

# WELCOME TO

## 1<sup>st</sup> Contact Booklet Data Coding

Entries in red denote variable names and value coding used in the analysis dataset.

Entries in blue denote variable names and value coding used in the raw data, where this differs from the dataset.

This document was created on 7 March 2007 and last updated in March 2024.

### Notes:

1. The layout and formatting of the booklet have been somewhat modified in order to accommodate annotations of variable names and value codes. However, the wording of questions and responses is unchanged and page numbers have been retained.
2. This document shows item variables, not derived variables; however, in some cases the item variables have been recoded or restructured from the raw data, and annotations show where this has been done.
3. As shown, variable names in the raw data are rather arbitrary and these have been changed to more descriptive names in the dataset variables.
4. In many cases, the value coding in the raw data is the same as that in the dataset, in which case the coding is shown in the red font only.
5. In other cases, the value coding in the raw data differs from the coding in the dataset, in which case the raw data variable/coding is shown in blue in addition to the dataset variable/coding shown in red.
6. In the cleaned raw data, a 'missing' response is coded as -99 and 'not applicable' is coded as -77. These values apply universally and are not shown for individual variables. However, in the analysis dataset these are all recoded to missing values.
7. The booklet contained many text-response questions. Some of these were entered in the original electronic raw data and others were not entered. For most questions, the text data were only entered for the 1996 cohort and part of the 1995 cohort (data entry by NOP); but the text data were not entered for the 1994 cohort and the first part of the 1995 cohort (data entry within TEDS). Where entered, the original verbatim text responses have now been coded into numeric variables. This coding is indicated within this document, where the questions occur, and with full coding given in the Appendix at the end of this document.
8. This booklet contains some twin-specific items, where the parents are asked questions about the elder and younger twins separately. In the analysis dataset, all twin-specific items are double-entered with a row of data for every twin. Here, variable name suffixes "1" and "2" refer respectively to twin and cotwin, not to elder and younger twin.
9. In other twin questions, raw responses for the twin pair were gathered using coding such as 0=neither twin, 1=elder twin, 2=younger twin, 3=both twins. Such responses have been recoded to separate twin variables in the dataset.
10. The paper booklet had date fields on eight of the pages, as shown. The raw dates as originally recorded had problems of missing data and anomalies. These dates have been cleaned and aggregated into a single best-estimate date, replacing the original dates in the cleaned raw data. The date fields for this date are shown at the top of the first main page of questions (You and Your Twins section, page 1).
11. Date variables are not retained in the dataset but have been used to derive ages.
12. "Don't know" and "not applicable" types of raw category response are all recoded to missing in the dataset.

## CONSENT FORM

If you and your family would like to be part of TEDS it is important that you sign this form. As in all research, we can only involve you if you sign.

When you sign the form, you are agreeing to fill out this booklet as best you can.

Text details on this page have not been retained in the raw data. Where appropriate, contact details were transferred into the TEDS admin database at the time of data collection.

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**Your Name** .....

**Relationship to the twins (eg. mother, guardian etc)** .....

**Your address** .....

.....

**Postcode**

--	--	--	--	--	--	--	--

**Your telephone number** .....

**YES, I agree to myself and my family taking part in TEDS, Twins' Early Development Study. I understand that we can withdraw from the study at any time, and that all information will be kept strictly confidential.**

**Signature** .....

**Today's Date** .....

...../...../..... (Day/Month/Year)

sc05

1=signed, 0=not signed

(If a date was originally recorded here, it has been used to estimate the booklet date shown on page 1.)

Thank you for agreeing to fill out this booklet. Before you start, here are a few instructions which we would like you to read.

### HOW TO FILL IN THIS BOOKLET

There are **no right or wrong answers** to any of the questions we ask. Every child has a different way of developing, and this is a big part of what interests us. Please be as honest as you can when answering our questions. Everything you tell us will be kept strictly confidential.

Please try to answer *all* the questions you are asked. It is very important that the booklets are completed as fully as possible, so that we can get a full picture of your twins.

We realise that parents of twins are very busy, so don't feel that you have to answer all our questions on the same day. However, please date the pages at the top.

It would be helpful if you would write as clearly possible.

Here is an example of how a question *could* be answered.

Most of the questions in this booklet will ask you to tick a box next to the answer that is most suitable. Some will also ask you to describe this answer in more detail, for example:

**Are there differences in the colour of your twins' eyes?** (PLEASE TICK ONE)

None     Only slight difference     Clear difference

If there is a difference, please describe:

This means that there is a slight difference in your twins' eye colour: one of the twins has darker blue eyes than the other.

THANK YOU FOR YOUR TIME AND ASSISTANCE IN FILLING OUT THIS BOOKLET.

TODAY'S DATE ...../...../19..... (Day/Month/Year)

booklet\_dd, booklet\_mm, booklet\_yyyy (dd, mm and yyyy date fields)

As explained above, this is a best estimate of the date when the booklet was completed by the parent, replacing multiple date fields in the original raw data.

## YOU AND YOUR TWINS

### ABOUT YOU

Names and contact details on this page are not retained in the raw data. Where appropriate, contact details were transferred into the TEDS admin database at the time of data collection.

First name

Last name

Male  Female

(respondent sex was not retained here, because the question is repeated in the About You section on page 9)

Address

Telephone number

Do you have a relative or friend? (in case you move or we are unable to contact you)

Their first name

Their last name

Address

Telephone number

Relationship to you

### FIRST BORN TWIN

First name

Last name

Sex yt03:  Boy 1  Girl 0

Date of Birth ...../...../..... (Day/Month/Year)

### SECOND BORN TWIN

First name

Last name

Sex yt05:  Boy 1  Girl 0

Date of Birth ...../...../..... (Day/Month/Year)

(raw twin sexes from this booklet are now replaced in the dataset by twin sexes from the admin database, which are known to be more correct)

What is the ethnic origin of your twins? aethnicc yt07 (PLEASE TICK ONE)

Asian 1  Black 2  Mixed race 3 (PLEASE DESCRIBE) \*

White 4  Other 5 (PLEASE DESCRIBE) \*

aethnicc: 1=white, 0=other

(\* text not retained: responses were coded into the numeric categories above)

Main language spoken at home

(originally recorded as text then coded to numeric categories at the point of data entry; text responses are not retained in the data)

yt08: 1=English, 2=English + other, 0=other (1994) or 3=other (1995/96)

alang: 1=English, 2=English + other, 0=other



## DRESSING

- 7) **Do you usually try to dress your twins as similarly as possible?**

(PLEASE TICK ONE) **adressim dd19**

YES **1**       NO **0**

**If NO, please go on to question 9**

If YES, why is this? (PLEASE TICK ALL THAT APPLY)

