16 Year Behaviour/LEAP Study Parent Booklet Coding (Wave 1 and Wave 2)

The layout and formatting of the original booklet have been changed, in order to accommodate variable names and value codes. As a result, the number of items on some pages has changed, hence page numbering has been removed. The wording of the questions themselves is unchanged.

All responses in this booklet were recorded by means of tick boxes, and in all cases these have been numerically coded. This document shows the numeric response value codes and the variable names for every item in the booklet, both in the analysis dataset and in the database of raw data.

Variables in the analysis dataset

Variable names and response value codes used in the analysis dataset are shown in RED.

Nearly all items in this booklet are twin-specific. In the dataset, these items have been double entered, with one row of data per twin, and with the twin and co-twin data in each row. Twin-specific variables with names ending in '1' refer to the twin identified in a given row of data (regardless of whether this is the elder or younger twin); variables with names ending in '2' refer to the co-twin. Hence in this document, all twin-specific variables are given names ending in '1/2' to show that they could refer to either elder or younger twin, as twin or co-twin, in a given row of data.

Variables in the cleaned raw data

The cleaned and aggregated raw data are stored in an Access database.

Variable names are shown in RED, because these are the same as those used in the dataset. In the raw data, variables with names ending in '1' are always used to denote the elder twin, while variables with names ending in '2' are used to denote the younger twin. Note that this naming convention differs from that used in the analysis dataset (as described above), where the variables have been double entered.

Where response value codes differ in the raw data from those used in the dataset, the raw data codes are shown in BLUE (usually in table headings), while the dataset codes are shown in RED (in the body of the table).

For some measures, the response value codes in the raw data are identical to those used in the dataset. In these cases, the coding is shown in RED only. Notes in BLUE are used to explain whether or not the response value coding has changed from the raw data to the dataset.

In the cleaned raw data, values -99 and -77 are used to denote 'missing' and 'not applicable' respectively in the cleaned raw data, while these are replaced by missing values in the analysis dataset.

Changes from wave 1 to wave 2

The measures and questions in the booklet are identical to those in wave 1, except for the addition of the six "asthma" questions on page 19 of this document. Apart from the new asthma variables, the variable names and value coding (shown in red) are the same in wave 2 as in wave 1.

PARENT QUESTIONNAIRE

Thank you for taking time to complete this questionnaire. Please answer all questions as best you can even if you are unsure what to put, as every question is important for our research.

Please indicate your answers with a cross   ☒

If you make a mistake, shade out and cross the appropriate box, e.g. ☒☐   → ■ ☒

Please remember to complete this questionnaire using BLACK ink only

Thank you for taking part in this study. Your contribution is very important to us.

Confidentiality

Please be assured that all responses will remain confidential, and will only be read by the researcher. All responses will be kept in accordance with the Data Protection Act 1998.

Thinking about your children's behaviour <u>over the last six months</u>, please read each statement and decide how well it describes your children
(responses below recoded from 1/2/3/4 in raw data to 0/1/2/3 in dataset)

My child...	Not at all true	Somewhat true	Mainly true	Definitely true
	1	**2**	**3**	**4**
1. Is always "on the go" or acts as if driven by a motor ppbhconn011/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
2. Avoids, expresses reluctance about, or has difficulties engaging in tasks that require sustained mental effort (such as work or schoolwork) ppbhconn021/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
3. Has difficulties sustaining attention in tasks or activities ppbhconn031/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
4. Does not seem to listen to what is being said to him/her ppbhconn041/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
5. Runs about excessively in situations where it is inappropriate to do so ppbhconn051/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
6. Does not follow through on instructions and fails to finish work, schoolwork or chores ppbhconn061/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
7. Has difficulty organising tasks and activities ppbhconn071/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
8. Talks excessively ppbhconn081/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
9. Fails to give close attention to details or makes careless mistakes in work, schoolwork or other activities ppbhconn091/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
10. Has difficulty queuing or awaiting turn in games or group situations ppbhconn101/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

11. Interrupts conversations ppbhconn111/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
12. Is forgetful in daily activities ppbhconn121/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
13. Fidgets with hands or feet, squirms in seat ppbhconn131/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
14. Has difficulty playing or engaging in leisure activities quietly ppbhconn141/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
15. Often loses things necessary for tasks or activities (e.g. work or schoolwork) ppbhconn151/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
16. Regularly leaves seat in classroom, or in other situations in which remaining in seat is expected ppbhconn161/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
17. Is easily distracted by things going on around them ppbhconn171/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
18. Blurts out answers to questions before the questions have been completed ppbhconn181/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
19. Changes mood quickly and drastically ppbhconn191/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
20. Cries often and easily ppbhconn201/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
21. Has temper outbursts - behaviour can be explosive or unpredictable ppbhconn211/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

Below is a list of statements about your children. Please rate how strongly you agree or disagree.

