## THE ALSPAC STUDY

# **PUB9 FILE**

## DATA COLLECTED FROM THE QUESTIONNAIRE

# Growing and Changing (9) At 204 Months

# Prepared by

# The ALSPAC Study Team

Documentation giving frequencies, background and instructions for use.

Last updated for version 1a of the built file.

**July 2010** 

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## Introduction

#### Contents

The eighth in the series of puberty questionnaires was sent out to the study teenager when they were 204 months old. It is identical to "Growing and Changing (8)".

## **Male Tanner Genital Staging**

As a consequence of an ongoing project conducted by Carol Rubin, serious problems with the male Tanner genital stage data have come to light. When the data from the first five puberty questionnaires were analyzed longitudinally, it was found that 27% of males went backwards in genital stage. This is in contrast with 3-4% going backwards for each of male pubic hair stage, female breast stage and female pubic hair stage. In addition, even after exclusion of males who go backwards in genital stage and males less than 10 years old, the estimated ages at transition into Tanner genital stages 2 or 3 produced by the modeling process are at least a year earlier than expected. It is strongly recommended that the male Tanner genital stage data (variable PUB950 on this file) are not used.

#### **Questionnaire versions**

There was only one version of each of the male and female copies of this questionnaire.

#### Sample & response rates

There are a total of 15,143 records on this built file. This number is made up of the 14,676 fetuses in the core ALSPAC sample (regardless of whether or not this questionnaire was sent out to them or whether it was returned) plus 467 eligible children not in the core sample to whom questionnaires were sent out. Note that questionnaires were completed by 193 of these 467 children.

Of the 14,676 fetuses in the core ALSPAC sample, 14,062 were live born. This questionnaire was sent out to 9,357 (67%) of these live born children. As of 30<sup>th</sup> June 2010 completed questionnaires had been returned by 4,177 (45%) of these children, which is 30% of the 14,062 live born children. For further information on the ALSPAC sample, please see section 5 of the "Guide to ALSPAC data" which can be found in the "Collaborator Pack" on the ALSPAC documentation CD.

Note that 4 of the 4,370 completed questionnaires belong to children from triplet or quadruplet pregnancies, all of whom are in the core sample. For reasons of confidentiality the data for these children are not available. The administrative variables PUB981-PUB987 remain, but PUB987a has been set to 2 "No" and all other variables have been set to –11.

#### Format of this documentation

The bulk of this documentation consists of the text of the questionnaire interspersed with editing notes and frequency tables of the variables on the data file.

## PUB9 File - Introduction

# **Built file version history**

Built version 1a – July 2010
The first version of the built file.

# **Administrative variables**

#### pub981 Questionnaire sent

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	9824	64.9	64.9	64.9
	2 No	5319	35.1	35.1	100.0
	Total	15143	100.0	100.0	

## pub982 Reminder sent

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	6472	42.7	65.9	65.9
	2 No	3352	22.1	34.1	100.0
	Total	9824	64.9	100.0	
Missing	-2 Questionnaire not sent	5319	35.1		
Total		15143	100.0		

#### pub985 Questionnaire return status (as of 30/06/10)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Not returned	5432	35.9	55.3	55.3
	2 Returned, completed	4370	28.9	44.5	99.8
	3 Returned, blank	22	.1	.2	100.0
	Total	9824	64.9	100.0	
Missing	-2 Questionnaire not sent	5319	35.1		
Total		15143	100.0		

## pub986 Questionnaire returned (as of 30/06/10)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4392	29.0	44.7	44.7
	2 No	5432	35.9	55.3	100.0
	Total	9824	64.9	100.0	
Missing	-2 Questionnaire not sent	5319	35.1		
Total		15143	100.0		

#### pub987 Questionnaire completed (as of 30/06/10)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4370	28.9	44.5	44.5
	2 No	5454	36.0	55.5	100.0
	Total	9824	64.9	100.0	
Missing	-2 Questionnaire not sent	5319	35.1		
Total		15143	100.0		

#### pub987a Data available (as of 30/06/10)

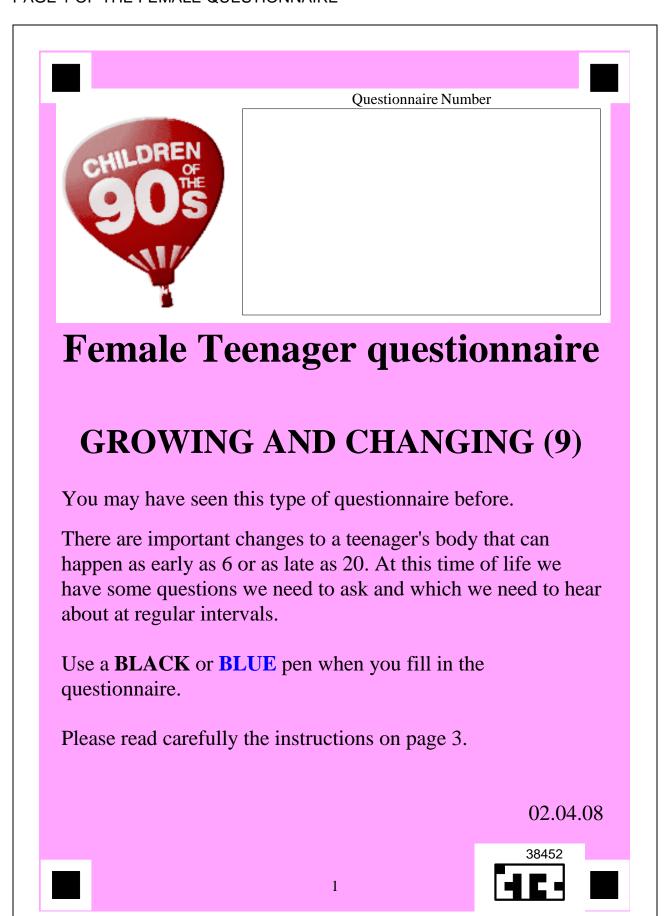
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4366	28.8	28.8	28.8
	2 No	10777	71.2	71.2	100.0
	Total	15143	100.0	100.0	

## PUB9 File - Introduction

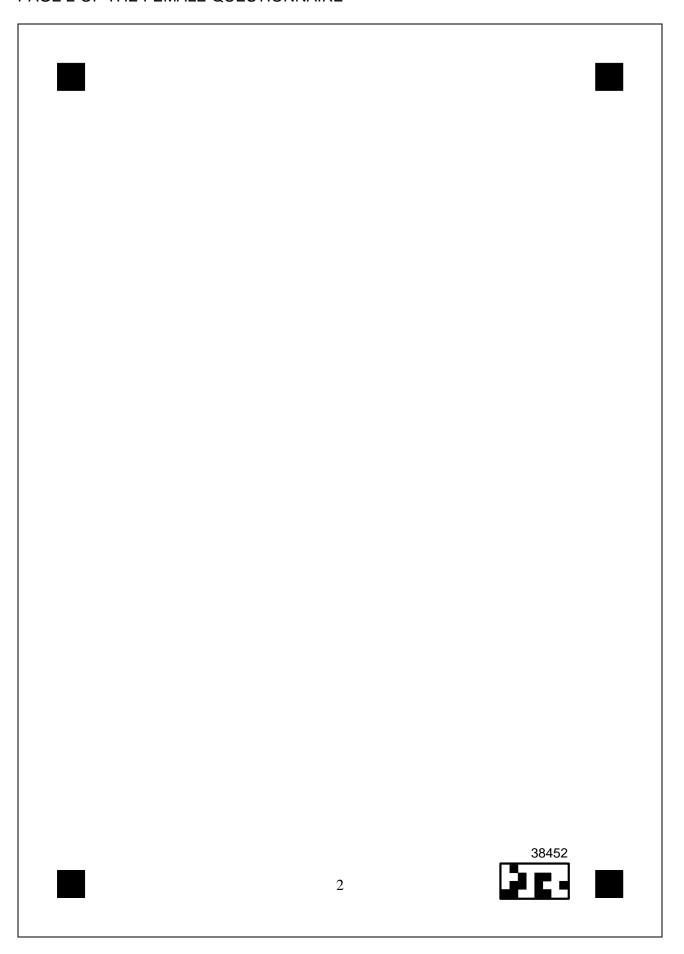
## pub988 Questionnaire version

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Female version 1 - 02/04/08	2601	17.2	59.6	59.6
	2 Male version 1 - 01/04/08	1765	11.7	40.4	100.0
	Total	4366	28.8	100.0	
Missing	-11 Triplet / quadruplet	4	.0		
	-10 Not completed	10773	71.1		
	Total	10777	71.2		
Total		15143	100.0		

#### PAGE 1 OF THE FEMALE QUESTIONNAIRE



## PAGE 2 OF THE FEMALE QUESTIONNAIRE



## PAGE 3 OF THE FEMALE QUESTIONNAIRE

You will have seen fairly recently that we now have an electronic scanner that will record your answers automatically.

