344.35	12800.9469	2057.97298
ff1dx351 Total Total Mass (g): FOF1	1868	53294.56	148276.10	86616.6673	13490.77861
ff1dx352 Total Right Total Mass (g): FOF1	1868	26681.56	73354.95	42876.1934	6756.24317
ff1dx353 Total Left Total Mass (g): FOF1	1868	26613.00	74921.15	43740.4739	6807.27598
ff1dx360 Arms Region Fat (g): FOF1	1868	.04	.48	.2068	.06654
ff1dx361 Arm Right Region Fat (g): FOF1	1868	.04	.48	.2065	.06640
ff1dx362 Arm Left Region Fat (g): FOF1	1868	.04	.48	.2072	.06670
ff1dx363 Legs Region Fat (g): FOF1	1868	.05	.49	.2207	.06207
ff1dx364 Leg Right Region Fat (g): FOF1	1868	.05	.49	.2206	.06205
ff1dx365 Leg Left Region Fat (g): FOF1	1868	.05	.49	.2207	.06208
ff1dx366 Trunk Region Fat (g): FOF1	1868	.06	.54	.3231	.08186
ff1dx367 Trunk Right Region Fat (g): FOF1	1868	.06	.54	.3230	.08181
ff1dx368 Trunk Left Region Fat (g): FOF1	1868	.06	.54	.3232	.08191
ff1dx369 Android Region Fat (g): FOF1	1868	.06	.61	.3770	.09003
ff1dx370 Gynoid Region Fat (g): FOF1	1868	.07	.52	.2865	.06377
ff1dx371 Total Region Fat (g): FOF1	1868	.05	.50	.2666	.06907
ff1dx372 Total Right Region Fat (g): FOF1	1868	.05	.50	.2654	.06876
ff1dx373 Total Left Region Fat (g): FOF1	1868	.05	.50	.2677	.06942
ff1dx380 Arms Tissue Fat (g): FOF1	1868	.04	.49	.2170	.06870
ff1dx381 Arm Right Tissue Fat (g): FOF1	1868	.04	.49	.2168	.06866
ff1dx382 Arm Left Tissue Fat (g): FOF1	1868	.04	.49	.2172	.06874
ff1dx383 Legs Tissue Fat (g): FOF1	1868	.05	.51	.2317	.06446
ff1dx384 Leg Right Tissue Fat (g): FOF1	1868	.05	.51	.2317	.06446
ff1dx385 Leg Left Tissue Fat (g): FOF1	1868	.05	.51	.2316	.06447
ff1dx386 Trunk Tissue Fat (g): FOF1	1868	.06	.55	.3314	.08357
ff1dx387 Trunk Right Tissue Fat (g): FOF1	1868	.06	.55	.3314	.08357
ff1dx388 Trunk Left Tissue Fat (g) : FOF1	1868	.06	.55	.3313	.08356
ff1dx389 Android Tissue Fat (g): FOF1	1868	.06	.61	.3804	.09039
ff1dx390 Gynoid Tissue Fat (g): FOF1	1868	.08	.53	.2946	.06504
ff1dx391 Total Tissue Fat (g): FOF1	1868	.06	.51	.2774	.07111
ff1dx392 Total Right Tissue Fat (g): FOF1	1868	.06	.51	.2763	.07086
ff1dx393 Total Left Tissue Fat (g): FOF1	1868	.06	.52	.2784	.07139
ff1dx500 Total T score: FOF1	1867	-2.42	5.18	.9520	1.21429
ff1dx501 Total Z score: FOF1	1864	-2.32	4.64	.6777	1.08086

**ff1dx990 DV: Arm(s) out of full body DXA scan area: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	57	2.8	3.1	3.1
2 No	1811	89.0	96.9	100.0
Total	1868	91.8	100.0	
Missing -1 Missing	166	8.2		
Total	2034	100.0		

**ff1dx991 DV: Alignment issues in the full body DXA scan: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	49	2.4	2.6	2.6
2 No	1819	89.4	97.4	100.0
Total	1868	91.8	100.0	
Missing -1 Missing	166	8.2		
Total	2034	100.0		

**ff1dx992 DV: Full body DXA image is grainy: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	11	.5	.6	.6
	2 No	1857	91.3	99.4	100.0
	Total	1868	91.8	100.0	
Missing	-1 Missing	166	8.2		
Total		2034	100.0		

**ff1dx994 DV: Miscellaneous error/artefact in full body DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	15	.7	.8	.8
	2 No	1853	91.1	99.2	100.0
	Total	1868	91.8	100.0	
Missing	-1 Missing	166	8.2		
Total		2034	100.0		

**ff1dx995 DV: Any error/artefact noted in full body DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	69	3.4	3.7	3.7
	2 No	1799	88.4	96.3	100.0
	Total	1868	91.8	100.0	
Missing	-1 Missing	166	8.2		
Total		2034	100.0		

The following variables are based upon the hip DXA scan (ff1hdx060 to ff1hdx205).

#### Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
ff1hdx060 Hip Total BMD (g\cm <sup>2</sup> ): FOF1	1859	.71	1.77	1.0908	.14511
ff1hdx061 Hip Total BMC (g): FOF1	1859	16.20	65.93	41.0918	6.43254
ff1hdx062 Hip Total area (cm <sup>2</sup> ): FOF1	1859	12.15	48.66	37.6551	2.84096
ff1hdx065 Hip Total T Score: FOF1	1858	-2.71	4.67	-.0625	1.01526
ff1hdx066 Hip Total Z Score: FOF1	1855	-2.25	4.62	.1704	.95751
ff1hdx070 Hip Troch BMD (g\cm <sup>2</sup> ): FOF1	1858	.36	2.11	.9402	.13902
ff1hdx071 Hip Troch BMC (g): FOF1	1858	.19	30.87	15.5730	3.42273
ff1hdx072 Hip Troch area (cm <sup>2</sup> ): FOF1	1858	.29	25.15	16.4978	2.27514
ff1hdx075 Hip Troch T Score: FOF1	1857	-5.17	10.70	.0986	1.26598
ff1hdx076 Hip Troch Z Score: FOF1	1854	-5.05	10.47	.2183	1.20116
ff1hdx080 Hip Wards BMD (g\cm <sup>2</sup> ): FOF1	1855	.41	1.45	.8144	.15093
ff1hdx081 Hip Wards BMC (g): FOF1	1855	.60	8.52	2.8439	.71496
ff1hdx082 Hip Wards area (cm <sup>2</sup> ): FOF1	1857	.00	7.35	3.4807	.52481
ff1hdx085 Hip Wards T Score: FOF1	1854	-4.21	3.80	-1.1170	1.16171
ff1hdx086 Hip Wards Z Score: FOF1	1851	-3.29	4.73	-.2135	1.10413
ff1hdx090 Hip Shaft BMD (g\cm <sup>2</sup> ): FOF1	1859	.80	2.00	1.2774	.17762
ff1hdx091 Hip Shaft BMC (g) : FOF1	1859	10.70	31.19	19.8701	2.74198
ff1hdx092 Hip Shaft area (cm <sup>2</sup> ): FOF1	1859	8.86	19.78	15.5890	.97211
ff1hdx100 Cross-sectional moment of inertia (CSMI) (mm4): FOF1	1858	-13963.82	143131.06	17346.2323	5488.75321
ff1hdx101 Bone cross-sectional area (CSA) (mm2): FOF1	1858	88.15	1464.28	179.0213	44.49507
ff1hdx102 Hip axis length (mm): FOF1	1756	54.79	163.07	121.8234	7.61744
ff1hdx103 Strength Index: FOF1	1857	.03	14.87	1.4938	.49529
ff1hdx108 Alpha (deg: Neck angle): FOF1	1854	-26.46	15.94	-2.0427	4.07569
ff1hdx109 Theta (deg: Neck angle): FOF1	1858	107.22	154.34	126.9483	5.24519
ff1hdx130 Hip Neck BMD (g\cm <sup>2</sup> ): FOF1	1858	.23	1.59	1.0135	.13936
ff1hdx131 Hip Neck BMC (g\cm <sup>2</sup> ): FOF1	1858	.00	9.39	5.6602	.90084
ff1hdx132 Hip Neck Area (g\cm <sup>2</sup> ): FOF1	1859	.00	8.13	5.5771	.45948
ff1hdx135 Hip Neck T Score: FOF1	1857	-6.46	3.99	-.4324	1.07244
ff1hdx136 Hip Neck Z Score: FOF1	1854	-5.94	4.15	.1142	1.00139
ff1hdx140 Hip Upper Neck BMD (g\cm <sup>2</sup> ): FOF1	1857	.12	1.53	.8467	.14894
ff1hdx141 Hip Upper Neck BMC (g): FOF1	1857	.15	4.36	2.3269	.44240
ff1hdx142 Hip Upper Neck area (cm <sup>2</sup> ): FOF1	1858	.08	4.18	2.7487	.23079
ff1hdx145 Hip Upper Neck T Score: FOF1	1856	-6.08	4.74	-.5077	1.14828
ff1hdx146 Hip Upper Neck Z Score: FOF1	1853	-5.47	4.95	.0945	1.09575
ff1hdx150 Hip Lower Neck BMD (g\cm <sup>2</sup> ): FOF1	1857	.33	1.71	1.1769	.14515
ff1hdx151 Hip Lower Neck BMC (g): FOF1	1857	.15	5.67	3.3369	.50104
ff1hdx152 Hip Lower Neck area (cm <sup>2</sup> ): FOF1	1858	.45	4.07	2.8314	.22692
ff1hdx200 Hip cortical width neck: FOF1	1846	1.15	15.42	5.9859	2.42515
ff1hdx201 Hip cortical ratio neck: FOF1	1846	2.40	45.05	17.0843	6.91058
ff1hdx202 Hip cortical width calcar: FOF1	1839	1.05	15.95	4.6143	1.65768
ff1hdx203 Hip cortical ratio calcar: FOF1	1839	1.81	25.69	7.7314	2.63437
ff1hdx204 Hip cortical width shaft: FOF1	1798	.90	17.40	6.0088	1.72339
ff1hdx205 Hip cortical ratio shaft: FOF1	1798	1.76	37.86	18.2610	4.53916

#### ff1hdx299 Side of hip DXA scan: FOF1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
1 Left	1853	91.1	99.7	99.7
2 Right	6	.3	.3	100.0
Total	1859	91.4	100.0	
Missing	-1 Missing	175	8.6	
Total	2034	100.0		

**ff1hdx990 DV: Alignment issues in the hip DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	13	.6	.7	.7
	2 No	1855	91.2	99.3	100.0
	Total	1868	91.8	100.0	
Missing	-1 Missing	166	8.2		
Total		2034	100.0		

**ff1hdx991 DV: Edge of hip missing from hip DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5	.2	.3	.3
	2 No	1863	91.6	99.7	100.0
	Total	1868	91.8	100.0	
Missing	-1 Missing	166	8.2		
Total		2034	100.0		

**ff1hdx993 DV: Miscellaneous error/artefact in hip DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	18	.9	1.0	1.0
	2 No	1850	91.0	99.0	100.0
	Total	1868	91.8	100.0	
Missing	-1 Missing	166	8.2		
Total		2034	100.0		

**ff1hdx994 DV: Any error/artefact noted in hip DXA scan: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	24	1.2	1.3	1.3
	2 No	1844	90.7	98.7	100.0
	Total	1868	91.8	100.0	
Missing	-1 Missing	166	8.2		
Total		2034	100.0		

The session end time is recorded in variables ff1dx160a (hour) and ff1dx160b (minutes).

## 2.4 Arteries session

### 2.4.1 Blood pressure and pulse rate

#### Notes:

Measurements were taken first Seated and then Standing.

One arm was used to measure blood pressure, the arm used can be seen in variable ff1bp103.

Blood pressure and pulse readings are measured using an Omron M6 upper arm BP/Pulse monitor.

The session start time is recorded in variables ff1bp001a (hour) and ff1bp001b (minutes).

**ff1bp001 Cardiovascular measures fieldworker PWV BP Pulse: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1	33	1.6	1.6	1.6
5	224	11.0	11.1	12.7
7	252	12.4	12.5	25.1
8	255	12.5	12.6	37.7
9	87	4.3	4.3	42.0
10	1	.0	.0	42.1
11	173	8.5	8.5	50.6
12	73	3.6	3.6	54.2
Valid 14	161	7.9	8.0	62.2
15	140	6.9	6.9	69.1
16	133	6.5	6.6	75.7
17	4	.2	.2	75.9
18	200	9.8	9.9	85.8
19	202	9.9	10.0	95.8
20	86	4.2	4.2	100.0
Total	2024	99.5	100.0	
Missing -1 NS/NK	10	.5		
Total	2034	100.0		

**ff1bp010 Consent to other cardiovascular measures: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	2024	99.5	99.6	99.6
2 No	8	.4	.4	100.0
Total	2032	99.9	100.0	
Missing -1 NS/NK	2	.1		
Total	2034	100.0		

**ff1bp011 PWV measure successful: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1940	95.4	96.8	96.8
	2 No	64	3.1	3.2	100.0
	Total	2004	98.5	100.0	
Missing	-1 NS/NK	30	1.5		
Total		2034	100.0		

**ff1bp012 Reason PWV was not performed: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Equipment problem	30	1.5	31.9	31.9
	2 Poor quality trace	35	1.7	37.2	69.1
	3 Patient requested to stop	6	.3	6.4	75.5
	4 Other	23	1.1	24.5	100.0
	Total	94	4.6	100.0	
Missing	-1 NS/NK	1940	95.4		
Total		2034	100.0		

**ff1bp013 Central BP measure successful: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1962	96.5	97.8	97.8
	2 No	45	2.2	2.2	100.0
	Total	2007	98.7	100.0	
Missing	-1 NS/NK	27	1.3		
Total		2034	100.0		

**ff1bp014 Reason Central BP was not performed: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Equipment problem	23	1.1	51.1	51.1
	2 Poor quality trace	2	.1	4.4	55.6
	3 Patient requested to stop	1	.0	2.2	57.8
	4 Other	19	.9	42.2	100.0
	Total	45	2.2	100.0	
Missing	-1 NS/NK	1989	97.8		
Total		2034	100.0		



**ff1bp100 Consent for blood pressure: FOF1**

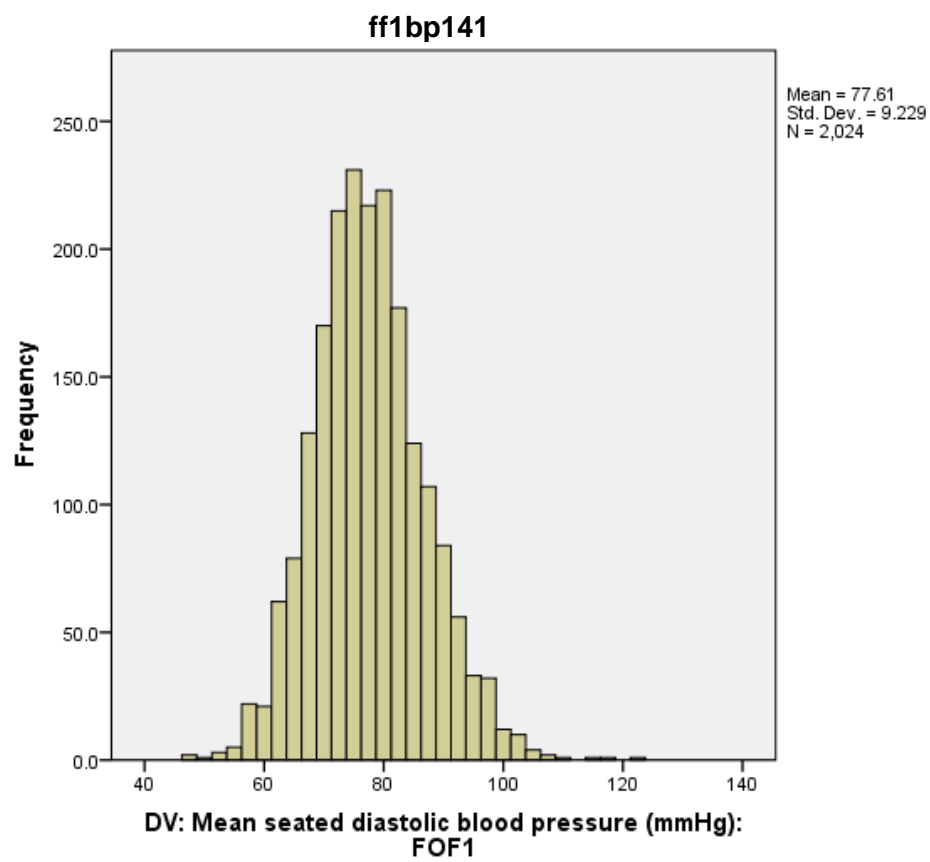
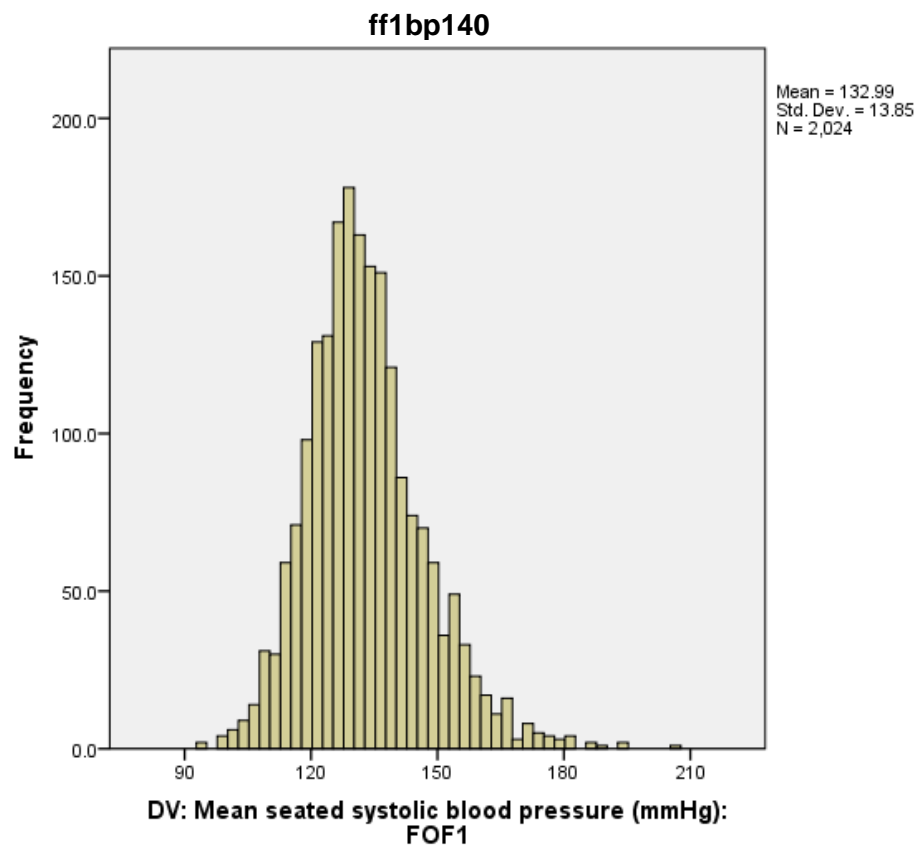
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	2032	99.9	100.0	100.0
Missing -1 NS/NK	2	.1		
Total	2034	100.0		

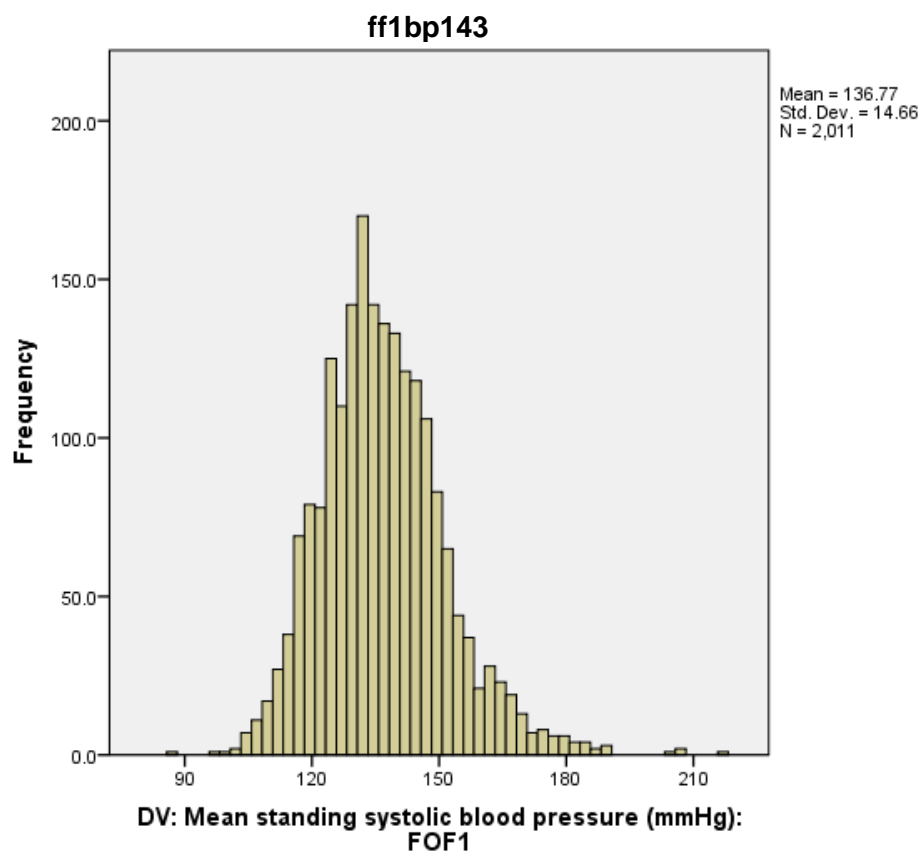
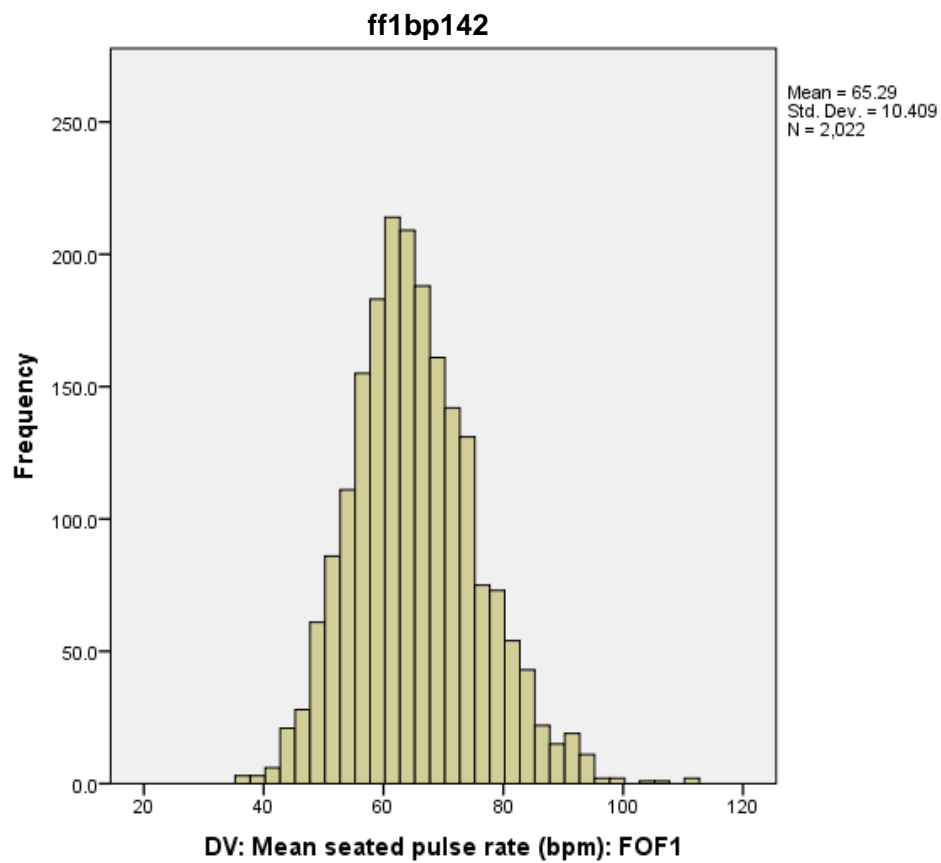
**ff1bp101 Consent to be informed if BP high: FOF1**

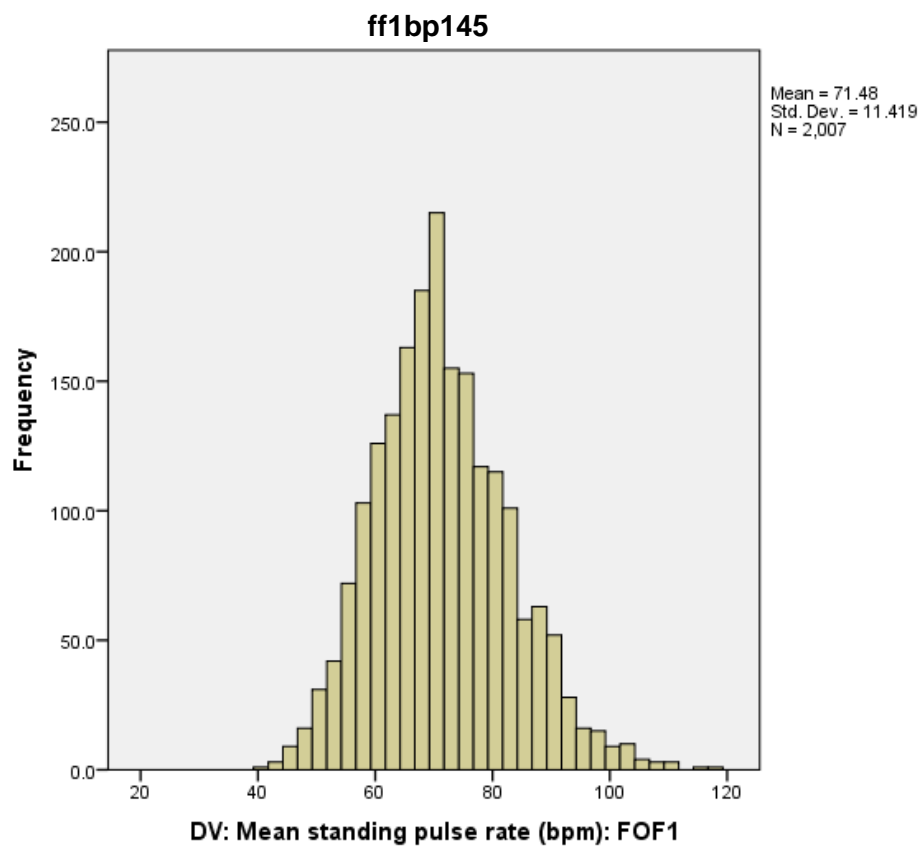
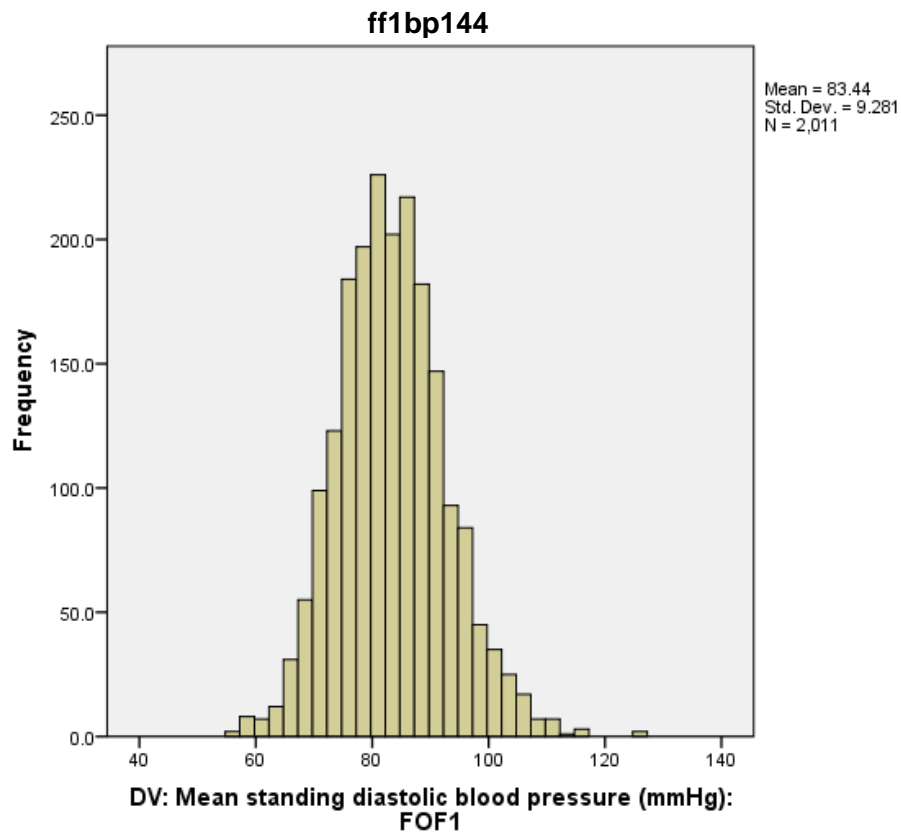
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1679	82.5	99.1	99.1
Valid 2 No	16	.8	.9	100.0
Total	1695	83.3	100.0	
Missing -1 NS/NK	339	16.7		
Total	2034	100.0		

**ff1bp103 Arm used for BP: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Right	1728	85.0	85.4	85.4
Valid 2 Left	295	14.5	14.6	100.0
Total	2023	99.5	100.0	
Missing -1 NS/NK	11	.5		
Total	2034	100.0		







The session end time is recorded in variables ff1bp160a (hour) and ff1bp160b (minutes).

