THE ALSPAC STUDY

PUB7 FILE

DATA COLLECTED FROM THE QUESTIONNAIRE

Growing and Changing (7)

At TeenFocus 3 (15 1/2 Years)

Prepared by

The ALSPAC Study Team

Documentation giving frequencies, background and instructions for use.

Last updated for version 1a of the built file.

January 2010

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Introduction

Background

In order to get a measure of pubertal status concurrent with the 15 ½ year hands-on data collection (Teen Focus 3 / Teen Focus Express / Teen Focus Outreach – see the documentation for the TF3 file for more information on the variants at this time point) the seventh in the series of puberty questionnaires was not sent out on the usual rolling basis. Instead, it was sent out to study children who made an appointment for Teen Focus 3 or Teen Focus Express, with the intention that they completed it prior to their visit and returned it anonymously into a box when they visited. Questionnaires were not given to study children who attended Teen Focus Outreach, which was run on a drop-in rather than an appointment basis.

Note that a small number of study children who had opted out of questionnaires at the time had the "Growing and Changing (7)" questionnaire removed from their visit packs. It is unfortunately not possible to provide a variable indicating exactly who was sent the questionnaire.

Contents

The contents of "Growing and Changing (7)" are similar to those of "Growing and Changing (6)". However, since the study children were to be weighed and measured at their visit, the height and weight questions present in "Growing and Changing (6)" were omitted from "Growing and Changing (7)". In addition, the question about period pains (A8b in "Growing and Changing (6)" and A6b in "Growing and Changing (7)") was altered, with changes to the wording and an additional part being added.

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 PUB750 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 15,383 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 they were invited to TF3) plus 707 eligible children not in the core sample who were invited to TF3. Note that 225 of these 707 children not in the core sample actually completed the "Growing and Changing (7)" questionnaire, all of whom attended TF3.

Of the 14,676 fetuses in the core ALSPAC sample, 14,062 were live born. 5,149 of these live born children attended TF3 or TF Express. Completed questionnaires were returned by 4,637 (90%) of these children, which is 33% of the 14,062 live born children. A further

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5 children who made appointments but did not attend also returned the questionnaire. 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 6 of the 4,867 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 variable PUB787 remains, but PUB787a 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.

Built file version history

Built version 1a - January 2010

First version of the built file.

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Administrative variables

For information about who was invited to TF3 etc please see the TF3 data file and documentation.

pub787 Questionnaire completed

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4867	31.6	45.5	45.5
	2 No	5825	37.9	54.5	100.0
	Total	10692	69.5	100.0	
Missing	-2 Not invited	4691	30.5		
Total		15383	100.0		

pub787a Data available

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4861	31.6	31.6	31.6
	2 No	10522	68.4	68.4	100.0
	Total	15383	100.0	100.0	

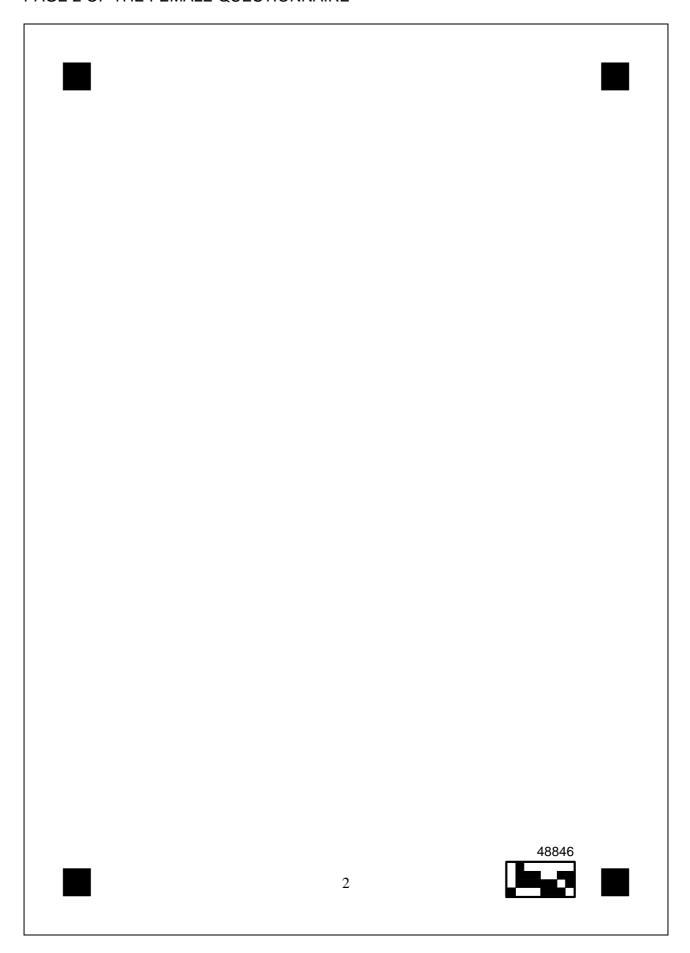
pub788 Questionnaire version

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Female version 1 - 08/09/06	2566	16.7	52.8	52.8
	2 Male version 1 - 07/09/06	2295	14.9	47.2	100.0
	Total	4861	31.6	100.0	
Missing	-11 Triplet / quadruplet	6	.0		
	-10 Not completed	10516	68.4		
	Total	10522	68.4		
Total		15383	100.0		

TeenFocus3 Ouestionnaire Number Girl Teenager questionnaire **GROWING AND CHANGING (7)** You may have seen this type of questionnaire before. There are important changes to a teenager's body that can happen as early as 6 or as late as 20. At this time of life we have some questions we need to ask and which we need to hear about at regular intervals. Use a **BLACK** or **BLUE** pen when you fill in the questionnaire. Please read carefully the instructions on page 3. **DGCG** 08.09.06 1