So, please mark your answers with a cross like this:

If you make a mistake, shade the box in like this:



If you are writing numbers make sure they are inside the box like this:

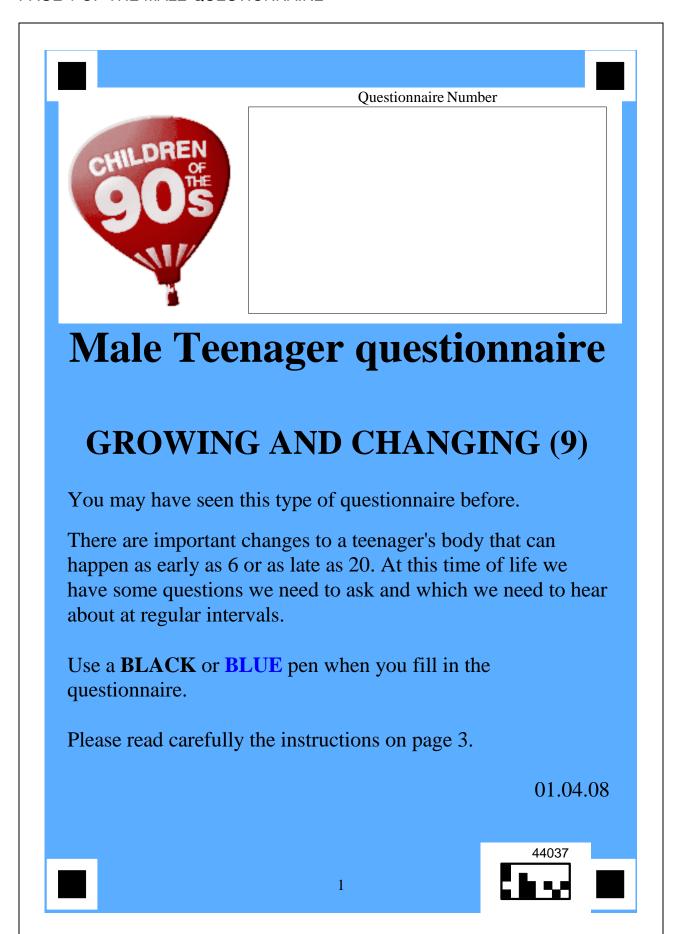
Use a **BLACK** or **BLUE** pen

Your answers will of course still be completely confidential and not attached to your actual name

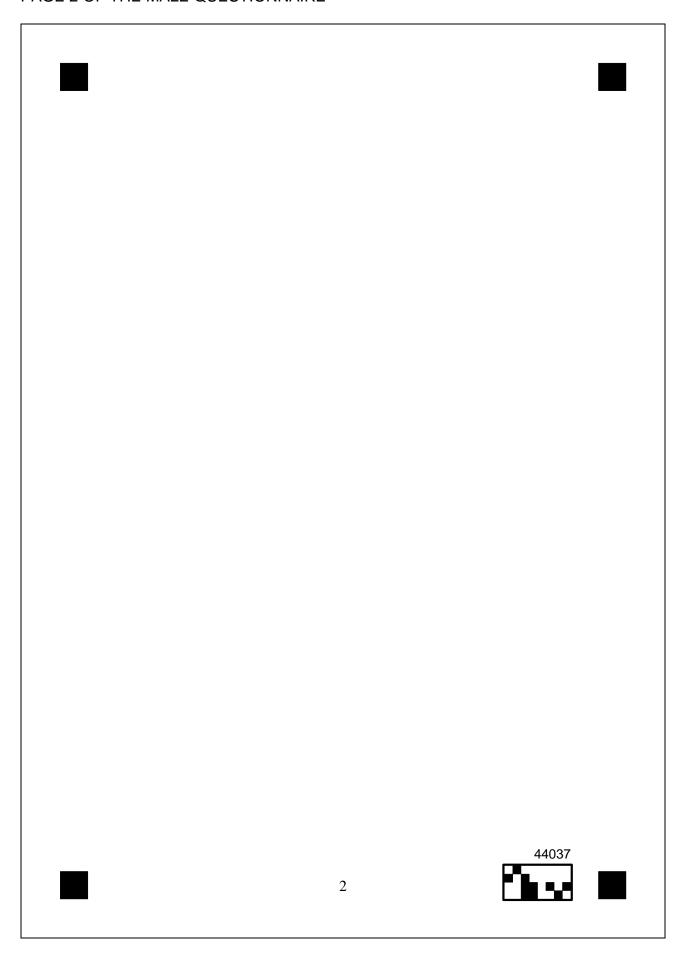
38452

3

#### PAGE 1 OF THE MALE QUESTIONNAIRE



## PAGE 2 OF THE MALE QUESTIONNAIRE



#### PAGE 3 OF THE MALE QUESTIONNAIRE

You will have seen fairly recently that we now have an electronic scanner that will record your answers automatically.

So, please mark your answers with a cross like this:

If you make a mistake, shade the box in like this:



Then cross the correct box.

If you are writing numbers make sure they are inside the box like this:

6

Use a **BLACK** or **BLUE** pen

Your answers will of course still be completely confidential and not attached to your actual name

## PAGE 4 OF THE FEMALE QUESTIONNAIRE

head	best way to measure <b>hei</b> , and then ask someone to, and to measure the dist	o make a mark on t		
	feet inches	or OR	metres centi	metres
	t is your weight (withou se fill in using kilos or s			
	stones pounds	OR	kilos	
vigo	e past month, what was rous physical activity (s bics)?	_		_
	none	1	4-6 times a week	4 🔲
	less than once a week	2 🔲	daily	5 🗖
	10:	3 🔲		
	1-3 times a week			
	1-3 times a week			

## PAGE 5 OF THE FEMALE QUESTIONNAIRE

	ve you started your po					
	Yes ¹□ No	2 🗆 —	➤ If <u>no</u> , ples	ase go to A	A10 on page 7	
If <u>yes</u> ,						
a)	How old were you v	when you had	l your first pe	riod?		
		years old				
A5. W	hen exactly was your	first period?				
	month	year	•			
A6. a)	In the <b>past year</b> , ho each period?	w many <b>day</b>	s of bleeding	have you	usually had during	
	Number of days		It varies	88	Don't know 9	9 🗖
b)	If you don't know,	or if it varie	s is it probab	ly:		
	3 days or less	1 🔲				
	4-6 days	2 🔲				
	7 days or more	3 🔲				
words,	the past year, how m how many days were kt period?					
	Number of days		It varied	88	Don't know 9	9 🗖

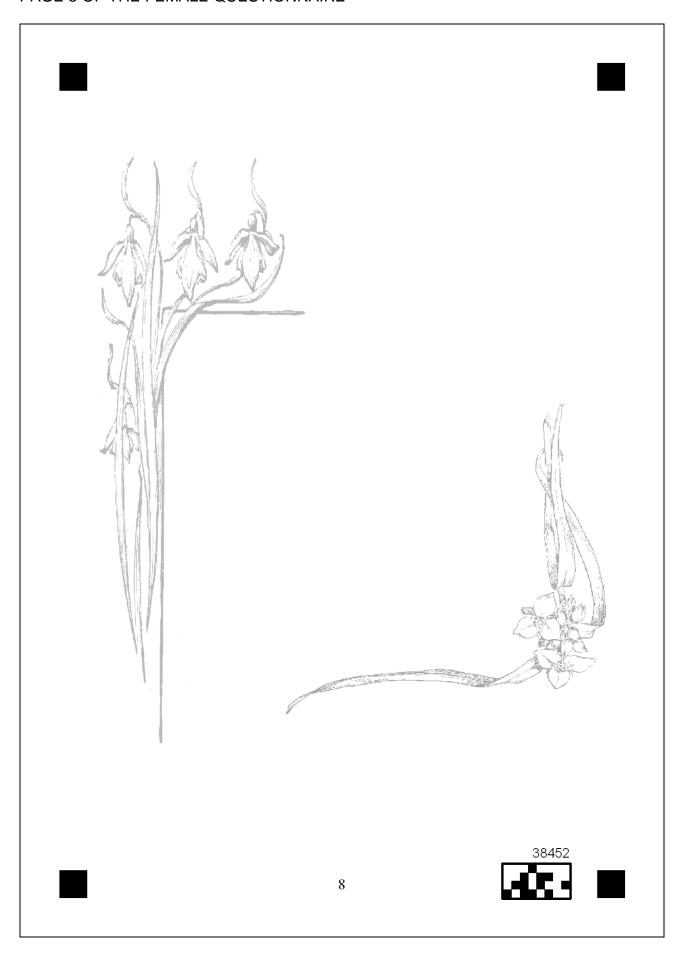
## PAGE 6 OF THE FEMALE QUESTIONNAIRE

		ou <b>ever</b>	had any of th	e follov	wing symptoms associated with your period	?
a)	Hea	vy or	prolonged ble	eeding		
		Yes	1 🔲	No	<sup>2</sup> ☐ Fig. 30 to A8b below	
If <u>ves</u> ,	i)	did yo	ou contact a de	octor fo	or this?	
		Yes	1 🔲	No	2 🗖	
b)	Sev	ere <b>cr</b> a	amps with you	ır perio	od?	
		Yes	1 🔲	No	2 🗖	
If <u>yes</u> ,	i)	did yo	ou contact you	r docto	or for this?	
		Yes	1 🔲	No	2 🗖	
c)					our <b>pelvic</b> area (lower part of your tummy) for when you are not bleeding?	
		Yes	1 🔲	No	2 🗖	
If <u>yes</u> ,						
	i)	Did y	ou contact you	ır docto	or for this?	
		Yes	1 🔲	No	2 🗖	

## PAGE 7 OF THE FEMALE QUESTIONNAIRE

S a		l	ما مسم مسئطاء	desir mania da a a de a a	um blanding impaulan
		eir GP may p	rescribe the	_	wy bleeding, irregular pill (which can be called
	ive you taken ora st 12 months?	al contraceptiv	ves or birth	control pills, for any	reason during the
	Yes 1 □	No	2 🔲	Don't know 9	
A10.	a) Has a doc take thyroid m			ı had a <b>thyroid pro</b> b	<b>lem</b> or asked you to
	Yes 1 □	No	2	Don't know 9	
If	<u>yes</u> ,				
	b) What kind	i oi triyroid p	robiem did	the doctor say you h	au:
A11.	Have you start	ed to have ha	ir growing	in the armpits?	
	Yes 1 □	No	2 🔲		
			7		38452