I like them to match	<b>dd20</b>	<b>adsmatch</b>	<b>1=yes 0=no</b>
They like to look the same	<b>dd21</b>	<b>adslike</b>	<b>1=yes 0=no</b>
It's easier to dress them the same	<b>dd22</b>	<b>adseasy</b>	<b>1=yes 0=no</b>
It's cheaper to dress them the same	<b>dd23</b>	<b>adscheap</b>	<b>1=yes 0=no</b>
I have been given matching clothes	<b>dd24</b>	<b>adsgiven</b>	<b>1=yes 0=no</b>

Any other reason? (PLEASE DESCRIBE)

(text responses were not entered here and are not in the data)

- 8) **Is it possible to tell your twins apart by one aspect of the way they dress? (for example, labels, certain colours, hairstyles)** **adresdif dd26**

YES **1**       NO **0**

## SLEEPING

- 9) **Do your twins share a room at night?** **asharerm dd27**

YES **1**       NO **0**

- 10) **Do your twins have a regular sleeping pattern?** **dd28**

YES, 1st born **1**     YES, 2nd born **2**     YES, both twins **3**     NO **0**  
**aslpreg1/2: 1=yes 0=no**

- 11) **Does one twin sleep more than the other?** **aslpmore | dd29**

YES, 1st born **1**       YES, 2nd born **2**       NO **0**

- 12) **If one twin wakes up and is crying, does the other twin wake up?** **dd30**

(PLEASE TICK ONE) **aslpwake (recoded to ordinal values)**

YES **1 2**     NO **0 0**     Sometimes **2 1**

- 13) **Who usually puts the twins to bed at night?** (PLEASE TICK ALL THAT APPLY)

One parent	<b>abed1par</b>	<b>dd31</b>	<b>1=yes 0=no</b>
Both parents	<b>abed2par</b>	<b>dd32</b>	<b>1=yes 0=no</b>
Other relatives	<b>abedrel</b>	<b>dd33</b>	<b>1=yes 0=no</b>
Friends	<b>abedfrnd</b>	<b>dd34</b>	<b>1=yes 0=no</b>
Professional carer (eg. nanny)	<b>abedprof</b>	<b>dd35</b>	<b>1=yes 0=no</b>

Anyone else? (PLEASE DESCRIBE)

(text responses were not entered here and are not in the data)

## CARE

14) **Have you started working or studying since the birth of your twins?** dd37

awork  YES, full-time 1  YES, part-time 2  NO 0

If YES, how old were the twins when you began working or studying?

...Months ...Weeks ...Days dd38 (days, integer)

aworkdd categories: 1=less than 3 months, 2=3-5 months, 3=5-7 months, 4=7-12 months, 5=12-18 months, 6=over 18 months

15) **Do you ever leave your twins to be looked after by other people?**

Other parent alookpar dd39 1=yes 0=no

Other relatives alookrel dd40 1=yes 0=no

Friends alookfrn dd41 1=yes 0=no

Professional carer (eg. nanny) alookpro dd42 1=yes 0=no

Anyone else? alookels dd43 1=yes 0=no

If you ticked any of the above, how many hours in a usual week do you leave them for? ...Hours dd44 (hours, decimal)

alookh categories: 1=1 hour or less, 2=1-2, 3=2-4, 4=4-10, 5=10-20, 6=20-40, 7=over 40 (hours per week)

16) **How many hours per week does each twin usually spend alone with you?**

1st born ... Hours dd45 (hours, decimal)

2nd born ... Hours dd46 (hours, decimal)

aaloneh1/2 categories: 0=0, 1=up to 1, 2=1-2, 3=2-6, 4=6-20, 5=20-40, 6=over 40 (hours per week)

17) **Are your twins ever separated for more than half an hour?** aapart dd47

YES 1  NO 0

## OTHER SIBLINGS

Raw variables have free numeric values.

18) **How many other children live in the home with your twins?**

Younger (male) dd48 anyngmsi Older (male) dd49 anoldmsi

Younger (female) dd50 anyngfsi Older (female) dd51 anoldfsi

anyngsib anoldsib Total (M+F)

Dataset variables are categorized for higher numbers:

anyngmsi, anyngfsi, anyngsib: 0=0, 1=1, 2=2 or more.

anoldmsi, anoldfsi: 0=0, 1=1, 2=2, 3=3, 4=4 or more.

anoldsib: 0=0, 1=1, 2=2, 3=3, 4=4, 5=5 or more.

19) **Please tell us about the younger children in the home:**

Young sibling details were originally entered below (names, sexes, birth dates and relationships to the twins). These were used to update the TEDS admin system at the time of the study. These details have not been retained in the 1<sup>st</sup> Contact raw data and have now been deleted from the admin system for reasons of privacy.

Child's name(s) Date of birth (Day/Month/Year)  Boy  Girl

**Does this child have the same parents as the twins?**

both parents the same  one parent the same  no parent the same

Child's name(s) Date of birth (Day/Month/Year)  Boy  Girl

**Does this child have the same parents as the twins?**

both parents the same  one parent the same  no parent the same

IF THERE ARE MORE THAN TWO YOUNGER CHILDREN, PLEASE TELL US ABOUT THEM ON THE BACK PAGE OF THIS BOOKLET AND TICK THIS BOX:

20) **Please tell us about the twins' older brothers and sisters:**

Older sibling details were originally entered below (names, sexes, birth dates and relationships to the twins). These were used to update the TEDS admin system at the time of the study but have now been deleted from the admin system for reasons of privacy.

In the raw data, the only variables retained are the day, month and year of birth of the oldest recorded sibling having both parents the same as the twins:  
oldestsibdd, oldestsibmm, oldestsibyy

In the dataset, the oldest sibling's birth date (if any), along with the mother's and twins' birthdates, is used to derive variable amagechl, which is the mother's age when her first (recorded) child was born.