PUB7 File – Introduction

PAGE 2 OF THE FEMALE QUESTIONNAIRE



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

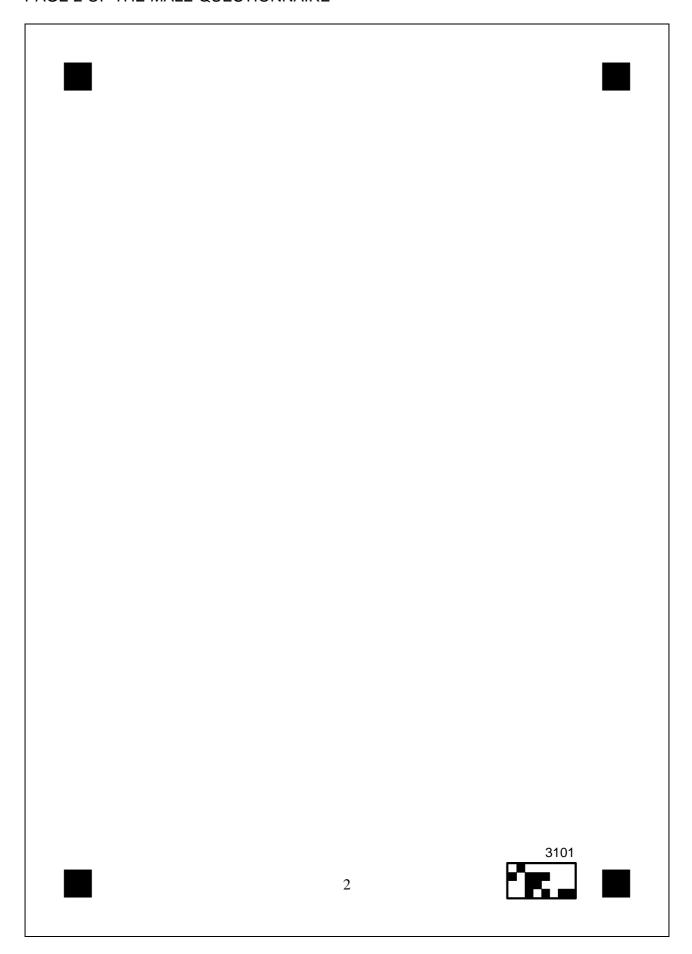
48846



TeenFocus3 **Ouestionnaire Number** Male Teenager questionnaire **GROWING AND CHANGING (7)** You may have seen this type of questionnaire before. There are important changes to a teenager's body that can happen as early as 6 or as late as 20. At this time of life we have some questions we need to ask and which we need to hear about at regular intervals. Use a **BLACK** or **BLUE** pen when you fill in the questionnaire. Please read carefully the instructions on page 3. **SGCG** 07.09.06 1

PUB7 File – Introduction

PAGE 2 OF THE MALE QUESTIONNAIRE



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. \times

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

3101

3

PAGE 4 OF THE FEMALE QUESTIONNAIRE

Section A: PERIODS,	DD∩RI FM	IS AND OTHER I	NEVEL ODMENT
Section A: 1 Extods,	<u>r kodleni</u>	S AND UTILK L	<u>ÆVELOI WIEN I</u>
A1. In the past month, what was vigorous physical activity (aerobics)?			
none	1	4-6 times a week	4 🔲
less than once a week	2 🔲	daily	5 🔲
1-3 times a week	3		
A2. Have you started your pe	eriods yet?		
	-	If <u>no</u> , please go to A8	on page 7
If <u>yes</u> ,			
a) How old were you w	hen you had yo	our first period?	
	years old		

PAGE 5 OF THE FEMALE QUESTIONNAIRE

A3. When exactly was your first period? month year	
A4. a) In the past year , how many days of bleeding have you usually had during each period? Number of days It varies 88 Don't know 99	
b) If you don't know, or if it varies is it probably: 3 days or less 1 4-6 days 2	
7 days or more ₃ □	
A5. <u>In the past year,</u> how many days were there <u>usually</u> between periods? In other words, how many days were there from the <u>first day</u> of one period to the <u>first day</u> the next period?	
Number of days It varied 88 Don't know 99	
48846 5	

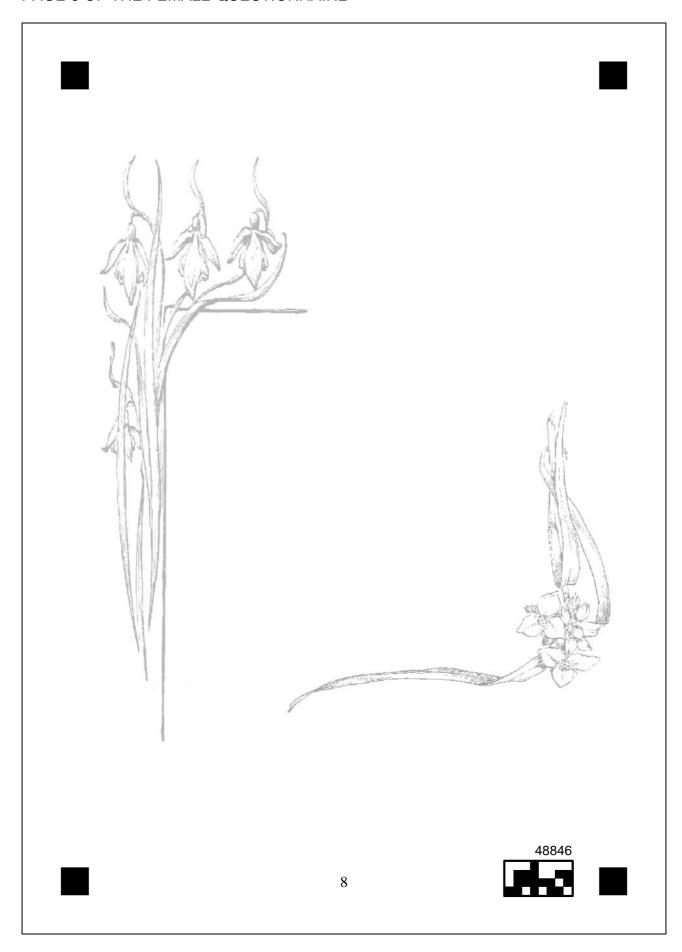
PAGE 6 OF THE FEMALE QUESTIONNAIRE

	-		·		g sympton	113 associated	with your period ?
a)	Hea	vy or j	prolonged bleed	ling			
		Yes	1 🔲	No	2 🔲 ——	➤ If <u>no</u> , go	to A6b below
	If <u>ye</u>	<u>es</u> ,					
	i)	Did y	ou contact a doc	tor f	or this?		
		Yes	1 🔲	No	2 🔲		
b)	Pain	with	your period? (i.e	e. pei	iod pains)		
		Yes	1 🔲	No	2 🔲		
	If ye	<u>es</u> ,					
		about	•	was	going on), or		ould not easily forget at you were unable to
		Mild	1 🔲		Moderate 2		Severe ³ □
	ii)	Did y	ou contact your	doct	or for this?		
		Yes	1 🔲	No	2 🔲		
c)			ne pains or pain it of the month ev				of your tummy) for
		Yes	1 🔲	No	2 🔲		
	If yo	<u>es</u> ,					
		Did v	ou contact your	doct	or for this?		
	i)	Dia y	ou comuce your				

PAGE 7 OF THE FEMALE QUESTIONNAIRE

	lave you taken oral contraceptives or birth control pills, for any reason during the ast 12 months?
r	Yes 1 No 2 Don't know 9
A8.	a) Has a doctor ever told you that you had a thyroid problem or asked you to take thyroid medicine or treatment?
	Yes 1 ☐ No 2 ☐ Don't know 9 ☐
	If <u>yes</u> ,
	b) What kind of thyroid problem did the doctor say you had?
A9.	Have you started to have hair growing in the armpits?
A9.	Have you started to have hair growing in the armpits? Yes ¹□ No ²□
A9.	