## PAGE 8 OF THE FEMALE QUESTIONNAIRE



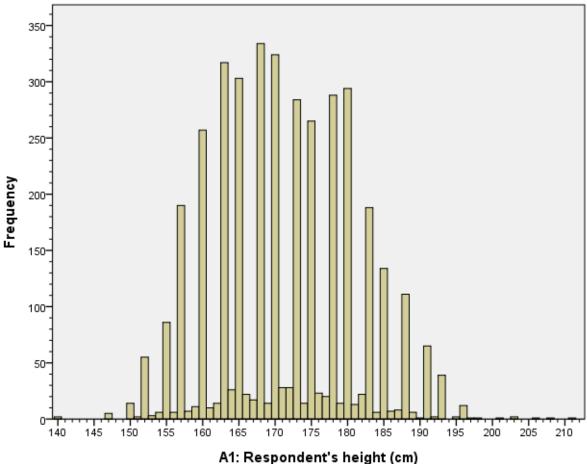
## PAGE 4 OF THE MALE QUESTIONNAIRE

Section A			
	<b>neight</b> is to see to make a	tand barefoot as straight as p mark on the wall at the highe n the mark to the floor.	
feet inche	es	OR metres	centimetres
A2. What is your weight (with Please fill in using kilos or			
stones por	unds	OR kilos	
A3. In the past month, what wa <b>vigorous</b> physical activity	_	ge number of times that you paning, football, swimming, at	-
none	1	4-6 times a week	4 🔲
less than once a week	2	daily	5 🔲
1-3 times a week	3 🔲		
A4. Has your voice changed at	all?		
no it is the same	1	yes, occasionally it is a lot lower	2 🗖
yes, it has now changed totally	3 🔲	not sure	4 🗖
A5. Have you started to have h	nair growing	in the armpits?	
Yes ¹□	No ²□		
			44037
		4	

[Editing: Twenty-eight reported imperial heights for which the number of inches did not correspond to the number of feet (e.g. 5ft 79in) were set to -1. One reported imperial measurement with values only in the inches box (in the valid range of 0-11) were set to -1, as were fourteen other outlying imperial measurements. For thirty-eight imperial heights for which the inches box was left blank (sixteen of 5ft and eighteen of 6ft) the inches variable was recoded to 0. Two reported metric measurements with values only in the cm box (in the valid range of 0-99) were set to -1, as were ten other outlying metric measurements.

A single variable for height in cm was then created using a conversion factor of 1in = 2.54cm for imperial measurements (rounding to the nearest integer). If both imperial and metric heights were reported then the metric height was taken unless the two heights were not equivalent and the imperial height was closer to the median (5ft 11in for males and 5ft 5in for females).]

pub903 A1: Respondent's height (cm)



plus the following missing values:

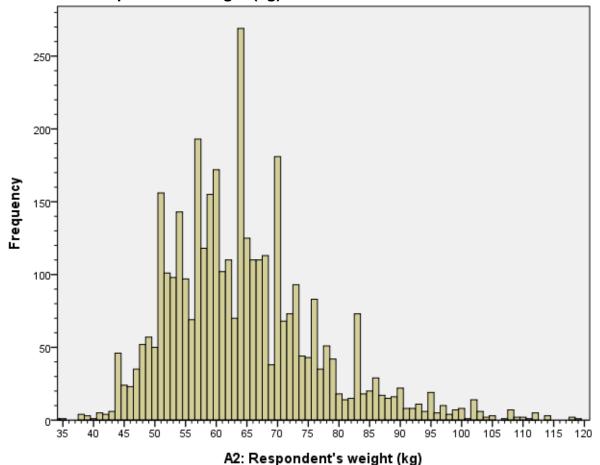
pub903 A1: Respondent's height (cm)

panete i i i i i i i i i i i i i i i i i i						
		Frequency	Percent			
Missing	-1 No response	459	100.0			

[Editing: Thirty-five reported imperial weights for which the number of pounds did not correspond to the number of stones (e.g. 8st 95lb) were set to -1. For two hundred and twenty-five imperial weights for which the pounds box was left blank the pounds variable was recoded to 0.

Three reported metric measurements less than 30kg were set to -1. A single variable for weight in kg was then created using a conversion factor of 1lb = 0.4536kg for imperial measurements (rounding to the nearest integer). If both imperial and metric weights were reported then the metric weight was taken unless the two weights were not equivalent and the imperial weight was closer to the median (69kg for males and 59kg for females).]

pub904 A2: Respondent's weight (kg)



plus the following missing values and outliers < 35 or > 120:

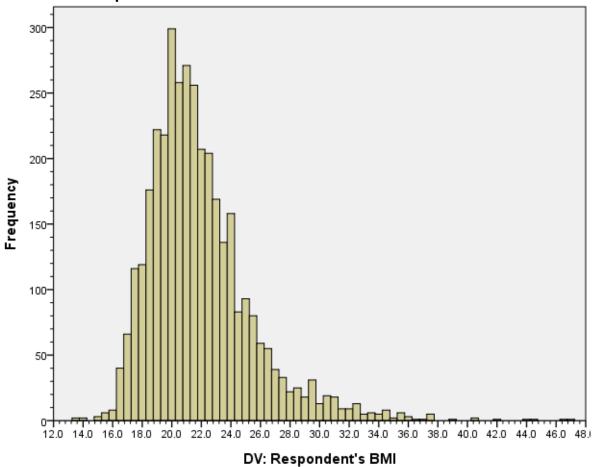
pub904 A2: Respondent's weight (kg)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	34	1	.2	16.7	16.7
	121	1	.2	16.7	33.3
	127	1	.2	16.7	50.0
	129	1	.2	16.7	66.7
	135	1	.2	16.7	83.3
	140	1	.2	16.7	100.0
	Total	6	1.0	100.0	
Missing	-1 No response	594	99.0		
Total		600	100.0		

## **Derived variable - BMI**

Body Mass Index (BMI) is calculated as PUB905 from PUB903 and PUB904 as weight (in kg) divided by height (in m) squared rounded to 1 decimal place. Missing values of -6 were copied across and if either component had value -1 then the BMI was also set to -1.

pub905 DV: Respondent's BMI



·

plus the following missing values:

pub905 DV: Respondent's BMI

		Frequency	Percent
Missing	-1.0 Missing	761	100.0

pub909 A3: Average number of times respondent participated in vigorous activity in past month

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 None	473	10.8	11.0	11.0
	2 <1 per week	1081	24.8	25.1	36.1
	3 1-3 per week	1756	40.2	40.7	76.8
	4 4-6 per week	650	14.9	15.1	91.9
	5 Daily	350	8.0	8.1	100.0
	Total	4310	98.7	100.0	
Missing	-1 Not stated	56	1.3		
Total		4366	100.0		

## **Question A4 (male)**

pub960 A4 (male): Respondent's voice has changed

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	386	8.8	22.1	22.1
	2 Yes, occasionally a lot lower	169	3.9	9.7	31.7
	3 Yes, has changed totally	1010	23.1	57.7	89.4
	4 Not sure	185	4.2	10.6	100.0
	Total	1750	40.1	100.0	
Missing	-7 Respondent is female	2601	59.6		
	-1 Not stated	15	.3		
	Total	2616	59.9		
Total		4366	100.0		

## **Question A4 (female)**

[Editing: Sixteen respondents left the initial part of A4 blank but reported an age in A4a and went on to make a number of relevant responses to questions A5 to A9. The initial part of A4 was therefore recoded to 1 for all of these cases. Then if the variable for the initial part of A4 had value -1 the variables for A4 to A9 were all set to -6 and if the variable for the initial part of A4 had value 2 the variables for A4a to A9 were all set to -2.]

pub910 A4 (female): Respondent has started menstrual periods

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2577	59.0	99.7	99.7
	2 No	8	.2	.3	100.0
	Total	2585	59.2	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	Total	1781	40.8		
Total		4366	100.0		

pub911 A4a: Age of respondent when first period occurred

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	8	1	.0	.0	.0
	9	13	.3	.5	.6
	10	92	2.1	3.7	4.2
	11	443	10.1	17.6	21.8
	12	687	15.7	27.3	49.2
	13	779	17.8	31.0	80.2
	14	365	8.4	14.5	94.7
	15	104	2.4	4.1	98.8
	16	28	.6	1.1	100.0
	17	1	.0	.0	100.0
	Total	2513	57.6	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-2 Periods not started	8	.2		
	-1 Not stated	64	1.5		
	Total	1853	42.4		
Total		4366	100.0		

## **Question A5 (female)**

[Editing: A variable was then created as PUB913c indicating which components of the date were missing. Then if a year had been reported but not a month the month was imputed as 6 unless the reported year equalled the year of receipt in which case the month was set to the month of receipt divided by 2 and rounded to nearest integer. If a month had been reported but not a year then the month was recoded to -1.]