## 2.5 Arteries session

### 2.5.1 Carotid Intima-Media Thickness

Both the left and right common carotid artery scans were obtained via high-resolution B ultrasound and imaged longitudinally 1 cm proximal to the carotid bifurcation following a standardized protocol using a ZONARE z.one Ultra convertible ultrasound system with L10-5 linear transducer. Images were focused on the posterior (far) wall of the artery and the zoom function was used to magnify the area. Ten-second cine loops were recorded in DICOM format and analyzed offline using Carotid Analyzer for Research (Vascular Research Tools 5, Medical Imaging Applications, LLC 2008). Three consecutive cardiac cycles were identified and three measures of CIMT were taken from end-diastolic frames and averaged. This was done for both right and left carotid arteries. Arterial distensibility was calculated as the difference between systolic and diastolic arterial diameter. The mean of the left- and right-sided readings was used in analyses. The images were analyzed by a single trained reader.

The session start time is recorded in variables ff1cv110a (hour) and ff1cv110b (minutes).

**ff1cv001 Cardiovascular measures fieldworker CIMT: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1	1	.0	.0	.0
4	1	.0	.0	.1
5	318	15.6	15.9	16.0
6	9	.4	.4	16.4
7	430	21.1	21.5	37.9
8	258	12.7	12.9	50.7
9	84	4.1	4.2	54.9
10	2	.1	.1	55.0
Valid 11	314	15.4	15.7	70.7
12	91	4.5	4.5	75.2
13	1	.0	.0	75.3
14	257	12.6	12.8	88.1
15	1	.0	.0	88.2
18	113	5.6	5.6	93.8
19	124	6.1	6.2	100.0
Total	2004	98.5	100.0	
Missing -1 NS/NK	30	1.5		
Total	2034	100.0		

**ff1cv100 Consent for CIMT ultrasound: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1 Yes	2028	99.7	99.7	99.7
Valid 2 No	6	.3	.3	100.0
Total	2034	100.0	100.0	

**ff1cv105 CIMT ultrasound machine used: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Scanner 1	1103	54.2	56.1	56.1
	2 Scanner 2	863	42.4	43.9	100.0
	Total	1966	96.7	100.0	
Missing	-1 NS/NK	68	3.3		
Total		2034	100.0		

**ff1cv111 Right sided CIMT data successfully captured: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1919	94.3	98.6	98.6
	2 No	28	1.4	1.4	100.0
	Total	1947	95.7	100.0	
Missing	-1 NS/NK	87	4.3		
Total		2034	100.0		

**ff1cv112 Reason right CIMT was not performed: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	-2 CIMT done	1981	97.4	97.4	97.4
	1 Equipment problem	4	.2	.2	97.6
	2 Poor quality image	39	1.9	1.9	99.5
	3 Other	10	.5	.5	100.0
	Total	2034	100.0	100.0	

**ff1cv113 Left sided CIMT data successfully captured: FOF1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1913	94.1	98.4	98.4
	2 No	32	1.6	1.6	100.0
	Total	1945	95.6	100.0	
Missing	-1 NS/NK	89	4.4		
Total		2034	100.0		

**ff1cv114 Reason left CIMT was not performed: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
-2 CIMT done	1980	97.3	97.3	97.3
1 Equipment problem	4	.2	.2	97.5
Valid 2 Poor quality image	37	1.8	1.8	99.4
3 Other	13	.6	.6	100.0
Total	2034	100.0	100.0	

The session end time is recorded in variables ff1cv160a (hour) and ff1cv160b (minutes).

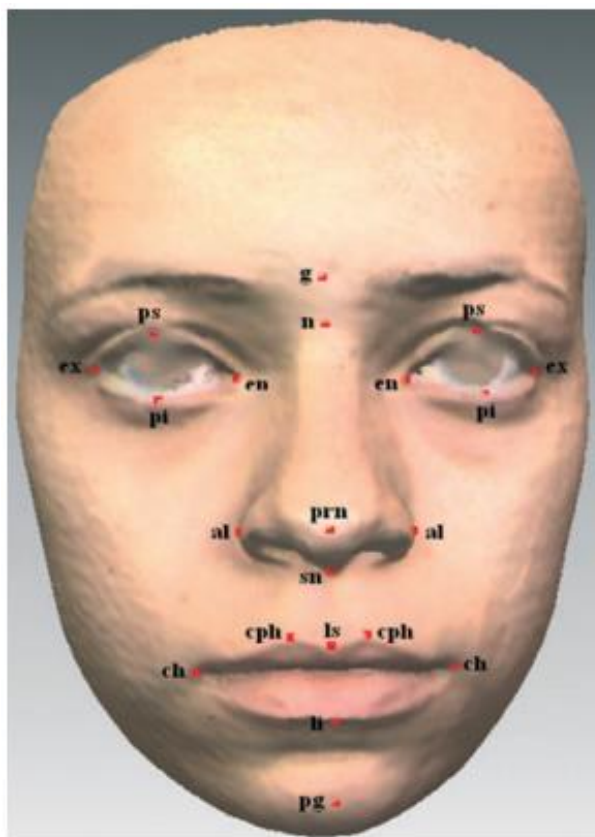
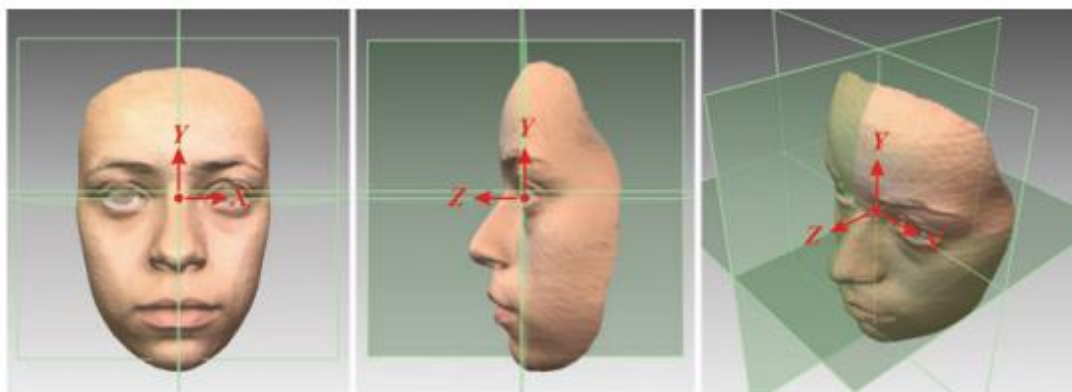
This data is yet be cleaned but will be released as soon as it has been.

## 2.6 Face shape

### 2.6.1 Face shape

A 3D facial surface scan was obtained using two high-resolution Konica Minolta Vivid (VI900) laser scanners (Konica Minolta Sensing Europe Company, Milton Keynes, United Kingdom). For a detailed summary of the methods and description of the how coordinates were derived, please see: Toma, A. M., Zhurov, A., Playle, R., Ong, E., & Richmond, S. (2009). Reproducibility of facial soft tissue landmarks on 3D laser-scanned facial images. *Orthodontics & craniofacial research*, 12(1), 33-42.

The pictures below indicate the reference point for all coordinates (the mid-intercanthal point; upper figures) and the key landmarks utilised (lower figure and text).



#### Landmarks

- Glabella (g)
- Nasion (n)
- Endocanthion (en) L/R
- Exocanthion (ex) L/R
- Palpebrale superius (ps) L/R
- Palpebrale inferius (pi) L/R
- Pronasale (prn)
- Subnasale (sn)
- Alare (al) L/R
- Labiale superius (ls)
- Labiale inferius (li)
- Crista philtri (cph) L/R
- Cheilion (ch) L/R
- Pogonion (pg)

#### Definition

- Most prominent midline point between eyebrows
- Deepest point of nasal bridge
- Inner commissure of the left and right eye fissure
- Outer commissure of the left and right eye fissure
- Superior mid-portion of the free margin of upper left and right eyelids
- Inferior mid-portion of the free margin of lower left and right eyelids
- Most protruded point of the apex nasi
- Mid-point of angle at columella base
- Most lateral point on left and right alar contour
- Mid-point of the upper vermillion line
- Mid-point of the lower vermillion line
- Point on left and right elevated margins of the philtrum just above VL
- Point located at left and right labial commissure
- Most anterior mid-point of the chin



The session start time is recorded in variables ff1fs001a (hour) and ff1fs001b (minutes).

**ff1fs001 Face shape measures fieldworker: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
1	31	1.5	1.6	1.6
5	246	12.1	12.8	14.5
6	1	.0	.1	14.5
7	315	15.5	16.4	30.9
8	232	11.4	12.1	43.1
9	74	3.6	3.9	46.9
10	2	.1	.1	47.0
11	201	9.9	10.5	57.5
12	78	3.8	4.1	61.6
Valid 13	3	.1	.2	61.7
14	195	9.6	10.2	71.9
15	48	2.4	2.5	74.4
16	60	2.9	3.1	77.6
17	1	.0	.1	77.6
18	187	9.2	9.8	87.4
19	176	8.7	9.2	96.6
20	66	3.2	3.4	100.0
Total	1916	94.2	100.0	
Missing -1 NS/NK	118	5.8		
Total	2034	100.0		

**ff1fs100 Consent to Face Shape: FOF1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	2001	98.4	98.4	98.4
2 No	33	1.6	1.6	100.0
Total	2034	100.0	100.0	

**ff1fs110 Face shape data captured: FOF1**

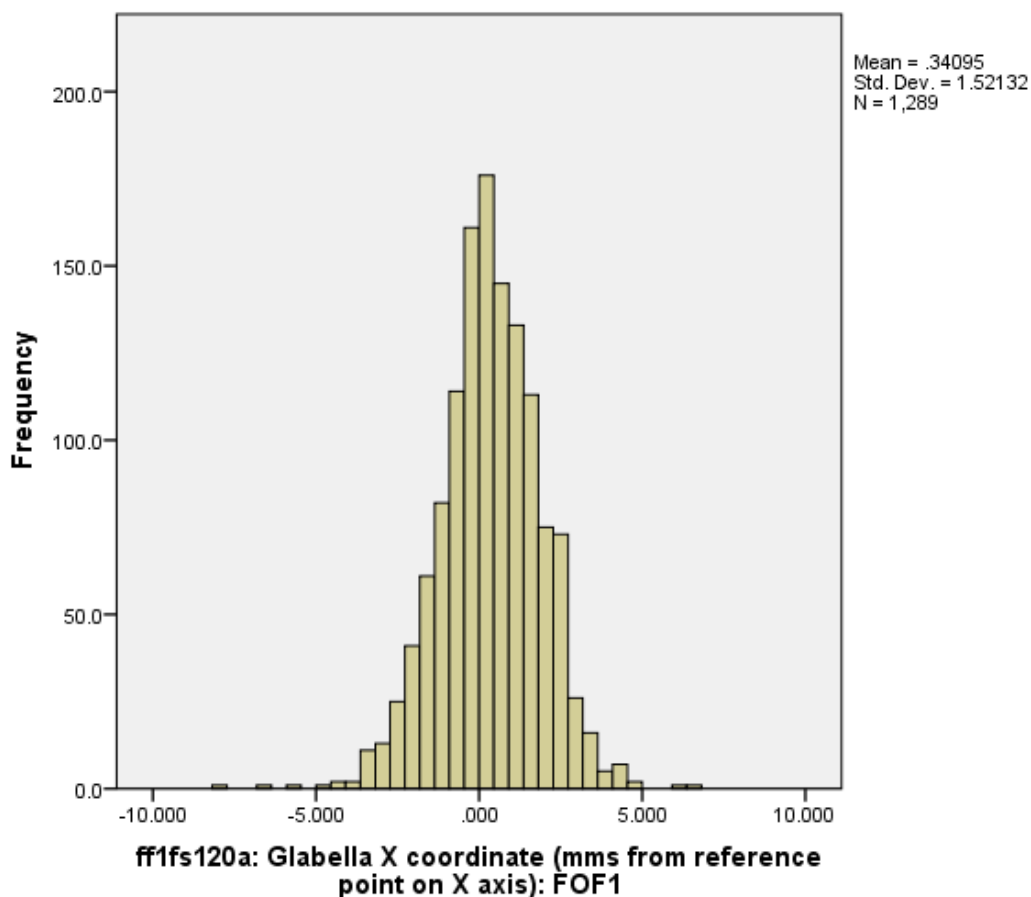
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1 Yes	1907	93.8	95.3	95.3
2 No	94	4.6	4.7	100.0
Total	2001	98.4	100.0	
Missing -2 No consent for face shape data	33	1.6		
Total	2034	100.0		

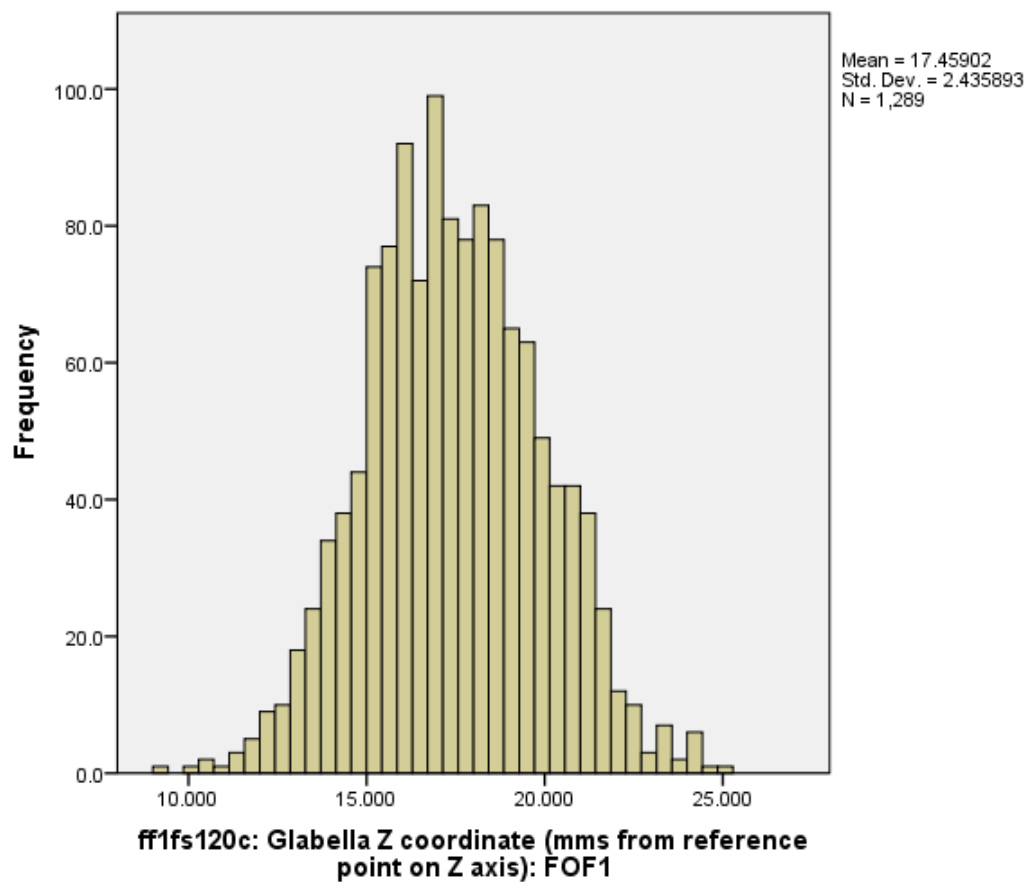
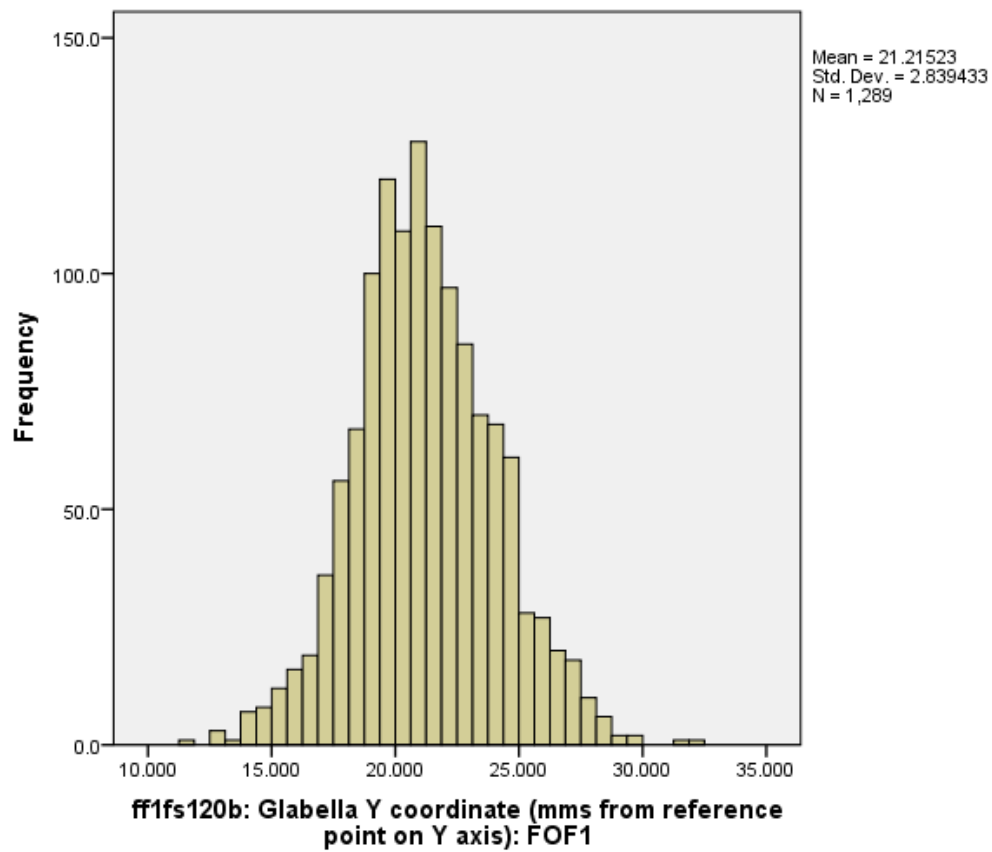
**ff1fs111 Reason Face Shape not performed: FOF1**

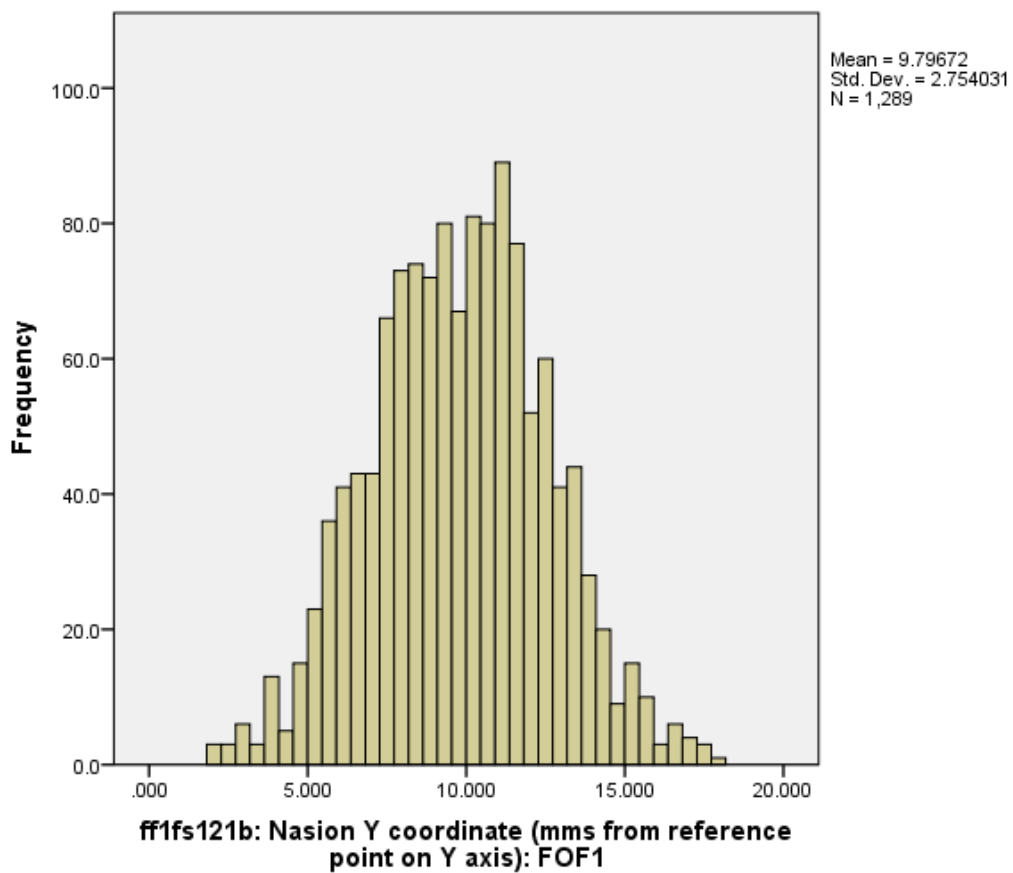
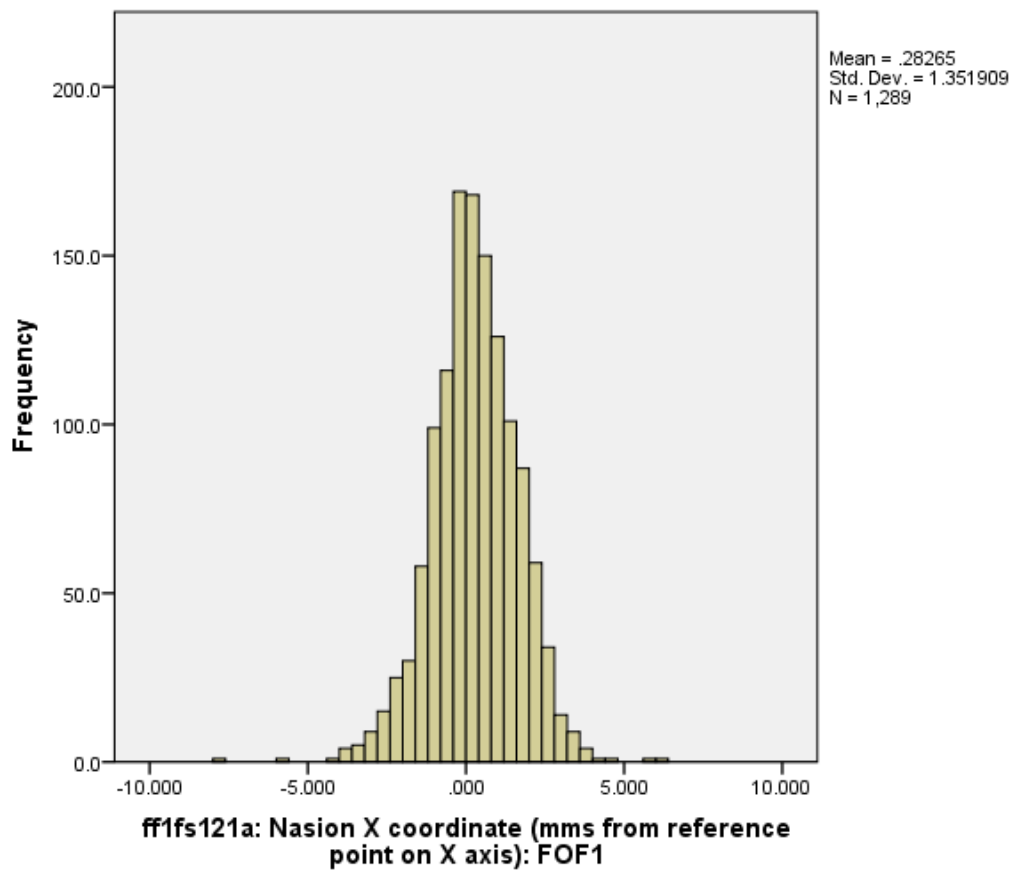
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Equipment problem	51	2.5	75.0	75.0
	2 Poor quality image	3	.1	4.4	79.4
	4 Other	14	.7	20.6	100.0
	Total	68	3.3	100.0	
Missing	-1 NS/NK	1966	96.7		
Total		2034	100.0		

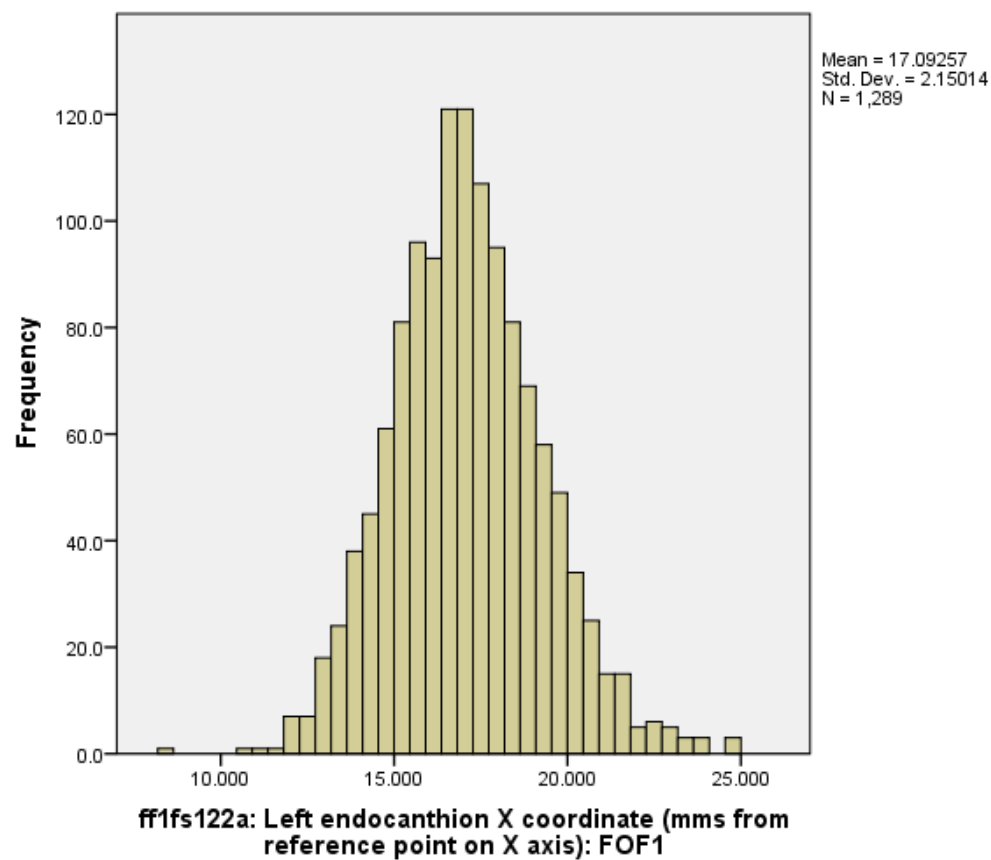
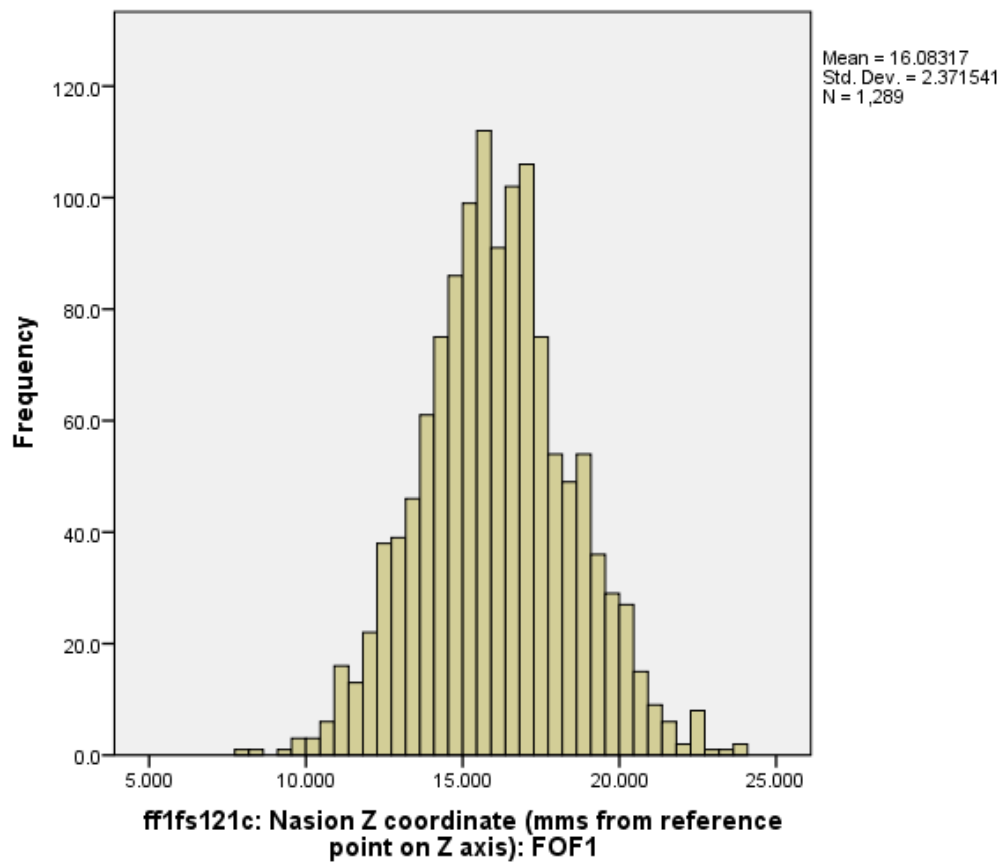
The session end time is recorded in variables ff1fs160a (hour) and ff1fs160b (minutes).