PAGE 8 OF THE FEMALE QUESTIONNAIRE



PAGE 4 OF THE MALE QUESTIONNAIRE

Section A			
A1. In the past month, what wa vigorous physical activity			
none	1 🔲	4-6 times a week	4 🔲
less than once a week	2	daily	5
1-3 times a week	3 🔲		
A2. 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 🗖
A3. Have you started to have h	air growing in t	the armpits?	
Yes 1□	No 2 🗖		
			3101
			3101
	4	Į.	

pub709 A1: Average number of times respondent participated in vigorous activity in past month

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 None	114	2.3	2.4	2.4
	2 < Once	402	8.3	8.4	10.7
	3 1-3	2287	47.0	47.5	58.3
	4 4-6	1256	25.8	26.1	84.4
	5 Daily	752	15.5	15.6	100.0
	Total	4811	99.0	100.0	
Missing	-1 Not stated	50	1.0		
Total		4861	100.0		

Question A2 (male)

pub760 A2 (male): Respondent's voice has changed

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	251	5.2	11.2	11.2
	2 Yes, occasionally a lot lower	554	11.4	24.7	35.8
	3 Yes, has changed totally	1128	23.2	50.2	86.1
	4 Not sure	313	6.4	13.9	100.0
	Total	2246	46.2	100.0	
Missing	-7 Respondent is female	2566	52.8		
	-1 Not stated	49	1.0		
	Total	2615	53.8		
Total		4861	100.0		

Question A2 (female)

[Editing: One respondent ticked 'No' in the initial part of A2 but then reported an age in A2a and went on to make a number of relevant responses to questions A3 to A7. The variable for the initial part of A2 was therefore recoded to 1 'Yes'.

Eleven respondents left the initial part of A2 blank but reported an age in A2a and went on to make a number of relevant responses to questions A3 to A7. Two further respondents left A2 blank but entered a date in A3 and a further 2 left A2 & A3 but went on to make some relevant responses in A4 to A7. The initial part of A2 was therefore recoded to 1 for all fifteen of these cases. Then if the variable for the initial part of A2 had value -1 the variables for A2 to A7 were all set to -6 and if the variable for the initial part of A2 had value 2 the variables for A2a to A7 were all set to -2.]

pub710 A2 (female): Respondent has started menstrual periods

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2511	51.7	98.2	98.2
	2 No	45	.9	1.8	100.0
	Total	2556	52.6	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	Total	2305	47.4		
Total		4861	100.0		

pub711 A2a: Age of respondent when first period occurred

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	9	10	.2	.4	.4
	10	87	1.8	3.6	4.0
	11	420	8.6	17.2	21.1
	12	680	14.0	27.8	49.0
	13	841	17.3	34.4	83.4
	14	354	7.3	14.5	97.8
	15	52	1.1	2.1	100.0
	16	1	.0	.0	100.0
	Total	2445	50.3	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-2 Periods not started	45	.9		
	-1 Not stated	66	1.4		
	Total	2416	49.7		
Total		4861	100.0		

Question A3 (female)

[Editing: The date variables were set to -1 for three cases with reported years earlier than 1995. The same action was also taken for one case for which the reported date was later than the date of completion of the questionnaire. A variable was then created as PUB713c 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.]

pub713a A3: Date of first period - month

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	211	4.3	10.0	10.0
	2 February	124	2.6	5.9	15.8
	3 March	133	2.7	6.3	22.1
	4 April	162	3.3	7.7	29.8
	5 May	127	2.6	6.0	35.8
	6 June	281	5.8	13.3	49.1
	7 July	169	3.5	8.0	57.1
	8 August	290	6.0	13.7	70.8
	9 September	179	3.7	8.5	79.2
	10 October	148	3.0	7.0	86.2
	11 November	146	3.0	6.9	93.1
	12 December	145	3.0	6.9	100.0
	Total	2115	43.5	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-2 Periods not started	45	.9		
	-1 Not stated	396	8.1		
	Total	2746	56.5		
Total		4861	100.0		

pub713b A3: Date of first period - year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2000	3	.1	.1	.1
	2001	36	.7	1.7	1.8
	2002	150	3.1	7.1	8.9
	2003	365	7.5	17.3	26.2
	2004	575	11.8	27.2	53.4
	2005	533	11.0	25.2	78.6
	2006	367	7.5	17.4	95.9
	2007	82	1.7	3.9	99.8
	2008	4	.1	.2	100.0
	Total	2115	43.5	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-2 Periods not started	45	.9		
	-1 Not stated	396	8.1		
	Total	2746	56.5		
Total		4861	100.0		

PUB7 File - Section A

pub713c DV: Components missing (after identification of illegal dates)

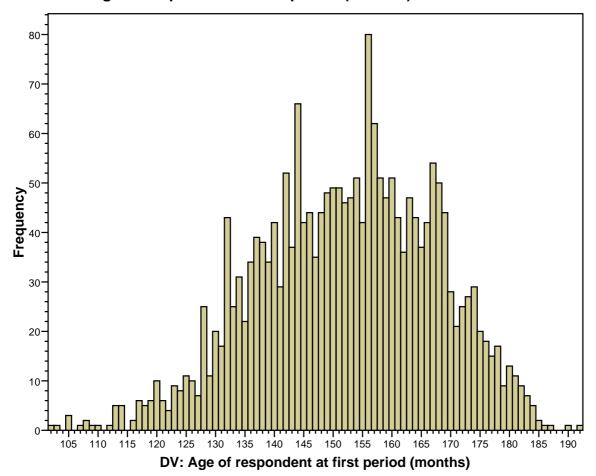
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None	1990	40.9	79.3	79.3
	1 Month only	125	2.6	5.0	84.2
	2 Year only	23	.5	.9	85.1
	3 Month and year	373	7.7	14.9	100.0
	Total	2511	51.7	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-2 Periods not started	45	.9		
	Total	2350	48.3		
Total		4861	100.0		

Derived variable - Age at first period

The age of the respondent at her first period was calculated in months as PUB712 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 PUB712 was checked against the reported age in years from A2a (PUB711) and manual adjustment made to ensure compatibility if possible. For example, if PUB711 was 12 and the month of first period was the same as the month of birth then values of 143 in PUB712 were recoded to 144 and values of 156 recoded to 155. However, some inconsistencies remain between PUB711 and PUB712 because the reported values are not compatible.

pub712 DV: Age of respondent at first period (months)



plus the following missing values and outliers <102:

pub712 DV: Age of respondent at first period (months)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	92	1	.0	100.0	100.0
Missing	-7 Respondent is male	2295	83.5		
	-6 Questions A2 to A7 omitted	10	.4		
	-2 Periods not started	45	1.6		
	-1 Missing	396	14.4		
	Total	2746	100.0		
Total		2747	100.0		

[Editing: The information from part a of this question was captured as three separate variables with some instance of multiple entries. For example, 103 respondents reported a number of days and also ticked "It varies". The information was combined into a single variable PUB715 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".]