My child…	Not at all true	Somewhat true	Mainly true	Definitely true
	1	2	3	4
1. Often fails to smile or laugh at things others would find funny ppbhsans011/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
2. Seems emotionally "flat", for example, rarely changes the emotions he/she shows ppbhsans021/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
3. Usually gives brief, one word replies to questions, even if encouraged to say more ppbhsans031/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
4. Often does not have much to say for himself/herself ppbhsans041/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
5. Often sits around for a long time doing nothing ppbhsans051/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
6. Has a lack of energy and motivation ppbhsans061/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
7. Has very few interests or hobbies ppbhsans071/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
8. Has few or no friends ppbhsans081/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
9. Often does not pay attention when being spoken to ppbhsans091/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
10. Is often inattentive and appears distracted ppbhsans101/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

Please respond to the questions below.

Have you or any of your close relatives (a sibling or a parent), ever had schizophrenia? ppbhrelscha	Yes ☐ 1 **1**	No ☐ 0 **2**	Don't know ☐ **3**

If yes, please state their relationship to your children:
All coded 1=ticked, 0=not ticked, in raw data and in dataset.

ppbhrelschb Sibling ☐
Step-sibling ☐
Half-sibling ☐
ppbhrelsche Parent ☐
Step-Parent ☐
ppbhrelschg Grandparent ☐
ppbhrelschh Aunt/Uncle ☐
ppbhrelschi Cousin ☐
ppbhrelschj Other ☐

Have you or any of your close relatives (a sibling or a parent), ever had bipolar disorder? ppbhrelbipa	Yes ☐ 1 **1**	No ☐ 0 **2**	Don't know ☐ **3**

If yes, please state their relationship to your children:
All coded 1=ticked, 0=not ticked, in raw data and in dataset.

ppbhrelbipb Sibling ☐
Step-sibling ☐
Half-sibling ☐
ppbhrelbipe Parent ☐
Step-Parent ☐
ppbhrelbipg Grandparent ☐
ppbhrelbiph Aunt/Uncle ☐
ppbhrelbipi Cousin ☐
ppbhrelbipj Other ☐

(responses recoded from 1/2/3/4 in raw data to 0/1/2/3 in dataset)	Not at all **1**	A little **2**	Moderately **3**	To a great extent **4**
1. Do you feel that others might try to harm your child? ppbhpapa11/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
2. Do you think it is a dangerous world for your child to grow up in? ppbhpapa21/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
3. Have you ever worried that your child will be abducted? ppbhpapa31/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

At what age did you allow your child to play out alone without an adult? ppbhpapa41/2 (response coding in the raw data is the same as in the dataset)

Elder twin

At the age of: <5 ☐ 1 5-6 ☐ 2 7-8 ☐ 3 9-10 ☐ 4 11-12 ☐ 5 13-14 ☐ 6 15+ ☐ 7

Younger twin

At the age of: <5 ☐ 1 5-6 ☐ 2 7-8 ☐ 3 9-10 ☐ 4 11-12 ☐ 5 13-14 ☐ 6 15+ ☐ 7

The following questions are about how your child may have been feeling or acting recently. Please rate how true you believe each statement to be with reference to your child's behaviour <u>over the past two weeks.</u>

(responses recoded from 1/2/3 in raw data to 0/1/2 in dataset)

Over the past two weeks, my child…	Not true	Quite true	Very true
	1	2	3
1. Didn't enjoy anything at all ppbhmfq011/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
2. Felt unreasonably tired, so that he/she just sat around and did nothing ppbhmfq021/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
3. Felt he/she was no good anymore ppbhmfq031/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
4. Cried a lot ppbhmfq041/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
5. Found it hard to think properly or concentrate ppbhmfq051/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
6. Hated him/herself ppbhmfq061/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
7. Felt he/she was a bad person ppbhmfq071/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
8. Felt lonely ppbhmfq081/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
9. Thought nobody really loved him/ her ppbhmfq091/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
10. Thought he/she could never be as good as other kids ppbhmfq101/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
11. Felt he/she did everything wrong ppbhmfq111/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

Thinking about your child's behaviour <u>over the last six months</u>, please rate the extent to which the following statements describe your child.