Child's name(s)                      Date of birth ...../...../..... (Day/Month/Year)     Boy  Girl

**Does this child have the same parents as the twins?**

both parents the same     one parent the same     no parent the same

Child's name(s)                      Date of birth ...../...../..... (Day/Month/Year)     Boy  Girl

**Does this child have the same parents as the twins?**

both parents the same     one parent the same     no parent the same

Child's name(s)                      Date of birth ...../...../..... (Day/Month/Year)     Boy  Girl

**Does this child have the same parents as the twins?**

both parents the same     one parent the same     no parent the same

IF THERE ARE MORE THAN THREE OLDER CHILDREN, PLEASE TELL US ABOUT THEM ON THE BACK PAGE OF THIS BOOKLET AND TICK THIS BOX:

21) **Did you notice any changes in the older child/ren straight after the twins were born?**

asibch                      dd69                       YES 1                       NO 0

If YES, please describe:

(text responses were not entered here and are not in the data)

22) **Did/do you try to include the older child/ren in the care of the twins?**

asibcare                      dd71                       YES 1                       NO 0

23) **Do the older children usually get on well with the twins?** (PLEASE TICK ONE)

asibgeto                      dd72                       YES 1                       NO 0

24) **Do you regularly spend time alone with the older children?**

asibalon                      dd73                       YES 1                       NO 0

25) **Did other people seem to pay more attention to the twins than to the older child/ren after the twins were born?** asibatt dd74

YES 1                       NO 0

If YES, did you try to do anything about it?

(text responses were not entered here and are not in the data)

26) **Is the mother of the twins pregnant?** (PLEASE TICK ONE)

apreg                      dd76                       YES 1                       NO 0

If YES, when is the baby ...../...../..... (not retained in raw data) expected to be born?

27) **Is there anything else you would like to tell us about your family?**

(text responses were not entered here and are not in the data)

TODAY'S DATE ...../...../19..... (Day/Month/Year)

(If a date was originally recorded here, it has been used to estimate the booklet date shown on page 1.)

### YOUR TWINS: IDENTICAL OR NON-IDENTICAL?

PLEASE NOTE: NONIDENTICAL TWINS ARE OFTEN CALLED FRATERNAL TWINS

IF YOUR TWINS ARE OF OPPOSITE SEX, PLEASE TURN TO PAGE 9.

- 28) **Have you ever been told by a *health professional* (for example doctor, nurse, consultant) that your twins are identical or non-identical?** *azyprof in01*

YES, identical 1 1     YES, non-identical 2 2     NO 0

If YES, why did they think this? *text responses were coded into numeric category codes: in02code azyprofc (see appendix for coding)*

- 29) **Do you think your twins are identical or non identical?** *azyyou in03*

Identical 1                       Non-identical 2

Why do you think this? *text responses were coded into numeric category codes: in04code azyyouc (see appendix for coding)*

### PHYSICAL DIFFERENCES

- 30) **Are there differences in the *shade* of your twins' hair?** *azyhairs in05*

None 1             Only slight difference 2             Clear difference 3

If there is a difference, please describe:  
*(text responses were not entered here and are not in the data)*

- 31) **Are there differences in the *texture* of your twins' hair (fine or coarse, straight or curly etc.)?** *azyhairt in07*

None 1             Only slight difference 2             Clear difference 3

If there is a difference, please describe:  
*(text responses were not entered here and are not in the data)*

- 32) **Are there differences in the colour of your twins' eyes?** *azyeyes in09*

None 1             Only slight difference 2             Clear difference 3

If there is a difference, please describe:  
*(text responses were not entered here and are not in the data)*

- 33) **Are there differences in the shape of your twins' ear lobes?** *azyyears in11*

None 1             Only slight difference 2             Clear difference 3

If there is a difference, please describe:  
*(text responses were not entered here and are not in the data)*

- 34) **Did the twins' teeth begin to come through at about the same time?**
- azyteeth in13 (also recoded into azyteetr as shown) azyteetr**
- 1 1 The twins had matching teeth on the same side come through within a few days of each other 1
- 2 2 The twins had matching teeth on opposite sides come through within a few days of each other 1
- 3 3 The twins had different teeth come through within a few days of each other 2
- 4 4 The twins' first teeth did not come through within a few days of each other 2
- 5 5 The twins' teeth have not come through yet

- 35) **Do your twins look at all different?** (PLEASE DESCRIBE)  
 (text responses were not entered here and are not in the data)

- 36) **Do you know of any physical differences between your twins that are not clear from looking at them (eg. differences in internal organs)?** azyphysi in15
- YES 1  NO 0
- If YES, please describe:  
 (text responses were not entered here and are not in the data)

- 37) **Do you know your twins' ABO blood group and Rhesus (Rh) factors?**
- azyblood in17**
- YES 1  NO 0
- If YES, are they: (PLEASE TICK A BLOOD GROUP AND RHESUS FACTOR FOR EACH TWIN)
- 1st born in18:  A 1  B 2  AB 3  O 4
- in19:  Rh+ 1  Rh- 2
- 2nd born in20:  A 1  B 2  AB 3  O 4
- in21:  Rh+ 1  Rh- 2

Recoded into twin pair 'difference' dataset variables,  
 coded 0=no (same), 1=yes (different).  
 azytyp: different blood groups (A/B/AB/O)  
 azyfac: different rhesus factor (Rh+/Rh-)

- 38) **If there are differences between your twins, are they because of anything like problems at birth; an accident; or illness?** azyprobs in22
- YES 1 2 NO 0 1 Don't Know 2 There are no differences 3 0

If YES, please describe:  
 (text responses were not entered here and are not in the data)

- 39) **As your twins have grown older, has the likeness between them:**
- azygrow in24**
- Remained the same 1  Become less 2  Become more 3

Also recoded into ordinal variable azyold: 1=more, 2=same, 3=less

### TELLING THE TWINS APART

- 40) **How do you tell the twins apart?** (PLEASE DESCRIBE)  
 (text responses were not entered here and are not in the data)
- 41) **How do other members of your family tell them apart?** (PLEASE DESCRIBE)  
 (text responses were not entered here and are not in the data)

42) **When looking at a new photograph of your twins, can you tell them apart (without looking at their clothes or using any other clues)?**

azyphoto in27

Also recoded into azyphotr: azyphotr

- YES, easily 1
- YES, but it is hard sometimes 2
- NO, I often confuse them in photographs 0

3  
2  
1

43) **Do any of the following people ever mistake your twins for each other?**

**Other parent of the twins** azymistp in28

- 1  YES, often 1
- 2  YES, sometimes 2
- 3  Rarely or never 3
- No other parent 4

**Other relatives** azymistr in30

- 1  YES, often
- 2  YES, sometimes
- 3  Rarely or never

**Parents' close friends** azymistf in32

- 1  YES, often
- 2  YES, sometimes
- 3  Rarely or never

**People meeting the twins for the first time** azymistm in34

- 1  YES, often
- 2  YES, sometimes
- 3  Rarely or never

**Older brothers or sisters** azymists in29

- 1  YES, often 1
- 2  YES, sometimes 2
- 3  Rarely or never 3
- No older brothers or sisters 4