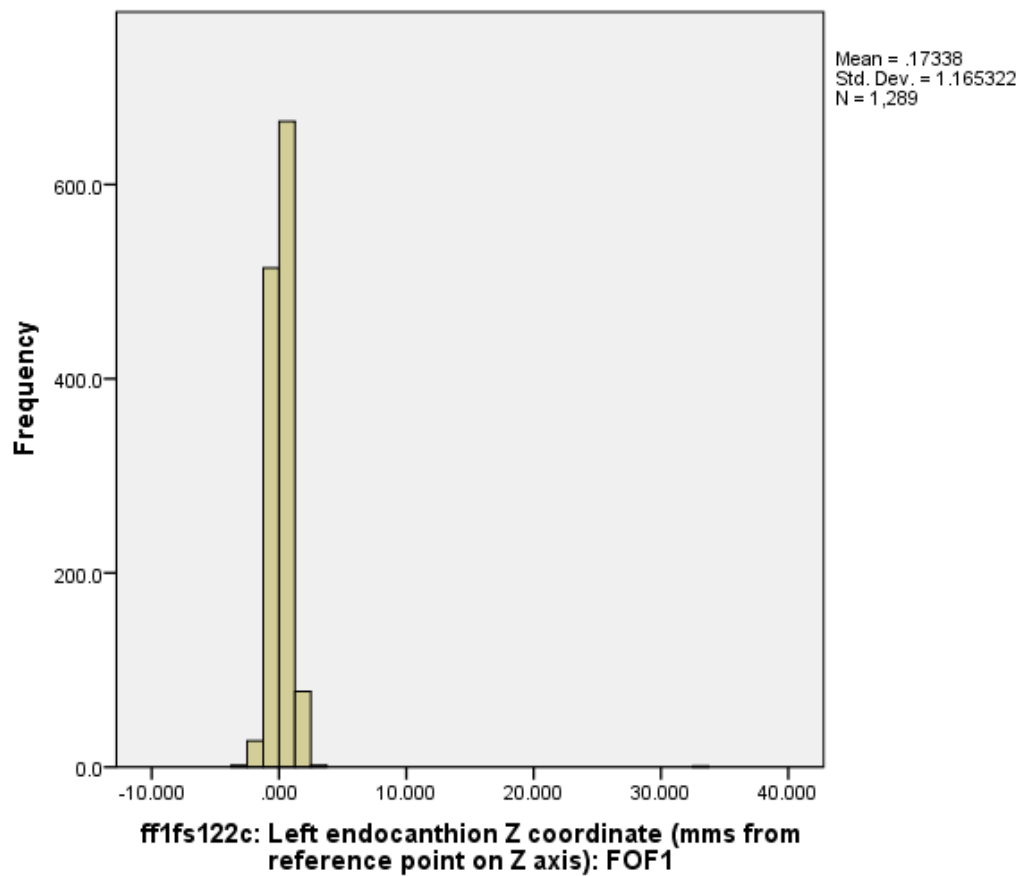
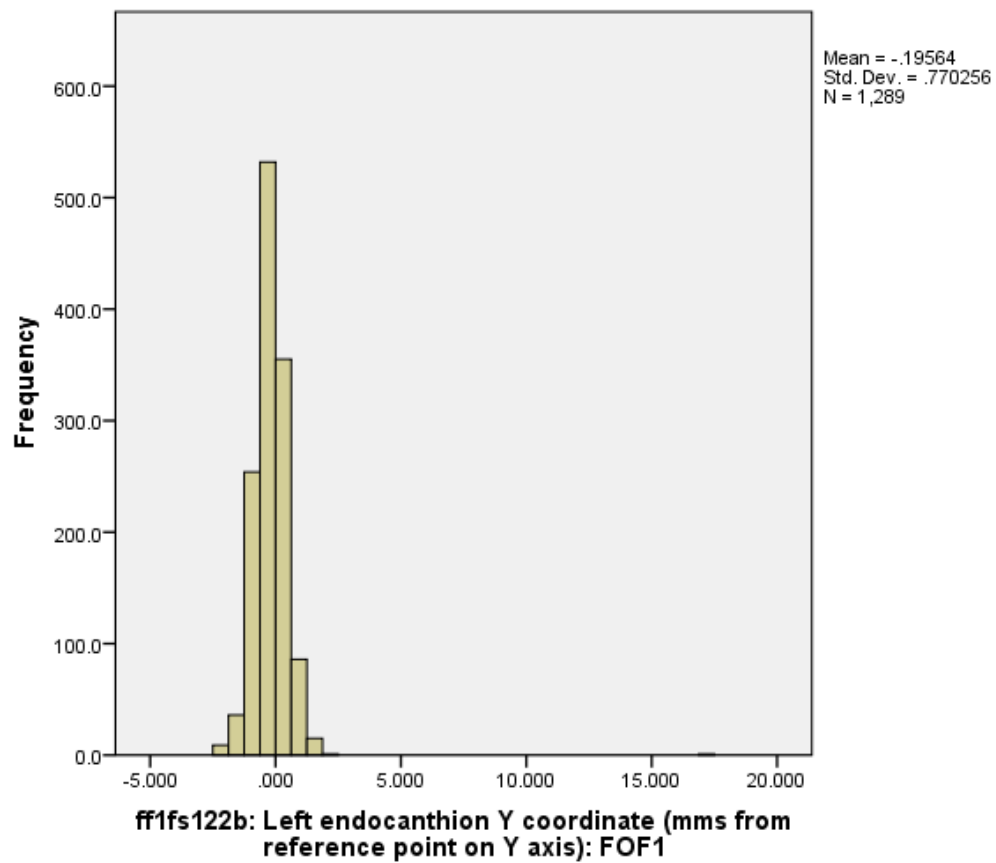
The next batch of histograms display the faceshape coordinate data for 1,289 fathers. Faceshape scans were performed on 1,907 fathers (see variable ff1fs110), however, ~650 scans were rejected during quality control (while an additional ~50 participants had equipment problems in the clinic meaning the faceshape scan could not be performed – see variable ff1fs111).

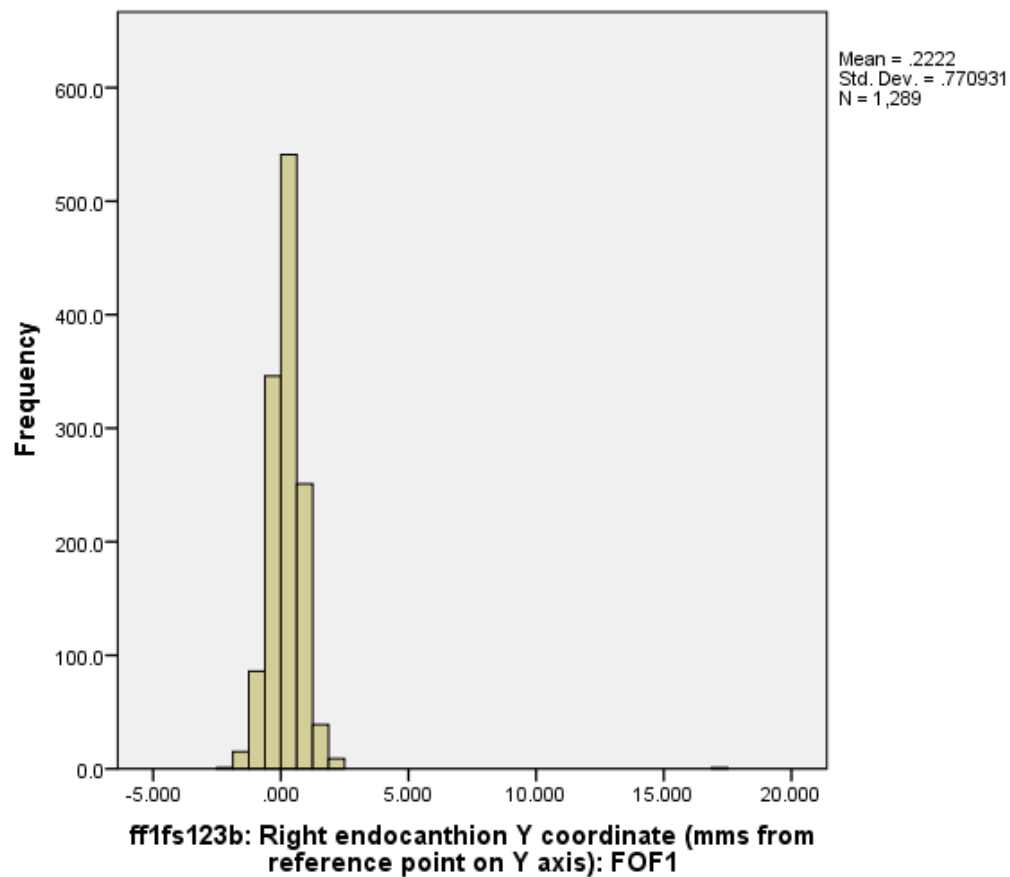
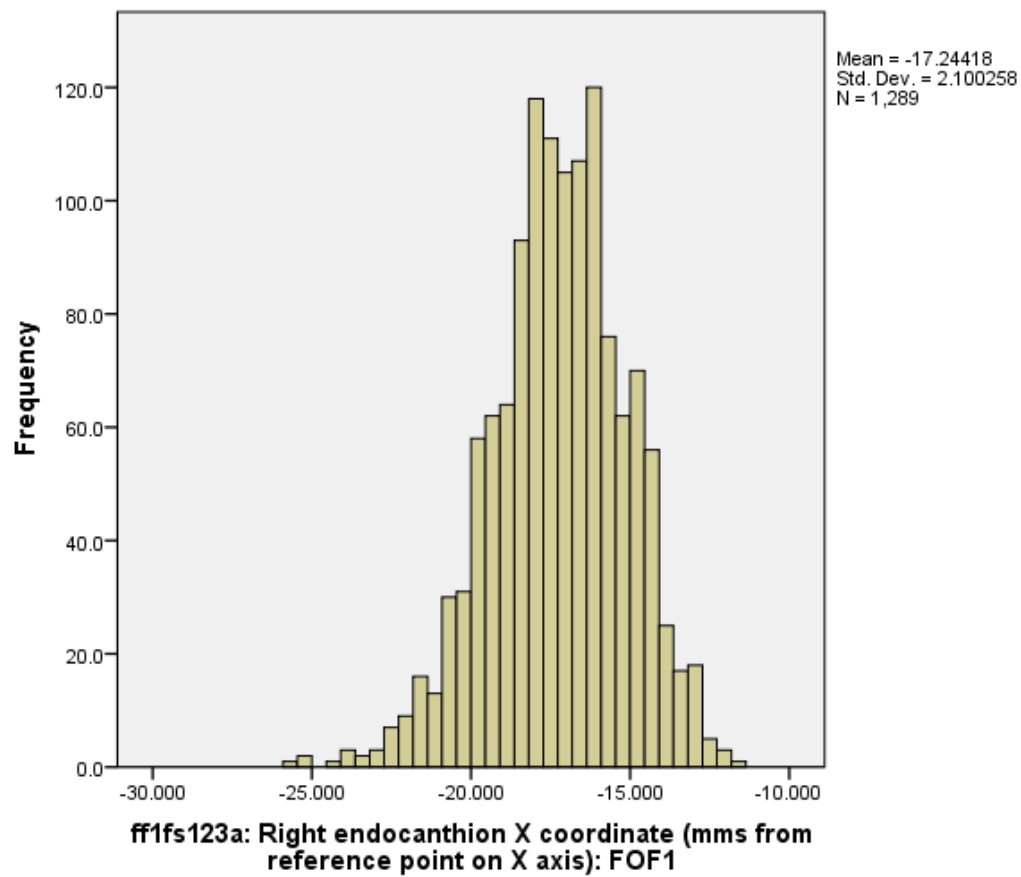


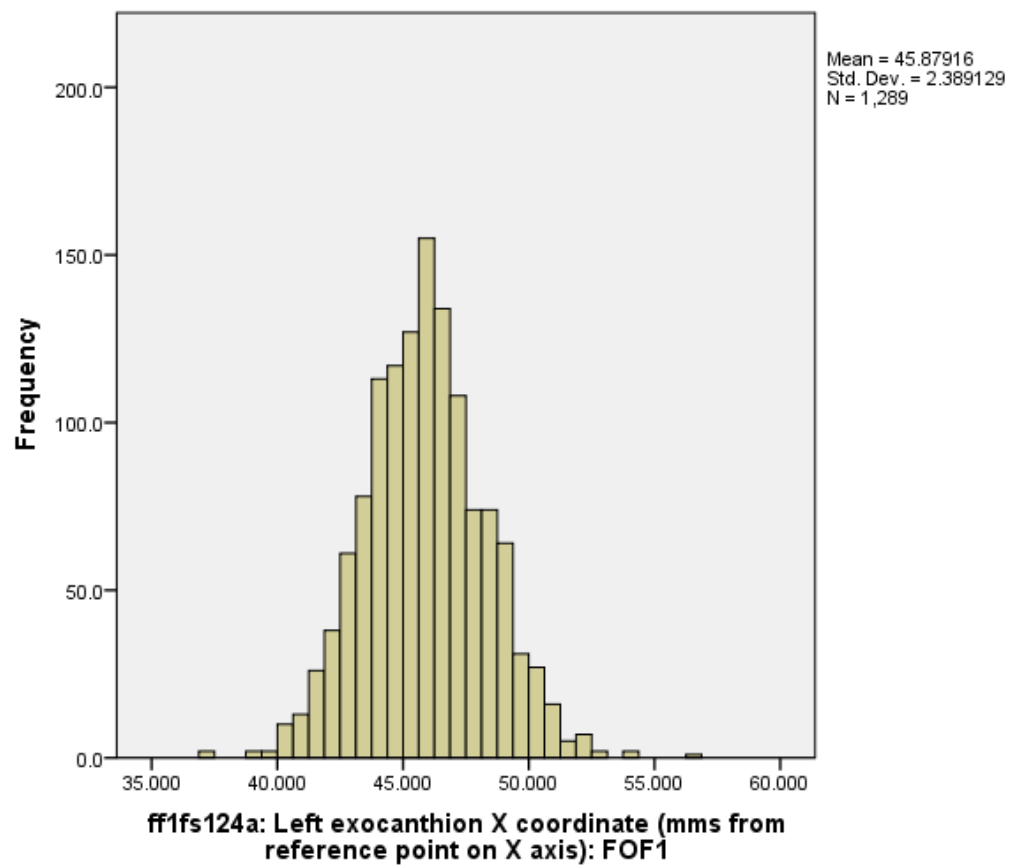
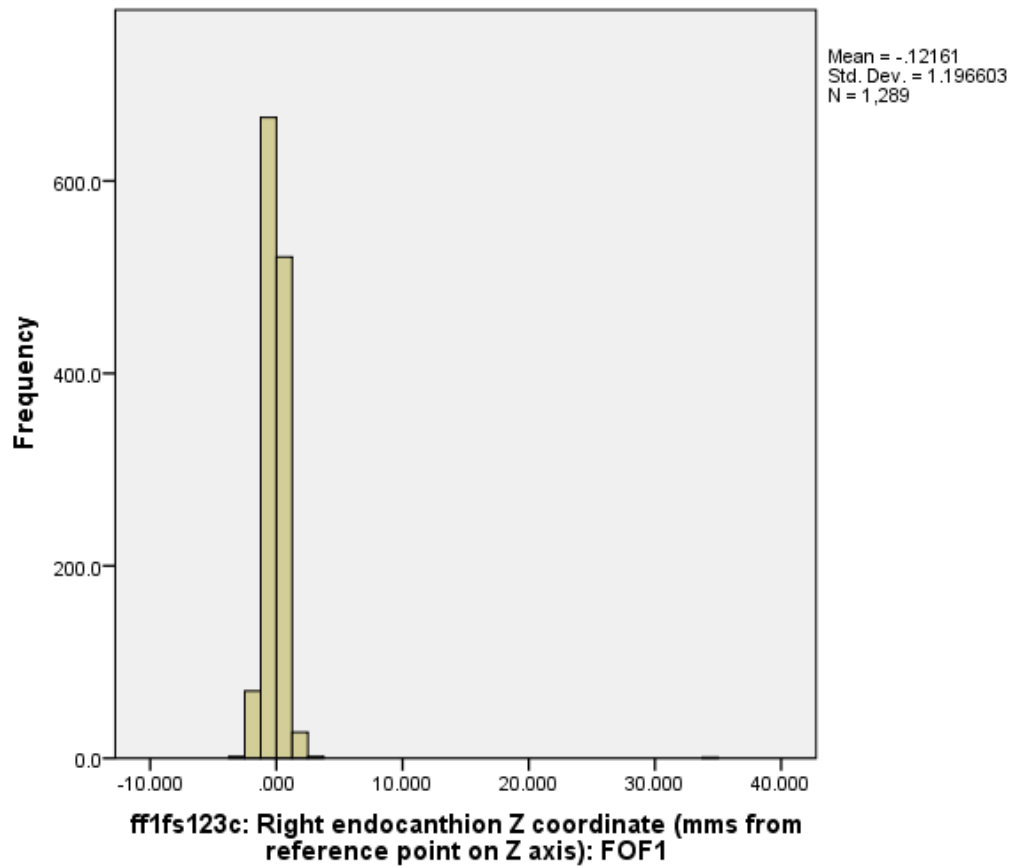




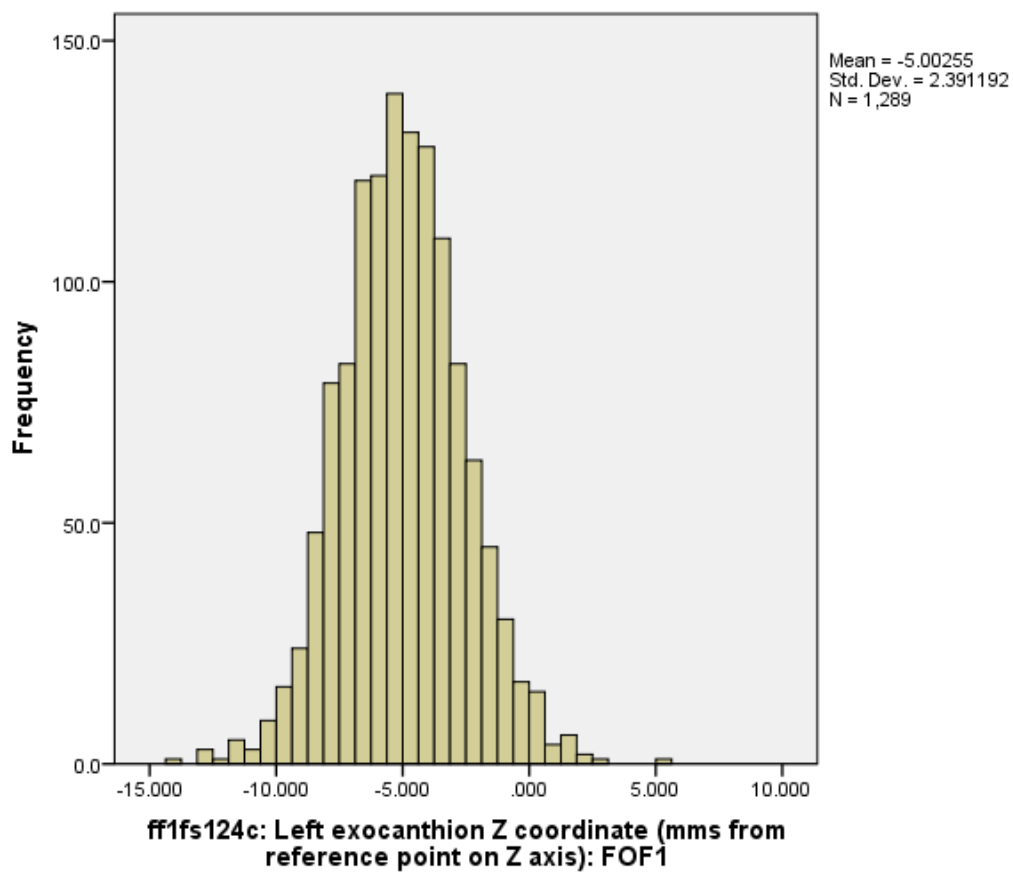
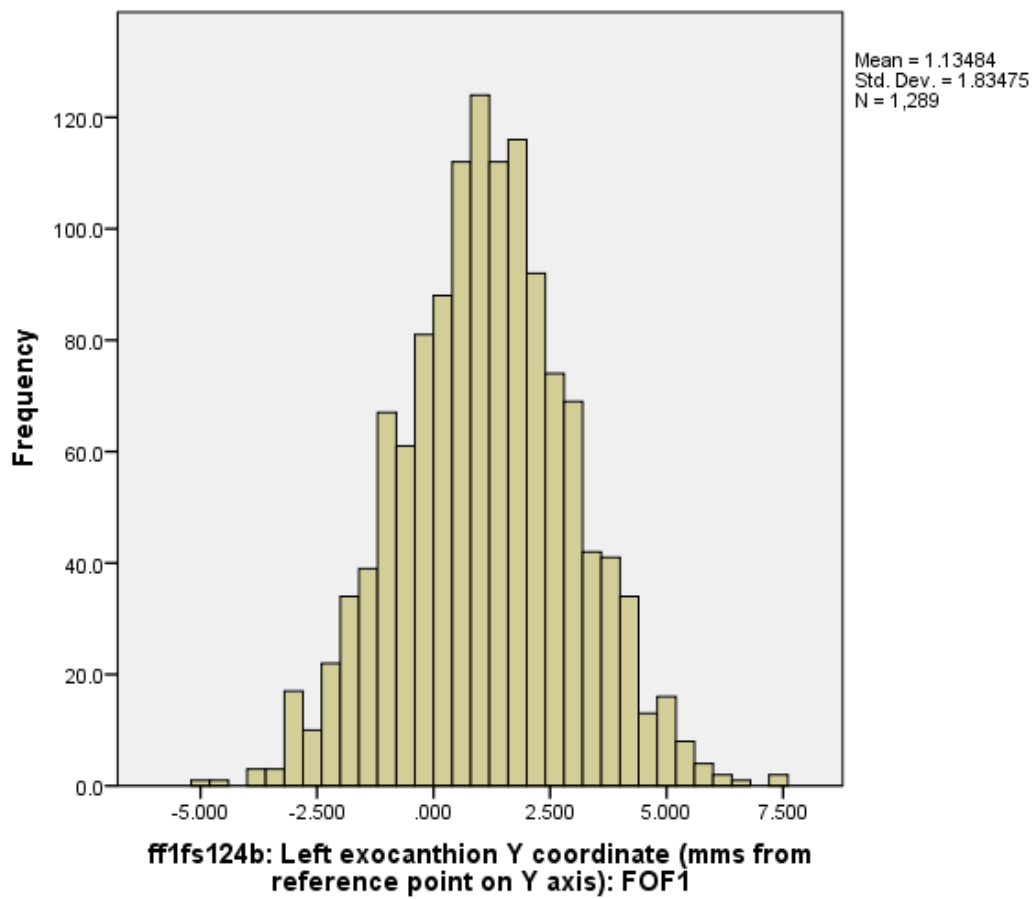