pub715 A4a: 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	3	.1	.2	.2
	2	8	.2	.5	.7
	3	74	1.5	4.6	5.3
	4	277	5.7	17.3	22.6
	5	580	11.9	36.2	58.8
	6	344	7.1	21.5	80.2
	7	262	5.4	16.3	96.6
	8	39	.8	2.4	99.0
	9	7	.1	.4	99.4
	10	6	.1	.4	99.8
	13	2	.0	.1	99.9
	20	1	.0	.1	100.0
	Total	1603	33.0	100.0	
Missing	-9 Don't know	106	2.2		
	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-3 It varies	784	16.1		
	-2 Periods not started	45	.9		
	-1 Not stated	18	.4		
	Total	3258	67.0		
Total		4861	100.0		

pub716 A4b: 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	53	1.1	5.0	5.0
	2 4 to 6	884	18.2	83.5	88.5
	3 7 or more	122	2.5	11.5	100.0
	Total	1059	21.8	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-2 Periods not started	45	.9		
	-1 Not stated	1452	29.9		
	Total	3802	78.2		
Total		4861	100.0		

[Editing: The information from this question was captured as three separate variables with some instance of multiple entries. For example, 47 respondents reported a number of days and also ticked "It varies". The information was combined into a single variable PUB717 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".]

350 300 250 100 50 5 10 15 20 25 30 35 40 45 50 55 60 65 7

A5: Usual length of respondent's menstrual cycle in the past year

pub717 A5: Usual length of respondent's menstrual cycle in the past year

plus the following missing values:

pub717 A5: Usual length of respondent's menstrual cycle in the past year

		Frequency	Percent
Missing	-9 Don't know	469	11.9
	-7 Respondent is male	2295	58.2
	-6 Questions A2 to A7 omitted	tted 10 .:	
	-3 It varies	1086	27.5
	-2 Periods not started	45	1.1
	-1 Not stated	41	1.0
	Total	3946	100.0

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

pub720 A6a: Respondent has had heavy or prolonged bleeding associated with period

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	850	17.5	34.3	34.3
	2 No	1626	33.4	65.7	100.0
	Total	2476	50.9	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-5 Question A6a omitted	35	.7		
	-2 Periods not started	45	.9		
	Total	2385	49.1		
Total		4861	100.0		

pub721 A6a1: Doctor contacted about period associated heavy or prolonged bleeding

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	145	3.0	17.3	17.3
	2 No	695	14.3	82.7	100.0
	Total	840	17.3	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-5 Question A6a omitted	35	.7		
	-3 No heavy bleeding	1626	33.4		
	-2 Periods not started	45	.9		
	-1 Not stated	10	.2		
	Total	4021	82.7		
Total		4861	100.0		

pub722 A6b: Respondent has had pain associated with period

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2109	43.4	85.1	85.1
	2 No	369	7.6	14.9	100.0
	Total	2478	51.0	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-2 Periods not started	45	.9		
	-1 Not stated	33	.7		
	Total	2383	49.0		
Total		4861	100.0		

pub723 A6b1: Severity of period associated pain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Mild	576	11.8	27.5	27.5
	2 Moderate	1115	22.9	53.2	80.7
	3 Severe	405	8.3	19.3	100.0
	Total	2096	43.1	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-5 Question A6b omitted	33	.7		
	-3 No pain	369	7.6		
	-2 Periods not started	45	.9		
	-1 Not stated	13	.3		
	Total	2765	56.9		
Total		4861	100.0		

pub724 A6b2: Doctor contacted about period associated pain

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	195	4.0	9.3	9.3
	2 No	1894	39.0	90.7	100.0
	Total	2089	43.0	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-5 Question A6b omitted	33	.7		
	-3 No pain	369	7.6		
	-2 Periods not started	45	.9		
	-1 Not stated	20	.4		
	Total	2772	57.0		
Total		4861	100.0		

PUB7 File - Section A

pub725 A6c: 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	377	7.8	15.8	15.8
	2 No	2011	41.4	84.2	100.0
	Total	2388	49.1	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-5 Question A6c omitted	123	2.5		
	-2 Periods not started	45	.9		
	Total	2473	50.9		
Total		4861	100.0		

pub726 A6c1: Doctor contacted about period-type pain in pelvic area occurring when not bleeding

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	45	.9	12.1	12.1
	2 No	326	6.7	87.9	100.0
	Total	371	7.6	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-5 Question A6c omitted	123	2.5		
	-3 No period-type pains when not bleeding	2011	41.4		
	-2 Periods not started	45	.9		
	-1 Not stated	6	.1		
	Total	4490	92.4		
Total		4861	100.0		

pub727 A7: Respondent has taken oral contraceptives/birth control pills in past year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	327	6.7	13.2	13.2
	2 No	2140	44.0	86.1	99.3
	9 Don't know	18	.4	.7	100.0
	Total	2485	51.1	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-6 Questions A2 to A7 omitted	10	.2		
	-2 Periods not started	45	.9		
	-1 Not stated	26	.5		
	Total	2376	48.9		
Total		4861	100.0		

Question A8

pub728 A8a: Doctor has advised respondent of Thyroid problem or to take Thyroid medicine/treatment

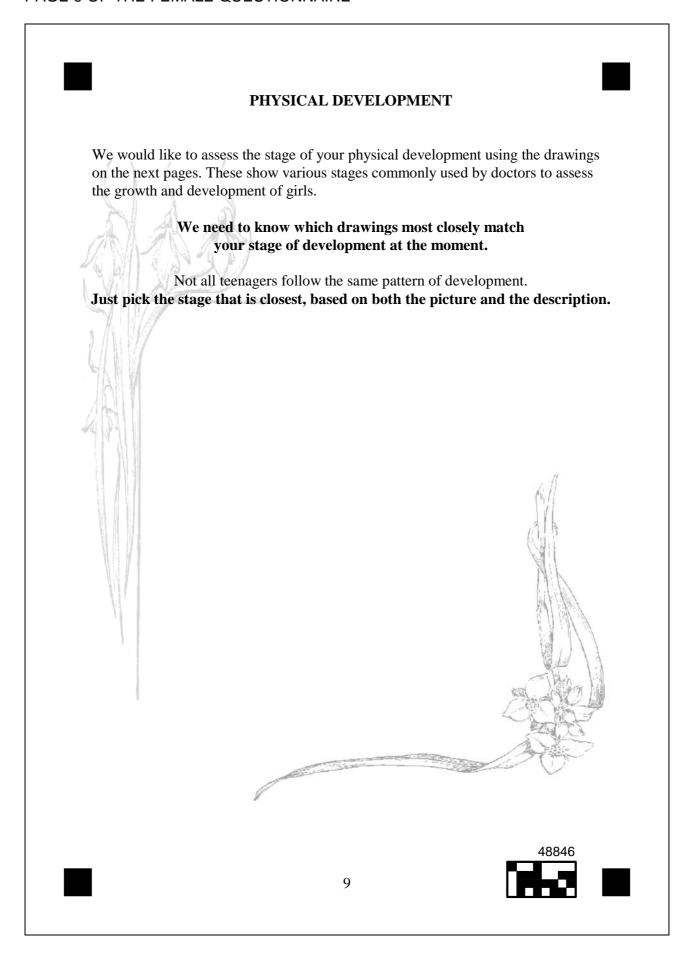
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	12	.2	.5	.5
	2 No	2451	50.4	98.1	98.6
	9 Don't know	35	.7	1.4	100.0
	Total	2498	51.4	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-1 Not stated	68	1.4		
	Total	2363	48.6		
Total		4861	100.0		