**Babysitter/day carer** azymistb in31

- 1  YES, often 1
- 2  YES, sometimes 2
- 3  Rarely or never 3
- No babysitter/day carer 4

**Parents' casual friends** azymistc in33

- 1  YES, often
- 2  YES, sometimes
- 3  Rarely or never

44) **If the twins are ever mistaken for one another, does this ever occur when they are together?** azytoget in35

- Yes, often 1
- Yes, sometimes 2
- No, almost never 3
- They are not mistaken for one another 4

45) **Would you say that your twins:** azypeas in36

- are as physically alike as "two peas in a pod" (virtually the same) 1
- are as physically alike as brothers and sisters are 2
- do not look very much alike at all 3

TODAY'S DATE ...../...../19..... (Day/Month/Year)

(If a date was originally recorded here, it has been used to estimate the booklet date shown on page 1.)

## INFORMATION ABOUT THE ADULTS IN THE HOME

### ABOUT YOU

**First name** (names were used at the time of data collection to update  
**Last name** admin information, but are not retained in the raw data)

**arespsex**      **ia01**       Male 1       Female 0

**Relationship to the twins** **aresprel ia02**  
(dataset codes for guardian and other combined because these are rare)

Natural mother of the twins 1 1      Natural father of the twins 2 2      Legal guardian of the twins 3 3

Other 4 3      (PLEASE DESCRIBE) (any text response originally given here has been coded into the responses above)

**Date of birth** ...../...../..... (Day/Month/Year)  
**ia04dd/ia04mm/ia04yy** (day/month/year)

(birth date not in dataset but is used to derive ages)

46) **What educational qualifications do you have?**

Recoded into highest qualification level:      **aresphqual**

No qualifications	1	<b>ia05</b>	1=yes	0=no
CSE (Grade 2, 3, 4, 5) or GSCE (D, E, F, G)	2	<b>ia06</b>	1=yes	0=no
CSE (Grade 1) or 'O'level (A, B, C) or GSCE (A, B, C)	3	<b>ia07</b>	1=yes	0=no
'A'level, 'S'level	4	<b>ia08</b>	1=yes	0=no
Higher National Certificate (HNC)	5	<b>ia09</b>	1=yes	0=no
Higher National Diploma (HND)	6	<b>ia10</b>	1=yes	0=no
Undergraduate degree	7	<b>ia11</b>	1=yes	0=no
Postgraduate qualification (eg Masters, PhD)	8	<b>ia12</b>	1=yes	0=no
PLEASE DESCRIBE: *				
Other		<b>ia14</b>	1=yes	0=no

PLEASE DESCRIBE: \*

(\* text not retained: responses were coded into the numeric categories above)

47) **Do you currently have a job?** **arespjob ia16**

YES 1       NO 0       Staying at home to look after the children 2

If YES, please continue, if NO, or staying at home to look after the children please go to question 51

48) **What is your FULL job title?**

(text responses are not retained in the data, but were coded into the categories shown below at the time of data entry)

**arespsoc ia17a** 1-9 (SOC main groups)

**arespclas ia17b** 1-6 (social class groups)

49) **Do you need any special qualification for your job?** **arespspq ia18**

YES 1 1       NO 0 0       Don't Know 2

If YES, please describe: (text responses were not entered here and are not in the data)

50) **Of the following, which best describes you at work?** **arespwork ia20**

manager 1       employee 2       self-employed - with employees 3  
 foreman 4       apprentice 5       self-employed - with no employees 6

51) **Marital status** **arespstat ia21**

Married to or cohabiting with:       parent of the twins 1       someone else 2

Single parent:       divorced 3       separated 4       widowed 5       unmarried 6

If you are a single parent, please go to question 58 on page 11

**ABOUT THE PERSON YOU LIVE WITH**

**First name** (names were used at the time of data collection to update admin information, but are not retained in the raw data)  
**Last name**

apartsex ia22  Male 1  Female 0

**Relationship to the twins** apartrel ia23  
 (dataset codes for guardian and other combined because these are rare)

Natural mother of the twins 1 1      Natural father of the twins 2 2      Legal guardian of the twins 3 3  
 Other 4 3 (PLEASE DESCRIBE) (text not retained: responses were coded into the numeric categories above)

**Date of birth** ...../...../..... (Day/Month/Year)  
 ia25dd/ia25mm/ia25yy: (day/month/year)

(birth date not in dataset but used to derive ages)

52) **What educational qualifications does s/he have?** (PLEASE TICK ALL THAT APPLY)

<b>Recoded into highest qualification level:</b>	<b>aparthqual</b>	
No qualifications	1	ia26 1=yes 0=no
CSE (Grade 2, 3, 4, 5) or GSCE (D, E, F, G)	2	ia27 1=yes 0=no
CSE (Grade 1) or 'O'level (A, B, C) or GSCE (A, B, C)	3	ia28 1=yes 0=no
'A'level, 'S'level	4	ia29 1=yes 0=no
Higher National Certificate (HNC)	5	ia30 1=yes 0=no
Higher National Diploma (HND)	6	ia31 1=yes 0=no
Undergraduate degree	7	ia32 1=yes 0=no
Postgraduate qualification (eg Masters, PhD)	8	ia33 1=yes 0=no
PLEASE DESCRIBE: *		
Other		ia35 1=yes 0=no
PLEASE DESCRIBE: *		

(\* text not retained: responses were coded into the numeric categories above)

53) **Does s/he currently have a job?** apartjob ia37

YES 1  NO 0  Staying at home to look after the children 2

54) **What is his/her FULL job title?**

(text responses are not retained in the data, but were coded into the categories shown below at the time of data entry)

apartsoc ia38a 1-9 (SOC groups)  
 apartclas ia38b 1-6 (social class groups)

If YES, please continue, if NO, or staying at home to look after the children please go to question 57

55) **Does s/he need any special qualification for the job?** apartspq ia39

YES 1 1  NO 0 0  Don't Know 2

If YES, please describe: (text responses were not entered here and are not in the data)

56) **Of the following, which best describes him/her at work?** apartwork ia41

manager 1       employee 2       self-employed - with employees 3  
 foreman 4       apprentice 5       self-employed - with no employees 6

57) **Marital status** ia42

Married to or cohabiting with:  parent of the twins 1       someone else 2

Single parent:  divorced 3       separated 4       widowed 5       unmarried 6

Partner marital status is redundant (use respondent marital status above) and is not used as a variable in the dataset.