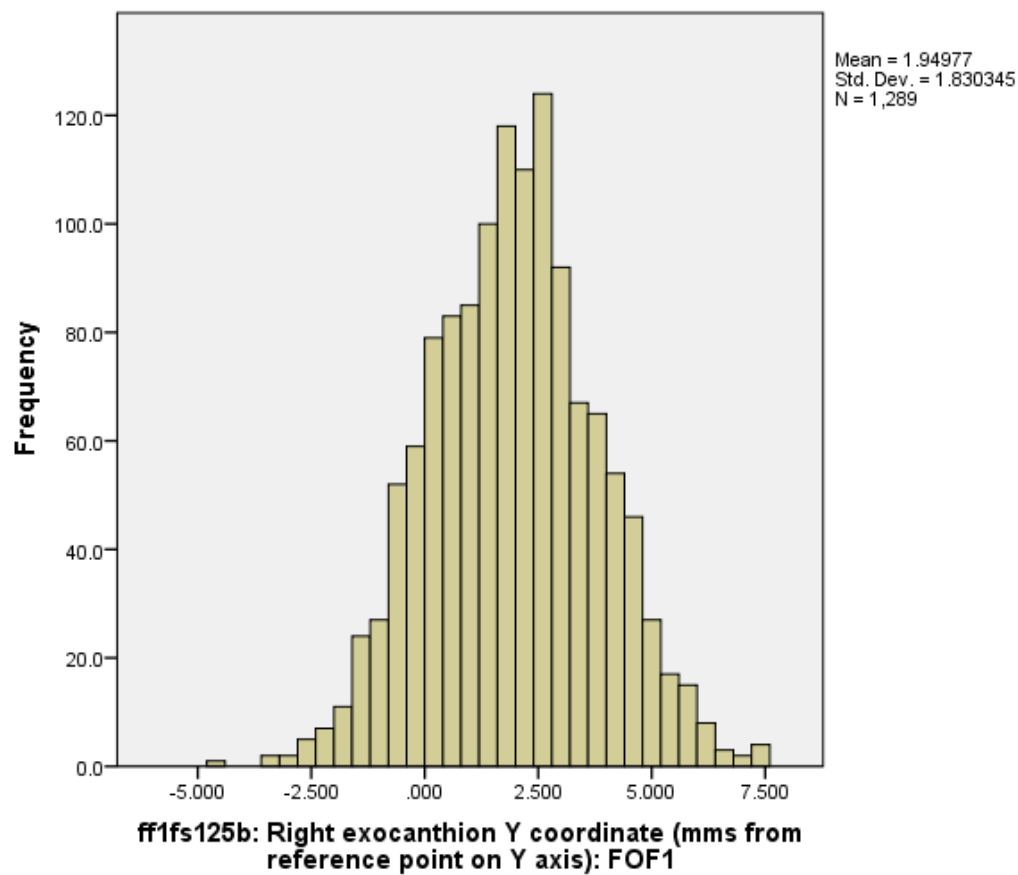
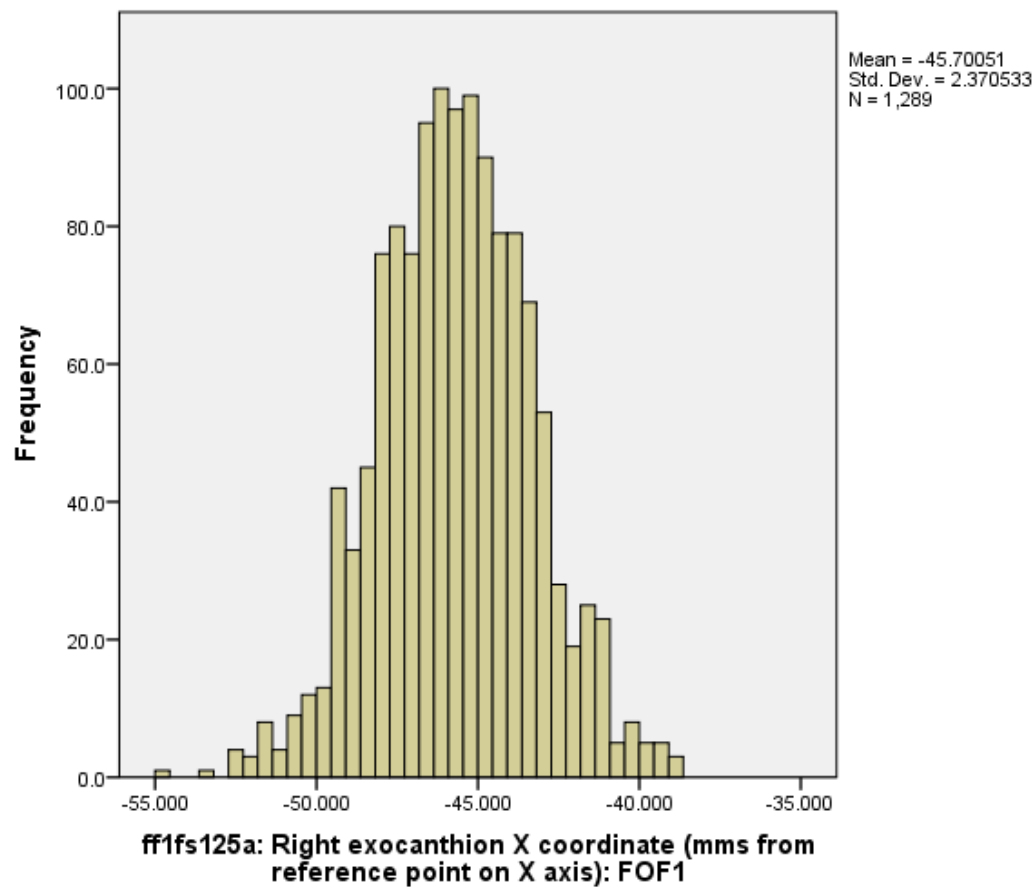


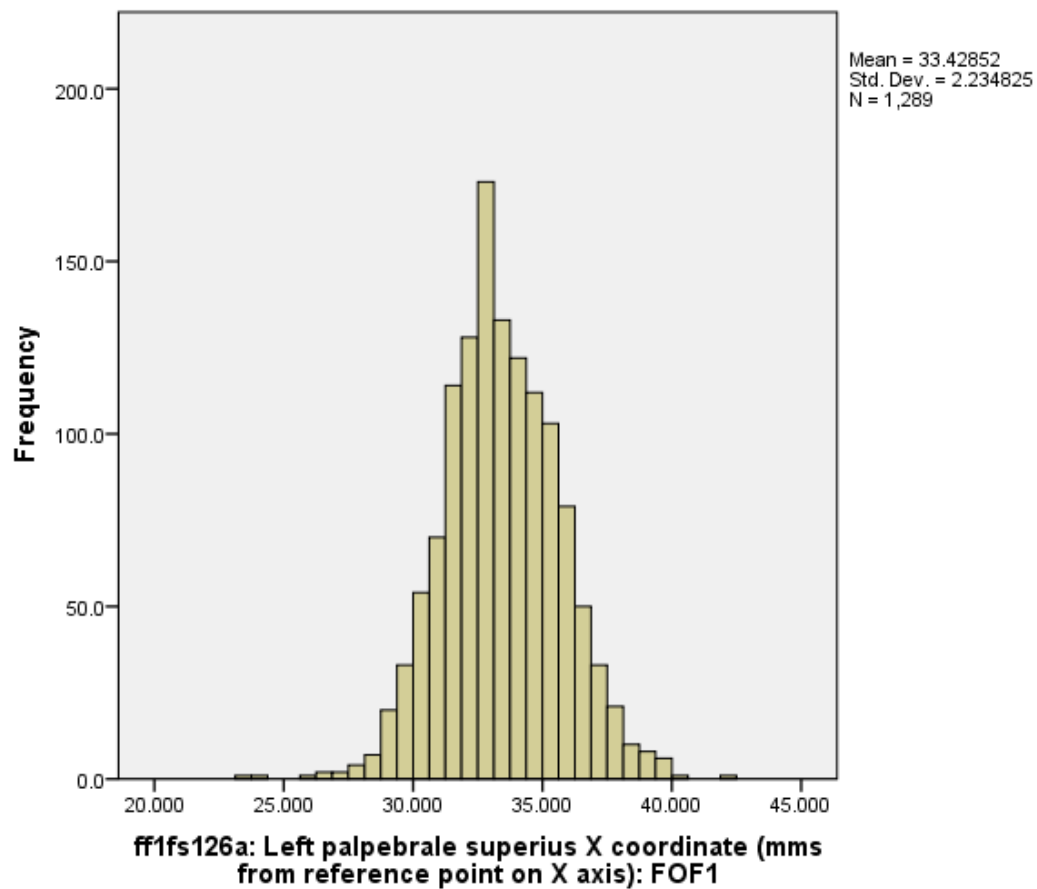
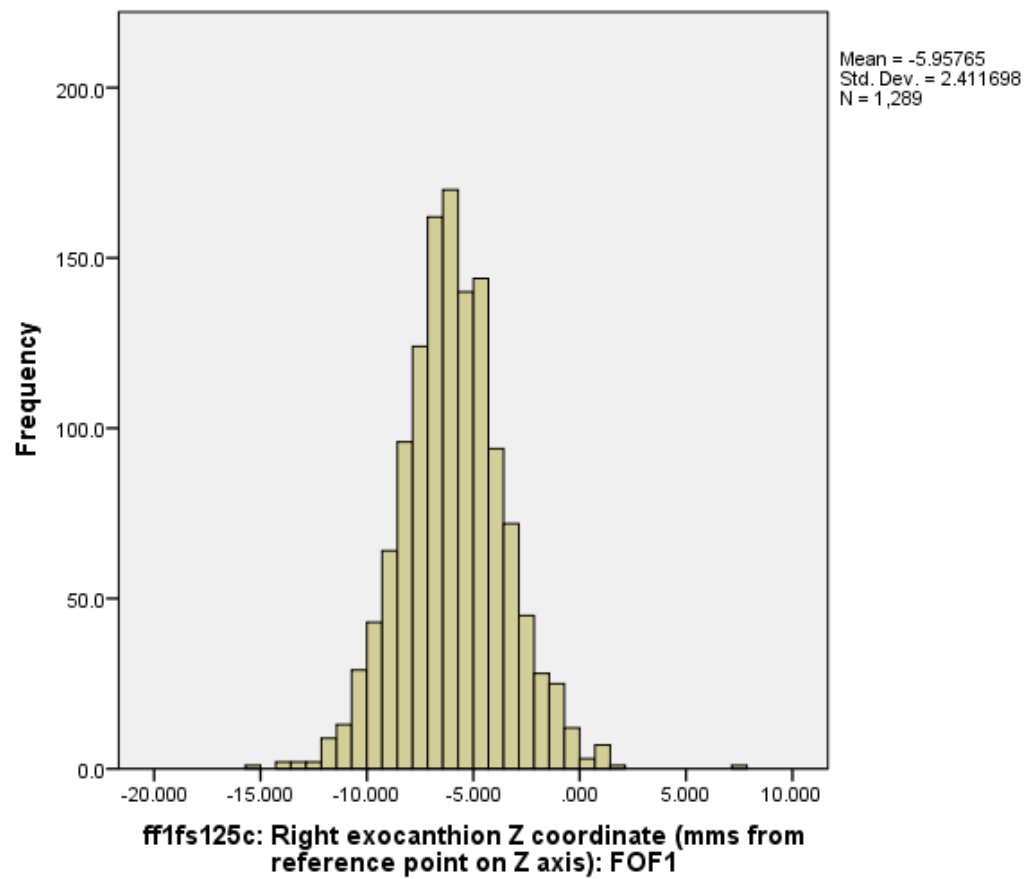


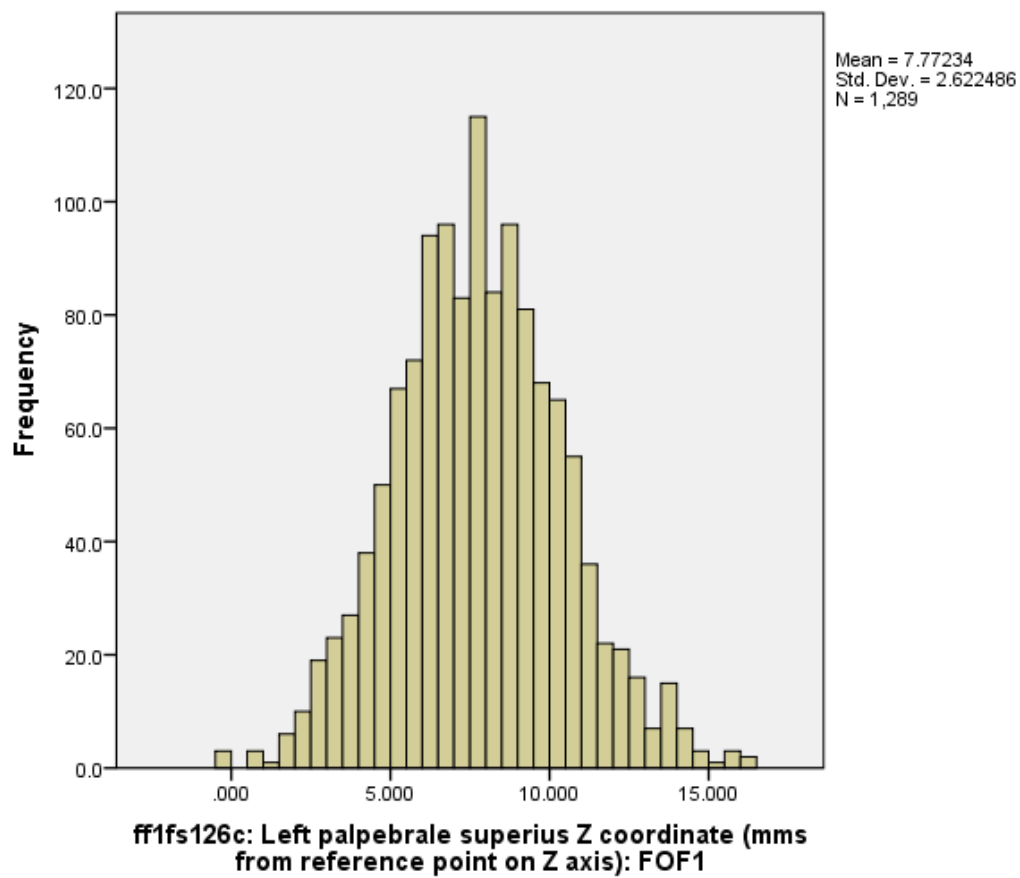
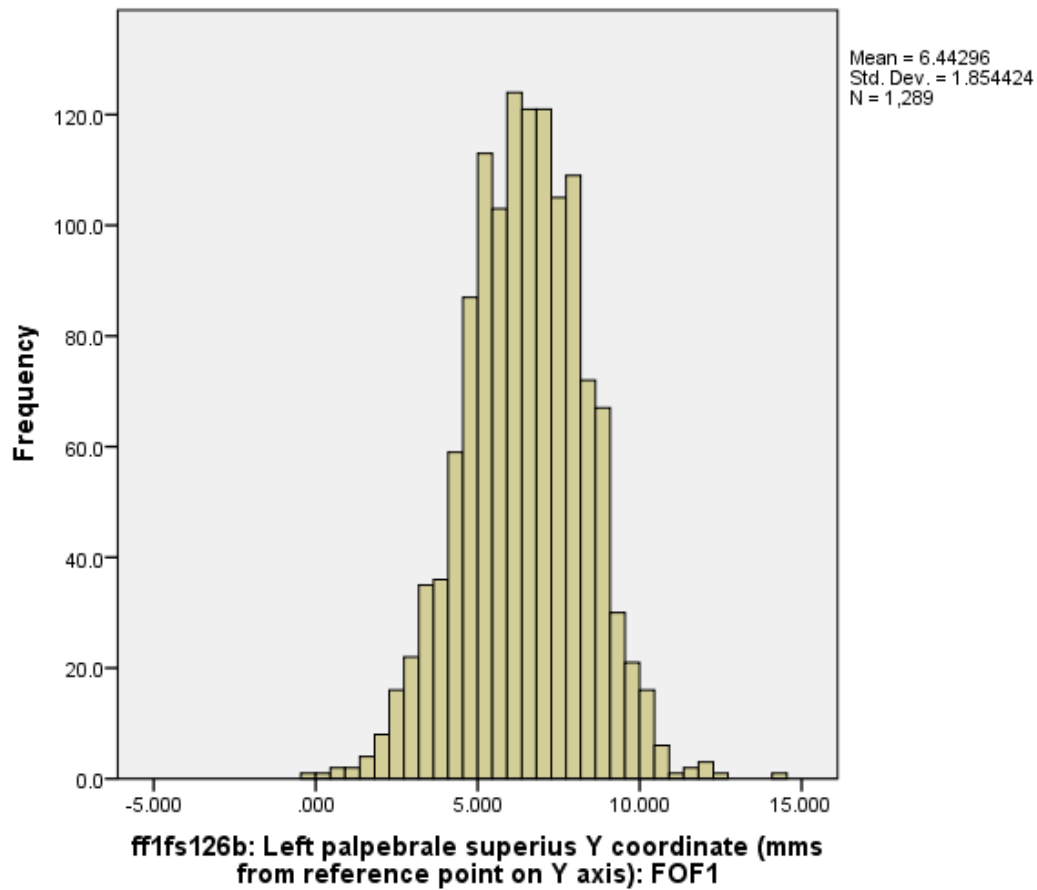


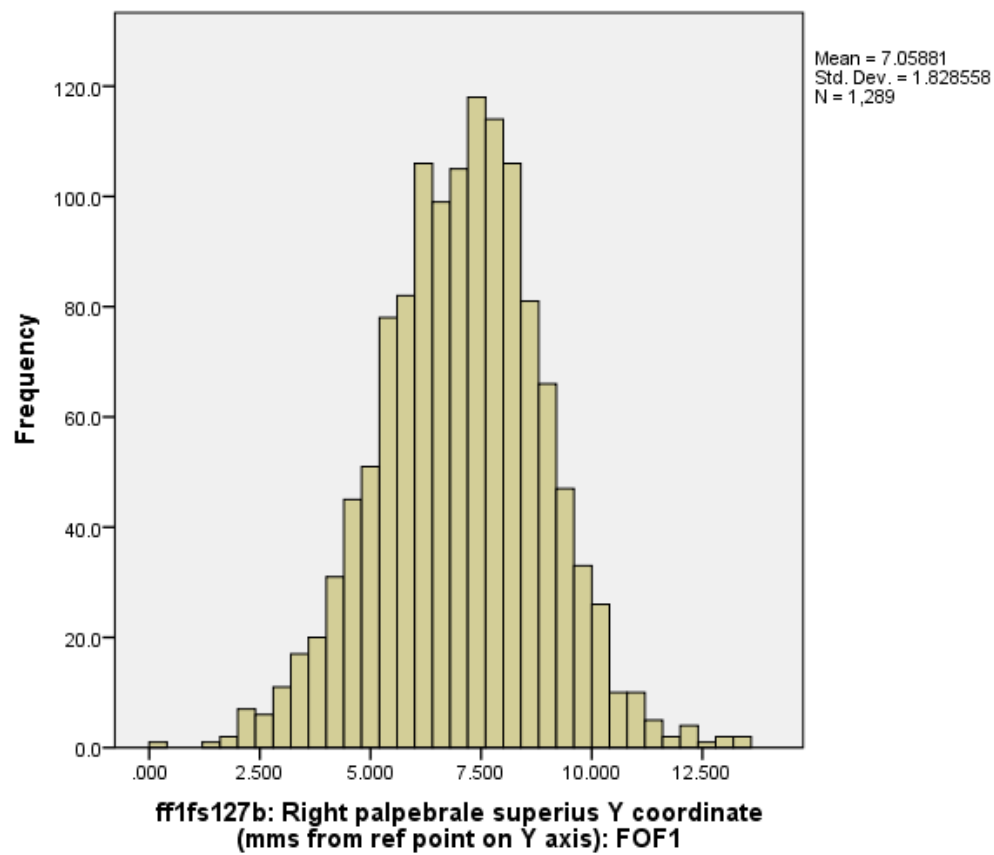
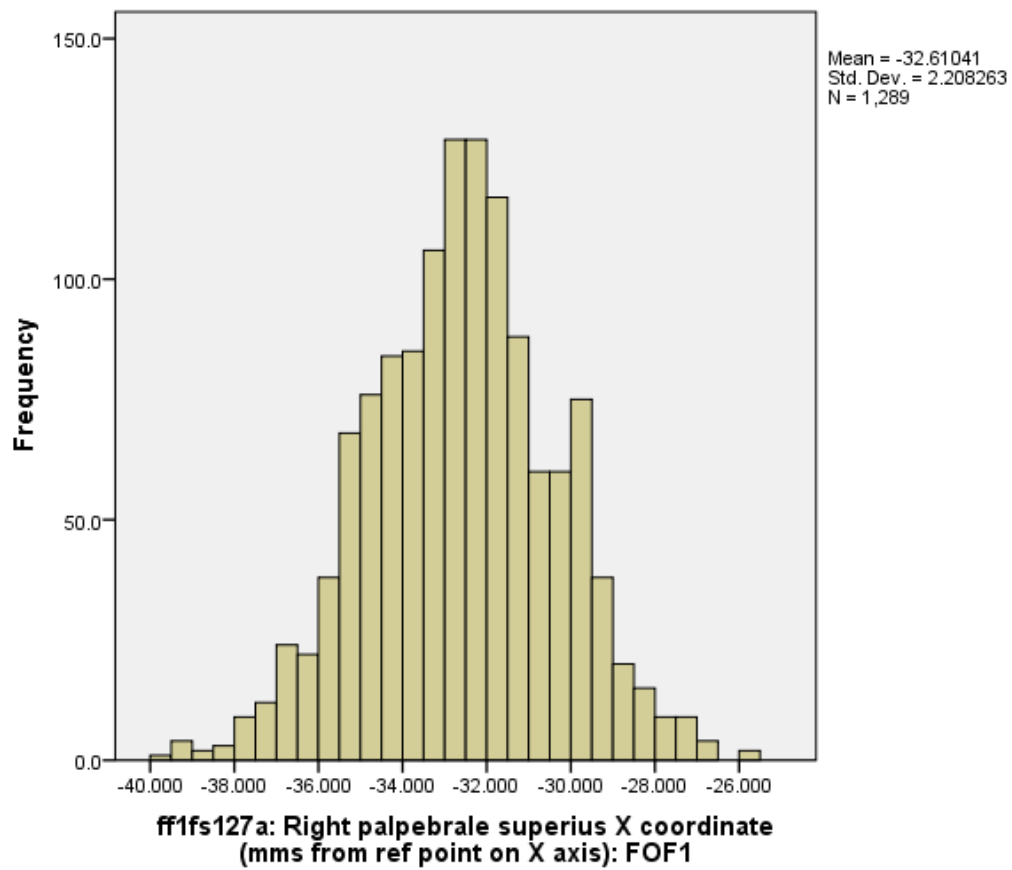


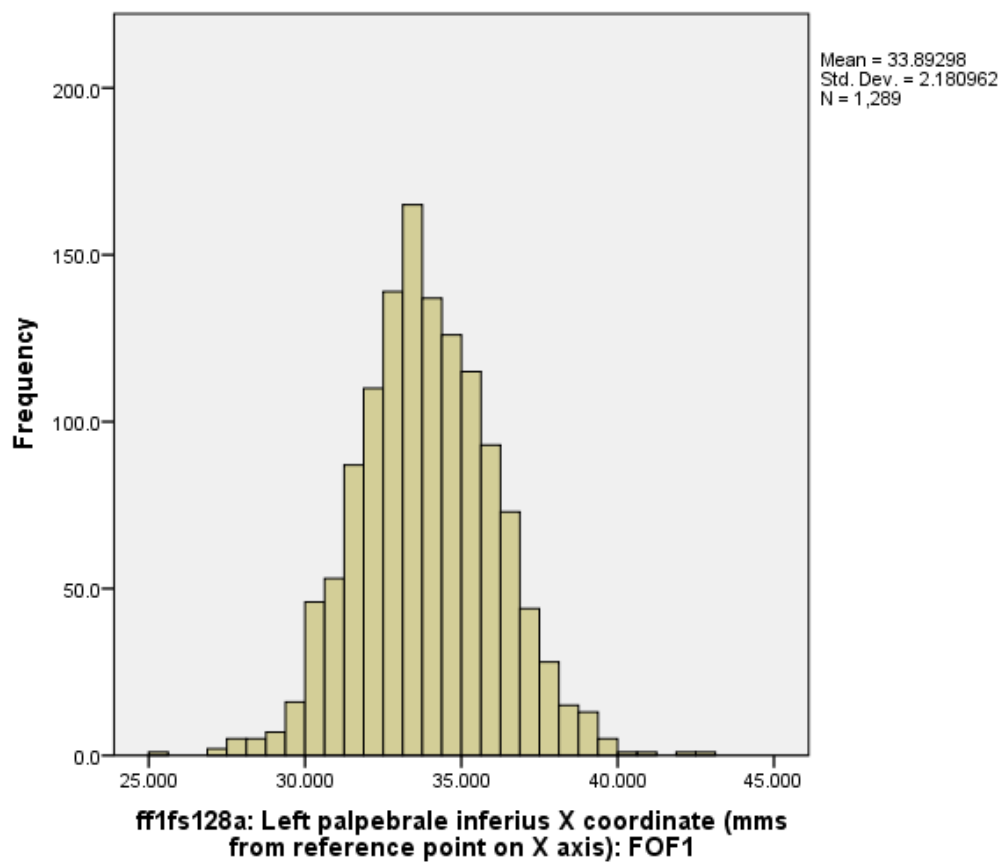
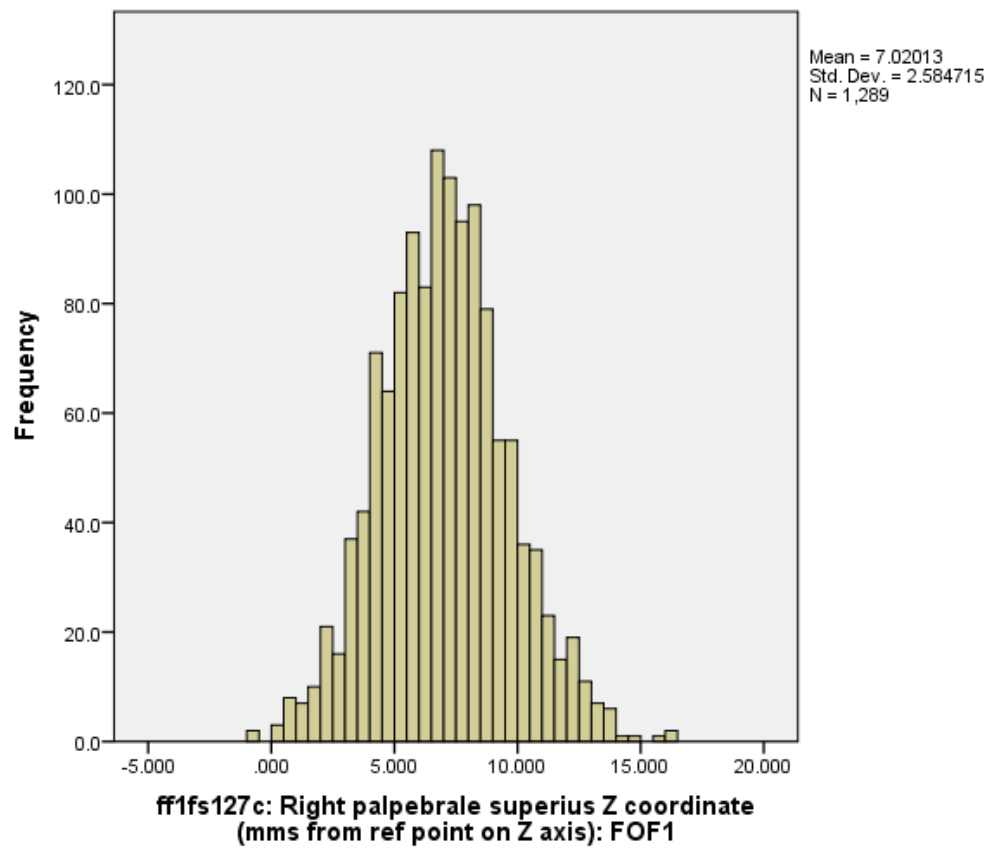