pub913a A5: Date of first period - month

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	194	4.4	9.2	9.2
	2 February	138	3.2	6.5	15.7
	3 March	113	2.6	5.3	21.0
	4 April	154	3.5	7.3	28.3
	5 May	155	3.6	7.3	35.7
	6 June	279	6.4	13.2	48.8
	7 July	153	3.5	7.2	56.1
	8 August	274	6.3	13.0	69.0
	9 September	198	4.5	9.4	78.4
	10 October	163	3.7	7.7	86.1
	11 November	154	3.5	7.3	93.4
	12 December	140	3.2	6.6	100.0
	Total	2115	48.4	100.0	
Missing	-7 Respondent is male	1765	40.4		
	<ul><li>-6 Questions A4 to A9 omitted</li></ul>	16	.4		
	-2 Periods not started	8	.2		
	-1 Not stated	462	10.6		
	Total	2251	51.6		
Total		4366	100.0		

pub913b A5: Date of first period - year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2000	7	.2	.3	.3
	2001	41	.9	1.9	2.3
	2002	171	3.9	8.1	10.4
	2003	381	8.7	18.0	28.4
	2004	598	13.7	28.3	56.6
	2005	512	11.7	24.2	80.9
	2006	280	6.4	13.2	94.1
	2007	95	2.2	4.5	98.6
	2008	24	.5	1.1	99.7
	2009	6	.1	.3	100.0
	Total	2115	48.4	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-2 Periods not started	8	.2		
	-1 Not stated	462	10.6		
	Total	2251	51.6		
Total		4366	100.0		

## PUB9 File - Section A

pub913c DV: Components missing (after identification of illegal dates)

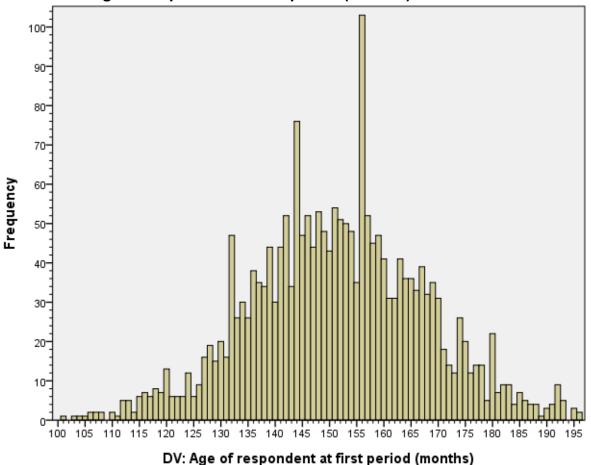
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None	2020	46.3	78.4	78.4
	1 Month only	95	2.2	3.7	82.1
	2 Year only	24	.5	.9	83.0
	3 Month and year	438	10.0	17.0	100.0
	Total	2577	59.0	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-2 Periods not started	8	.2		
	Total	1789	41.0		
Total		4366	100.0		

#### Derived variable - Age at first period

The age of the respondent at her first period was calculated in months as PUB912 from the date of first period and the date of birth from ALSPAC's central database. For the purposes of this calculation the day of first period was assumed to be 15 unless the first period occurred in the same month & year as the questionnaire was completed, in which case it was set to the day of completion divided by 2 and rounded to nearest integer.

If the month of first period was the same as the month of birth then PUB912 was checked against the reported age in years from A4a (PUB911) and manual adjustment made to ensure compatibility if possible. For example, if PUB911 was 12 and the month of first period was the same as the month of birth then values of 143 in PUB912 were recoded to 144 and values of 156 recoded to 155. However, some inconsistencies remain between PUB911 and PUB912 because the reported values are not compatible.

PUB912 DV: Age of respondent at first period (months)



plus the following missing values and outliers > 196:

## PUB9 File – Section A

pub912 DV: Age of respondent at first period (months)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	199	1	.0	20.0	20.0
	200	2	.1	40.0	60.0
	203	2	.1	40.0	100.0
	Total	5	.2	100.0	
Missing	-7 Respondent is male	1765	78.2		
	-6 Questions A4 to A9 omitted	16	.7		
	-2 Periods not started	8	.4		
	-1 Missing	462	20.5		
	Total	2251	99.8		
Total		2256	100.0		

[Editing: The information from part a of this question was captured as three separate variables with some instances of multiple entries. For example, one hundred and six respondents reported a number of days and also ticked "It varies". The information was combined into a single variable PUB915 by taking the reported number of days and recoding values of -1 to -3 if "It varies" had been ticked and then recoding values of -1 to -9 if "Don't know" had been ticked. So a reported number of days was taken in preference to either tick and "It varies" in preference to "Don't know".]

pub915 A6a: Usual number of days of bleeding during each of the respondent's periods in the past year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	12	.3	.6	.6
	2	9	.2	.5	1.1
	3	107	2.5	5.7	6.8
	4	359	8.2	19.0	25.8
	5	700	16.0	37.1	63.0
	6	339	7.8	18.0	81.0
	7	296	6.8	15.7	96.7
	8	39	.9	2.1	98.7
	9	8	.2	.4	99.2
	10	7	.2	.4	99.5
	11	2	.0	.1	99.6
	12	3	.1	.2	99.8
	14	1	.0	.1	99.8
	21	1	.0	.1	99.9
	24	1	.0	.1	99.9
	60	1	.0	.1	100.0
	Total	1885	43.2	100.0	
Missing	-9 Don't know	59	1.4		
	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-3 It varies	607	13.9		
	-2 Periods not started	8	.2		
	-1 Not stated	26	.6		
	Total	2481	56.8		
Total		4366	100.0		

pub916 A6b: Estimated usual number of days of bleeding during each of the respondent's periods in the past year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 3 or less	75	1.7	9.0	9.0
	2 4 to 6	656	15.0	78.6	87.5
	3 7 or more	104	2.4	12.5	100.0
	Total	835	19.1	100.0	u.
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-2 Periods not started	8	.2		
	-1 Not stated	1742	39.9		
	Total	3531	80.9		
Total		4366	100.0		

[Editing: The information from this question was captured as three separate variables with some instance of multiple entries. For example, fifty-one respondents reported a number of days and also ticked "It varies". The information was combined into a single variable PUB917 by taking the reported number of days and recoding values of -1 to -3 if "It varies" had been ticked and then recoding values of -1 to -9 if "Don't know" had been ticked. So a reported number of days was taken in preference to either tick and "It varies" in preference to "Don't know".]

pub917 A7: Usual length of respondent's menstrual cycle in the past year

A7: Usual length of respondent's menstrual cycle in the past year

plus the following missing values and outliers > 60:

pub917 A7: Usual length of respondent's menstrual cycle in the past year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	70	1	.0	33.3	33.3
	71	1	.0	33.3	66.7
	99	1	.0	33.3	100.0
	Total	3	.1	100.0	
Missing	-9 Don't know	330	10.5		
	-7 Respondent is male	1765	56.4		
	-6 Questions A4 to A9 omitted	16	.5		
	-3 It varies	954	30.5		
	-2 Periods not started	8	.3		
	-1 Not stated	52	1.7		
	Total	3125	99.9		
Total		3128	100.0		

[Editing: For each of parts a, b and c if the initial indicator variable had value 2 then the variable for (i) was set to -3 and if the initial indicator variable had value -1 then both variables for that part were set to -5.]

pub920 A8a: Respondent has had heavy or prolonged bleeding associated with period

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	920	21.1	35.9	35.9
	2 No	1642	37.6	64.1	100.0
	Total	2562	58.7	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-5 Question A8a omitted	15	.3		
	-2 Periods not started	8	.2		
	Total	1804	41.3		
Total		4366	100.0		

pub921 A8a1: Doctor contacted about period associated heavy or prolonged bleeding

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	289	6.6	31.6	31.6
	2 No	626	14.3	68.4	100.0
	Total	915	21.0	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-5 Question A8a omitted	15	.3		
	-3 No heavy bleeding	1642	37.6		
	-2 Periods not started	8	.2		
	-1 Not stated	5	.1		
	Total	3451	79.0		
Total		4366	100.0		

pub922 A8b: Respondent has had severe cramps associated with period

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1451	33.2	57.9	57.9
	2 No	1054	24.1	42.1	100.0
	Total	2505	57.4	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-5 Question A8b omitted	72	1.6		
	-2 Periods not started	8	.2		
	Total	1861	42.6		
Total		4366	100.0		

pub923 A8b1: Doctor contacted about period associated severe cramps

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	371	8.5	25.8	25.8
	2 No	1069	24.5	74.2	100.0
	Total	1440	33.0	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-5 Question A8b omitted	72	1.6		
	-3 No severe cramps	1054	24.1		
	-2 Periods not started	8	.2		
	-1 Not stated	11	.3		
	Total	2926	67.0		
Total		4366	100.0		

pub924 A8c: Respondent has had period-type pain(s) in pelvic area most days of month even when not bleeding

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	504	11.5	20.3	20.3
	2 No	1974	45.2	79.7	100.0
	Total	2478	56.8	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-5 Question A8c omitted	99	2.3		
	-2 Periods not started	8	.2		
	Total	1888	43.2		
Total		4366	100.0		

pub925 A8c1: Doctor contacted about period-type pain in pelvic area occurring when not bleeding

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	134	3.1	26.8	26.8
	2 No	366	8.4	73.2	100.0
	Total	500	11.5	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-5 Question A8c omitted	99	2.3		
	-3 No period-type pains when not bleeding	1974	45.2		
	-2 Periods not started	8	.2		
	-1 Not stated	4	.1		
	Total	3866	88.5		
Total		4366	100.0		

pub927 A9: Respondent has taken oral contraceptives/birth control pills in past year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1110	25.4	43.4	43.4
	2 No	1435	32.9	56.1	99.5
	9 Don't know	14	.3	.5	100.0
	Total	2559	58.6	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-6 Questions A4 to A9 omitted	16	.4		
	-2 Periods not started	8	.2		
	-1 Not stated	18	.4		
	Total	1807	41.4		
Total		4366	100.0		