Question A9 (female) / A3 (male)

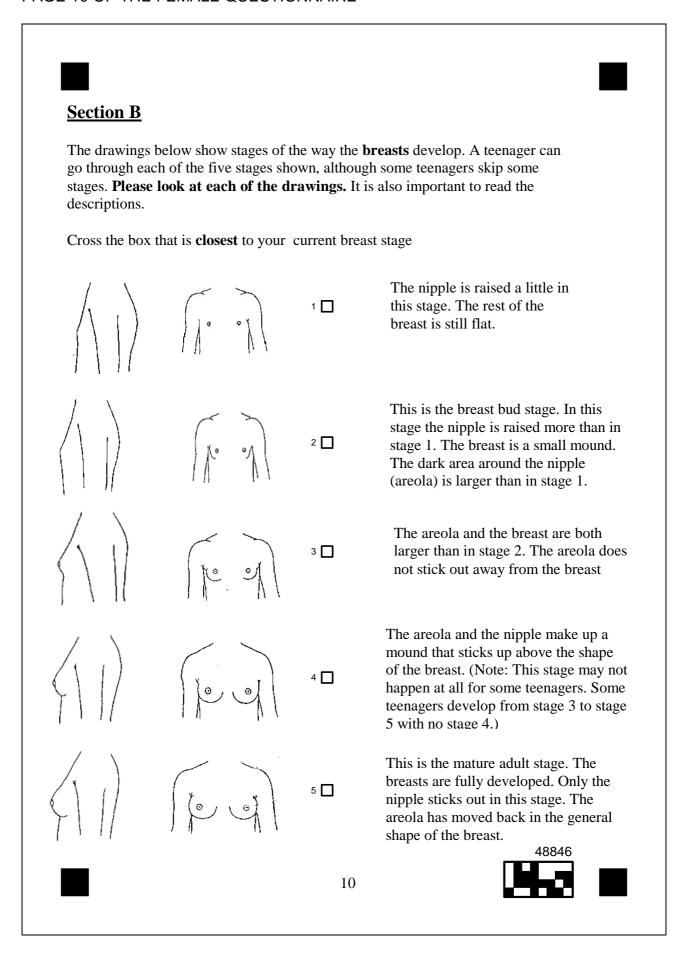
pub770 A9 (female) / A3 (male): Hair has started to grow in respondent's armpits

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4557	93.7	95.6	95.6
	2 No	211	4.3	4.4	100.0
	Total	4768	98.1	100.0	
Missing	-1 Not stated	93	1.9		
Total		4861	100.0		

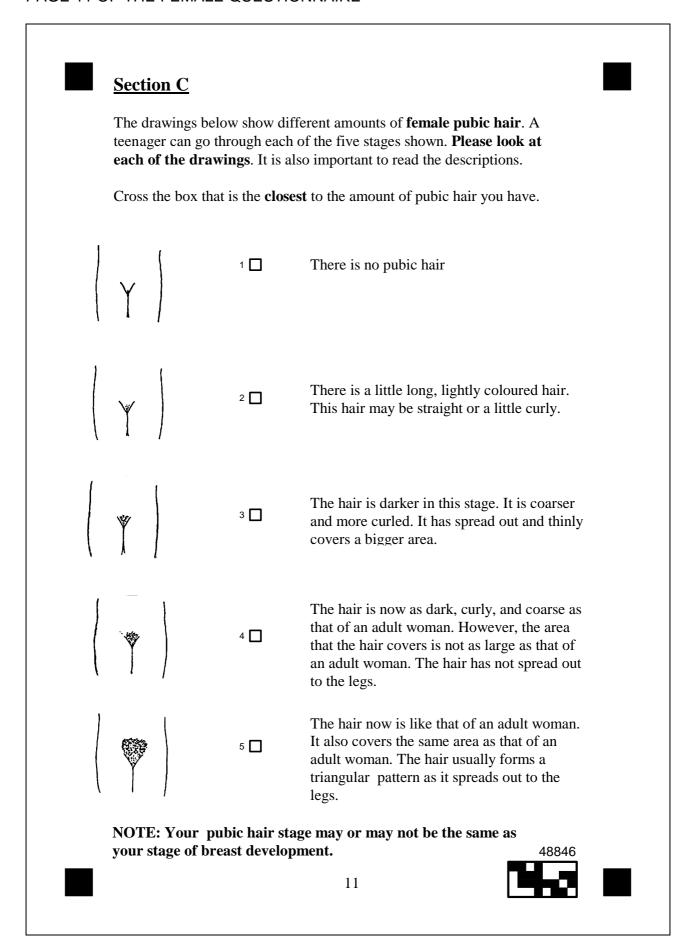
PAGE 9 OF THE FEMALE QUESTIONNAIRE



PAGE 10 OF THE FEMALE QUESTIONNAIRE



PAGE 11 OF THE FEMALE QUESTIONNAIRE



PUB7 File – Sections B & C (Female)

pub730 B (female): Development stage of breasts

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stage 1	2	.0	.1	.1
	2 Stage 2	11	.2	.4	.5
	3 Stage 3	255	5.2	10.3	10.8
	4 Stage 4	1319	27.1	53.1	63.9
	5 Stage 5	895	18.4	36.1	100.0
	Total	2482	51.1	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-1 Not stated	84	1.7		
	Total	2379	48.9		
Total		4861	100.0		

pub735 C (female): Development stage of pubic hair

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stage 1	6	.1	.2	.2
	2 Stage 2	13	.3	.5	.8
	3 Stage 3	101	2.1	4.1	4.9
	4 Stage 4	994	20.4	40.5	45.3
	5 Stage 5	1343	27.6	54.7	100.0
	Total	2457	50.5	100.0	
Missing	-7 Respondent is male	2295	47.2		
	-1 Not stated	109	2.2		
	Total	2404	49.5		
Total		4861	100.0		