See also derived variable aadults (adults present at home):

1=both biological parents cohabiting; 2=biological parent cohabiting with other; 3=single parent; 4=biological mother present but no partner details given; 9=unknown.

TODAY'S DATE ...../...../19..... (Day/Month/Year)

(If a date was originally recorded here, it has been used to estimate the booklet date shown on page 1.)

## MOTHER'S PREGNANCY AND BIRTH

TWINS' FIRST NAME(S): FIRST BORN (names entered here are not retained in the raw data)  
SECOND BORN

### YOUR PREGNANCY

58) **When you became pregnant, were you having any fertility treatment?** `afert mp01`

YES 1  NO 0

If YES, please describe: text responses were coded into numeric category codes: `mp02code afertc` (see appendix for coding)

59) **Were you regularly taking any medicine whilst pregnant?** `ameds mp03`

YES 1  NO 0

If YES, was this: (PLEASE TICK ALL THAT APPLY) all coded 1=yes 0=no

for the first 3 months  for the middle 3 months  for the last 3 months

`ameds1x mp04`

`ameds2x mp05`

`ameds3x mp06`

What was the medicine? text responses were coded into numeric category codes: `mp07code amedsc` (see appendix for coding)

60) **Did you smoke cigarettes whilst pregnant?** `asmoke mp08`

YES 1  NO 0

If YES, was this: (PLEASE TICK ALL THAT APPLY) all coded 1=yes 0=no

for the first 3 months

for the middle 3 months

for the last 3 months

`asmoke1x mp09`

`asmoke2x mp10`

`asmoke3x mp11`

How many cigarettes did you smoke each day, on average? `mp12` (integer number)

`asmokenu: 0=0, 1=1-4, 2=5-9, 3=10-14, 4=15-19, 5=20 or more`

61) **Were you on a special diet whilst pregnant (vegetarian, vegan, etc.)?** `adiet mp13`

YES 1  NO 0

If YES, please describe: text responses were coded into numeric category codes: `mp14code adietc` (see appendix for coding)

62) **Did you drink alcohol whilst pregnant?** `adrink mp15`

YES 1  NO 0

If YES, was this: (PLEASE TICK ALL THAT APPLY) all coded 1=yes 0=no

for the first 3 months

for the middle 3 months

for the last 3 months

`adrink1x mp16`

`adrink2x mp17`

`adrink3x mp18`

How many units of alcohol did you drink, per week, on average? `mp19` (integer number)

`adrinknu: 0, 1, 2, 3, 4=4-5, 5=6-7, 6=8-13, 7=14 or more (units per week)`

(1 unit = 1 glass of wine, OR, 1 measure of spirits, OR, ½ a pint of beer)

63) **Did you experience any severe stress during your pregnancy (for example, bereavement, serious illness in the family, major money problems)?** `astress mp20`

YES 1  NO 0

If YES, please describe: text responses were coded into numeric category codes: `mp21code astressc` (see appendix for coding)

64) **Did your doctor suggest that you stay in bed for part of your pregnancy?** `mp22`

(PLEASE TICK ONE)

YES 1  NO 0  Don't Know 2

If YES: Why? text responses were coded into numeric category codes: `mp23code arestc` (see appendix for coding)

For how long? ...Months, ...Weeks, ...Days `mp24` (days, integer)

Coded into a single category variable, `arestdd`:

0=no, 1=1-7 days, 2=8-14 days, 3=15-30 days, 4=31-60 days, 5=over 60 days.

65) **During your pregnancy did you experience any of the following:**

(PLEASE TICK ONE FOR EACH ITEM)

Dataset coding 1=yes 0=no (2=don't know recoded to missing)

mp25	Amniocentesis	asick1x	YES	1	NO	0	Don't Know	2
mp26	High blood pressure	asick2x	YES	1	NO	0	Don't Know	2
mp27	Diabetes	asick3x	YES	1	NO	0	Don't Know	2
mp28	Toxaemia/pre-eclampsia	asick4x	YES	1	NO	0	Don't Know	2
mp29	Vaginal bleeding	asick5x	YES	1	NO	0	Don't Know	2
mp30	Rubella/German Measles	asick6x	YES	1	NO	0	Don't Know	2
mp31	Slow growth of baby/ies	asick7x	YES	1	NO	0	Don't Know	2
mp32	Waters breaking more than 11 hours before labour	asick8x	YES	1	NO	0	Don't Know	2

**THE TWINS' BIRTH**

66) **How many weeks pregnant were you at the time of delivery?** mp33 (24-43)

agestage: 26=26 or lower, 27, 28 ... 40, 41, 42=42 or higher

under 31   31   32   33   34   35   36   37   38   39   40   41   42   43  
                                      

If under 31, please specify number of weeks: (original raw responses here were coded into the variable above)

67) **Was your labour induced?** ainduced mp35

YES 1 1    NO 0 0    Don't Know 2

68) **How long was your labour?** (some responses originally give in minutes)

... Hours mp36 (converted to minutes, integer)

alabourh categories (hours): 0=0, 1=1-2, 2=3-4, 3=5-6, 4=7-8, 5=9-10, 6=11-12, 7=13-16, 8=17-24, 9=over 24 hours

69) **Were you given any drugs, including an epidural, to help you through your labour?** abdrug mp37

YES 1 1    NO 0 0    Don't Know 2

If YES, what drugs were given? text responses were coded into numeric category codes: mp38code abdrugc (see appendix for coding)

70) **Were there any complications during the birth of your twins?** abcomp mp39

YES 1 1    NO 0 0    Don't Know 2

If YES, please describe: text responses were coded into numeric category codes: mp40code abcompc (see appendix for coding)

71) **Was the birth by Caesarean section?** acaes mp41

YES, expected 1 1    YES, emergency 2 2    NO 0 0    Don't Know 3

If YES, why? text responses were coded into numeric category codes: mp42code acaesc (see appendix for coding)

72) **Roughly how long was the gap between the births?**

...Hours ...Minutes mp43 (minutes, integer)

abgap categories (minutes): 1=1 or less, 2=2-5, 3=6-10, 4=11-15, 5=16-20, 6=21=30, 7=over 30 minutes

73) **What were the lengths and the weights of the twins at birth?**  
 Original responses all converted to metric units in the raw data.