## **Question A10**

pub928 A10a: Doctor has advised respondent of Thyroid problem or to take Thyroid medicine/treatment

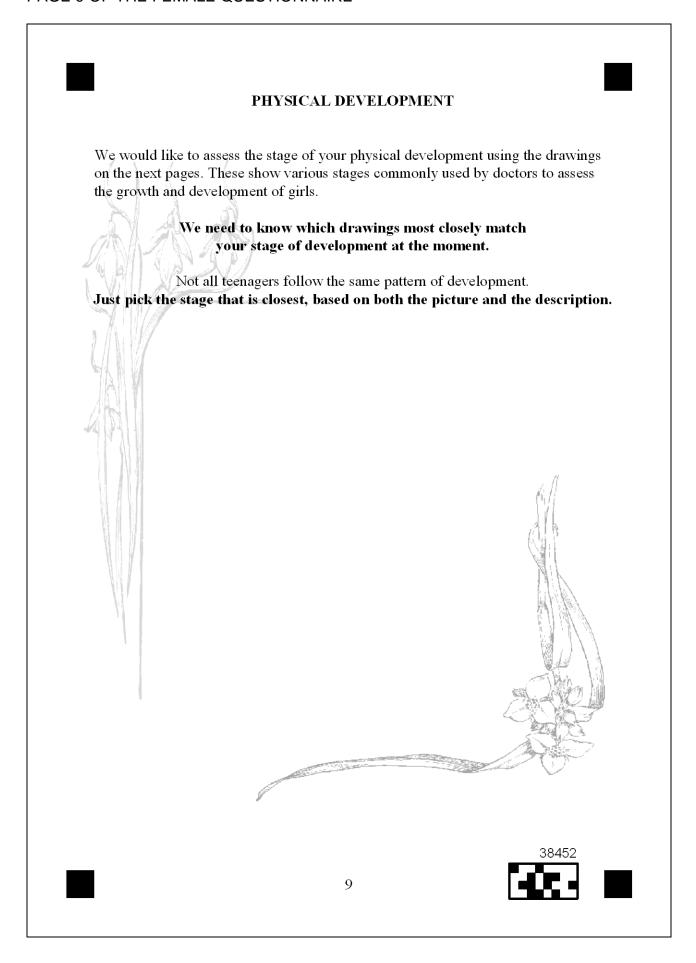
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	25	.6	1.0	1.0
	2 No	2502	57.3	97.8	98.7
	9 Don't know	32	.7	1.3	100.0
	Total	2559	58.6	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-1 Not stated	42	1.0		
	Total	1807	41.4		
Total		4366	100.0		

## Question A11 (female) / A4 (male)

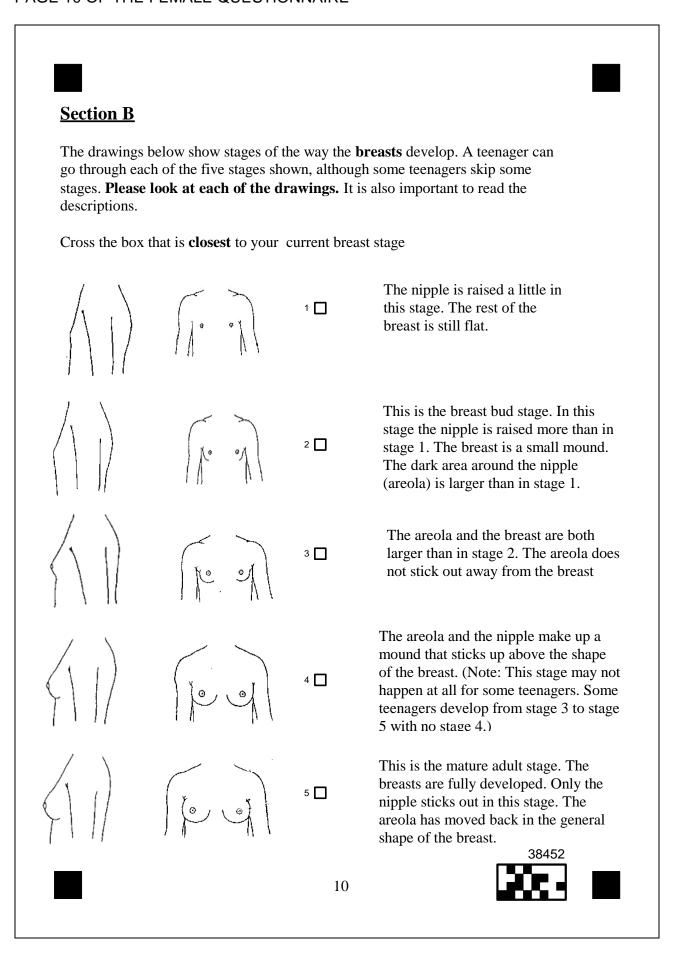
pub970 A11 (female) / A5 (male): Hair has started to grow in respondent's armpits

urmpits					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4266	97.7	99.0	99.0
	2 No	42	1.0	1.0	100.0
	Total	4308	98.7	100.0	
Missing	-1 Not stated	58	1.3		
Total		4366	100.0		

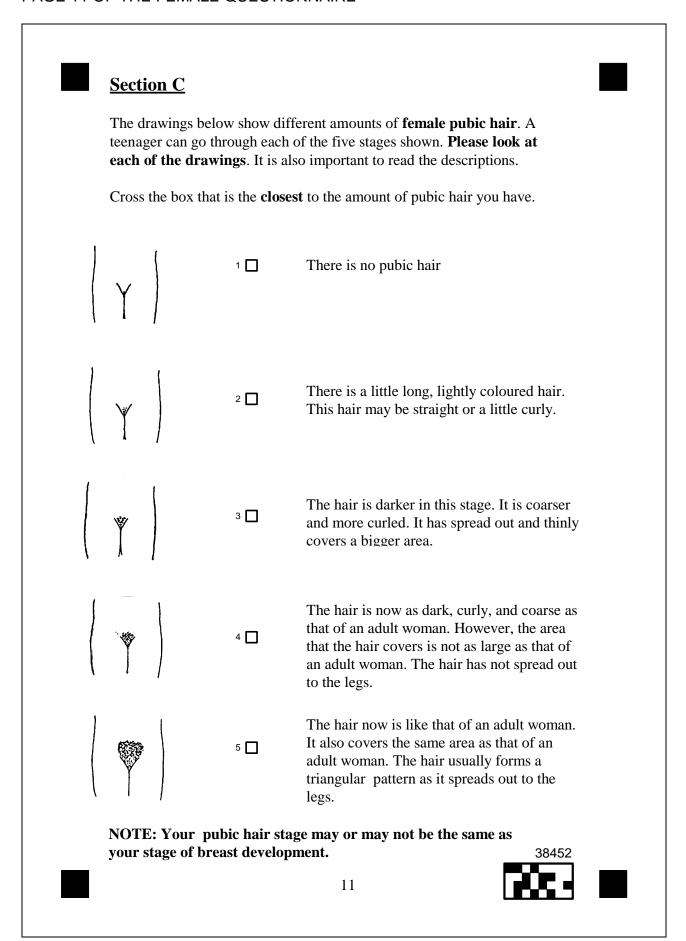
## PAGE 9 OF THE FEMALE QUESTIONNAIRE



## PAGE 10 OF THE FEMALE QUESTIONNAIRE



#### PAGE 11 OF THE FEMALE QUESTIONNAIRE



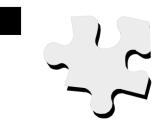
pub930 B (female): Development stage of breasts

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 Stage 2	9	.2	.4	.4
	3 Stage 3	90	2.1	3.5	3.9
	4 Stage 4	951	21.8	37.0	40.8
	5 Stage 5	1521	34.8	59.2	100.0
	Total	2571	58.9	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-1 Not stated	30	.7		
	Total	1795	41.1		
Total		4366	100.0		

## pub935 C (female): Development stage of pubic hair

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stage 1	18	.4	.7	.7
	2 Stage 2	4	.1	.2	.9
	3 Stage 3	27	.6	1.1	1.9
	4 Stage 4	530	12.1	20.8	22.7
	5 Stage 5	1972	45.2	77.3	100.0
	Total	2551	58.4	100.0	
Missing	-7 Respondent is male	1765	40.4		
	-1 Not stated	50	1.1		
	Total	1815	41.6		
Total		4366	100.0		

#### PAGE 5 OF THE MALE QUESTIONNAIRE



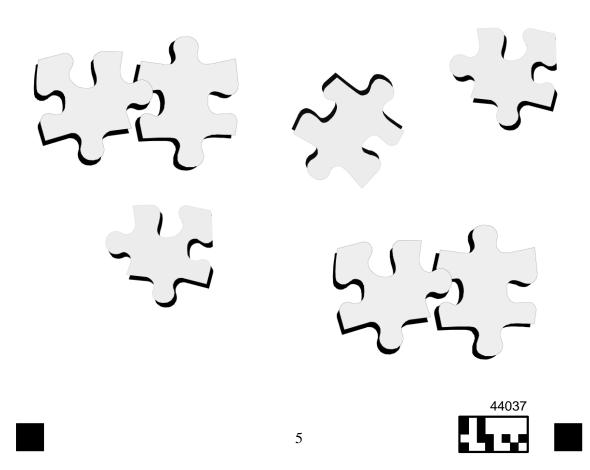
#### PHYSICAL DEVELOPMENT

We would like to assess the stage of your physical development using the drawings on the next pages. These show various stages commonly used by doctors to assess the growth and development of boys.