PAGE 5 OF THE MALE QUESTIONNAIRE



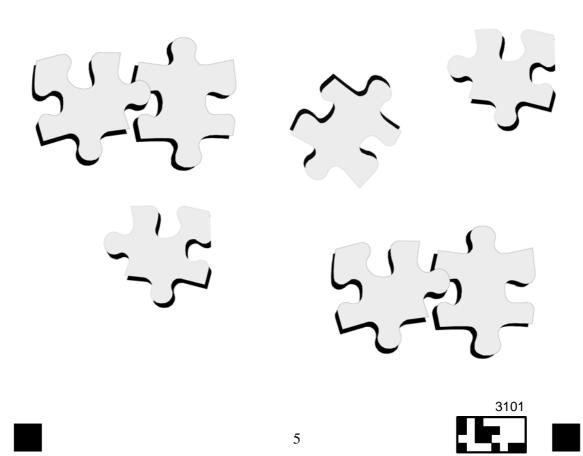
PHYSICAL DEVELOPMENT

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

Section B Teenagers go through the various stages of physical development at different ages. Some start as early as 6, others not until they are 20. We need your help in letting us know what stage you are at. Please look at each of the drawings. It is also important to read the descriptions. Cross the box that is **closest** to your current stage The size and shape of the testes, scrotum (the sac holding the testes) 1 🔲 and penis are about the same as when you were younger. The penis is a little bit bigger. The scrotum has dropped and the skin of 2 the scrotum has changed. The testes are bigger. The penis has grown longer, the 3 testes have grown and dropped lower. The penis is longer and wider. The 4 head of the penis is bigger, the scrotum is a darker colour and bigger. The testes are bigger. penis The penis, scrotum and testes are the 5 🔲 scrotum size and shape of a man's. 6

PAGE 7 OF THE MALE QUESTIONNAIRE

Section C As part of development, at some stage hair will start to grow just above the penis. Please look at each of the drawings. It is also important to read the descriptions. Cross the box that is **closest** to the amount of pubic hair that you have. There is no hair at all. 1 There is a little soft, long, lightly 2 coloured hair at the base of the penis. It may be straight or a little curly. The hair is darker and more curled. It 3 has spread out and thinly covers a bigger area. The hair is as dark and curly as that of 4 a man, but it hasn't spread out to the legs. The hair is like that of a man. It has 5 spread out to the legs. 7

PUB7 File – Sections B & C (Male)

pub750 B (male): Development stage of testes, scrotum and penis

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stage 1	9	.2	.5	.5
	2 Stage 2	38	.8	2.0	2.5
	3 Stage 3	202	4.2	10.6	13.0
	4 Stage 4	980	20.2	51.2	64.2
	5 Stage 5	684	14.1	35.8	100.0
	Total	1913	39.4	100.0	
Missing	-7 Respondent is female	2566	52.8		
	-1 Not stated	382	7.9		
	Total	2948	60.6		
Total		4861	100.0		

pub755 C (male): Development stage of pubic hair

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Stage 1	3	.1	.1	.1
	2 Stage 2	25	.5	1.2	1.3
	3 Stage 3	120	2.5	5.5	6.8
	4 Stage 4	1073	22.1	49.5	56.4
	5 Stage 5	945	19.4	43.6	100.0
	Total	2166	44.6	100.0	
Missing	-7 Respondent is female	2566	52.8		
	-1 Not stated	129	2.7		
	Total	2695	55.4		
Total		4861	100.0		

PAGE 12 OF THE FEMALE QUESTIONNAIRE

	p to fill this in?						
	y to mir tims in .						
No 1 🗆							
Yes ² □							
If <u>yes</u> , please say	who helped you	ı:					
a) A paren	t helped	1 🔲					
b) Someon	e else helped	1 🔲					
	Day	_	Month	_		Year	
D2. What is your date of l	oirth?	7		/	1	9 9	
	Day		Month	_		Year	
D3. What is today's date?		7 /		/	2	0 0	
Tha When completed, please with you to your TF3 vis		onnaire	in the enve	elope p	orovic	led and b	ring
	our TF3 visit, pl	ease sen	d this back	as soo	n as p	ossible to	:
If you have already had yo							
If you have already had yo	Children of th 24 Tyndall Av Bristol BS8 1BR		ies - ALSPA	AC			

PAGE 8 OF THE MALE QUESTIONNAIRE

Section D							
D1. Did you have any hel	p to fill this in?						
No 1 🗆							
Yes 2 🗖							
If <u>yes</u> , please say	who helped you:						
a) A paren	t helped	1 🔲					
b) Someon	e else helped	1 🔲					
D2. What is your date of	Day	Moi	nth ,		Year		1
D2. What is your date of		/	/	1	9 9)	
D3. What is today's date	Day		nth /	2	Year O)	
The When completed, please	ank you VER		·	_	vided a	nd brin	ı o it
with you to your TF3 vis					viucu a	na om	·S ···
If you have already had yo	our TF3 visit, plea	se send thi	s back as	soon a	s possib	le to:	
	Children of the 24 Tyndall Aver Bristol BS8 1BR		ALSPAC	7			
coder	Offfice use of	only 🗖	() Uni	versity o	of Bristo	ol
	http://www.alspa	c.bris.ac.ul 8	k/discover	ry		3101	

Question D1

[Editing: If all three parts of question D1 were omitted then variables PUB790 to PUB792 were all set to -5. If either of the variables for parts a & b had value 1 then the initial indicator variable (PUB790) was set to 2 and values of -1 in PUB791 & PUB792 recoded to 2 'No'.]

pub790 D1: Respondent had help filling in the questionnaire

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	4273	87.9	90.2	90.2
	2 Yes	462	9.5	9.8	100.0
	Total	4735	97.4	100.0	
Missing	-5 Question D1 omitted	126	2.6		
Total		4861	100.0		

pub791 D1a: A parent helped fill in the questionnaire

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	372	7.7	8.0	8.0
	2 No	4292	88.3	92.0	100.0
	Total	4664	95.9	100.0	
Missing	-5 Question D1 omitted	126	2.6		
	-1 Not stated	71	1.5		
	Total	197	4.1		
Total		4861	100.0		

pub792 D1b: Someone else helped fill in the questionnaire

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	23	.5	.5	.5
	2 No	4641	95.5	99.5	100.0
	Total	4664	95.9	100.0	
Missing	-5 Question D1 omitted	126	2.6		
	-1 Not stated	71	1.5		
	Total	197	4.1		
Total		4861	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. 31st November), the date of completion was later than the date on which the questionnaire was batched up or the date of completion was more than three weeks earlier than the date on which the respondent attended TF3 / TF Express. This action was flagged in variable PUB796c. The month and year of completion were retained on the built file, but the day was dropped.]