(responses recoded from 1/2/3 in raw data to 0/1/2 in dataset)

My child…	Not true	Quite true	Very true
	1	**2**	**3**
1. Is afraid of small enclosed spaces, heights, water, **or** the dark ppbhanx011/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
2. Takes a long time to warm to strangers ppbhanx021/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
3. Is afraid in social situations ppbhanx031/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
4. Tends to check things are done exactly right ppbhanx041/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
5. Asks for reassurance that he/she is OK ppbhanx051/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
6. Insists on doing something over and over, to the extent that it interferes with day to day life ppbhanx061/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
7. Tends to be shy and timid ppbhanx071/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
8. Is afraid of medical procedures such as going to see the doctor/dentist ppbhanx081/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
9. Has twitches, mannerisms, or tics of the face and body ppbhanx091/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
10. Doesn't tend to enjoy him/herself ppbhanx101/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
11. Often makes comments critical of him/herself ppbhanx111/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
12. Complains or whines a lot ppbhanx121/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
13. Has low self confidence ppbhanx131/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

My child…	Not true	Quite true	Very true
	1	2	3
14. Is fussy or over-particular ppbhanx141/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
15. Tends to blame him/herself ppbhanx151/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
16. Is often extremely upset or distressed when parent leaves wound up or stressed ppbhanx161/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
17. Often seems worked up, on edge or tense ppbhanx171/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
18. Is afraid of animals or insects (like dogs, spiders, or snakes) ppbhanx181/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
19. Is anxious that bad things will happen ppbhanx191/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

These questions concern your child's skills and talents.

ELDER TWIN

Does he/she display a striking skill, compared to his/her general ability in other areas? **ppbhsktt1a1/2**	Yes ☐ **1** No ☐ **0** **1** **2**

IF YES, please tick ALL that apply:
All coded 1=ticked, 0=not ticked.

ppbhsktt1b1/2 Maths ☐   **ppbhsktt1c1/2** Music ☐

ppbhsktt1d1/2 Art ☐   **ppbhsktt1e1/2** Memory ☐

Other:

ppbhsktt1f1/2 Science ☐   **ppbhsktt1g1/2** Sport ☐

ppbhsktt1h1/2 Dance/Drama ☐   **ppbhsktt1i1/2** Social skills ☐

ppbhsktt1j1/2 Writing ☐   **ppbhsktt1k1/2** Technology/Computing ☐

ppbhsktt1l1/2 Mechanical ☐

YOUNGER TWIN **– variable names and coding as above for elder twin**

Does he/she display a striking skill, compared to his/her general ability in other areas?	Yes ☐ No ☐

IF YES, please tick ALL that apply: Maths ☐   Music ☐   Art ☐   Memory ☐

Other: Science ☐   Sport ☐   Dance/Drama ☐   Social skills ☐   Writing ☐

Technology/Computing ☐   Mechanical ☐

ELDER TWIN

Does he/she display a special ability, superior even to most adults? **ppbhsktt2a1/2**	Yes ☐ **1** No ☐ **0**

IF YES, please tick ALL that apply:
cleaned raw data coding: 1=ticked, 0=not ticked
dataset coding: 1=ticked, 0=not ticked

ppbhsktt2b1/2 Maths ☐   **ppbhsktt2c1/2** Music ☐

ppbhsktt2d1/2 Art ☐   **ppbhsktt2e1/2** Memory ☐

Other:

ppbhsktt2f1/2 Science ☐   **ppbhsktt2g1/2** Sport ☐

ppbhsktt2h1/2 Dance/Drama ☐   **ppbhsktt2i1/2** Social skills ☐

ppbhsktt2j1/2 Writing ☐   **ppbhsktt2k1/2** Technology/Computing ☐

ppbhsktt2l1/2 Mechanical ☐

YOUNGER TWIN **– variable names and coding as above for elder twin**

Does he/she display a special ability, superior even to most adults?	Yes ☐ No ☐

IF YES, please tick ALL that apply: Maths ☐   Music ☐   Art ☐   Memory ☐

Other: Science ☐   Sport ☐   Dance/Drama ☐   Social skills ☐   Writing ☐

Technology/Computing ☐   Mechanical ☐

How well do the following statements describe your child? Please answer based on <u>the last six months.</u>