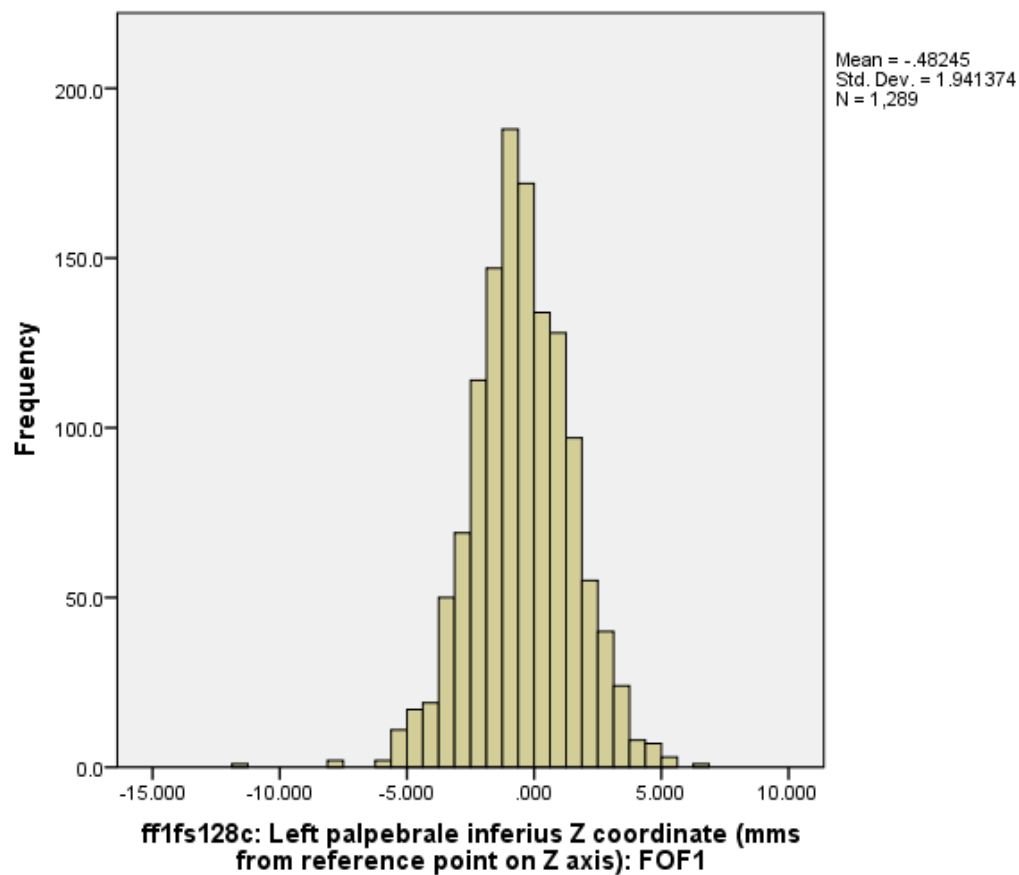
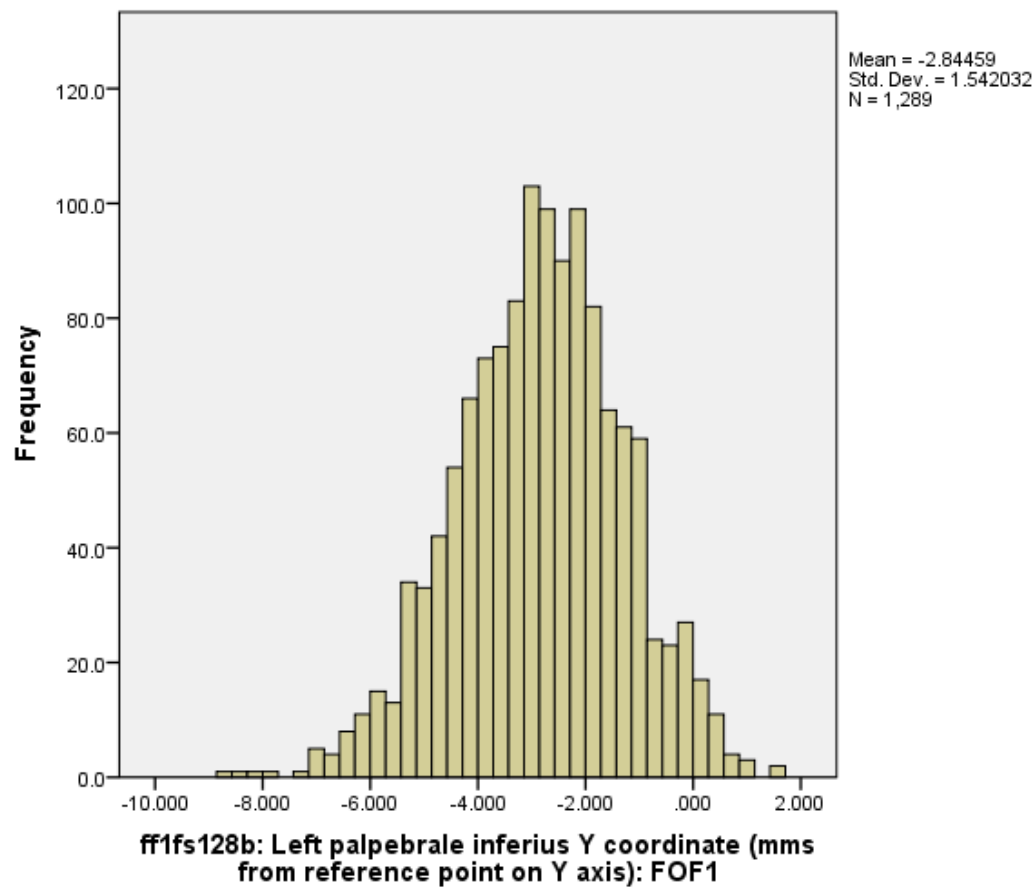


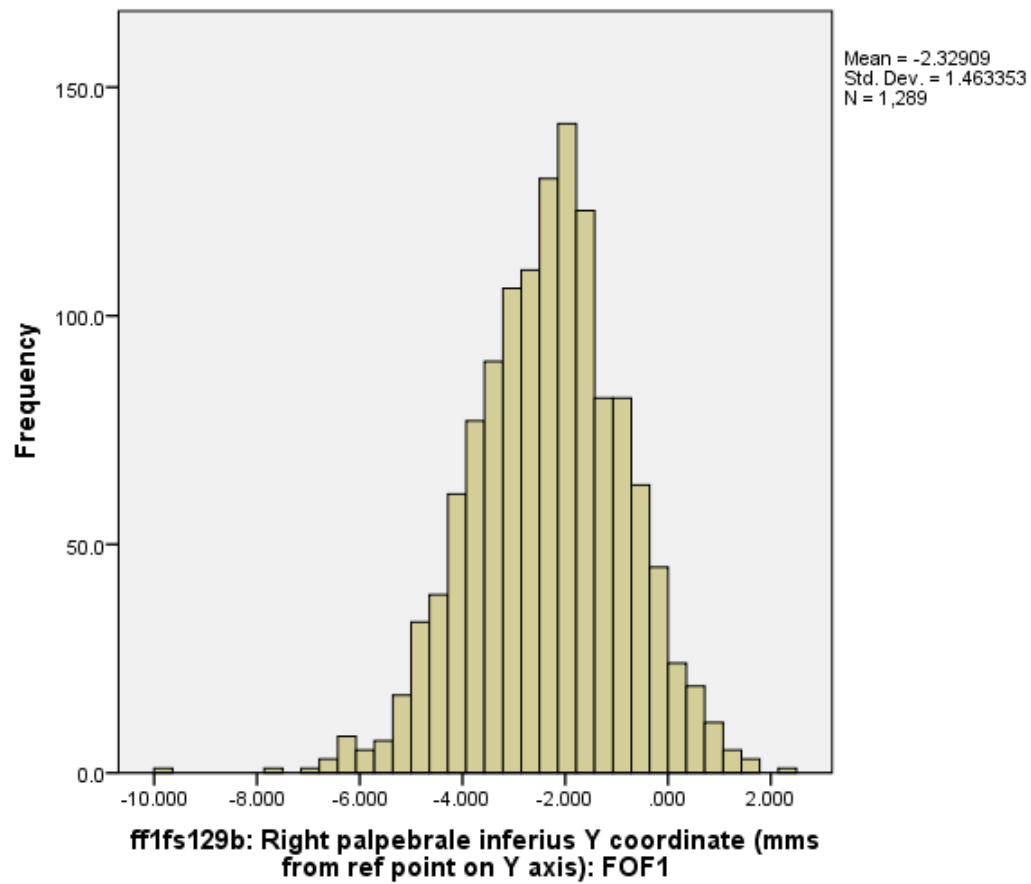
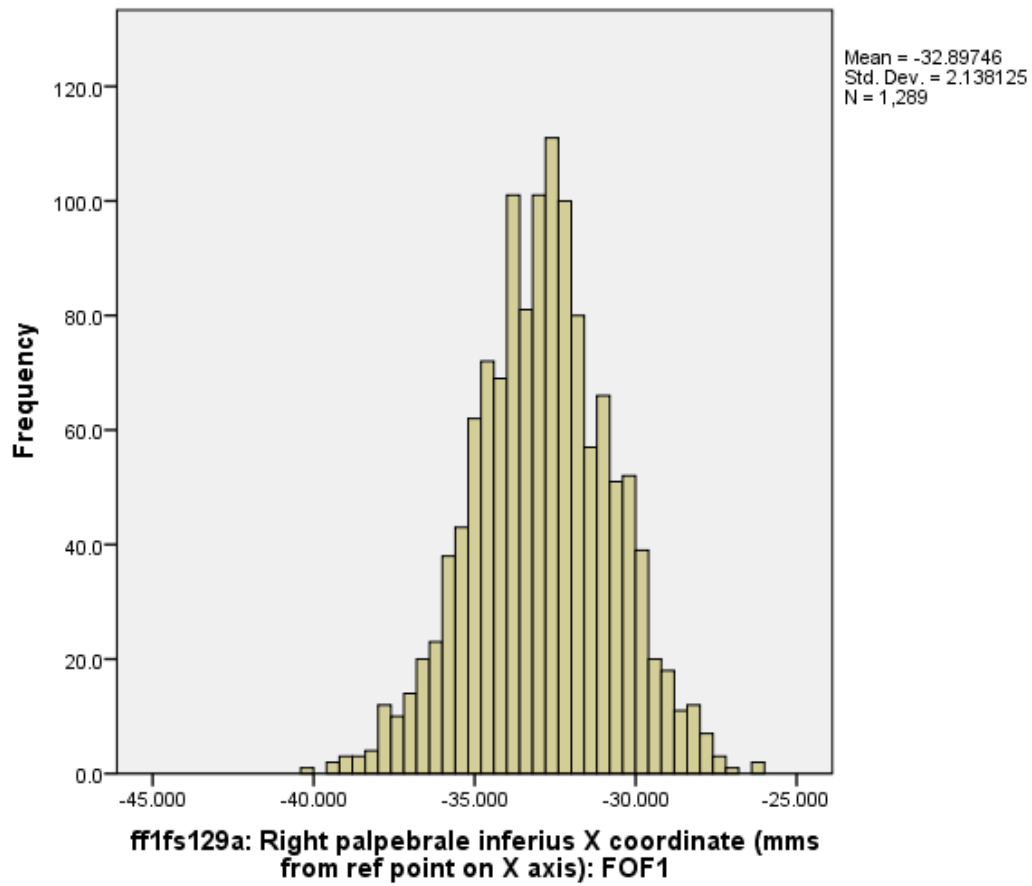




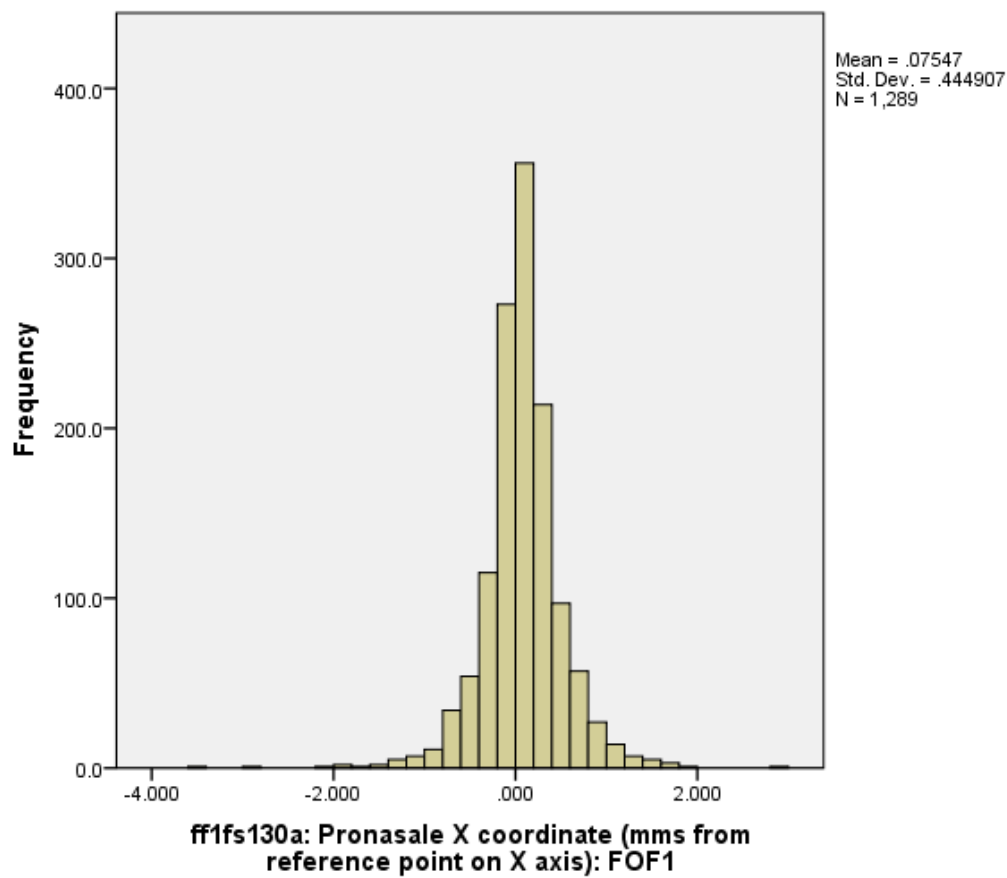
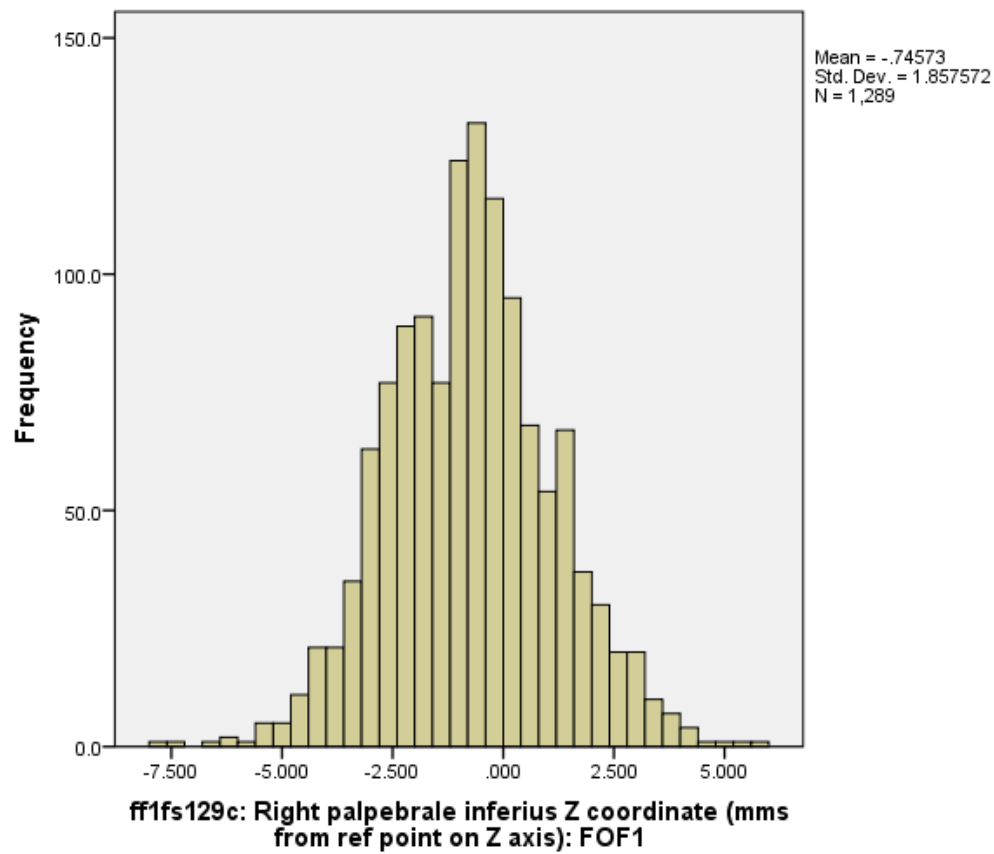


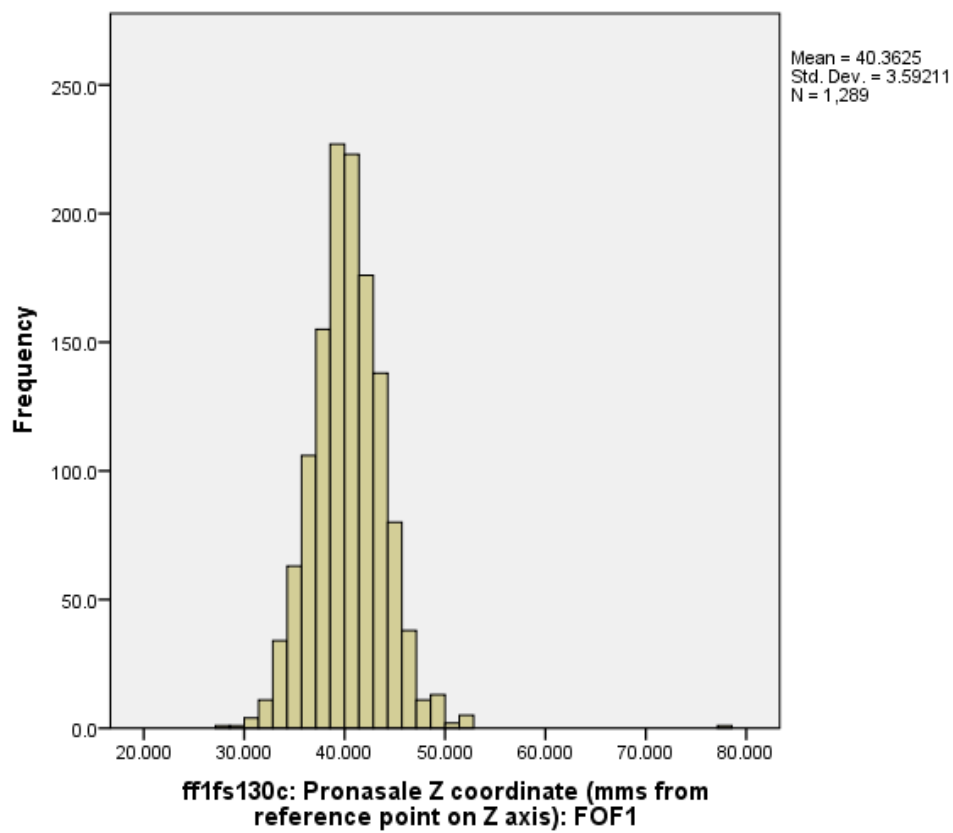
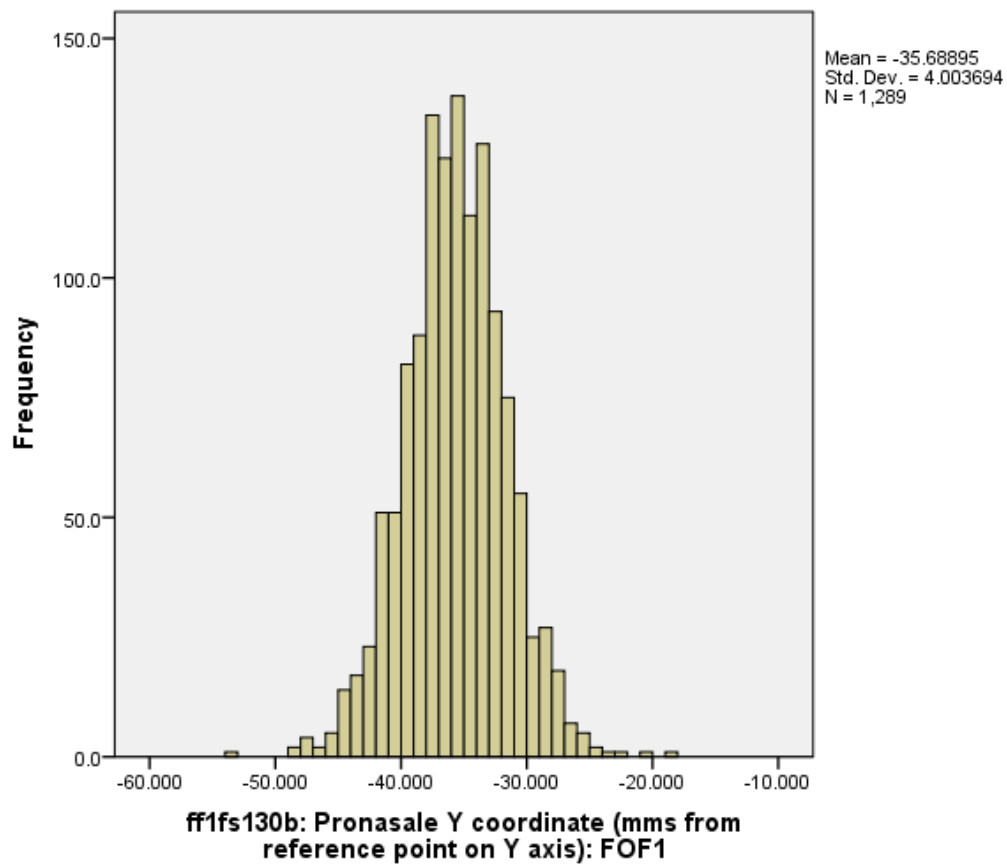


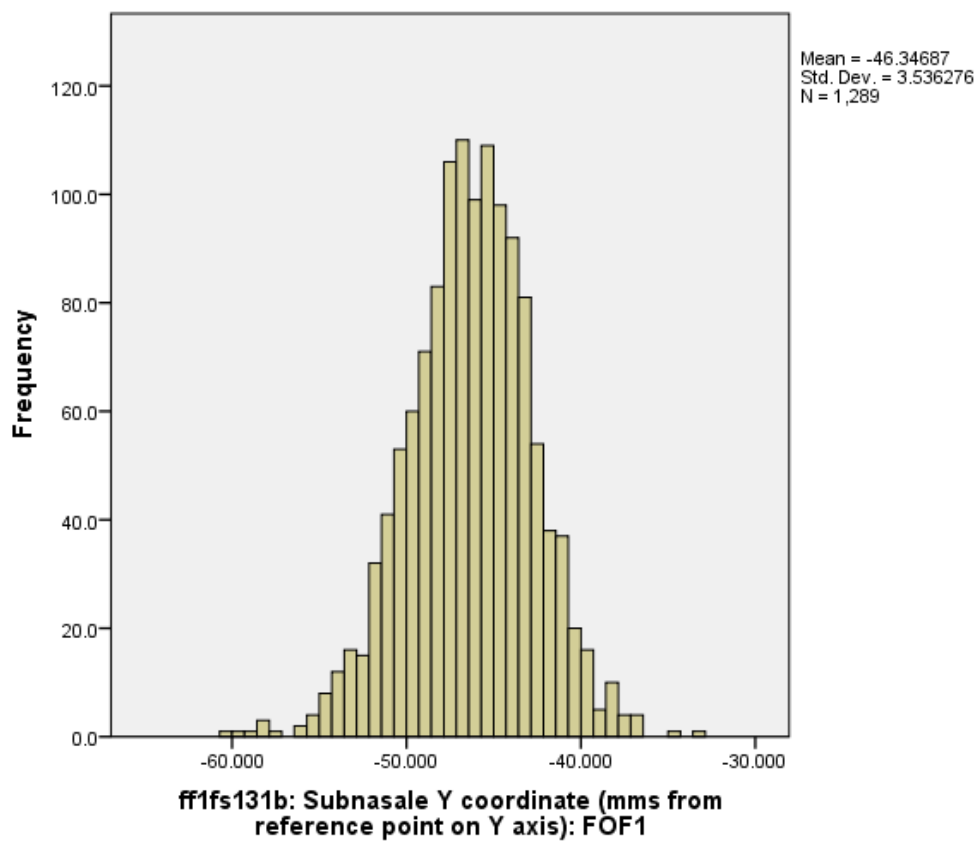
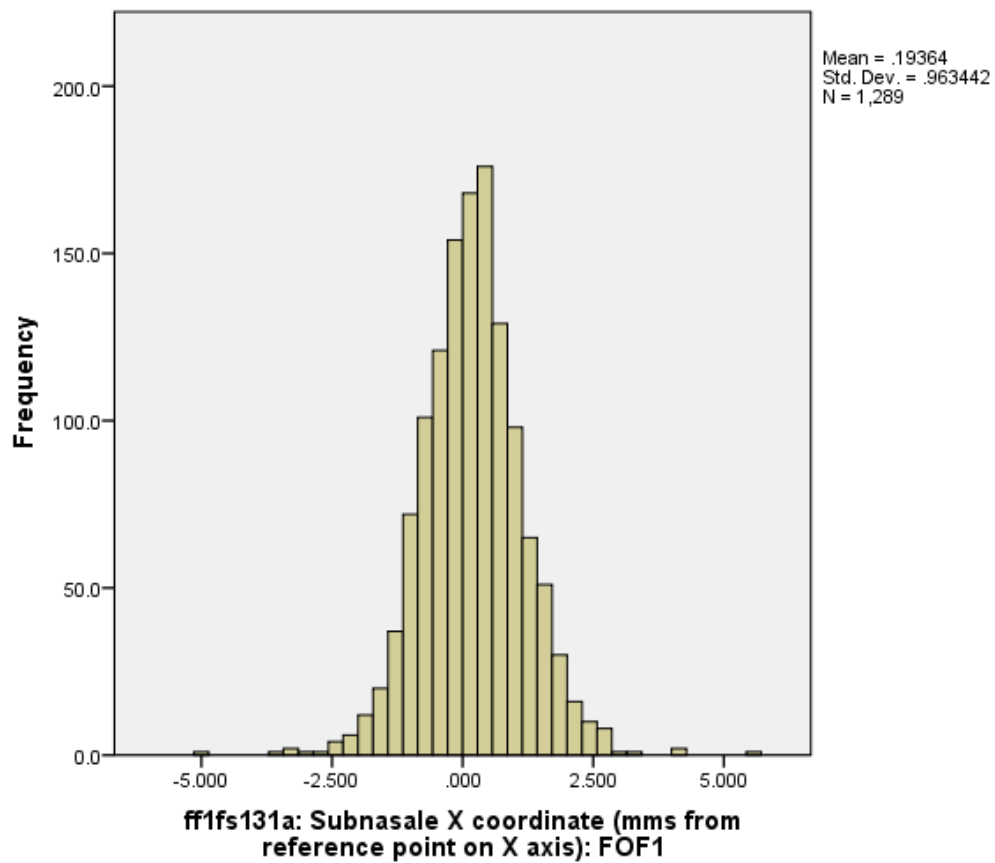