LENGTH    1st born:    mp44cm (integer)    ...cms    OR    ...inches  
              2nd born:    mp45cm (integer)    ...cms    OR    ...inches  
              ablen1/2 (centimetres, integer)

WEIGHT    1st born:    mp48kg (decimal)    ...lbs ...oz    OR    ...kgs  
              2nd born:    mp49kg (decimal)    ...lbs ...oz    OR    ...kgs  
              akidgr1/2 (converted to grams, integer)

74) **Was there any concern about either twin at birth (for example, did either twin have any breathing problems)?** abprobl/2

1st born mp52                     YES 1 1     NO 0 0     Don't Know 2  
 2nd born mp53                     YES 1 1     NO 0 0     Don't Know 2

If YES, please describe: text responses were coded into numeric category codes: mp54code abprobc (see appendix for coding)

75) **Did either of the twins have any special care when born (for example, incubators etc)?**

1st born mp55                     YES 1     NO 0     Don't Know 2  
 2nd born mp56                     YES 1     NO 0     Don't Know 2

If YES, please describe : text responses were coded into numeric category codes: mp57code aspcarc (see appendix for coding)  
 How long did they stay in special care?

1st born mp58 (days, integer)                    ...Months    ...Weeks    ...Days  
 2nd born mp59 (days, integer)                    ...Months    ...Weeks    ...Days

The yes/no response and the length of stay were coded into a single category twin variable, aspcard1/2:  
 0=no, 1=1-2 days, 2=3-14 days, 3=15-30 days, 4=31-97 days, 5=98+ days

76) **How long did the twins stay in hospital after birth?**

1st born    mp60 (days, integer)    ...Months    ...Weeks    ...Days  
 2nd born    mp61 (days, integer)    ...Months    ...Weeks    ...Days

ahospd1/2 categories: 1=0-3, 2=4-5, 3=6-7, 4=8-14, 5=15-30, 6=31-74, 7=75 or more days

77) **Has either of the twins had to go back to hospital as an outpatient?**

(PLEASE TICK ONE FOR EACH CHILD) aoutp1/2

1st born mp62                     YES 1 1     NO 0 0     Don't Know 2  
 2nd born mp63                     YES 1 1     NO 0 0     Don't Know 2

If YES, please describe : text responses were coded into numeric category codes: mp64code aoutpc (see appendix for coding)

78) **Has either of the twins had to go back to hospital to stay overnight?**

(PLEASE TICK ONE FOR EACH CHILD) aover1/2

1st born mp65                     YES 1 1     NO 0 0     Don't Know 2  
 2nd born mp66                     YES 1 1     NO 0 0     Don't Know 2

If YES, please describe : text responses were coded into numeric category codes: mp67code aoverc (see appendix for coding)

79) **Have either of your twins:**

any medical problems in the first two weeks after birth? mp68  
 YES, 1st born 1 YES, 2nd born 2 YES, both 3 NO 0 Don't Know 4  
 amprobl/2: 1=yes 0=no

If YES, please describe: text responses were coded into numeric category  
 codes: mp69code amprobc (see appendix for coding)

physical problems (for example, cleft lip, hole in the heart)? mp70  
 YES, 1st born 1 YES, 2nd born 2 YES, both 3 NO 0 Don't Know 4  
 aphys1/2: 1=yes 0=no

If YES, please describe: text responses were coded into numeric category  
 codes: mp71code aphysc (see appendix for coding)

genetic or chromosomal problems (for example, Down's Syndrome, PKU)? mp72  
 YES, 1st born 1 YES, 2nd born 2 YES, both 3 NO 0 Don't Know 4  
 agenpro1/2: 1=yes 0=no

If YES, please describe: (negligible numbers of responses: not coded)  
 a problem with vision? mp74

YES, 1st born 1 YES, 2nd born 2 YES, both 3 NO 0 Don't Know 4  
 avispro1/2: 1=yes 0=no

If YES, please describe: text responses were coded into numeric category  
 codes: mp75code avisproc (see appendix for coding)

80) **Has either of the twins ever had any fits, seizures or convulsions?**

(PLEASE TICK ONE FOR EACH CHILD) afits1/2

<b>Dataset:</b>	1	2	0	
<b>Raw data:</b>	1	2	0	3
<b>1st born</b> mp76	YES, at least one without a temperature	YES, but only with a high temperature	NO	Don't know
<b>2nd born</b> mp77	YES, at least one without a temperature	YES, but only with a high temperature	NO	Don't know

81) **Which hand does each twin use for most activities (eating, colouring, picking up objects)?** (PLEASE TICK ONE FOR EACH CHILD) ahand1/2

<b>Dataset:</b>	1	2	3	4	5	
<b>Raw data:</b>	1	2	3	4	5	6
<b>1st born</b> mp78	Always right hand	Usually right hand	Either hand	Usually left hand	Always left hand	Don't know
<b>2nd born</b> mp79	Always right hand	Usually right hand	Either hand	Usually left hand	Always left hand	Don't know

82) **Have you any comments about the twins' general health?**  
 (text responses were not entered here and are not in the data)

TODAY'S DATE ...../...../19..... (Day/Month/Year)

(If a date was originally recorded here, it has been used to estimate the booklet date shown on page 1.)

## YOUR TWINS' HEARING

83) **Have you, or has anyone else, ever suspected, that either of the twins may have a hearing problem?** (PLEASE TICK ONE) **ahprob1/2**

1st born **h01**  YES **1**  NO **0**

2nd born **h02**  YES **1**  NO **0**

84) **During or after a cold, do either of the twins seem to have difficulty hearing?**

<b>ahcold1/2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
1st born <b>h03</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>
2nd born <b>h04</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>

85) **During a cold, do either of the twins get a heavy yellow/green (catarrhal) discharge from their nose?** (PLEASE TICK ONE)

<b>ahcatar1/2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
1st born <b>h05</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>
2nd born <b>h06</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>

86) **Do either of the twins pull, poke, or scratch their ears?**

<b>ahscrat1/2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
1st born <b>h07</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>
2nd born <b>h08</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>

87) **Do either of the twins' ears go red and look sore for a long time? (Please note: an ear that has just been slept on may look red for a short time, and does not apply in this question)** (PLEASE TICK ONE)

<b>ahsore1/2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
1st born <b>h09</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>
2nd born <b>h10</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>

88) **Has pus or a sticky mucus (not ear wax) ever leaked out of either of the twins' ears?** (PLEASE TICK ONE)

<b>ahpus1/2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
1st born <b>h11</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>
2nd born <b>h12</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>

89) **Do either of the twins breathe through their mouth, rather than through their nose?** (PLEASE TICK ONE)

<b>ahmouth/2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
1st born <b>h13</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>
2nd born <b>h14</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>

90) **Do either of the twins snore or make snorting noises during their sleep?**

<b>ahsnore1/2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>
1st born <b>h15</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>
2nd born <b>h16</b>	Often <b>1</b>	Sometimes <b>2</b>	Occasionally <b>3</b>	Never <b>4</b>

## MEDICAL RECORDS CONSENT FORM

(Responses from this page were never used, and have not been retained in the raw data)

**PLEASE NOTE:** This consent form should be completed by the natural mother of the twins.

All information will be kept strictly confidential.