(responses recoded from 1/2/3/4 in raw data to 0/1/2/3 in dataset)

My child…	Not at all true	Somewhat true	Mainly true	Definitely true
	1	**2**	**3**	**4**
1. Expresses his/her feelings openly ppbhicut011/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
2. Does not seem to know "right" from "wrong" ppbhicut021/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
3. Cares about their work or schoolwork ppbhicut031/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
4. Does not care who he/she hurts to get what he/she wants ppbhicut041/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
5. Feels bad or guilty when he/she has done something wrong ppbhicut051/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
6. Does not show emotions ppbhicut061/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
7. Does not care about being on time ppbhicut071/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
8. Is concerned about the feelings of others ppbhicut081/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
9. Cares if he/she is in trouble ppbhicut091/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
10. Does not let feelings control him/her ppbhicut101/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
11. Does not care about doing things well ppbhicut111/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
12. Seems very cold and uncaring ppbhicut121/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

My child…	Not at all true	Somewhat true	Mainly true	Definitely true
	1	**2**	**3**	**4**
13. Easily admits to being wrong ppbhicut131/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
14. It is easy to tell how he/she is feeling ppbhicut141/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
15. Always tries his/her best ppbhicut151/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
16. Apologises to people he/she has hurt ppbhicut161/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
17. Tries not to hurt others' feelings ppbhicut171/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
18. Shows no remorse when he/she has done something wrong ppbhicut181/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
19. Is very expressive and emotional ppbhicut191/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
20. Does not like to put the time into doing things well ppbhicut201/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
21. The feelings of others are unimportant to him/her ppbhicut211/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
22. Hides his/her feelings from others ppbhicut221/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
23. Works hard on everything ppbhicut231/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
24. Does things to make others feel good ppbhicut241/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

Below is a list of statements about your child. For each one, please rate how strongly you agree or disagree. Please answer based on the last six months.

My child…	Strongly disagree	Slightly disagree	Slightly agree	Strongly agree
	1	2	3	4
1. Prefers to do things with others rather than on his/her own ppbhaq011/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
2. Finds social situations easy ppbhaq021/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
3. Would rather go to a library than to a party ppbhaq031/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
4. Finds himself/herself drawn more strongly to people than to things ppbhaq041/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
5. Finds it hard to make new friends ppbhaq051/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
6. Enjoys social occasions ppbhaq061/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
7. Enjoys meeting new people ppbhaq071/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
8. Gets anxious in new situations ppbhaq081/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
9. Prefers to do things the same way over and over again ppbhaq091/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
10. Does not get upset if his/her daily routine is disturbed ppbhaq101/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
11. Enjoys doing things spontaneously ppbhaq111/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
12. Frequently gets strongly absorbed in one thing ppbhaq121/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

My child…	Strongly disagree	Slightly disagree	Slightly agree	Strongly agree
	1	**2**	**3**	**4**
13. Can easily keep track of several different people's conversations ppbhaq131/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
14. Finds it easy to do more than one thing at once ppbhaq141/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
15. If there is an interruption, my child can switch back very quickly ppbhaq151/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
16. If trying to imagine something, finds it easy to create a picture in his/her mind ppbhaq161/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
17. When reading a book, can easily imagine what the characters might look like ppbhaq171/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
18. Finds making up stories easy ppbhaq181/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
19. When reading a book, finds it difficult to work out the character's intentions ppbhaq191/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
20. Finds it difficult to imagine what it would be like to be someone else ppbhaq201/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
21. When he/she was younger, he/she found it easy to play games with children that involve pretending ppbhaq211/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
22. Finds it easy to work out what someone is thinking or feeling ppbhaq221/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
23. Finds it difficult to work out people's intentions ppbhaq231/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
24. Usually notices car number plates or similar strings of information ppbhaq241/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

My child…	Strongly disagree	Slightly disagree	Slightly agree	Strongly agree
	1	2	3	4
25. Is fascinated by dates ppbhaq251/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
26. Is fascinated by numbers ppbhaq261/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
27. Notices patterns in things all the time ppbhaq271/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
28. Likes to collect information about categories of things ppbhaq281/2				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

Below is a list of statements about your child. Please give your answers on the basis of your child's behaviour <u>over the last six months.</u>
(responses recoded from 1/2/3 in raw data to 0/1/2 in dataset)
In the raw data, variables are named ppbhsdq01 through to ppbhsdq17, as numbered in the table below.
Dataset variable naming uses subscale suffixes (pro, hyp, emo, con, per) and numbering consistent with that used in other datasets, even where this may not match the order of presentation below.