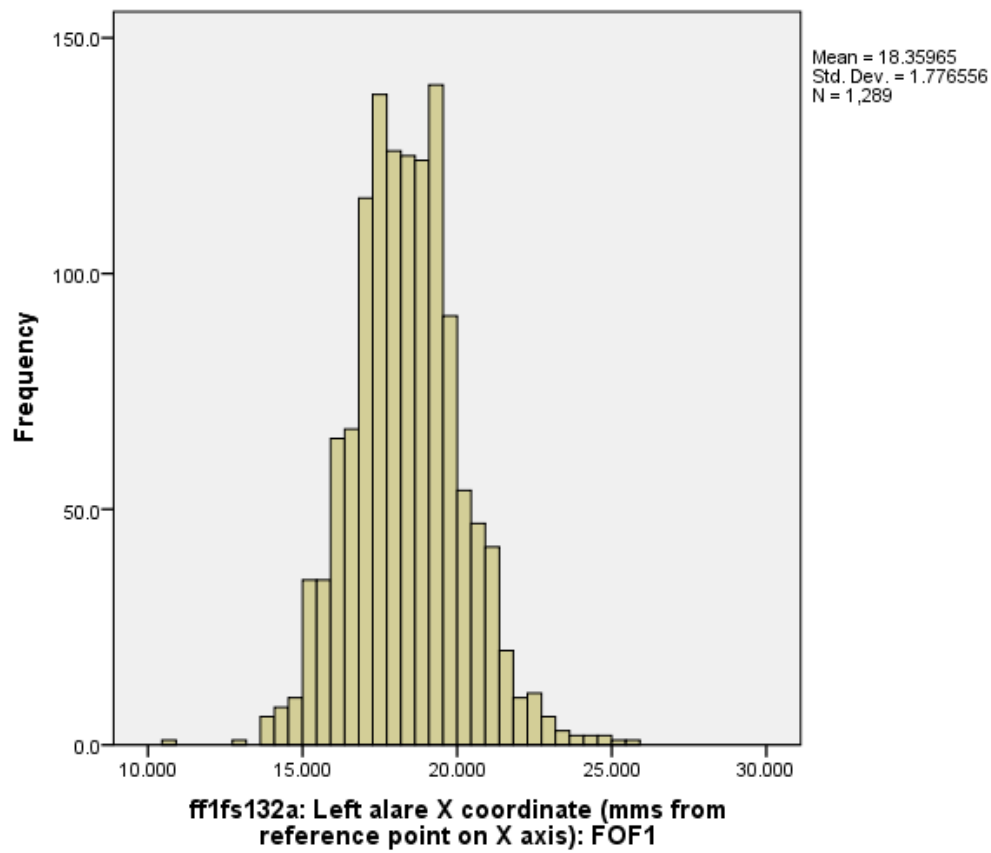
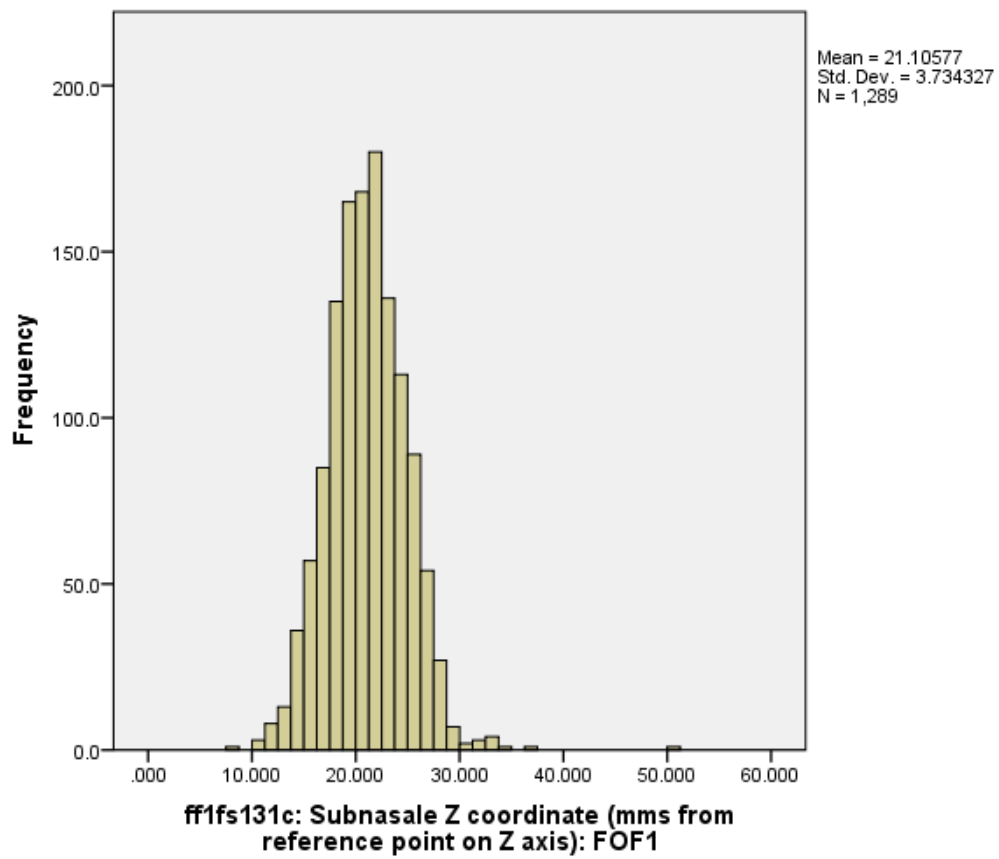


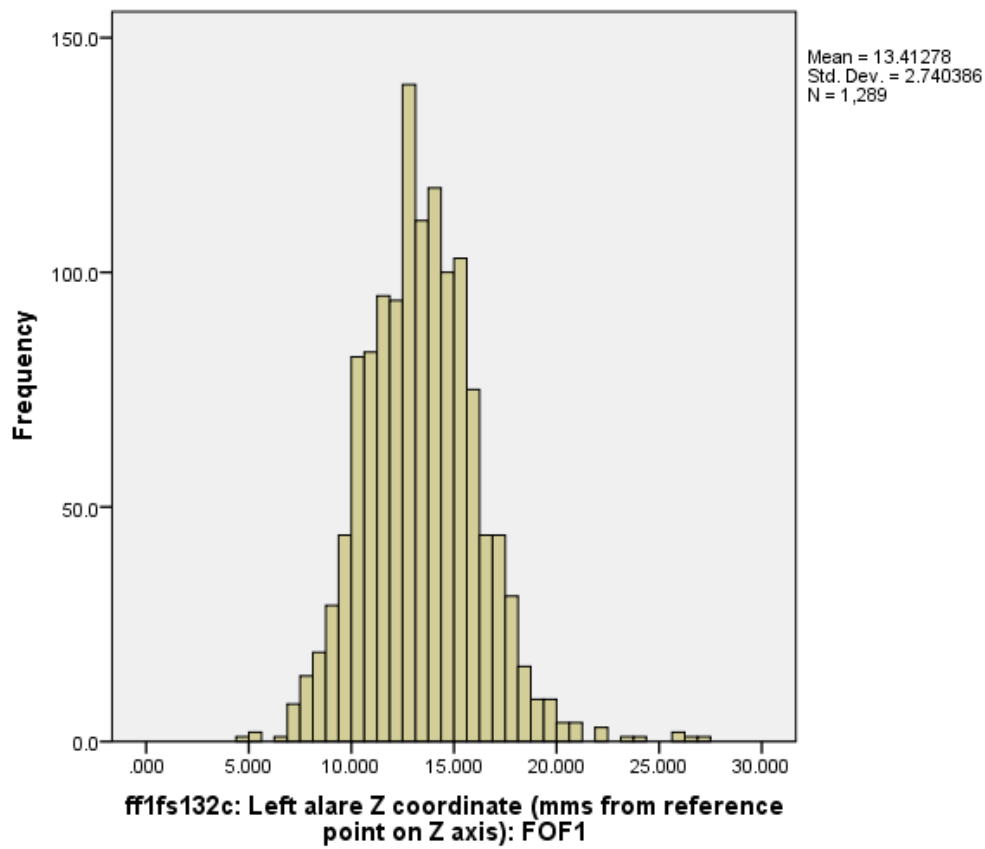
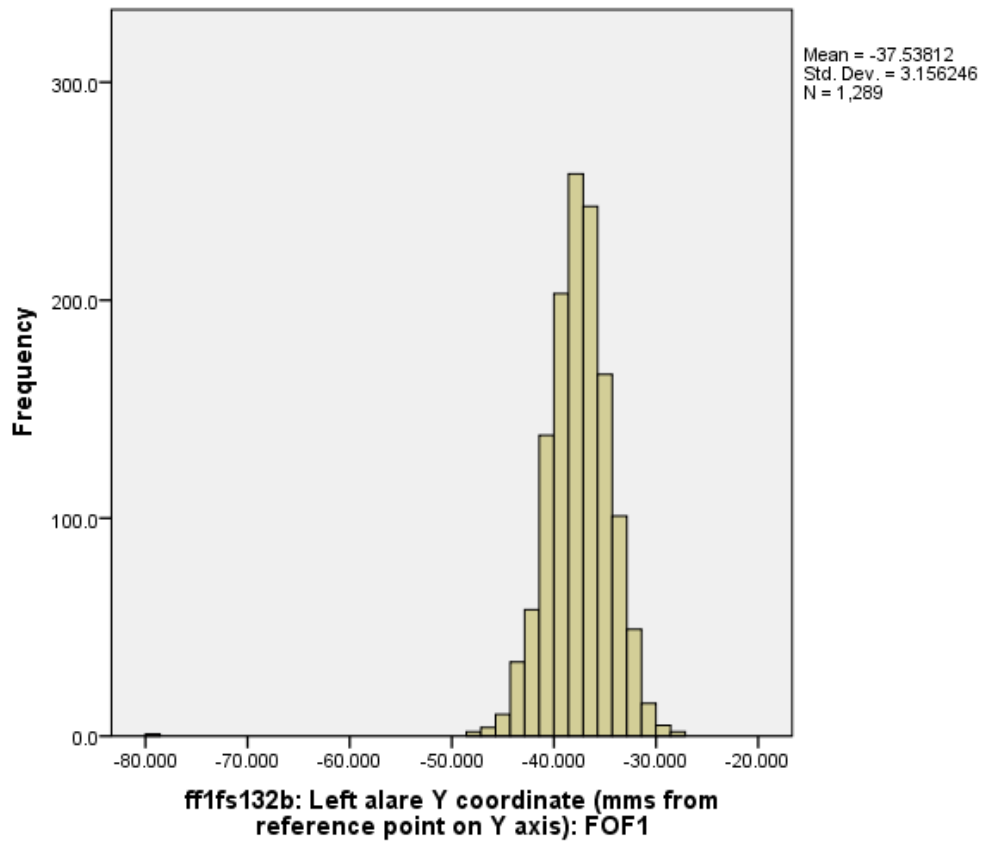


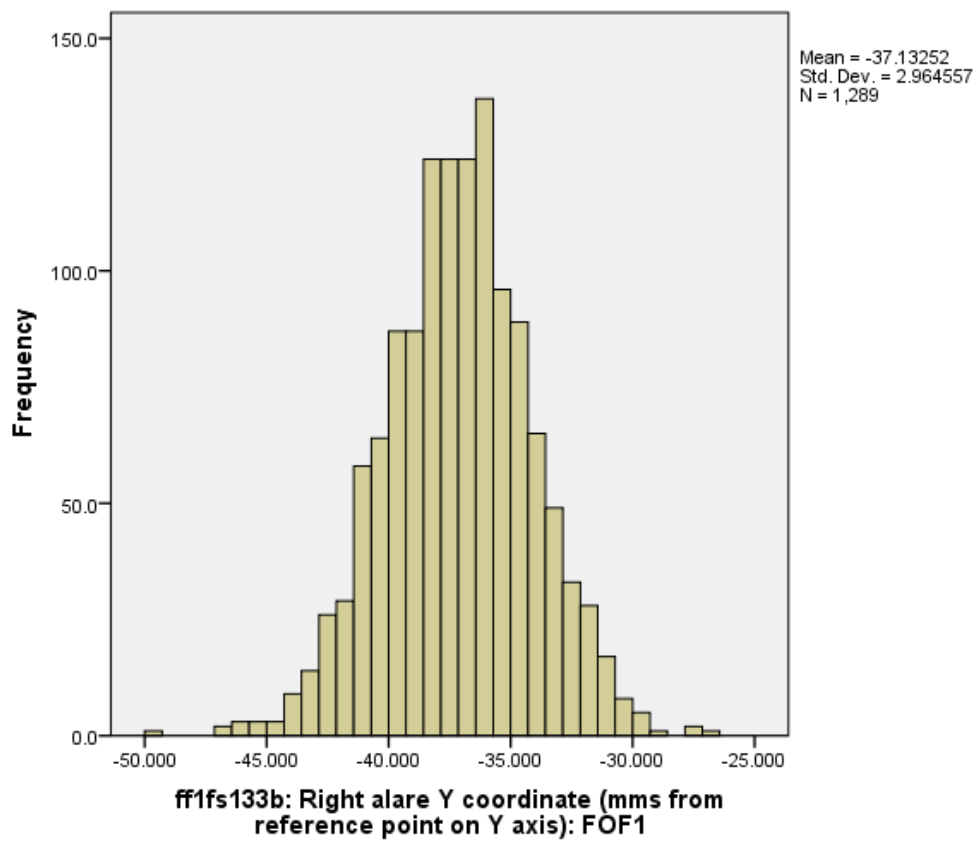
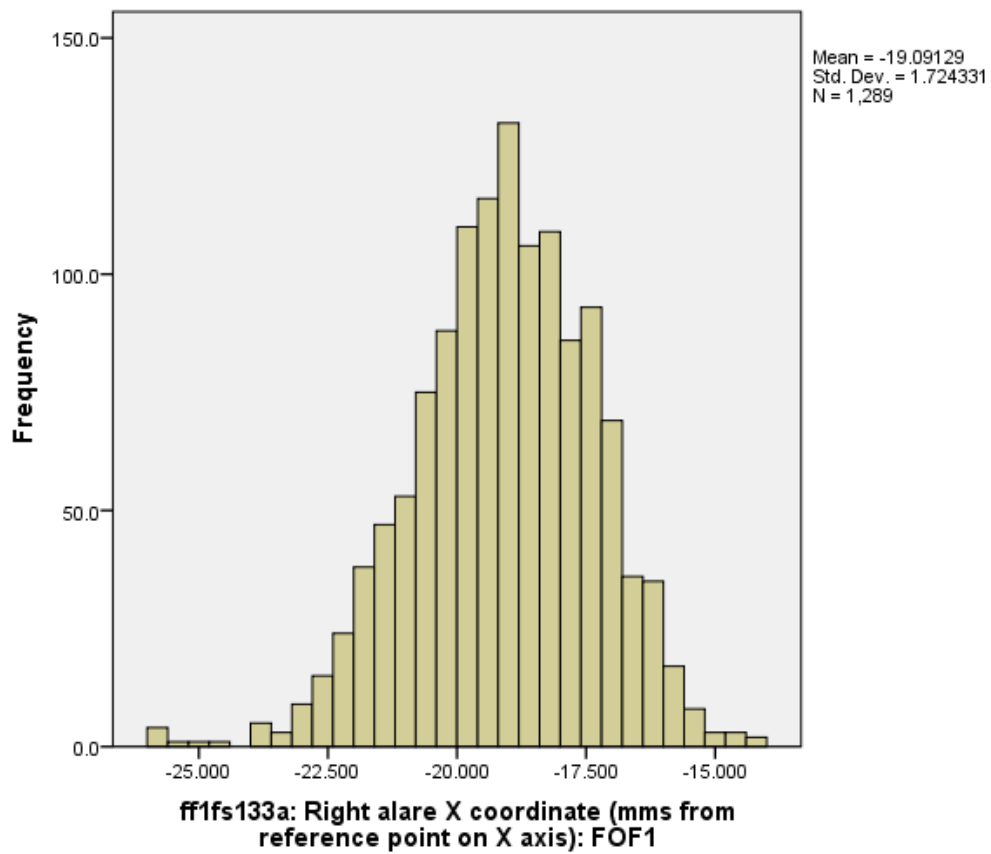


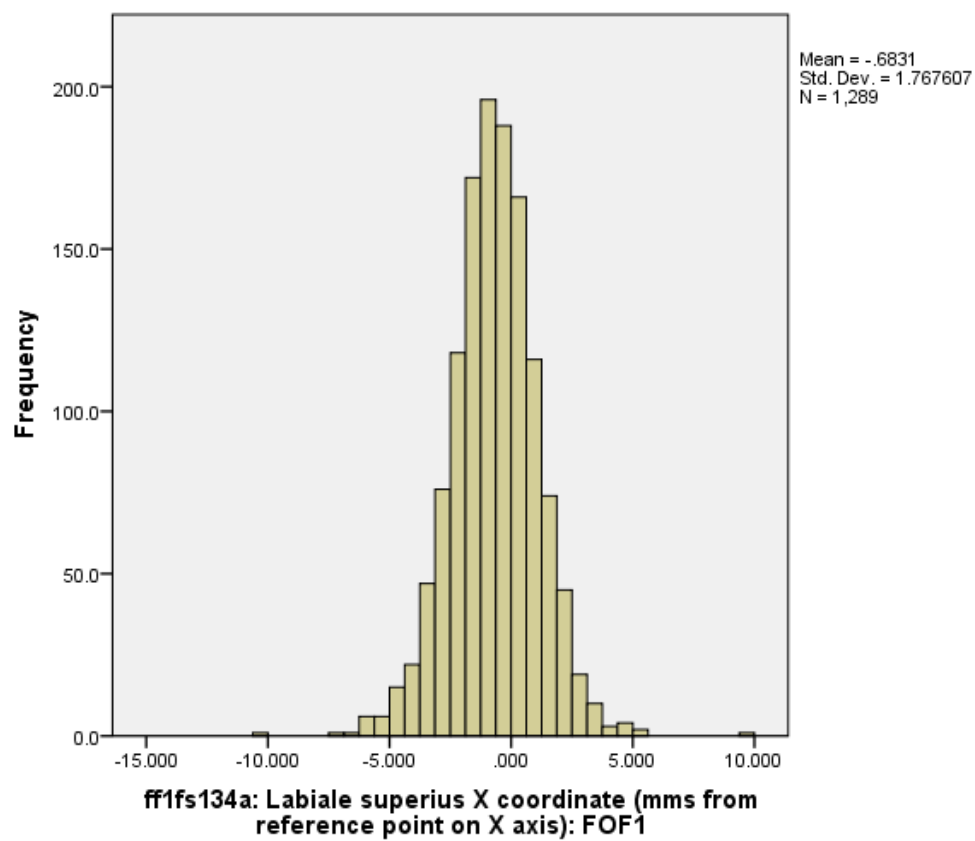
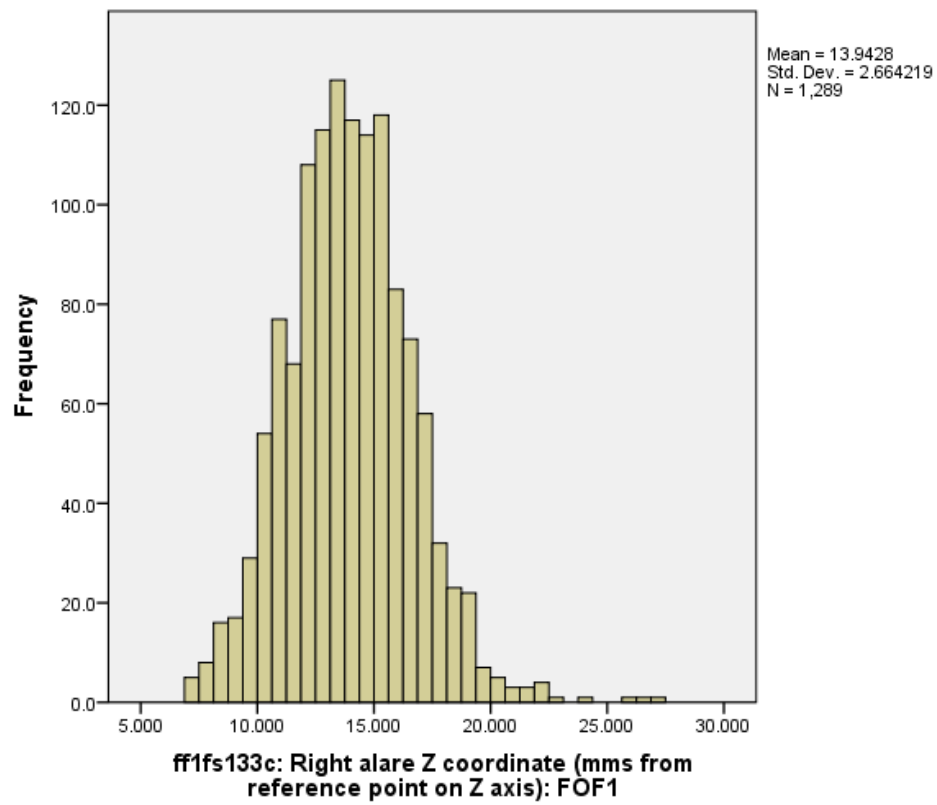


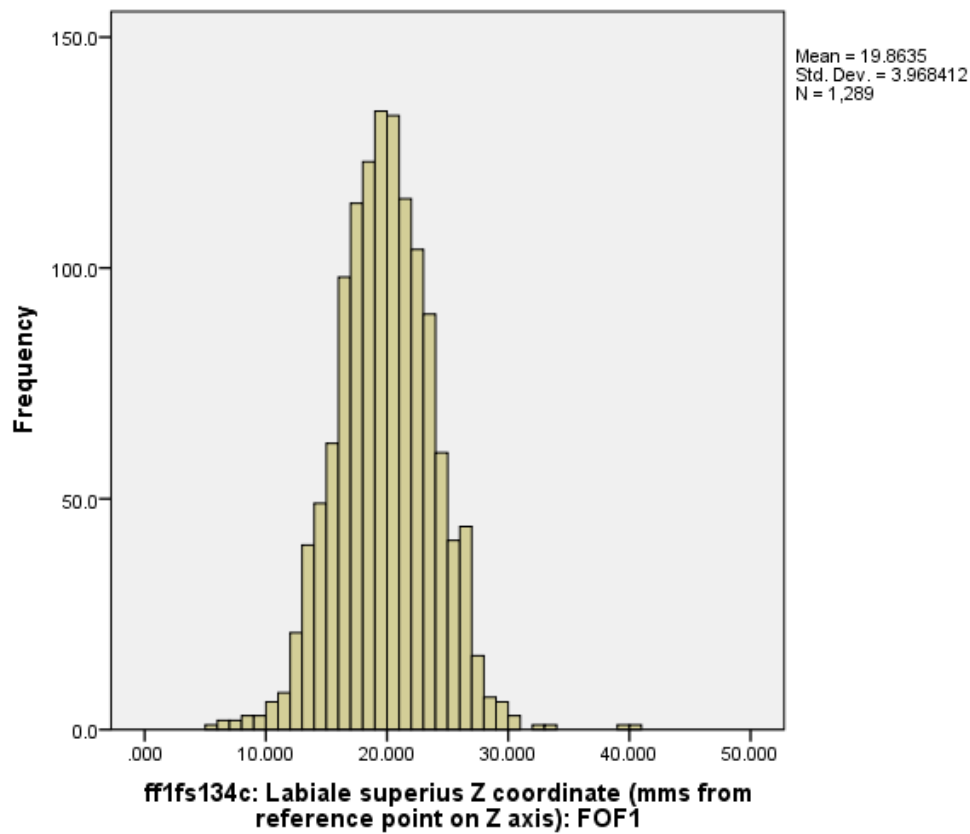
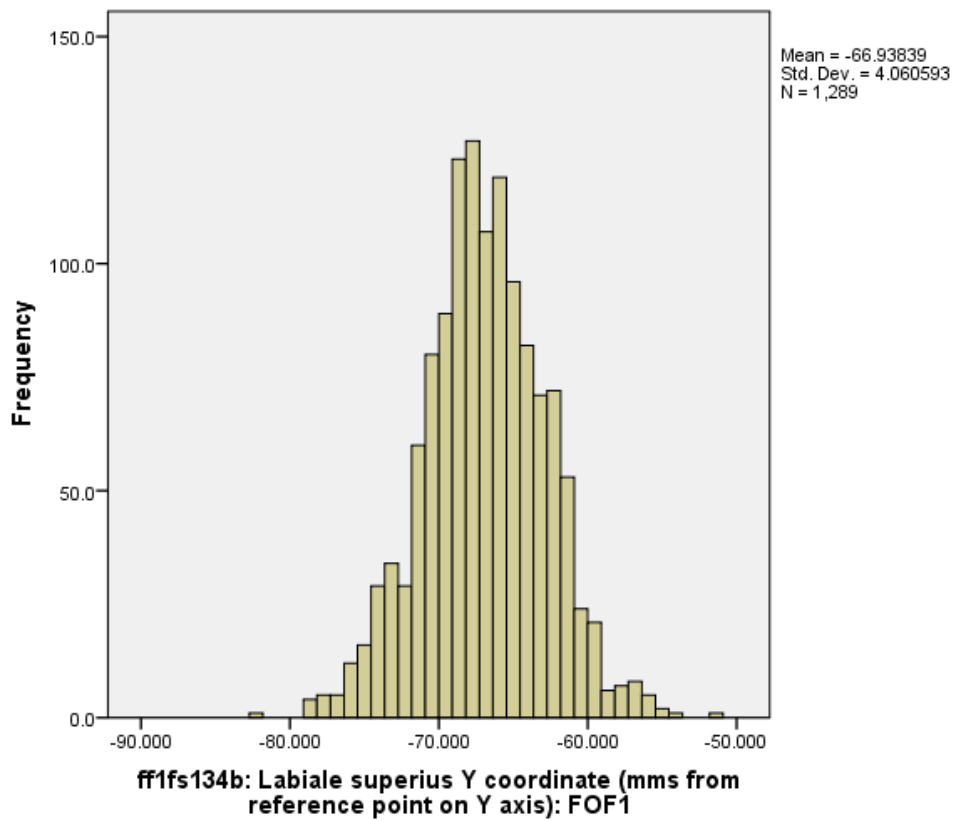




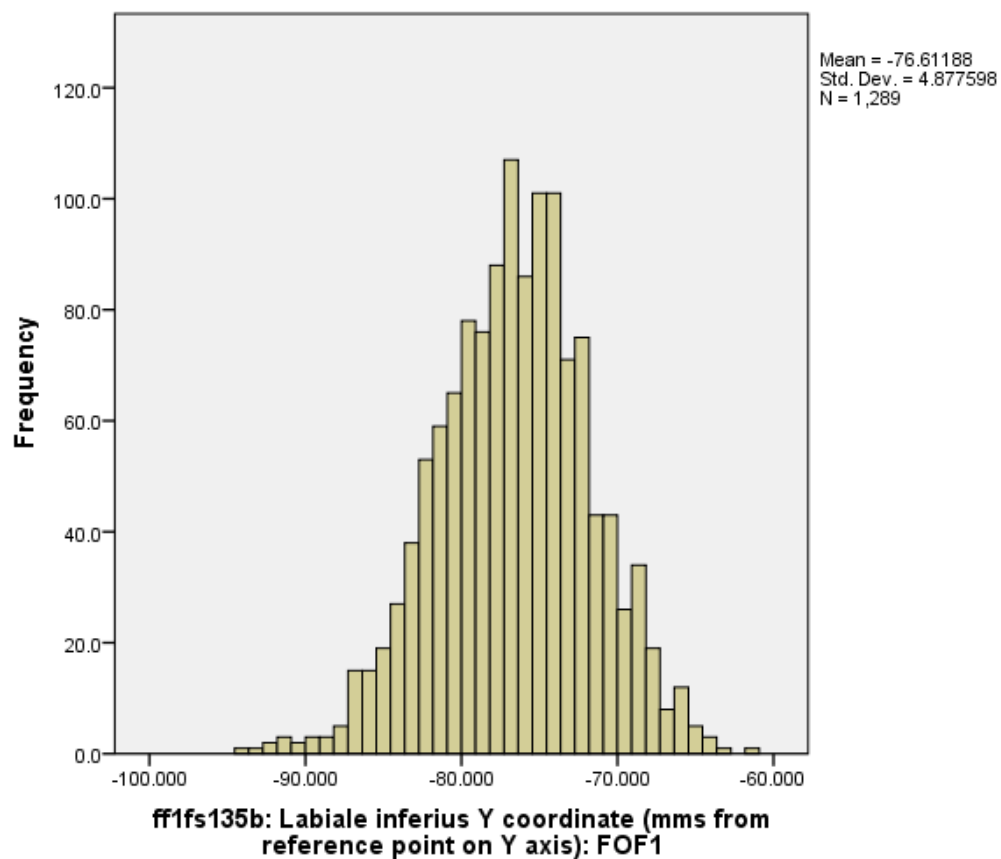
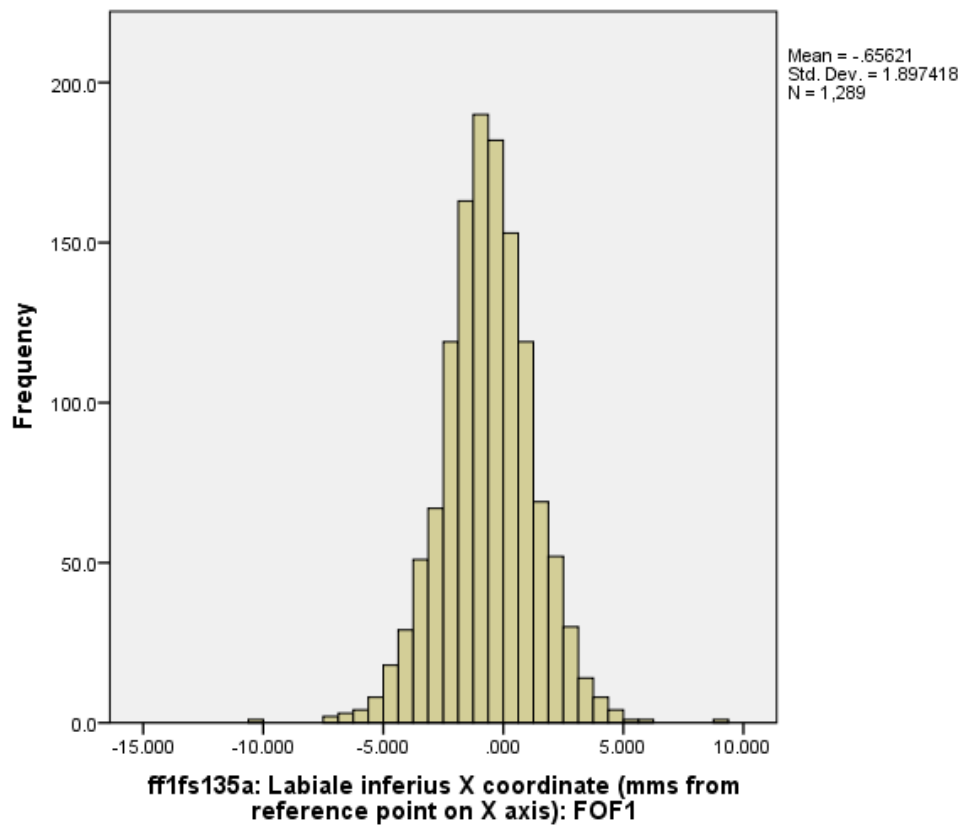