pub796a D3: Date of completion of questionnaire - month

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	526	10.8	10.8	10.8
	2 February	572	11.8	11.8	22.6
	3 March	507	10.4	10.4	33.0
	4 April	477	9.8	9.8	42.8
	5 May	395	8.1	8.1	51.0
	6 June	401	8.2	8.2	59.2
	7 July	251	5.2	5.2	64.4
	8 August	251	5.2	5.2	69.5
	9 September	185	3.8	3.8	73.3
	10 October	476	9.8	9.8	83.1
	11 November	470	9.7	9.7	92.8
	12 December	350	7.2	7.2	100.0
	Total	4861	100.0	100.0	

pub796b D3: Date of completion of questionnaire - year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2006	640	13.2	13.2	13.2
	2007	2929	60.3	60.3	73.4
	2008	1292	26.6	26.6	100.0
	Total	4861	100.0	100.0	

pub796c DV: Date of completion replaced with batch date

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes, incomplete d.o.c.	182	3.7	3.7	3.7
	3 Yes, d.o.c. > 3 weeks before date of attendance	176	3.6	3.6	7.4
	4 Yes, d.o.c. > batch date	56	1.2	1.2	8.5
	5 No	4447	91.5	91.5	100.0
	Total	4861	100.0	100.0	

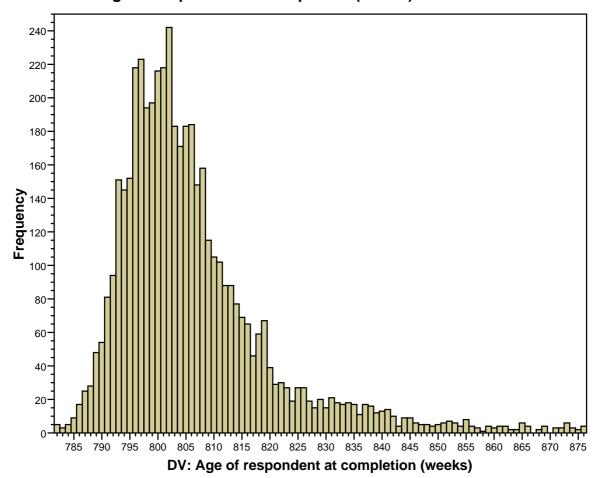
Derived Variables - Age at Completion

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.

pub797a DV: Age of respondent at completion (months)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	171	1	.0	.0	.0
	172	1	.0	.0	.0
	173	1	.0	.0	.1
	174	1	.0	.0	.1
	175	3	.1	.1	.1
	177	2	.0	.0	.2
	178	3	.1	.1	.2
	179	6	.1	.1	.4
	180	37	.8	.8	1.1
	181	176	3.6	3.6	4.8
	182	550	11.3	11.3	16.1
	183	890	18.3	18.3	34.4
	184	915	18.8	18.8	53.2
	185	738	15.2	15.2	68.4
	186	467	9.6	9.6	78.0
	187	305	6.3	6.3	84.3
	188	217	4.5	4.5	88.7
	189	110	2.3	2.3	91.0
	190	86	1.8	1.8	92.8
	191	77	1.6	1.6	94.3
	192	66	1.4	1.4	95.7
	193	50	1.0	1.0	96.7
	194	30	.6	.6	97.3
	195	24	.5	.5	97.8
	196	23	.5	.5	98.3
	197	13	.3	.3	98.6
	198	13	.3	.3	98.8
	199	15	.3	.3	99.2
	200	12	.2	.2	99.4
	201	10	.2	.2	99.6
	202	9	.2	.2	99.8
	203	4	.1	.1	99.9
	204	3	.1	.1	99.9
	205	3	.1	.1	100.0
	Total	4861	100.0	100.0	

pub797b DV: Age of respondent at completion (weeks)



plus the following missing values and outliers < 782 or > 876:

PUB7 File - Section D

pub797b DV: Age of respondent at completion (weeks)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	744	1	2.9	2.9	2.9
	752	2	5.7	5.7	8.6
	760	1	2.9	2.9	11.4
	761	1	2.9	2.9	14.3
	762	1	2.9	2.9	17.1
	764	1	2.9	2.9	20.0
	770	1	2.9	2.9	22.9
	773	1	2.9	2.9	25.7
	774	2	5.7	5.7	31.4
	776	1	2.9	2.9	34.3
	780	2	5.7	5.7	40.0
	781	1	2.9	2.9	42.9
	877	1	2.9	2.9	45.7
	879	2	5.7	5.7	51.4
	880	2	5.7	5.7	57.1
	881	2	5.7	5.7	62.9
	882	4	11.4	11.4	74.3
	884	2	5.7	5.7	80.0
	885	1	2.9	2.9	82.9
	888	2	5.7	5.7	88.6
	889	1	2.9	2.9	91.4
	892	1	2.9	2.9	94.3
	893	1	2.9	2.9	97.1
	894	1	2.9	2.9	100.0
	Total	35	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 coding instructions for *electronically scanned* ALSPAC questionnaires – first version, 5th December 2005.

These points are taken and adapted where necessary from the "General coding instructions for ALSPAC questionnaires – 3rd revision" document. They are to be used in conjunction with the specific instructions for each questionnaire.

General guidelines:

Check that the meaning of the question or the stated answer has not been adjusted by the respondent editing the question or qualifying the answer with words that make it not applicable.

Remember that a blank answer should always be left blank. It is not our task to infer what the respondent meant to say.

In cases where a box has been struck out, it should be considered as blank, meaning no answer given.

Logical editing will be taken care of by the data preparation team.

Dates

- a) If the <u>year is stated</u> but the day and/or month are left unfilled or are described as not known, then code the unknown element(s) as 99.
- b) In contrast, if the <u>year is blank or stated as not known</u>, but other elements of the date have been written, leave the unknown year *blank* so that there is no ambiguity with 1999.
- c) If the whole date is left totally blank, leave all blank.

Coding instructions:

Each type of questionnaire has its own unique coding sheet. To carry out the instructions by a standardised method, the abbreviations that have been used are:

- 7 If more than one box is crossed, record the one with the lowest number in the specific range
- 8 If more than one box is crossed, record the one with the highest number in the specific range
- I If 'Yes' <u>and</u> 'no' are crossed in a <u>stand-alone</u> question, then leave the question blank. However, if the Yes/No have both been marked in a lead question with 'If Yes...' or 'If No...' after it, then the answer should be obvious from the information given after the 'If Yes/No'.

II Code as a number.

Make sure that the answer is in the required units, e.g. weeks rather than months, or pints rather than glasses, or whatever. There will be rules in the coding instructions as to whether to round fractions up or down, for each question where it is likely to occur.

Other possible 'non-standard' indications by the respondent:

If answer stated as not known, code as 9, 99, 999 or 9999 - depending on field length. For this occurrence with <u>dates</u> see above.

If "occasional" is stated where a number is required, this is usually coded as 97. There are occasionally other codes in the 90 range to be used as indicated in the coding instructions.

If "none" or "nil" is stated for a numeric response, code as zero.

If there is no response, or they reply "Not applicable", "N/A" or something equivalent, leave the boxes blank.

IV Code as ddmmyy for days, months, years. See instructions above about dates.