My child…	Not true	Quite true	Very true
	1	2	3
1. Is restless, overactive, and cannot stay still for long ppbhsdqhyp11/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
2. Has a hot temper ppbhsdqcon11/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
3. Generally follows instructions, and usually does what adults request ppbhsdqcon21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
4. Is constantly fidgeting ppbhsdqhyp21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
5. Often fights with his/her friends and/or bullies them ppbhsdqcon31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
6. Is easily distracted, concentration wanders ppbhsdqhyp31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

My child…	Not true	Quite true	Very true
	1	**2**	**3**
7. Often lies or cheats ppbhsdqcon41/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
8. Thinks things out before acting ppbhsdqhyp41/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
9. Steals from home, school, work or elsewhere ppbhsdqcon51/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
10. Sees tasks through to the end, has good attention span ppbhsdqhyp51/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
11. Is considerate of other people's feelings ppbhsdqpro11/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
12. Shares readily with others ppbhsdqpro21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
13. Helpful if someone is hurt, upset, or feeling ill ppbhsdqpro31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
14. Has at least one good friend ppbhsdqper21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
15. Is generally liked by others ppbhsdqper31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
16. Is kind to people younger than them ppbhsdqpro41/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
17. Often volunteers to help others (parents, teachers, peers, colleagues) ppbhsdqpro51/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

The next questions are about asthma.

ELDER TWIN
1. Has the doctor **ever** said that he/she has asthma?   ppbhasthma1/2
(responses recoded from 1/2/3 in raw data to 2/1/0 in dataset)
  Yes and still has asthma ☐ 2   Yes but no symptoms in last 12 months ☐ 1   No ☐ 0
  1   2   3

2. (a) Has he/she taken medication (e.g. inhalers) for asthma in the last 12 months?   ppbhasthmed1/2
(responses recoded from 1/2 in raw data to 1/0 in dataset)
  Yes ☐ 1   No ☐ 0
  1   2

(b) If yes, how often?   ppbhasthmedf1/2
(response coding in the raw data is the same as in the dataset)
    Daily ☐ 1   A few times a week ☐ 2   A few times a month ☐ 3   Less often ☐ 4

YOUNGER TWIN – variable names and coding as above for elder twin
1. Has the doctor **ever** said that he/she has asthma?
Yes and still has asthma ☐   Yes but no symptoms in last 12 months ☐   No ☐

2. (a) Has he/she taken medication (e.g. inhalers) for asthma in the last 12 months?
Yes ☐   No ☐

(b) If yes, how often?
Daily ☐   A few times a week ☐   A few times a month ☐   Less often ☐

Here is a list of events that might have happened to your child recently. Please put a tick in either the 'No' or 'Yes' box if the event has happened to them <u>in the past year.</u> Please answer to the best of your believed knowledge.

If you answered 'yes' then please indicate what it was like, choosing one of the options given, ranging from 'very unpleasant' to 'very pleasant'.

In the past year, my child has experienced…

(Coding in the raw data is as shown, with separate variables for the 'yes/no' initial response and the 'pleasant/unpleasant' response. In the raw data, the 'yes/no' variable name has suffix 'a' while the 'pleasant/unpleasant' variable has suffix 'b'; the raw variables are numbered 1 to 20 as listed in the table below.))