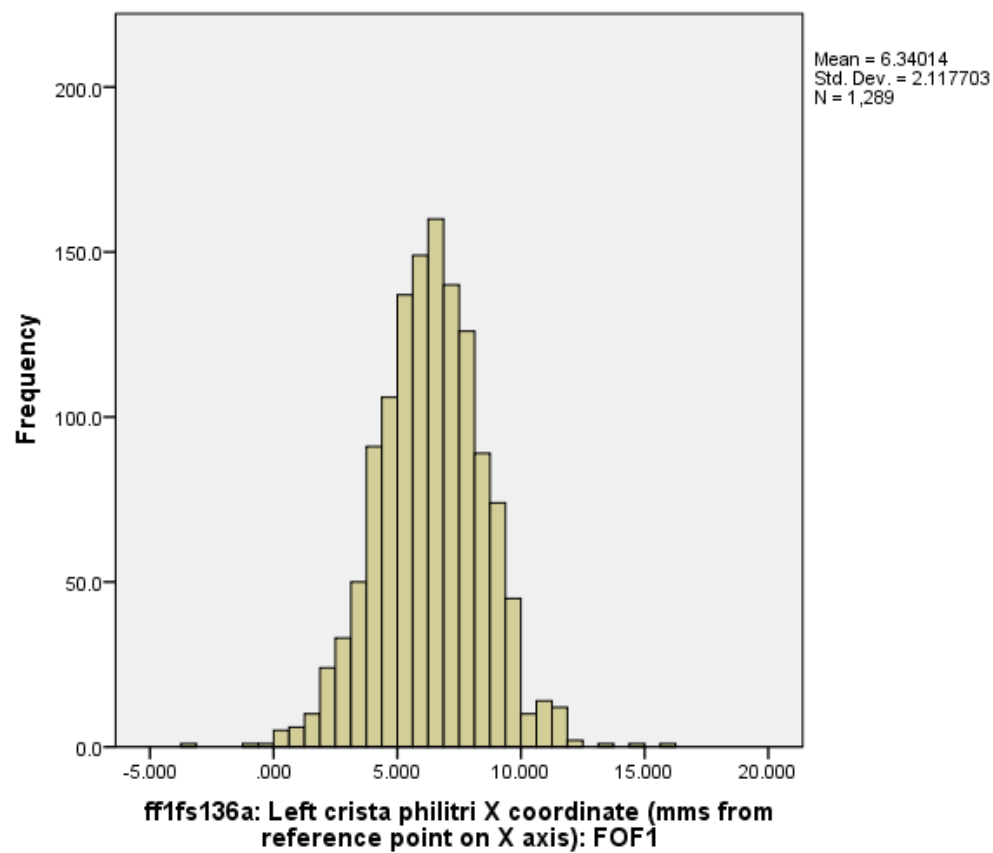
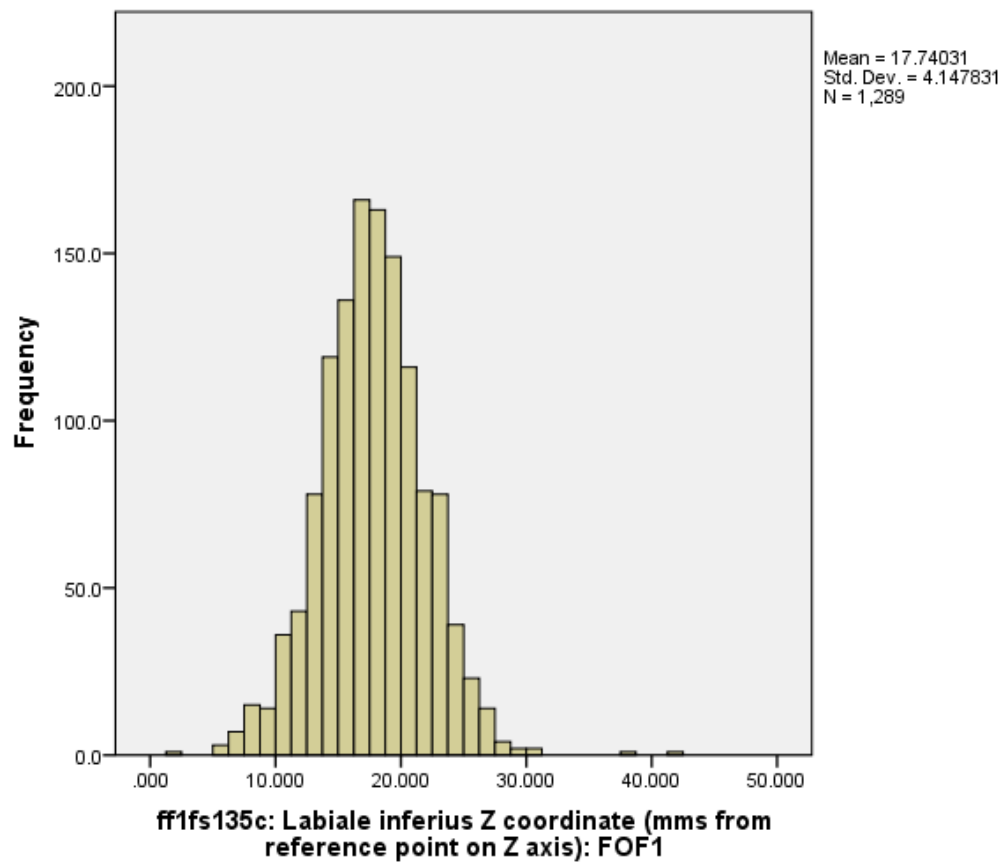


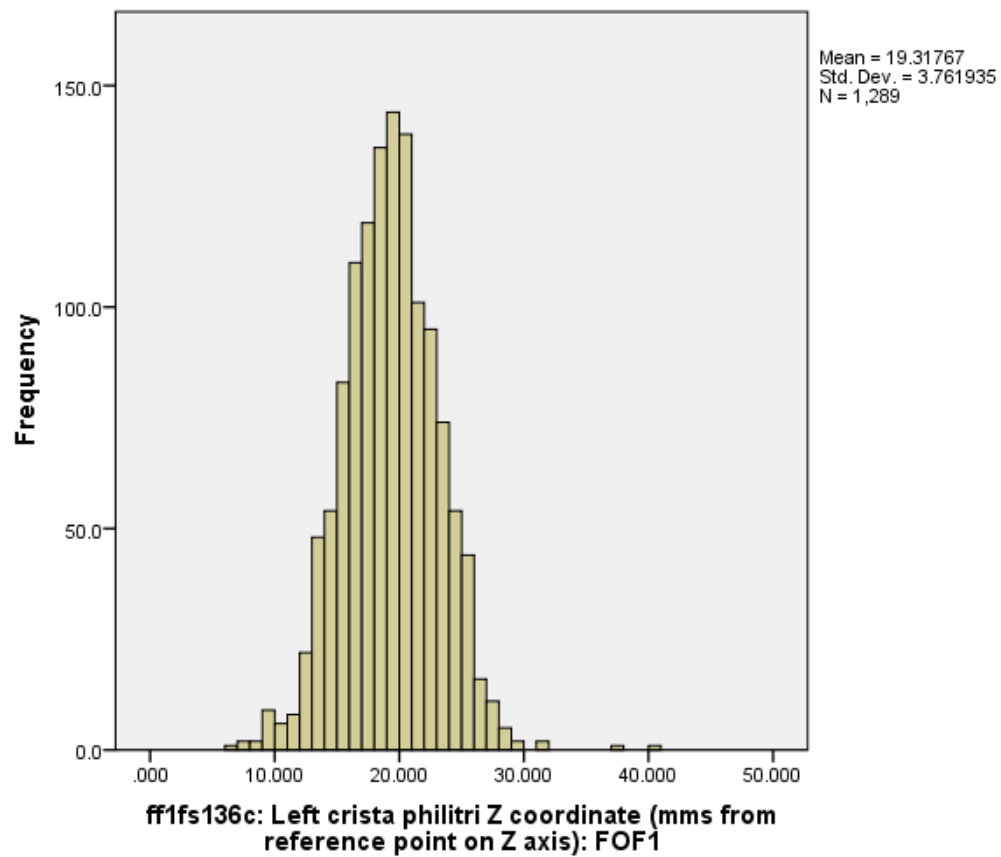
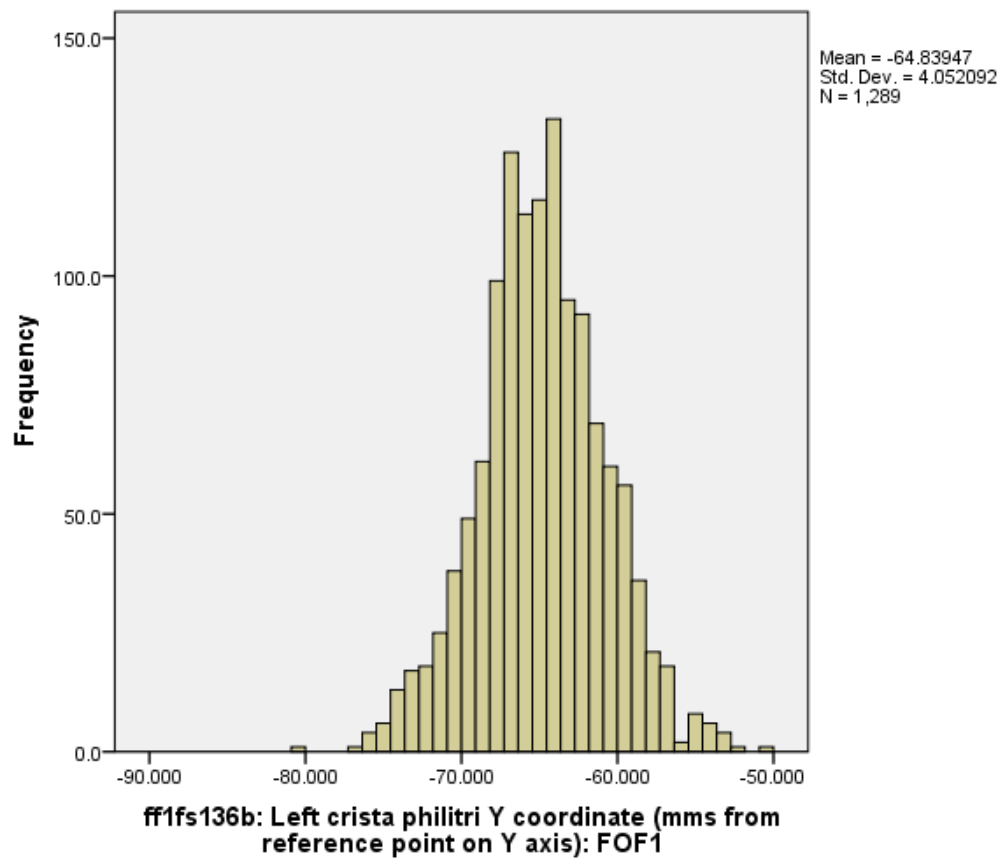


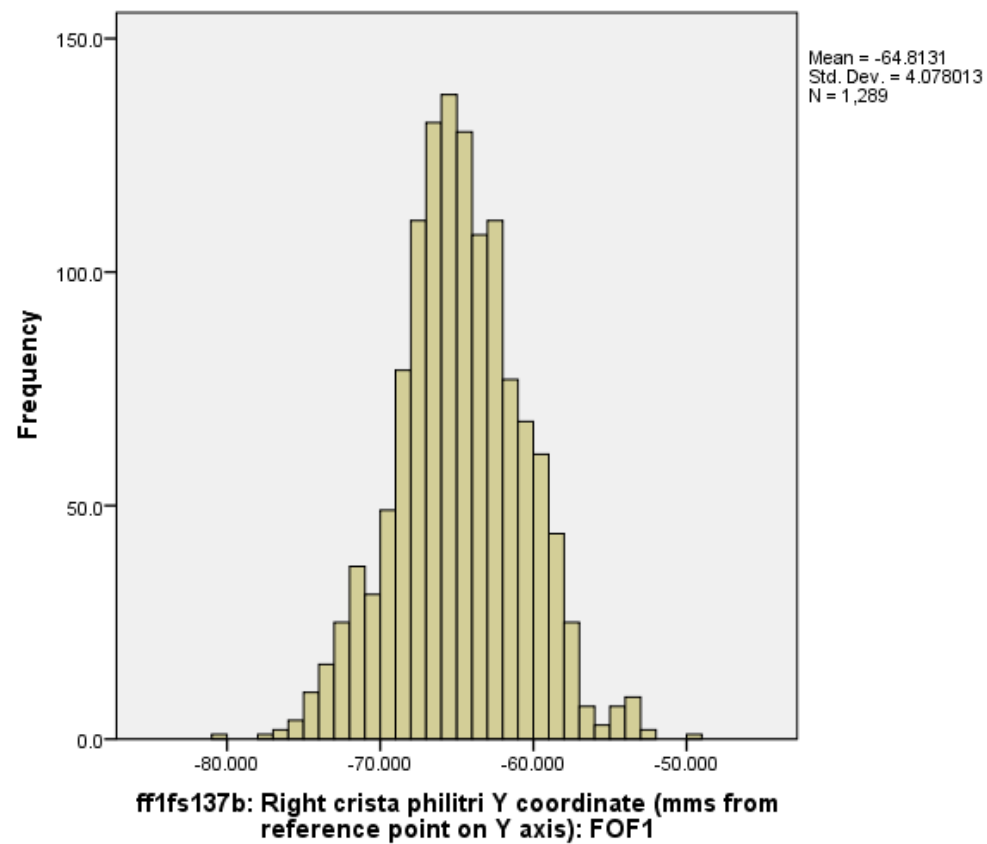
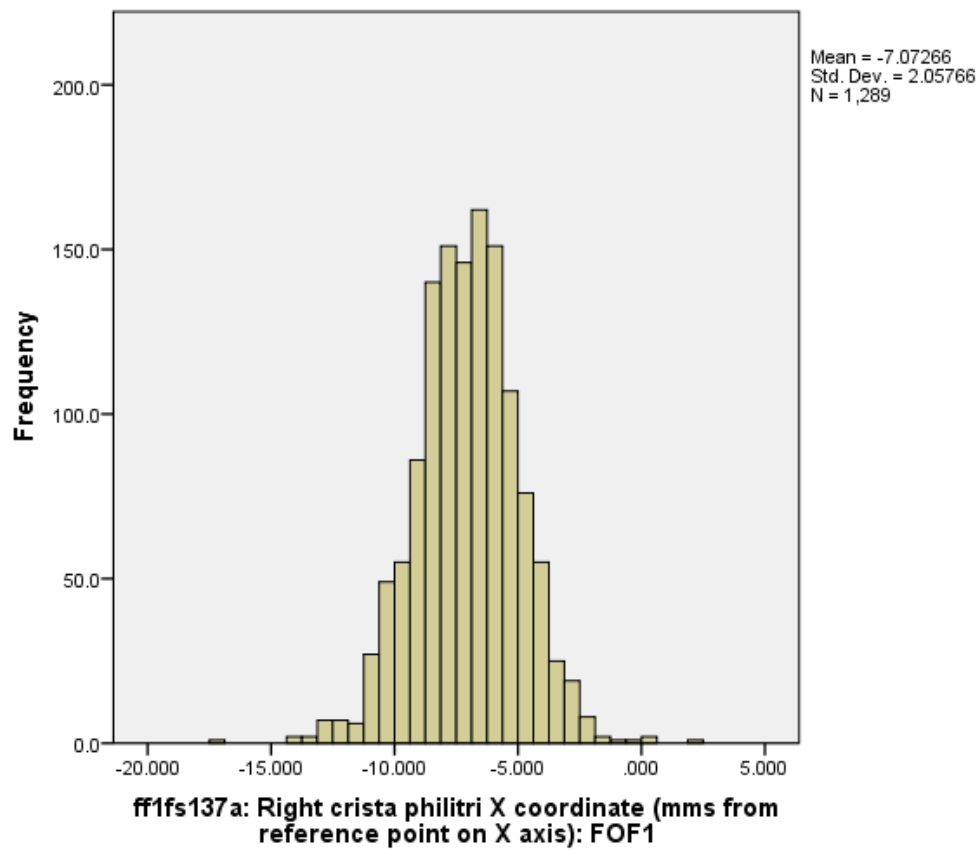


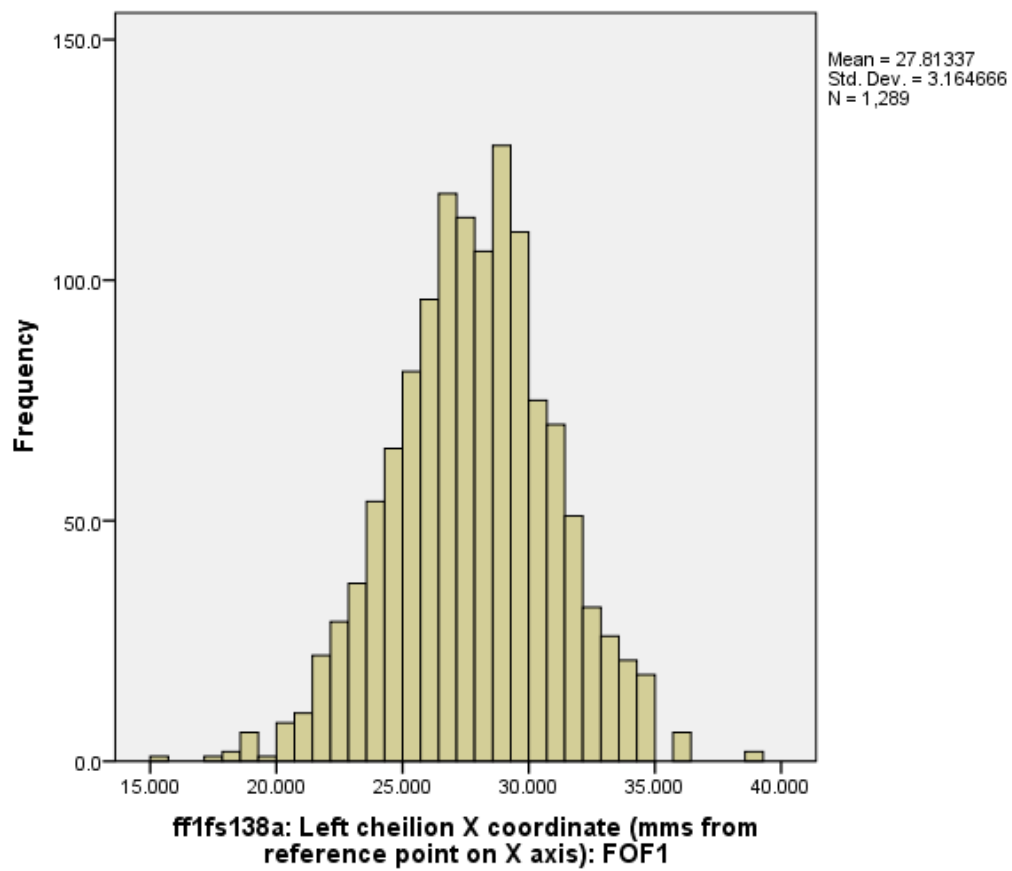
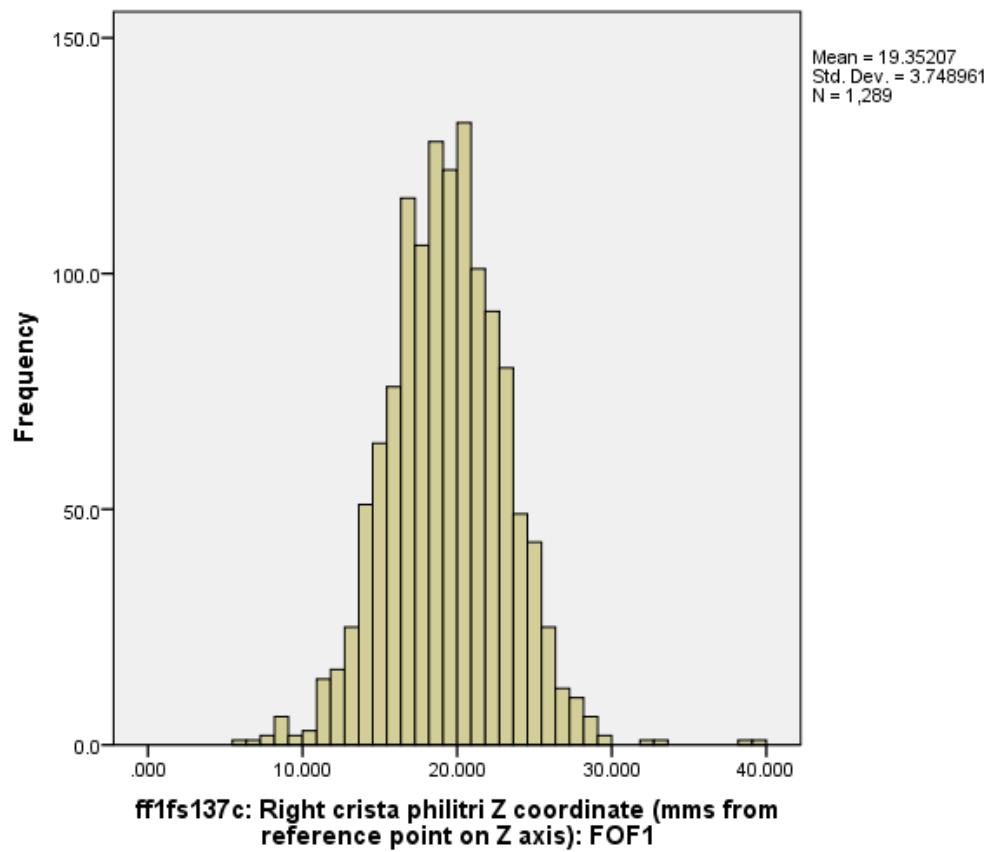


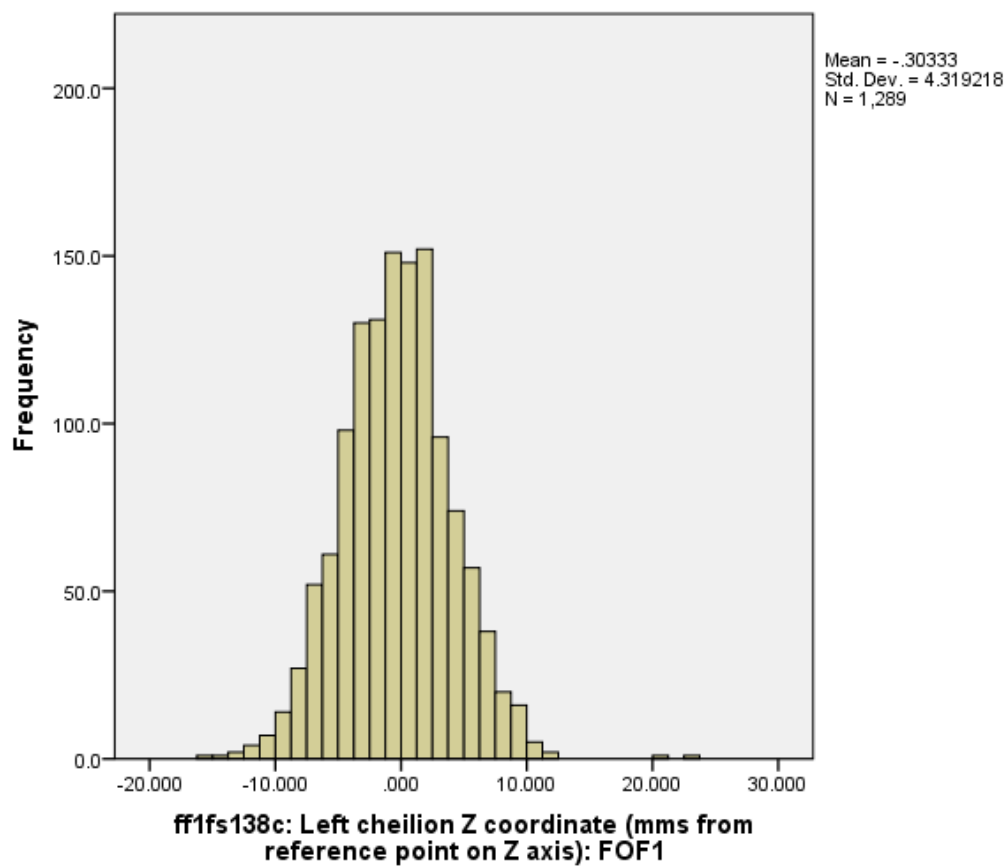
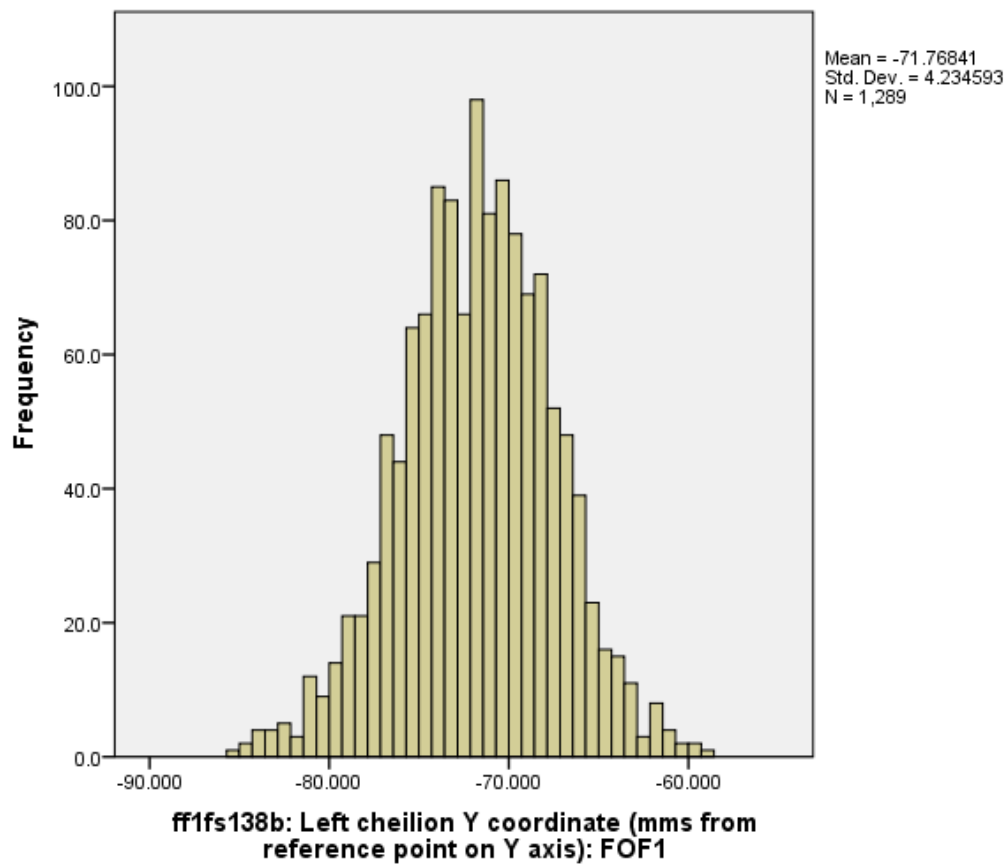