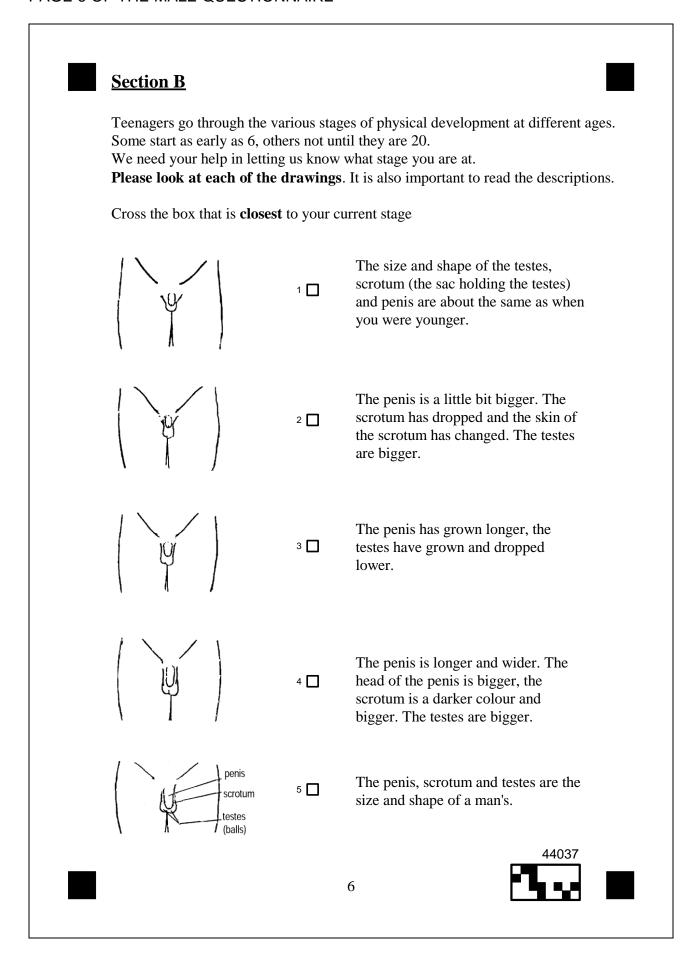
We need to know which drawings most closely match your stage of development at the moment.

Not all teenagers follow the same pattern of development.

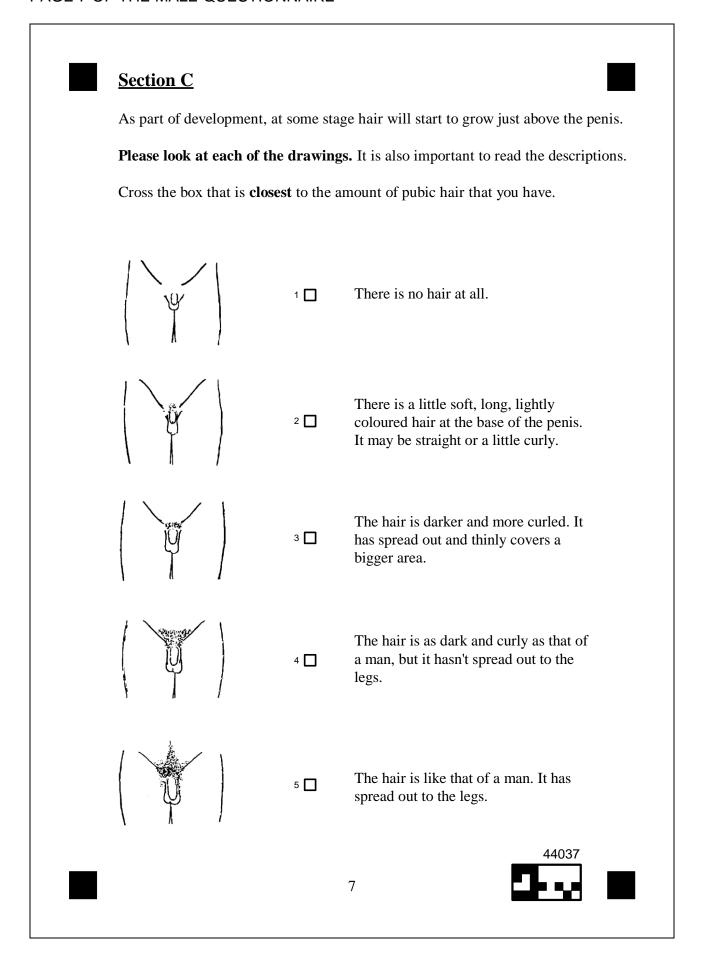
Just pick the stage that is closest, based on both the picture and the description.



#### PAGE 6 OF THE MALE QUESTIONNAIRE



#### PAGE 7 OF THE MALE QUESTIONNAIRE



pub950 B (male): Development stage of testes, scrotum and penis

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stage 1	5	.1	.3	.3
	2 Stage 2	10	.2	.7	1.0
	3 Stage 3	56	1.3	3.7	4.7
	4 Stage 4	388	8.9	25.4	30.1
	5 Stage 5	1066	24.4	69.9	100.0
	Total	1525	34.9	100.0	
Missing	-7 Respondent is female	2601	59.6		
	-1 Not stated	240	5.5		
	Total	2841	65.1		
Total		4366	100.0		

pub955 C (male): Development stage of pubic hair

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stage 1	4	.1	.2	.2
	2 Stage 2	5	.1	.3	.5
	3 Stage 3	13	.3	.8	1.3
	4 Stage 4	350	8.0	20.2	21.5
	5 Stage 5	1361	31.2	78.5	100.0
	Total	1733	39.7	100.0	
Missing	-7 Respondent is female	2601	59.6		
	-1 Not stated	32	.7		
	Total	2633	60.3		
Total		4366	100.0		

## PAGE 12 OF THE FEMALE QUESTIONNAIRE

Section D  D1. Did you have a	ny help to fill this in	?			
No 1					
Yes <sup>2</sup>					
<b>If <u>yes</u></b> , plea	se say who helped yo	ou:			
a) A	parent helped	1 🔲			
b) So	omeone else helped	1 🔲			
D2. What is your da	Day te of birth?  Day	/	Month  Month	] / [	Year  1 9 9  Year
D3. What is today's		/		/ [	2 0 0
	Thank you VE	RY mu	ch for yo	ur help	)
When completed, p	lease send this back	to:			
	Children of t 24 Tyndall A Bristol BS8 1BR		ties - ALSI	PAC	
coder	Offfice us				University of Bristol
	http://www.als	spac.oris.	ac.uk/uisco	vei y	38452

## PAGE 8 OF THE MALE QUESTIONNAIRE

Section D						
D1. Did you have any help to fill this in?						
No 1 🗆						
Yes <sup>2</sup> $\downarrow$						
If yes, please say who helped you:						
a) A parent helped ¹□						
b) Someone else helped ¹□						
Day Month Year  D2. What is your date of birth?						
Day Month Year  Day / Month / 2 0 0						
Thank you VERY much for your help  When completed, please send this back to:						
Children of the Nineties - ALSPAC 24 Tyndall Avenue Bristol BS8 1BR						
coder Offfice use only  © University of Bristol						
http://www.alspac.bris.ac.uk/discovery 44037						
8						

#### **Question D1**

[Editing: If all three parts of question D1 were omitted then variables PUB990 to PUB992 were all set to -5. If either of the variables for parts a & b had value 1 then the initial indicator variable (PUB990) was set to 2 and values of -1 in PUB991 & PUB992 recoded to 2 'No'.]

pub990 D1: Respondent had help filling in the questionnaire

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	4074	93.3	94.4	94.4
	2 Yes	240	5.5	5.6	100.0
	Total	4314	98.8	100.0	
Missing	-5 Question D1 omitted	52	1.2		
Total		4366	100.0		

pub991 D1a: A parent helped fill in the questionnaire

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	148	3.4	3.5	3.5
	2 No	4106	94.0	96.5	100.0
	Total	4254	97.4	100.0	
Missing	-5 Question D1 omitted	52	1.2		
	-1 Not stated	60	1.4		
	Total	112	2.6		
Total		4366	100.0		

pub992 D1b: Someone else helped fill in the questionnaire

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	32	.7	.8	.8
	2 No	4222	96.7	99.2	100.0
	Total	4254	97.4	100.0	
Missing	-5 Question D1 omitted	52	1.2		
	-1 Not stated	60	1.4		
	Total	112	2.6		
Total		4366	100.0		

#### **Question D2**

[Editing: Note that this reported date of birth is not used.]