For the dataset, for each item, the 'yes/no' and 'pleasant/unpleasant' raw variables have been combined together to create ordinal variables.
For life events that elicited negative (unpleasant) ratings, the variable name has suffix "n" and the coding is:

- 0=no, did not happen
- 1=event happened but with no effect (or positive effect)
- 2=event happened, moderately unpleasant
- 3=event happened, very unpleasant

For life events that elicited positive (pleasant) ratings, the variable name has suffix "p" and the coding is:

- 0=no, did not happen
- 1= event happened but with no effect (or negative effect)
- 2=event happened, moderately pleasant
- 3=event happened, very pleasant

For most items, only one variable (positive or negative) has been coded because responses in the other direction were negligible.
For some items, there were significant numbers of both positive and negative responses, so both types of variable have been included in the dataset. In these cases, to avoid double-counting of responses, 'pleasant' responses are not counted for the 'negative' variables and 'unpleasant' responses are not counted for the 'positive' variables.

	Negative or positive rating?		Yes	No	Very unpleasant	Moderately unpleasant	Neither unpleasant or pleasant	Moderately pleasant	Very pleasant
			1	**2**	**1**	**2**	**3**	**4**	**5**
1. Loss of a job by their father or mother Elder twin Younger twin	NEGATIVE	ppbh1lfev01n1/2			0	3	2	1	1	1
2. Marital separation of their parents Elder twin Younger twin	NEGATIVE	ppbh1lfev02n1/2			0	3	2	1	1	1
3. Becoming involved with drugs Elder twin Younger twin	NEGATIVE	ppbh1lfev03n1/2			0	3	2	1	1	1
4. The death of a close friend or relative Elder twin Younger twin	NEGATIVE	ppbh1lfev04n1/2			0	3	2	1	1	1

Item	Negative or positive rating?	Variable	Yes 1	No 2	Very unpleasant 1	Moderately unpleasant 2	Neither unpleasant or pleasant 3	Moderately pleasant 4	Very pleasant 5
5. Being hospitalized for illness or injury Elder twin Younger twin	NEGATIVE	ppbh1fev05n1/2		0	3	2	1	1	1
6. Being sent away from home Elder twin Younger twin	BOTH	ppbh1fev06n1/2 ppbh1fev06p1/2		0 0	3	2	1 1	2	3
7. Breaking up with a boyfriend/girlfriend Elder twin Younger twin	NEGATIVE	ppbh1fev07n1/2		0	3	2	1	1	1
8. The hospitalization of their brother or sister Elder twin Younger twin	NEGATIVE	ppbh1fev08n1/2		0	3	2	1	1	1
9. Suspension from school/college Elder twin Younger twin	NEGATIVE	ppbh1fev09n1/2		0	3	2	1	1	1
10. Failing an important exam Elder twin Younger twin	NEGATIVE	ppbh1fev10n1/2		0	3	2	1	1	1
11. The remarriage of a parent to a stepparent Elder twin Younger twin	BOTH	ppbh1fev11n1/2 ppbh1fev11p1/2		0 0	3	2	1 1	2	3
12. Hospitalization of a parent Elder twin Younger twin	NEGATIVE	ppbh1fev12n1/2		0	3	2	1	1	1
13. Being responsible for a road accident Elder twin Younger twin	*								
14. A major decrease in parental income Elder twin Younger twin	NEGATIVE	ppbh1fev14n1/2		0	3	2	1	1	1
15. Getting pregnant or fathering a pregnancy Elder twin Younger twin	*								
16. Outstanding personal achievement Elder twin Younger twin	BOTH	ppbh1fev16n1/2 ppbh1fev16p1/2		0 0	3	2	1 1	2	3

	Negative or positive rating?		Yes	No	Very unpleasant	Moderately unpleasant	Neither unpleasant or pleasant	Moderately pleasant	Very pleasant
			1	**2**	**1**	**2**	**3**	**4**	**5**
17. Decrease in number of arguments between parents Elder twin Younger twin	BOTH	ppbh1fev17n1/2 ppbh1fev17p1/2		0 0	3	2	1 1	2	3
18. Becoming a member of a church Elder twin Younger twin	POSITIVE	ppbh1fev18p1/2		0	1	1	1	2	3
19. Beginning to date Elder twin Younger twin	BOTH	ppbh1fev19n1/2 ppbh1fev19p1/2		0 0	3	2	1 1	2	3
20. Moving to a new school or college Elder twin Younger twin	BOTH	ppbh1fev20n1/2 ppbh1fev20p1/2		0 0	3	2	1 1	2	3

* Items 13 and 15 have been dropped from the dataset because in each of these items the number of affirmative ('yes') responses was negligible.

Thank you for answering our questions.
We really appreciate your help.