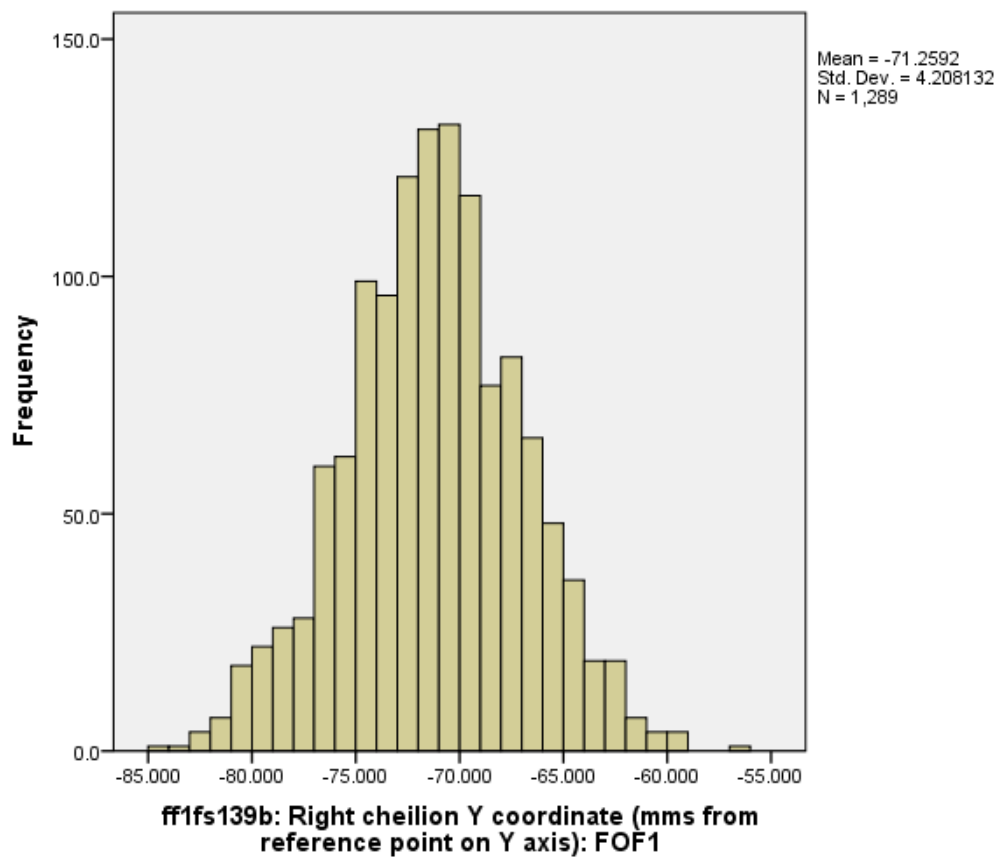
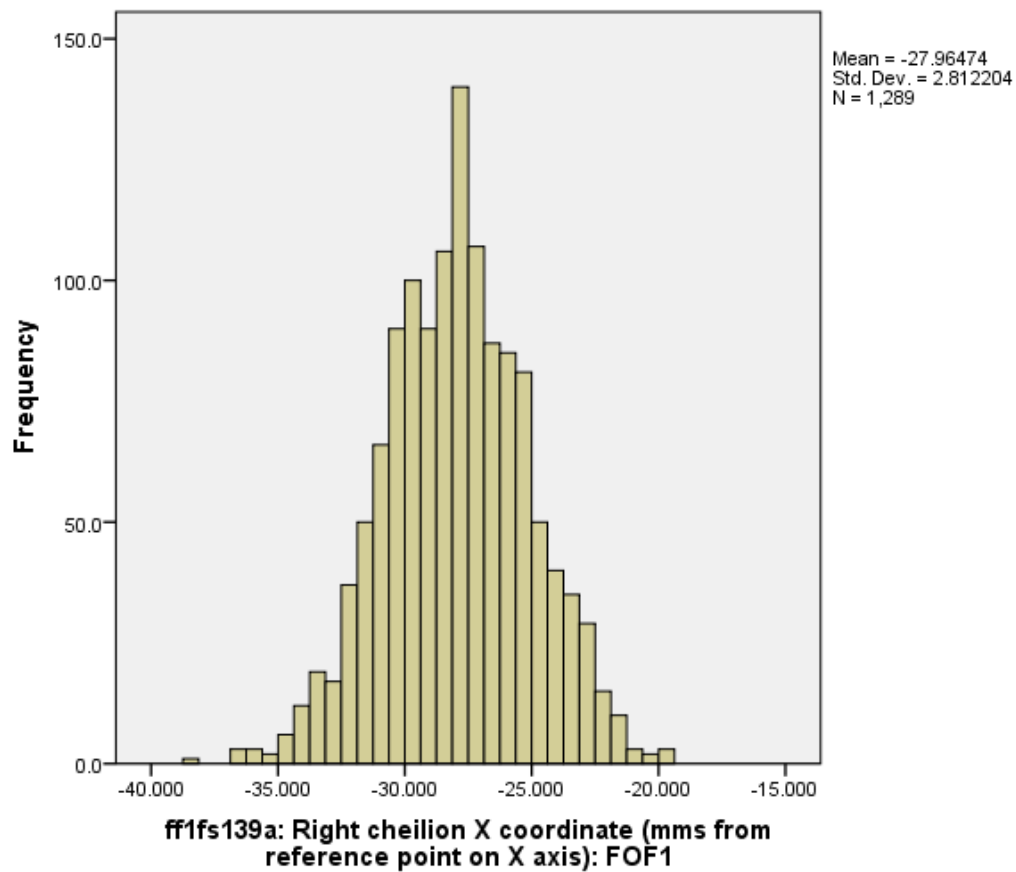


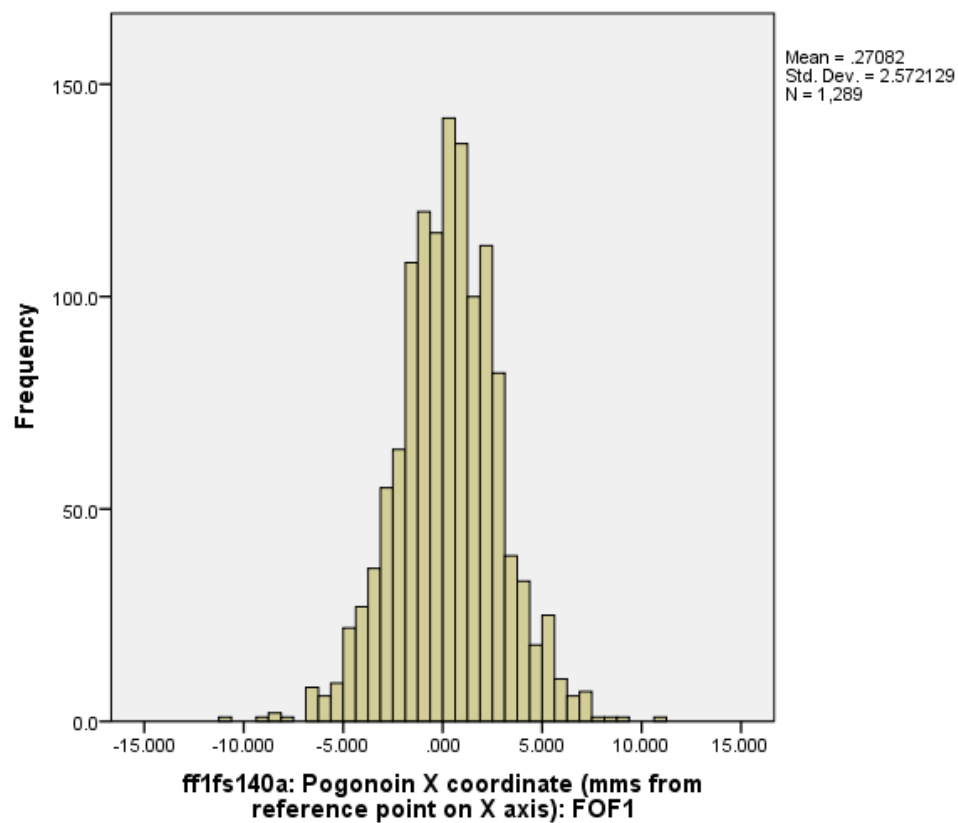
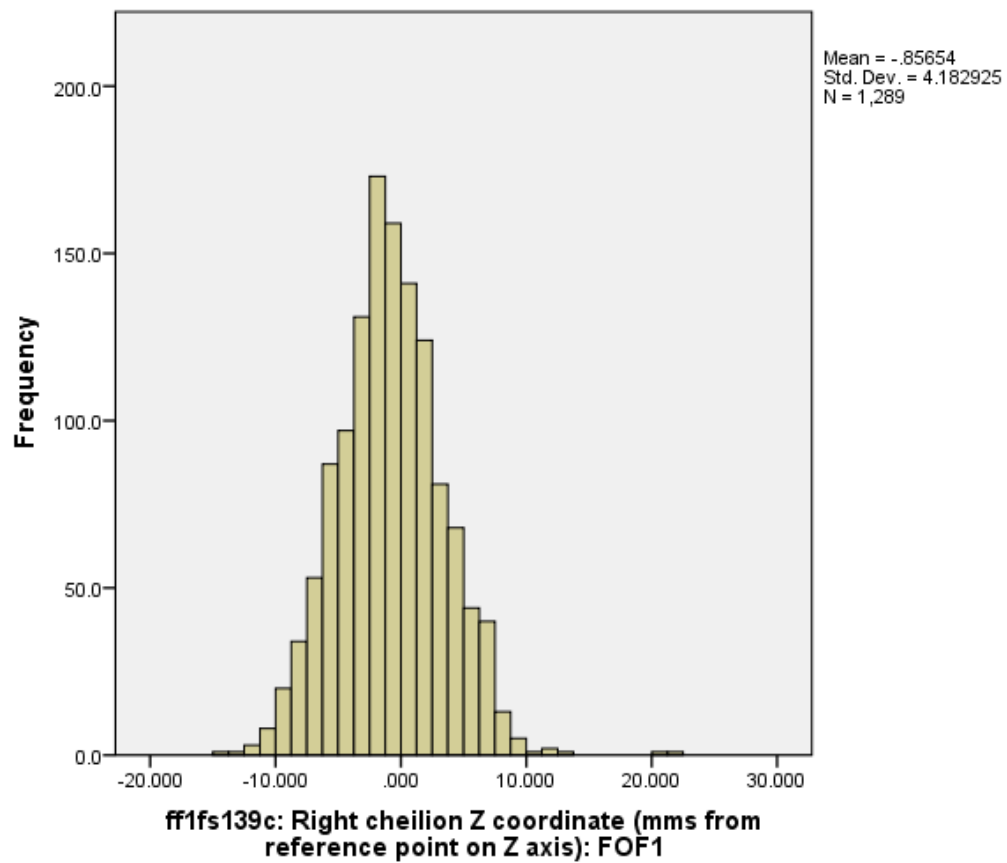




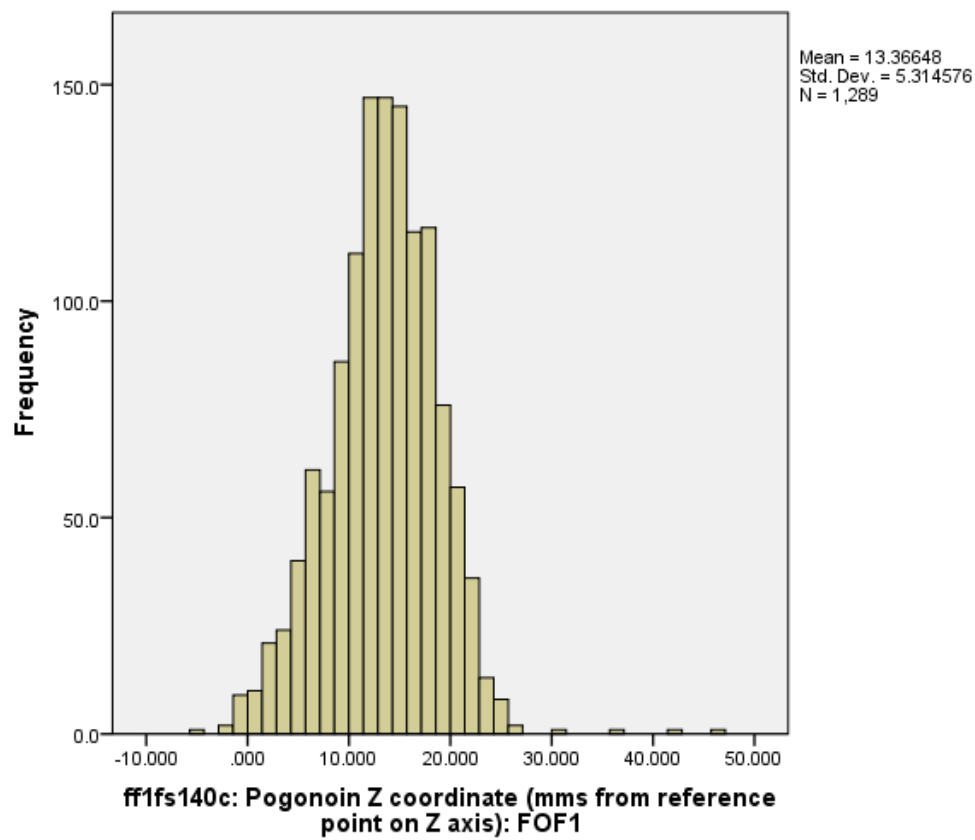
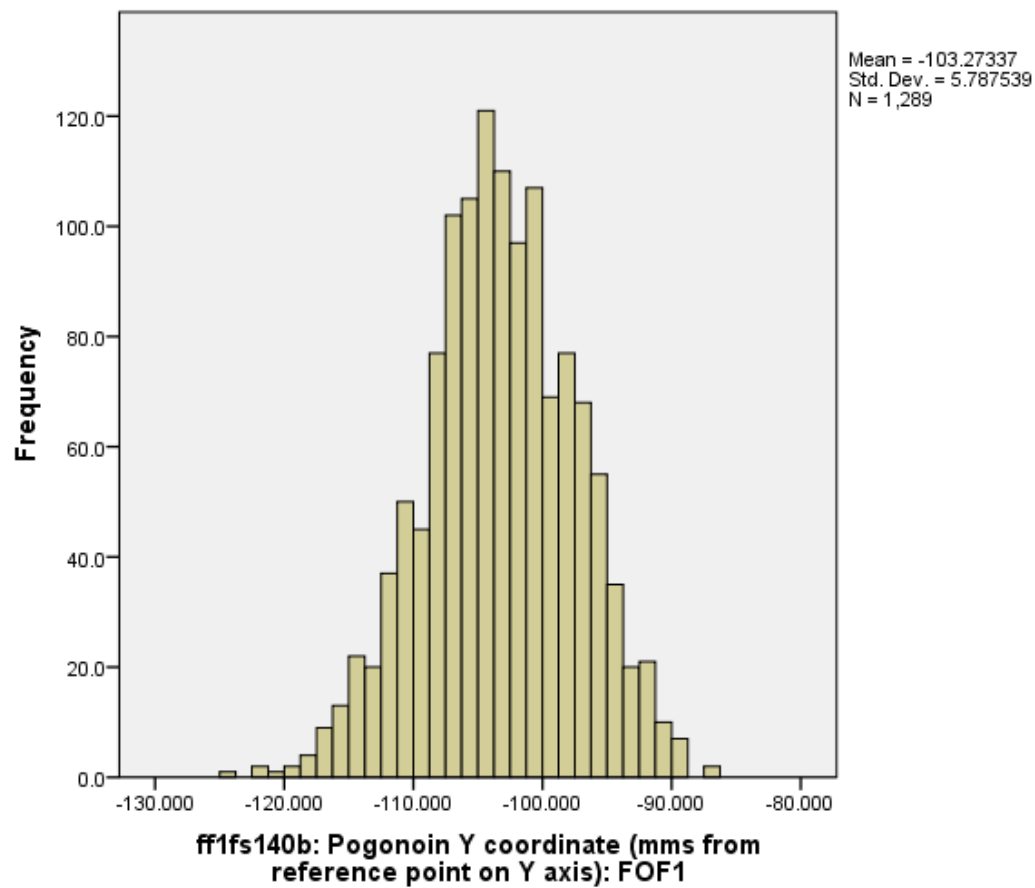












## Appendices

### Focus on Fathers 1 (T22FC) Paper Questionnaire version 2 (27/09/2011)

This questionnaire is the paper data collection documentation which will be used if the clinic is running and the computerised systems fail.

Please ensure you have completed all the response sections – especially the ‘**Registration**’ questions as it is important we have the clinic ID of the participant, as well as the date of birth. Along with the fieldworkers’ initials and the date of the participants’ visit to the clinic. Please clearly write the answers or circle the options available.

<p style="text-align: center;"><b>Clinic ID</b></p> <p style="text-align: center;">Add clinic label or write the ID below</p>
---

#### **Reception**

Question Label	Question	Response	
Arrival_time	Arrival time of participant	__:__	
Reception staff q2a	Reception Staff Initials		
Fieldworker q2b	Fieldworker Initials		
Dob q3	Date of Birth of Father (dd/mm/yyyy)	__/__/19__	
Age q4	Age of the Father (years)		
Date assessment q5	Date of clinic assessment	__/__/201__	
	Following to be completed when participant is leaving the clinic		
	Completed computerised questionnaire	Yes	No
	If NO would they be willing to complete and return paper version	Yes	No
	Paper version given to participant	Yes	No
Departure time	Departure time of participant	__:__	
Voucher	Voucher number		
Reception notes	Reception notes		

# Focus on Fathers 1 (T22FC)

## Paper Questionnaire version 2 (27/09/2011)

### Station1-ConsentandbloodSample

Question Label	Questio	Respos		
	Returned Home Life questionnaire	Ye	No	
	If NO happy to send back	Ye	No	
	Start Time of Bloods Station 1	:_____		
	Fieldworker Staff Initials station 1			
	Explained new PIS	Yes	No	N/A
	Given new PIS to take home	Yes	No	N/A
	Taking any form of anti-coagulant	Ye	No	
	Any clotting/bleeding or are anaemic	Ye	No	
	Insulin Medication	Ye	No	
	Consent to cell-line and DNA (if yes, consent to bloods) (if no, consent to DNA only)	s		
	Consent to bloods	Ye	No	
	Consent to DNA only			
	Consent to Haemoglobin test	Ye	No	
	Consent to be informed if Haemoglobin low	s		
	Consent to glucose test	Ye	No	
	Consent to be informed if glucose high	s		
	Consent to have total cholesterol	Ye	No	
	Consent to be informed if total cholesterol if out of range	s		
	Consent to have blood sample stored	Ye	No	
		s		
	Time of last consumption of food/drink other than water (hh:mm)	:_____		
	Time of blood taken (hh:mm) (system generated)	:_____		
	CPDA sample taken (yellow tube) – (PBL/cell line sample)	Ye	No	
	CPDA sample comment	s		
	Heparin sample taken (orange tube)	Ye	No	
	Heparin sample comment	s		

## Focus on Fathers 1 (T22FC)

### Paper Questionnaire version 2 (27/09/2011)

	EDTA sample taken (pink tube)	Ye	No
	EDTA sample comment		
	Problems with taking blood sample	Ye	No
	Nature of problem with taking blood sample (circle number)  1 – Faint 2 – Looks like there will be marked bruising 3 – Took more than 2 attempts to obtain sample 4 – Other (please specify in box)	1      2      3      4	
	Number of attempts to take blood		
	Specify nature of other problem with taking blood sample		
	Further comment on blood taking		
	Time of sample on ice (hh:mm)	____ : ____	
	Urine tube given	Ye	No

### **Medications**

Medications require a separate screen for data entry at a later stage.

Question Label	Question	Response
Medications and allergies – see separate sheet called <b>FoF1 Medication and Allergy Questionnaire v1</b> This is going out with the confirmation letters when the appointment is booked. Therefore, will be data entered by the Fieldworker separately at the end of Station 1 when the participant is the cafe having their breakfast. This needs to be separate form to ensure it can be added at the end of the day, if time constraints are in place.		

Question Label	Question	Respons
S1 End time	Station1 end time	____ : ____
Notes1 S1	Notes from Station 1	
Notes2 S1	Notes from Station 1	

# Focus on Fathers 1 (T22FC)

## Paper Questionnaire version 2 (27/09/2011)

### Station2–AnthropometryandDEXA

Question Label	Question	Response	
S2 start time	Start time of station 2	: —:—	
S2 Fieldworker	Fieldworker Staff Initials station 2		
	Consent to DXA	Ye	No
	Consent to anthropometric measures	Ye	No
	Has pacemaker fitter	Ye	No
	Standing height (1000 to 1900mm)		
	Seated height (600 to 1000 mm)		
	Weight (40 – 150kg)		
	Waist circumference 1 (500 to 1600mm)		
	Waist circumference 2 (500 to 1600mm)		
	Hip circumference 1 (600 to 1700mm)		
	Hip circumference 2 (600 to 1700mm)		
	Arm circumference (150 to 500mm)		
	Head circumference (mm)		
	DXA measure performed	Yes	No
	Reason for not done 1= too obese, 2=disability, 3=back problem, 4 = past radiotherapy, 5=other		
	Were all the limbs captured within the DXA lines	Yes	No
	DXA comment		
S2 End time	Station 2 end time	: —:—	
Notes1 S2	Notes from Station 2		
Notes2 S2	Notes from Station 2		

# Focus on Fathers 1 (T22FC)

## Paper Questionnaire version 2 (27/09/2011)

### Station3–Vascularmeasures

Question Label	Questio	Response	
S3 start time	Start time of station 3	____.____	
S3 Fieldworker	Fieldworker Staff Initials station 3		
	Consent to have BP	Ye	No
	Arm used for blood pressure (circle number)	1 - Right	2 - Left
	Seated systolic BP 1 (50 to 250 mmHg)		
	Seated diastolic BP 1 (40 to 150 mmHg)		
	Pulse rate 1 (35 to 120 bpm)		
	Seated systolic BP 2 (50 to 250 mmHg)		
	Seated diastolic BP 2 (40 to 150 mmHg)		
	Pulse rate 2 (35 to 120 bpm)		
	Standing systolic BP 1 (40 to 250 mmHg)		
	Standing diastolic BP 1 (30 to 150 mmHg)		
	Pulse rate 1 (35 to 120 bpm)		
	Standing systolic BP 2 (40 to 250 mmHg)		
	Standing diastolic BP 2 (30 to 150 mmHg)		
	Pulse rate 1 (35 to 120 bpm)		
	Consent to have other cardiovascular measures	Ye	No
	PWV successfully measured	Ye	No
	Reasons why PWV not measured 1=equipment problem, 2=poor quality trace, 3=patient requested to stop, 4=other		
	If PWV OTHER reasons in text		
	CBP successfully measured	Ye	No
	Reasons why CBP not measured 1=equipment problem, 2=poor quality trace, 3=patient requested to stop, 4=other		
	If CBP OTHER reasons in text		
S3 End time	Station 3 end time	____.____	
Notes1 S3	Notes from Station 3		
Notes2 S3	Notes from Station 3		

**Focus on Fathers 1 (T22FC)**  
**Paper Questionnaire version 2 (27/09/2011)**

**Station4-CIMT**

Question Label	Question	Response	
S4 start time	Start time of station 4	____:____	
S4 Fieldworker	Fieldworker Staff Initials		
	Consent to have CIMT	Ye	No
	Scanner used (1 or 2)		
	Right sided CIMT data successfully captured		
	Reason why right CIMT failed 1=equipment problem, 2=poor quality image, 3=patient requested to stop, 4=other		
	If right CIMT OTHER reasons in text		
	Comments for right side CIMT		
	Left sided CIMT data successfully captured		
	Reason why left CIMT failed 1=equipment problem, 2=poor quality image, 3=patient requested to stop, 4=other		
	If left CIMT OTHER reasons in text		
	Comments for left side CIMT		
S4 End time	Station 4 end time	____:____	
Notes1 S4	Notes from Station 4		
Notes2 S4	Notes from Station 4		

# Focus on Fathers 1 (T22FC)

## Paper Questionnaire version 2 (27/09/2011)

### Station5–Faceshape

Question Label	Question	Response	
S5 start time	Start time of station 5	__:__	
S5 Fieldworker	Fieldworker Staff Initials		
	Consent to have face shape	Yes	No
	Face shape data captured	Yes	No
	Reason why face shape failed 1=equipment problem, 2 poor quality image, 3 patient requested to stop,		
	If Face Shape OTHER reasons in text		
S5 End time	Station 5 end time	__:__	
Notes1 S5	Notes from Station 5		
Notes2 S5	Notes from Station 5		

If there is anything missed out, please bring it to the attention of Jen Provis – [Jennifer.Provis@bristol.ac.uk](mailto:Jennifer.Provis@bristol.ac.uk) or x10005. Thank you.





## Focus on Fathers

Oakfield House, Oakfield Grove  
Clifton, Bristol BS8 2BN

Tel: 0117 331 0012

There is an answer phone on this line

E-mail: [focus-admin@bristol.ac.uk](mailto:focus-admin@bristol.ac.uk)

Visit Number \_\_\_\_\_

## 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) Storage of questionnaire data for future research	<input type="checkbox"/>	<input type="text"/>		
(b) DXA scan of bone density, fat and muscle mass	<input type="checkbox"/>	<input type="text"/>		
(c) Weight, height, waist, hip and arm circumference	<input type="checkbox"/>	<input type="text"/>		
(d) Blood pressure* and pulse pressure	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
(e) Ultrasound scan of arteries in your neck (Carotid artery intima media thickness)	<input type="checkbox"/>	<input type="text"/>		
(f) Face shape	<input type="checkbox"/>	<input type="text"/>		
(g) Other cardiovascular measures	<input type="checkbox"/>	<input type="text"/>		
I understand that donated blood and urine will be considered a gift but I will have the right to withdraw permission for analysis.				
(i) Blood haemoglobin (test for anaemia)*	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
(j) Blood glucose (sugar)*	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
(k) Blood total cholesterol*	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
(l) Urine for proteins and other substances	<input type="checkbox"/>	<input type="text"/>		
(m) Storage of blood and urine data for future research	<input type="checkbox"/>	<input type="text"/>		

Signature

Date signed

<input type="text"/>	<input type="text"/>	/	<input type="text"/>	<input type="text"/>	/	2	0	<input type="text"/>	<input type="text"/>
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Initial

Last Name

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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**PLEASE TURN OVER**

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



## Focus on Fathers

Oakfield House, Oakfield Grove  
Clifton, Bristol BS8 2BN

Tel: 0117 331 0012  
There is an answer phone on this line  
E-mail: [focus-admin@bristol.ac.uk](mailto:focus-admin@bristol.ac.uk)

**PLEASE ENSURE  
BARCODE LABEL IS  
ON OTHER SIDE**

## 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

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Initial

Last Name

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