#### **Question D3**

[Editing: The date of completion was substituted with the date of receipt of the questionnaire from ALSPAC's administrative database if any of the following occurred: The date of completion was not fully completed, the date of completion was not a valid date (e.g. 31<sup>st</sup> November), the date of completion was later than the date of receipt or the date of completion was earlier than the date on which the questionnaire was sent out by ALSAPAC. This action was flagged in variable PUB996c. The month and year of completion were retained on the built file, but the day was dropped.]

pub996a D3: Date of completion of questionnaire - month

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	819	18.8	18.8	18.8
	2 February	275	6.3	6.3	25.1
	3 March	223	5.1	5.1	30.2
	4 April	391	9.0	9.0	39.1
	5 May	367	8.4	8.4	47.5
	6 June	391	9.0	9.0	56.5
	7 July	443	10.1	10.1	66.6
	8 August	333	7.6	7.6	74.3
	9 September	444	10.2	10.2	84.4
	10 October	369	8.5	8.5	92.9
	11 November	195	4.5	4.5	97.3
	12 December	116	2.7	2.7	100.0
	Total	4366	100.0	100.0	

pub996b D3: Date of completion of questionnaire - year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2008	1184	27.1	27.1	27.1
	2009	2979	68.2	68.2	95.4
	2010	203	4.6	4.6	100.0
	Total	4366	100.0	100.0	

pub996c DV: Date of completion replaced with date of receipt

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes, incomplete d.o.c.	77	1.8	1.8	1.8
	3 Yes, d.o.c. < d.o.s.	47	1.1	1.1	2.8
	4 Yes, d.o.c. > d.o.r.	32	.7	.7	3.6
	5 No	4210	96.4	96.4	100.0
	Total	4366	100.0	100.0	

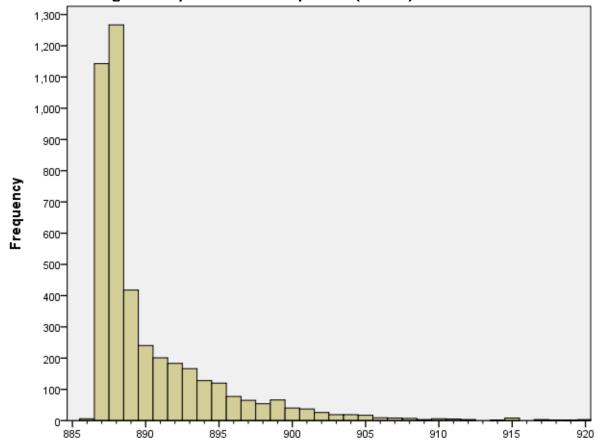
## **Derived Variables - Age at Completion**

The date of completion and the children's dates of birth from ALSPAC's central database, were used to calculate the child's age at completion in completed weeks and completed months.

pub997a DV: Age of respondent at completion (months)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	198	1	.0	.0	.0
	203	11	.3	.3	.3
	204	3157	72.3	72.3	72.6
	205	688	15.8	15.8	88.3
	206	290	6.6	6.6	95.0
	207	118	2.7	2.7	97.7
	208	51	1.2	1.2	98.9
	209	18	.4	.4	99.3
	210	10	.2	.2	99.5
	211	10	.2	.2	99.7
	212	2	.0	.0	99.8
	213	1	.0	.0	99.8
	214	3	.1	.1	99.9
	215	3	.1	.1	99.9
	216	1	.0	.0	100.0
	217	1	.0	.0	100.0
	218	1	.0	.0	100.0
	Total	4366	100.0	100.0	

pub997b DV: Age of respondent at completion (weeks)



DV: Age of respondent at completion (weeks)

plus the following missing values and outliers < 885 or > 920:

pub997b DV: Age of respondent at completion (weeks)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	864	1	6.7	6.7	6.7
	921	2	13.3	13.3	20.0
	922	1	6.7	6.7	26.7
	924	1	6.7	6.7	33.3
	927	1	6.7	6.7	40.0
	931	1	6.7	6.7	46.7
	933	1	6.7	6.7	53.3
	934	1	6.7	6.7	60.0
	937	2	13.3	13.3	73.3
	938	1	6.7	6.7	80.0
	940	1	6.7	6.7	86.7
	945	1	6.7	6.7	93.3
	951	1	6.7	6.7	100.0
	Total	15	100.0	100.0	

# **Appendix A**

This appendix contains the general coding instructions for scanned questionnaires that are referred to whenever any questionnaire is being coded. This document provides a general overview to the coding process as well as defining abbreviations for standard methods that are used in the specific coding instructions for the questionnaire (see Appendix B).

#### **General Verification Instructions**

#### **Document Control**

Version	1
Date of introduction	12/03/2008
Date of termination	
Number of pages	2
Author	David Herrick

For general guidance on scanning and verifying see the relevant page on the ALSPAC intranet:

http://alsp-buzzard.alspac.bris.ac.uk:9080/ALSPNet/projects/Scanning/scanning.html

The purpose of verifying is to resolve the queries produced by the software. The general aim is to ensure that the exact response is entered, regardless of whether or not it makes sense. Genuinely reported values that are unlikely or even impossible will be resolved at a later stage of the data preparation process.

When verifying a scanned form you will need to reference the specific verification instructions for that form. These will detail the data type of each response on the form and any verification rules additional to the general guidelines specified below:

Code	Data Type	General Verification Guidance
S	A single check box that the respondent can either cross or leave blank.	
М	Multiple check boxes from which the respondent is expected to either cross one or leave all blank.	Occasionally respondents will cross more than one box; the verification instructions for the form will detail how to resolve any such occurrences. The following codes are used as shorthand for commonly occurring instructions:
		7: If more than one box is crossed, choose the one with the lowest code number.
		8: If more than one box is crossed, choose the one with the highest code number.
		I: If 'Yes' and 'No' are both crossed in a stand-alone question, then leave the response blank. However, if 'Yes' and 'No' are both crossed in a lead question then it should be possible to determine the intended response from the information in the follow up questions.
		If it is clear that the respondent attempted to cancel a cross by filling in a box then discard that value.

N	A numerical response. The respondent is provided with one or more boxes within which they are expected to write Arabic numerals (one per box).	<ul> <li>The verifier will query anything that it cannot recognise as a number. Please note the following general guidelines:</li> <li>If "N/A" or question marks or anything similar are written in the boxes, leave as blank.</li> <li>If more than one digit has been written in any box then enter the value if it is possible to do so (i.e. there were enough boxes but the digits were misplaced). However, if the response is too large for number of boxes (e.g. 11 where only a single digit is expected) the record it in the form notes and leave the value as blank.</li> <li>If the answer is not legible on the scanned image and therefore cannot be corrected then record in the form notes and leave the value as blank. It may be possible for the value to be corrected later on by looking at the paper copy of the questionnaire.</li> <li>In addition the verifier may also be set up to query values outside of a specific range (this will be documented in the verification instructions f the form). If a queried value is clearly what was written then accept it even if it is outside the range of values in the verification rule. This applies even if the value is impossible (e.g. value 34 in a response for number of hours per day).</li> </ul>			
D	A date. The respondent is provided with boxes within which to write the numerals of a date. Some boxes may be prefilled.	The general guidelines for numerical responses apply here. In addition note that the verifier will query any invalid dates, including any dates where there are empty boxes. As with numerical responses these should be left as reported by the respondent. In the days of keyed			
С	Constrained text. The respondent is provided with a series of boxes within which to write text; one character per box.	The text should be entered as close as is possible to what the respondent wrote, so observe errors in spelling, grammar etc.  It is not possible to enter more characters than there are boxes on the questionnaire. Longer responses must be recorded in the form notes.  Note that it is not possible to enter the character "?". If the respondent wrote "?" as part of the response in the text box then enter this as "[Question mark]".			
T	Unconstrained text. The respondent is provided with a large box within which to write freely.	The verifier will attempt to interpret this but will almost always flag for verification if anything is detected. Simply type in the text response as best you can. The text should be entered as close as is possible to what the respondent wrote, so observe errors in spelling, grammar etc. Note that if the response is split over several lines then if captured in multiple lines this formatting can be kept, but new line breaks cannot be inserted.  Note that it is not possible to enter the character "?". If the respondent wrote "?" as part of the response in the text box then enter this as "[Question mark]".  Occasionally the verification instructions for the form will instruct you to enter something new in an unconstrained text box (e.g. details of multiple crossing in data type M). To do this click on the box on the form and start typing in the grey area below. In order to differentiate between text from the respondent and text entered at verification start anything you add with "V: " and enclose in square brackets, e.g. "[V: 1+2+5]".			

# **Appendix B**

This appendix contains the coding instructions specific to this questionnaire. Note that there are separate instructions for the male and female versions, with two versions for each of the questionnaires. The two sets of instructions for the female version are presented first, followed by the sets for the male version.

## Verifying version 1 of "Female Teenager Questionnaire: Growing and Changing (9)"

This document provides specific verification instructions for this form. It must be read in conjunction with the current version of the "General Verification Instructions" document.

#### **Form Details**

Form ID	38452
Form Title	Female Teenager Questionnaire: Growing and Changing (9)
Form Code	DGCJ
Form Version	1
Form Date	02/04/08

#### **Document Control**

Version	1
Date of introduction	12/05/2008
Date of termination	03/10/2008
Number of pages	2
Author(s)	Rachel Richter & David Herrick

## **Question Specific Instructions**

Question Data Type	Data	Malid same	Correction		
	Valid range	Code	Comment		
Page 4 Section A					
A1 imperial	N/N	ft: 4-6 in: 0-11		Round fractions down.	
A1 metric	N/N	m: 1 cm: 50-90		Round fractions down. Convert 100+ centimetres to metres and centimetres if metres box is blank, otherwise record in form notes and leave centimetres variable blank.	
A2 imperial	N/N	st: 6-16 lb: 0-15		Round fractions down. Convert 100+ pounds to stones and pounds if stones box is blank, otherwise record in form notes and leave pounds variable blank.	
A2 metric	N	45-90		Round fractions down. Values >99 can be recorded in the special field provided.	
A3	М		7		
Page 5					
A4	М		I		
A4a	N	10-15		Round fractions down to completed years.	
A5 month	N	1-12			
A5 year	N	2002-2007			
A6a days	N	2-10			
A6a varies	S				
A6a don't know	S				

## PUB9 File – Appendix B

	_	_	1	
A6b	М		8	
A7a days	N	20-45		
A7a varies	S			
A7a don't know	S			
Page 6				
A8a	М		1	
A8ai	М		I	
A8b	М		I	
A8bi	М		I	
A8c	М		I	
A8ci	М		I	
Page 7				
A9	М		8	
A10a	М		8	
A10b	Т			
A11	М		I	
Page 8 No questions				
Page 9 No questions				
Page 10 Section B				
В	М		8	
Page 11 Section C				
С	М		8	
Page 12 Section D				
D1	М		I	
D1a	S			
D1b	S			
D2	D	01/01/1991 - 31/12/1992		
D3	D	01/04/2008 – 31/12/2010		

## Verifying version 1 of "Female Teenager Questionnaire: Growing and Changing (9"

This document provides specific verification instructions for this form. It must be read in conjunction with the current version of the "General Verification Instructions" document.