PUB7 File - Appendix A

"Other, please describe" questions

Where information is written in an "other, please describe" box, check various points:

- 1. The information given there should not fit into one of the <u>other categories</u> in the question. If it is the same, recode it as that category, but if there is doubt, or it is clearly different, leave it as "other".
- 2. If there is information written in the box, it should have the corresponding box marked. If it is not possible to assign an answer to a corresponding box, (which happens often in qualitative answers) then assign the code "zero" indicating a relevant comment has been given, but we don't know which "yes" category to put it into.

Appendix B

This appendix contains the coding instructions specific for "Growing and Changing (6)". These were not updated for "Growing and Changing (7)" but were used as they stood due to the similarity between the questionnaires. Note that there are separate instructions for the male and female versions. The instructions for the female version are presented first.

<u>Coding instructions for: sixth version (03/03/06) "Growing and Changing (6) – Girl Teenager Questionnaire"</u> (fomerly known in Versions 1-5 as "Mother/Daughter Growing and Changing")

These questionnaires have all been electronically scanned.

Coding the "Growing and Changing (6) - Girl Teenager Questionnaire" replies

For data preparation follow the general rules outlined in the "General Coding Instructions For Electronically Scanned ALSPAC Questionnaires – First Version, 5th December 2005".

<u>In addition, run through the whole questionnaire to make sure that any names or other identifiers of the</u> respondent are deleted. These are not always in the text answers.

Front Cover

Check that the questionnaire number is present, and that the date of form is 03/03/06

Page 4, Section A		
Al	П, П	Round fractions down. If the height is given in more than one form, leave them both in. Convert 12+ inches to feet and inches. Convert 100+ cms to metres and centimetres. If they have written NK or equivalent, code with 9s throughout. Note that quite unrealistic and impossible answers are sometimes written in this question when respondents cannot cope with imperial and metric equivalents.
A2	II, II	As A1, but converting 'pounds' to 'stones & pounds' if necessary (14lbs = 1 stone!). Again, note that quite unrealistic and impossible answers are sometimes written in this question when respondents cannot cope with imperial and metric equivalents.
A3	7	
Page 5		
A4		If Yes and No are both crossed, code as blank unless part a) is answered, in which case code as Yes. If No is answered, ensure the skip to A10.
A4a	II	Round age down to completed years.
A5	II	Code as month, year. Code 'Not Known' or equivalent as 99 9999. If not yet started, should be blank.
A6a	II	If not yet started, should be blank. If 'It varies' is crossed as well as 'number of days', delete the number.
A6b	8	
A7	II	If not yet started, should be blank. If a range is given, code to the midpoint. If 'It varied' is crossed as well as 'number of days', delete the number.
Page 6		
A8a		If Yes and No are both crossed, code as blank unless there is a meaningful answer in part i), in which case code as Yes. If No is answered, ensure the skip to A8b

PUB7 File – Appendix B

A8ai		If Yes and No are both crossed, code as blank.
A8b		If Yes and No are both crossed, code as blank unless there is a meaningful answer in part i), in which case code as Yes.
A8bi		If Yes and No are both crossed, code as blank.
A8c		If Yes and No are both crossed, code as blank unless there is a meaningful answer in part i), in which case code as Yes.
A8ci		If Yes and No are both crossed, code as blank.
Page 7		
A9	8	
A10a	8	
A10b		If a relevant description is given in A10b, please ensure that the "yes" box is crossed in A10a. Please note that the text response is not being coded here.
A11		If Yes and No are both crossed, code as blank.
Page 10,		
Section B		
Breast development	8	
Page 11,		
Section C		
Hair growth	8	
Page 12, Section D		
D1		If both "Yes" and "No" are answered, code as blank <u>unless</u> an answer has been
		given in a) or b) in which case code as 2.
D1a,b		There should be either a cross or a blank here.
D2	13.7	The man should be either 01 02 to Jun /Ed. (colo) 02
D2	IV	The year should be either 91, 92 or Jan/Feb (only) 93, as there were no female cases born in 1990.
D3	IV	If this question is blank, copy the date of receipt from the front cover. Watch out for dates at the turn of the year as the stated year is sometimes incorrect!

END OF QUESTIONNAIRE

Growing & Changing (6) – Girl Teenager Questionnaire (03/03/06)

Sheila Preece 19/04/06

Coding instructions for: sixth version (02/03/06) "Growing and Changing (6) – Male Teenager Questionnaire" (fomerly known in Versions 1-5 as "Parent/Son Growing and Changing")

These questionnaires have all been electronically scanned.

Coding the "Growing and Changing (6) - Male Teenager Questionnaire " replies

For data preparation follow the general rules outlined in the "General Coding Instructions For Electronically Scanned ALSPAC Questionnaires – First Version, 5th December 2005".

<u>In addition, run through the whole questionnaire to make sure that any names or other identifiers of the</u> respondent are deleted. These are not always in the text answers.

Front Cover

Check that the questionnaire number is present, and that the date of form is 02/03/06

Page 4, Section A		
A1	II, II	Round fractions down. If the height is given in more than one form, leave them both in. Convert 12+ inches to feet and inches. Convert 100+ cms to metres and centimetres. If they have written NK or equivalent, code with 9s throughout. Note that quite unrealistic and impossible answers are sometimes written in this question when respondents cannot cope with imperial and metric equivalents.
A2	II, II	As A1, but converting 'pounds' to 'stones & pounds' if necessary (14lbs = 1 stone!). Again, note that quite unrealistic and impossible answers are sometimes written in this question when respondents cannot cope with imperial and metric equivalents.
A3	7	
A4	8	
A5		If Yes and No are both crossed, code as blank.
Page 6, Section B		
Penis development	8	
Page 7, Section C		
Hair growth	8	
Page 8, Section D		
D1		If both "Yes" and "No" are answered, code as blank <u>unless</u> an answer has been given in a) or b) in which case code as 2.
D1a,b		There should be either a cross or a blank here.

PUB7 File – Appendix B

D2	IV	There is only one male case in the cohort born in 1990. The year should otherwise be either 91, 92 or Jan/Feb (only) 93.
D3	IV	If this question is blank, copy the date of receipt from the front cover. Watch out for dates at the turn of the year as the stated year is sometimes incorrect!

END OF QUESTIONNAIRE

Growing & Changing (6) – Male Teenager Questionnaire (02/03/06)

Sheila Preece 19/04/06

coding specifications\nc06\chG&C Boy

Appendix C: Questionnaire Methodology

Administration

Questionnaires were identified by the 8 digit check-summed identifier (TF3ID) that is unique to the recipient and used on all TF3 collection materials. 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 as part of the pack sent out to attendees 2 weeks prior to their visit to TF3.

The questionnaires were either entered into a box anonymously but the study child when they attended TF3 or returned by mail if they forgot to bring it with them or, in a small number of cases, if they never actually came. 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 by the date on which they were scanned, separately for the male and female versions.

Data handling

The questionnaires were designed using the Teleform data capture software. 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 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

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first of which is always a 7) 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.