Please give your full name and address at the time of the birth of the twins, and also the Hospital address and Consultant's name (if known), then sign and date the bottom of the page.

**Your Name:** .....

**Your Date of Birth:** ...../...../..... (Day/Month/Year)

**Your Address at the time of the twins' birth:**  
(If different from current address)

**Your NHS number (if known)**

**Your National Insurance (NI) number (if known)**

**Hospital Name:**

**Hospital Location** (town/city etc):

**Full Hospital Address** (if known):

**Consultant:** (if known)

**Would you let us request your hospital records regarding pregnancy and childbirth?**

- YES, I give my consent for my medical records regarding pregnancy and child birth to be made available to the TEDS Project Co-ordinator. PLEASE SIGN AND DATE THE BOTTOM OF THIS PAGE.
- NO, PLEASE SIGN AND DATE THE BOTTOM OF THIS PAGE.

**Please note** – you can still be part of TEDS whether you give **this** consent or not

**Signature** .....

**Today's Date** ...../...../..... (Day/Month/Year)

(If a date was originally recorded here, it has been used to estimate the booklet date shown on page 1.)

## Appendix: coding from raw text data

The booklet contains many questions in which text responses were elicited. These generally fall into three groups:

1. Respondent and partner job titles (pages 9 and 10) have been coded into occupation codes, for all booklets in all cohorts.
2. Data collected for admin reasons were used at the time of data collection for updating the TEDS admin system and have not been used at all in the dataset. This includes names and contact details (consent form, page 1, page 16) and sibling details (pages 4 to 5).
3. Text questions within the body of the questionnaire, typically of the "if yes, please describe" type.

For the latter type, the approach to data entry of verbatim text varied:

- In some cases, the text responses were not entered at all, for any cohorts. For example, questions within the zygosity questionnaire (pages 6 to 7).
- In some cases, text responses were entered for those booklets sent to NOP for data entry (the 1996 cohort and part of the 1995 cohort), but not for those booklets entered within TEDS (the 1994 cohort and the remainder of the 1995 cohort). For example, questions in the pregnancy and birth section (pages 11 to 14). Where entered, these original text responses have now been coded into numeric category variables.

In the latter case, for data entry that was done in TEDS, although the text were not entered, a code of "1" was used to indicate where text had actually been recorded on the page by the parent. In the dataset, for all questions, this has been recoded into coded value 0, meaning that text were present but not entered and not available for coding.

In questions describing twins, there was only one text question and there was insufficient information to code twin-specific responses. In rare cases where more than one response was described in the text, an attempt was made to code the most relevant response, or the more "serious" medical condition mentioned.

In the cleaned raw data, the numeric coded variables but not the raw text responses have been retained. For each text question, annotations in the document above, in this blue font, indicate whether the text were entered and coded. Details of the coding follow below.

Your twins: identical or non-identical: page 6.

Question: reason for health professional's opinion of zygosity

Raw data variable: in02code

Dataset variable: azyprofc

Code value	Category	Examples
0	Text present but not entered	-
1	Single placenta	One placenta, one sac, monochorionic, blood transfusion syndrome
2	Two placentas	Two or fused placentas, two amniotic sacs, dichorionic
3	Blood or DNA test	Blood group test, DNA test
4	Unspecific check of placenta	Tests or examination of placenta without specifying details
5	IVF	IVF, known number of eggs or embryos
6	Physical characteristics	View based on similarity or difference in appearance or physical features
7	Unspecific response	Vague responses, "from scan", "told by medic", unspecified tests

Question: reason for respondent's opinion of zygosity

Raw data variable: in04code

Dataset variable: azyyouc

Code value	Category	Examples
0	Text present but not entered	-
1	Physical similarity	Similarities of appearance or physical features, cannot tell them apart
2	Physical difference	Differences in appearance or physical features, can easily tell them apart
3	Same as above (azyprofcc)	Restatement of reason given by health professional

Mother's Pregnancy and Birth: pages 11 to 14.

Question: type of fertility treatment

Raw data variable: MP02code

Dataset variable: afertc

Code value	Category	Examples
0	Text present but not entered	-
1	(In vitro fertilization) IVF	IVF, ICSI, GIFT
2	Intrauterine insemination (IUI)	IUI, artificial insemination
3	Drug or hormone treatment	Clomid/clomiphene, metrodin, hormone injections, pergonal

Question: type of medicine taken while pregnant

Raw data variable: MP07code

Dataset variable: amedsc

Code value	Category	Examples
0	Text present but not entered	-
1	Folic acid and/or iron	Folic acid, iron tablets
2	Other medicines	Medication for asthma, heartburn, pain; hormones

Question: type of special diet while pregnant

Raw data variable: MP14code

Dataset variable: adietc

Code value	Category	Examples
0	Text present but not entered	-
1	Meat-free diet	Vegetarian, vegan, pescatarian, meat-free
2	General healthy diets	Low-sugar, diabetic, low-fat, dairy-free

Question: cause of stress during pregnancy

Raw data variable: MP21code

Dataset variable: astressc

Code value	Category	Examples
0	Text present but not entered	-
1	Bereavement	Bereavement, serious family illness
2	Financial or job	Money problems, job loss, stresses at work or in studies
3	Home-related	Moved house, renovation, loss of home, burglary
4	Marital problems	Separation, divorce, partner absence, marital or close family problems
5	Maternal illness	Pregnancy complications, personal illness or accident, depression

Question: reason for bed rest during pregnancy

Raw data variable: MP23code

Dataset variable: arestc

Code value	Category	Examples
0	Text present but not entered	-
1	Bleeding	Bleeding, blood loss
2	Blood pressure	High or low blood pressure
3	Pre-eclampsia	Pre-eclampsia
4	Risk of miscarriage	Previous miscarriage, threat of miscarriage
5	Early labour	Premature labour, waters broke, contractions started
6	Maternal illness	Illness, sickness, infection, back pain, swelling, accident, heart problems
7	Concern about embryos	Various concerns about health or development of embryos, low placenta
8	General or unspecified rest	Unspecified bed rest, tiredness, too big to move