#### **Form Details**

Form ID	38452
Form Title	Female Teenager Questionnaire: Growing and Changing (9)
Form Code	DGCJ
Form Version	1
Form Date	02/04/08

#### **Document Control**

Version	2
Date of introduction	06/10/2008
Date of termination	
Number of pages	2
Author(s)	Rachel Richter & David Herrick

## **Question Specific Instructions**

Data	Valid range	Correction		
Question Type		Code	Comment	
N	5			
N	00 - 11		Round fractions down.	
N	1			
N	50 - 80		Round fractions down. Convert 100+ centimetres to metres and centimetres if metres box is blank, otherwise record in form notes and leave centimetres variable blank as per standard practice for data type N.	
N	07 - 15			
N	00 - 13		Round fractions down. Convert 100+ pounds to stones and pounds if stones box is blank, otherwise record in form notes and leave pounds variable blank as per standard practice for data type N.	
N	45 - 95		Round fractions down. Values >99 can be recorded in the special field provided.	
М		7		
М		I		
N	10 - 15		Round fractions down to completed years.	
N	01 - 12			
N	2002 - 2007			
	N N N N N N N N N N N N N N N N N N N	Type       Valid range         N       5         N       00 - 11         N       1         N       50 - 80         N       07 - 15         N       00 - 13         N       45 - 95         M       N         N       10 - 15         N       01 - 12	Type Valid range Code    N   5	

## PUB9 File – Appendix B

A6a days	N	02 - 10		
A6a varies	S			
A6a don't know	S			
A6b	М		8	
A7a days	N	20 - 45		
A7a varies	S			
A7a don't know	S			
Page 6				
A8a to A8ci	М		I	
Page 7				
A9	М		8	
A10a	М		8	
A10b	Т			
A11	М		I	
Page 8				
No questions				
Page 9 No questions				
Tro quoditorio				
Page 10				
Section B				
В	М		8	
Page 11 Section C				
С	М		8	
Page 12 Section D				
D1	М		I	
D1a	S			
D1b	S			
D2	D	01/01/1991 - 31/12/1992		This is a required field so any blank dates will be flagged for verification. However, there is no need to attempt to fill in using information from other sources.
D3	D	01/04/2008 – 31/12/2010		This is a required field so any blank dates will be flagged for verification. However, there is no need to fill in using date of completion.

## Verifying version 1 of "Male Teenager Questionnaire: Growing and Changing (9)"

This document provides specific verification instructions for this form. It must be read in conjunction with the current version of the "General Verification Instructions" document.

#### **Form Details**

Form ID	44037
Form Title	Male Teenager Questionnaire: Growing and Changing (9)
Form Code	SGCJ
Form Version	1
Form Date	01/04/08

#### **Document Control**

Version	1
Date of introduction	12/05/2008
Date of termination	03/10/2008
Number of pages	2
Author(s)	Rachel Richter & David Herrick

## **Question Specific Instructions**

()HASTION	Data	Valid range	Correction		
	Туре		Code	Comment	
Page 4 Section A					
A1 imperial	N/N	ft: 4-6 in: 0-11		Round fractions down.	
A1 metric	N/N	m: 1 cm: 60-90		Round fractions down. Convert 100+ centimetres to metres and centimetres if metres box is blank, otherwise record in form notes and leave centimetres variable blank.	
A2 imperial	N/N	st: 7-20 lb: 0-15		Round fractions down. Convert 100+ pounds to stones and pounds if stones box is blank, otherwise record in form notes and leave pounds variable blank.	
A2 metric	N	50-90		Round fractions down. Values >99 can be recorded in the special field provided.	
A3	М		7		
A4	М		8		
A5	М		I		
Page 5 No questions					
Page 6 Section B					
В	М		8		

## PUB9 File – Appendix B

Page 7 Section C			
С	М		8
Page 8 Section D			
D1	М		I
D1a	S		
D1b	S		
D2	D	01/01/1991 - 31/12/1992	
D3	D	01/04/2008 - 31/12/2010	

## Verifying version 1 of "Male Teenager Questionnaire: Growing and Changing (9)"

This document provides specific verification instructions for this form. It must be read in conjunction with the current version of the "General Verification Instructions" document.

#### **Form Details**

Form ID	44037
Form Title	Male Teenager Questionnaire: Growing and Changing (9)
Form Code	SGCJ
Form Version	1
Form Date	01/04/08

#### **Document Control**

Version	2
Date of introduction	06/10/2008
Date of termination	
Number of pages	2
Author(s)	Rachel Richter & David Herrick

## **Question Specific Instructions**

N N N N	5, 6 00 - 11 1 65 - 95	Code	Round fractions down.
N N	00 - 11		Round fractions down.
N N	00 - 11		Round fractions down.
N	1		Round fractions down.
	•		
N	65 - 95		1
			Round fractions down. Convert 100+ centimetres to metres and centimetres if metres box is blank, otherwise record in form notes and leave centimetres variable blank as per standard practice for data type N.
N	08 - 16		
N	00 - 13		Round fractions down. Convert 100+ pounds to stones and pounds if stones box is blank, otherwise record in form notes and leave pounds variable blank as per standard practice for data type N.
N	50 - 99		Round fractions down. Values >99 can be recorded in the special field provided.
М		7	
М		8	
М		I	
N N M	l	00 - 13 50 - 99	00 - 13 50 - 99 1 7 1 8

## PUB9 File – Appendix B

Page 6 Section B				
В	М		8	
Page 7 Section C				
С	М		8	
Page 8 Section D				
D1	М		I	
D1a	S			
D1b	S			
D2	D	01/01/1991 - 31/12/1992		This is a required field so any blank dates will be flagged for verification. However, there is no need to attempt to fill in using information from other sources.
D3	D	01/04/2008 - 31/12/2010		This is a required field so any blank dates will be flagged for verification. However, there is no need to fill in using date of completion.

# **Appendix C: Questionnaire Methodology**

#### Administration

Questionnaires were identified by a 9 digit check-summed identifier (QUESTIONNAIRE ID) that is unique to both the recipient and the particular questionnaire. These numbers, together with bar codes, were printed on sticky labels that were then applied to the front pages of the questionnaires prior to being mailed out. If a response was not received after 3 weeks a reminder letter was sent.

The receipt of questionnaires was logged by the Questionnaire Administration Department using a bar code scanning system, which recorded the date of receipt. If returned blank by the respondent (but not, for example, if returned as "not known at this address") this was flagged. The questionnaires were examined and if badly completed (e.g. marks not in boxes) or if text was written outside of supplied boxes then the office use box on the back page was marked in order to flag that detailed checking was required at the verification stage (see below). Any signed comments on the back page were dealt with as appropriate and the completed questionnaires batched together in batches of 20, separately for the male and female versions.

#### **Data handling**

The questionnaires were designed using the Teleform data capture software. They were the first questionnaires completed by the study children to be designed in this way, although the Teleform system had previously been used for the carer and partner adult learning questionnaires and for staff completed forms from the Focus clinics. The questionnaires were booklets with A5 pages, stapled in the folded spine. The expected responses to the questions fall into four categories: self-coding tick boxes, numeric, free text and occasionally constrained print (text entered one letter to a box).

Completed questionnaires had the spine guillotined off and were then fed into a document scanner. The data were captured from the resulting images by the Teleform software. Any anomalies, such as multiple ticks or numeric / constrained print responses that the system could not interpret were flagged by the software and corrected by an operator at the verification stage. During verification the captured free text was also checked for accuracy. The rules for correcting multiple ticks and other anomalies were set out in the ALSPAC general coding instructions (see Appendix A) and the specific coding instructions for this questionnaire (see Appendix B). The numeric, tick box and any constrained print data were then exported to an SPSS data file and the free text exported to a database. The images of the forms were exported to the ADOS image storage system for archiving.

The SPSS data files then had appropriate variable and value labels applied. The administrative identifier (QUESTIONNAIRE ID) was converted to the research identifiers ALN & QLET. At the end of this process the data were classified as clean; they are deemed to accurately represent what the respondent actually entered on the questionnaire, except that the text responses have not been processed. The free text is available on request under special confidentiality rules for projects that require it.

In order to prepare the data for general release the clean data were matched to the information about dispatch and return held in the ALSPAC administrative database. This enabled creation of variables for all members of the cohort indicating whether or not a

#### PUB9 File - Appendix C

questionnaire was sent out, whether it was returned etc. The variables were renamed according to a unique system to ensure there are no conflicts with variable on other data files. All variable names start with the letters "pub" which are followed by three digits (the first of which is always an 9) and occasionally a further letter. The data were then edited, adjusting for illogical responses, dealing with skip statements and adding useful derived variables, as described in the relevant sections of this documentation.