Question: type of drug given during labour

Raw data variable: MP38code

Dataset variable: abdrugc

Code value	Category	Examples
0	Text present but not entered	-
1	General anaesthetic	General anaesthetic
2	Spinal block	Spinal block, spinal anaesthetic
3	Epidural	Epidural
4	Opioid or other injection	Pethidine, meptid, syntocinon, diamorphine, steroids, hormones
5	Gas and air	Gas and air, entonox
6	Other or unspecified	Unknown or unnamed drug

Question: type of complication during birth

Raw data variable: MP40code

Dataset variable: abcompc

Code value	Category	Examples
0	Text present but not entered	-
1	Foetus position	Breech, transverse, position or presentation problems
2	Cord or placenta problems	Cord around neck, cord prolapse, placenta abruption or praevia
3	Twin medical issues	Heart or breathing problems, foetal distress
4	Maternal medical issues	Haemorrhage, high blood pressure, pre-eclampsia, infection
5	Forceps or ventouse delivery	Forceps, ventouse, suction used for delivery
6	Other or unspecified	Premature, small babies, not dilating, planned caesarean, contractions stopped

Question: reason for caesarian section

Raw data variable: MP42code

Dataset variable: acaesc

[Note codes 1-4 and 6 are as above for abcomp; responses often very similar]

Code value	Category	Examples
0	Text present but not entered	-
1	Foetus position	Breech, transverse, position or presentation problems
2	Cord or placenta problems	Cord around neck, cord prolapse, placenta abruption or praevia
3	Twin medical issues	Heart or breathing problems, foetal distress
4	Maternal medical issues	Haemorrhage, high blood pressure, pre-eclampsia, infection
5	Precautionary reasons	Previous caesarian, small pelvis, IVF, recommended for twins
6	Other or unspecified	Premature, small babies, not dilating, planned caesarean, contractions stopped

Question: concerns about twins at birth

Raw data variable: MP54code

Dataset variable: abprobc

Code value	Category	Examples
0	Text present but not entered	-
1	Breathing problem	Ventilated, given oxygen, RDS, grunting, blue baby
2	Jaundice or blood problem	Jaundice, blood sugar problems, needed blood transfusion
3	Heart or other internal organ	Heart murmur, hole in heart, brady cardia, lung problems
4	Premature, low birthweight	Low birthweight, needed incubation, premature birth
5	Breech, cord or limb problem	Breech birth, cord around neck, clicky hip, twisted limb, club foot
6	Inhaled or ingested fluids	Required suction, mucus, fluid in lung, meconium
7	Needed resuscitation	No vital signs, had to be revived or resuscitated
9	Other or unspecified	Low apgar score, general signs of distress, minor or unspecified concerns

Question: twins had special care when born

Raw data variable: MP57code

Dataset variable: aspcarc

Code value	Category	Examples
0	Text present but not entered	-
1	Premature, low birthweight	Born very small or low weight, premature birth
2	Jaundice or blood problem	Jaundice, phototherapy, blood sugar problems, needed blood transfusion
3	Care related to problems at birth	Heart or internal organ problems, hernia or other surgery (see other questions)
4	Feeding or breathing problem	Ventilated, given oxygen, tube-fed, drips
5	Unspecific special care	Incubated, under observation, unspecified care

Question: twins went back to hospital as outpatients

Raw data variable: MP64code

Dataset variable: aoutpc

Code value	Category	Examples
0	Text present but not entered	-
1	Chest or breathing problem	Asthma, coughs, wheezy, general chest or breathing problems
2	Infection	Pneumonia, meningitis, bronchiolitis, gastroenteritis, viral infection
3	Routine follow-up	Developmental checks, blood tests, checks on problems at birth
4	Hernia, physical defect	Congenital problems, hernia, birthmark correction, genitourinary problem
5	Ear or hearing problems	Grommets, glue ear, hearing test, ear infection
6	Eye or sight problems	Squint, lazy eye, eyesight test or correction
7	Limb problem	Clicky hip, club foot, limb damaged at birth
8	Heart problem	Hole in heart, heart murmur, checks after heart surgery

Question: twins went back to hospital for overnight admission

Raw data variable: MP67code

Dataset variable: aoverc

Code value	Category	Examples
0	Text present but not entered	-
1	Respiratory problem	Asthma attack, breathing/chest problem, croup
2	Infection	Pneumonia, meningitis, bronchiolitis, gastroenteritis, whooping cough
3	Convulsions	Fits, convulsions, epilepsy
4	Surgery	Hernia repair, heart surgery, correction of various congenital problems
5	Accident or injury	Broken bones, falls, cuts, scalds and burns
6	Other or unspecified	Miscellaneous problems, feeding, rash, fever, general distress

Question: twin medical problems within two weeks of birth

Raw data variable: MP69code

Dataset variable: amprobc

Code value	Category	Examples
0	Text present but not entered	-
1	Heart problem	Hole in heart, heart murmur, brady cardia, other heart defects
2	Respiratory problem	Breathing or lung problems, needed oxygen or ventilation
3	Feeding problem	Tube feeding, loss of weight, vomiting, digestive problems
4	Jaundice	Jaundice
5	Infection	Pneumonia, bronchiolitis, thrush, gastroenteritis, septicemia
6	Physical abnormality or surgery	Hernia, internal organ surgery, correction of various abnormalities
7	Prematurity, special care	Premature birth, special care without indication of cause
8	Blood-related	Abnormal blood sugar, needed transfusion, anaemia
9	Other or unspecified	Miscellaneous problems, eczema, sticky eyes, fits

Question: twin physical problems

Raw data variable: MP71code

Dataset variable: aphysc

Code value	Category	Examples
0	Text present but not entered	-
1	Heart problem	Heart murmur, hole in heart, VSD, PDA
2	Limb or skeletal problem	Talipes/club foot, clicky hip, spinal problems, hand or limb defects
3	Internal organ	Hernia, bowel or kidney problem
4	Head, face, eye or ear problem	Cleft lip, birthmark on face, skin tags, tongue tied, microcephally, squint
5	Genitourinary problem	Undescended testes, hypospadias
6	Other	Cerebral palsy, miscellaneous problems (not always physical)

Question: twin vision problems

Raw data variable: MP75code

Dataset variable: avisproc

Code value	Category	Examples
0	Text present but not entered	-
1	Squint	Squint, cross-eyed, lazy or turning eye
2	Eyesight problem	Long or short sight, astigmatism
3	Physical eye defect	Duane syndrome, nystagmus, other or unspecified eye problems