16 Year LEAP-2 Study
Parent Booklet: Coding in the dataset and cleaned raw data

The layout and formatting of the original booklet have been changed, in order to accommodate scan field positions and value codes. As a result, the number of items on some pages has changed. 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 (for tick boxes) and variable names for every item in the booklet, both in the analysis dataset and in the database of cleaned raw data.

Variables in the analysis dataset

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

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 nearly always 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 variable names or response value codes differ in the raw data from those used in the dataset, the raw data names/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.
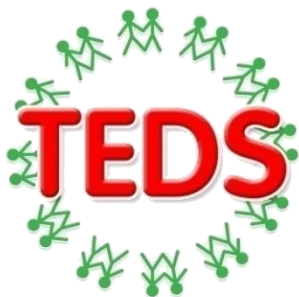
Changes from the Behaviour and LEAP parent booklets

The LEAP-2 parent booklet is essentially a reduced version of the parent booklets used in the Behaviour and LEAP studies. Four measures (Conners, Striking skills, ICUT, AQ) that were in both those studies have been removed; also, the asthma measure added for LEAP has been removed for LEAP-2.

Minor changes have also been made to the final measure (Life Events): some items, relating to parents or the home rather than to individual twins, have just one set of responses for the twin pair; in the Behaviour and LEAP versions, there were two sets of responses (one for each twin) for each of these items.

The remaining measures and questions in the LEAP-2 booklet are identical to those used in both the Behaviour and LEAP booklets - all items have the same value coding. Variable name prefixes have been changed from 'ppbh' (for Behaviour/Leap) to 'ppl2' (for Leap-2).

Parent Report

TEDS Behaviour Study

Part Two

Please answer all questions as best you can even if you are unsure what to put or the question seems repetitive. Some of these questions you will have seen before – this is because we are interested in looking at how people's behaviours change or stay the same over time.

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

We understand that your thoughts and feelings are private. 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.

THANK YOU VERY MUCH FOR YOUR HELP WITH OUR RESEARCH!

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 **ppl2sans011/2**				
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 **ppl2sans011/2**				
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 **ppl2sans011/2**				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
4. Often does not have much to say for himself/herself **ppl2sans011/2**				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
5. Often sits around for a long time doing nothing **ppl2sans011/2**				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
6. Has a lack of energy and motivation **ppl2sans011/2**				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
7. Has very few interests or hobbies **ppl2sans011/2**				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
8. Has few or no friends **ppl2sans011/2**				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
9. Often does not pay attention when being spoken to **ppl2sans011/2**				
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3
10. Is often inattentive and appears distracted **ppl2sans011/2**				
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 ever had schizophrenia? **ppl2relscha**	Yes ☐ **1**	No ☐ **0**	Don't know ☐
	1	2	3

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

Sibling ☐

Step-sibling ☐

Half-sibling ☐

Parent ☐

Step-parent ☐

ppl2relschg Grandparent ☐

ppl2relschh Aunt/Uncle ☐

ppl2relschi Cousin ☐

ppl2relschj Other ☐

Have you or any of your close relatives ever had bipolar disorder? **ppl2relbipa**	Yes ☐ **1**	No ☐ **0**	Don't know ☐
	1	2	3

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

Sibling ☐

Step-sibling ☐

Half-sibling ☐

ppl2relbipe Parent ☐

Step-parent ☐

ppl2relbipg Grandparent ☐

ppl2relbiph Aunt/Uncle ☐

ppl2relbipi Cousin ☐

ppl2relbipj Other ☐

	Not at all	A little	Moderately	To a great extent
	1	2	3	4

1. Do you feel that others might try to harm your child?
   ppl2papa11/2

	Not at all	A little	Moderately	To a great extent
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? **ppl2papa21/2**

	Not at all	A little	Moderately	To a great extent
Elder twin	☐ 0	☐ 1	☐ 2	☐ 3
Younger twin	☐ 0	☐ 1	☐ 2	☐ 3

3. Have you ever worried that your child will be abducted?
   ppl2papa31/2

	Not at all	A little	Moderately	To a great extent
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? **ppl2papa41/2**
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>

Over the past two weeks, my child…

	Not true	Quite true	Very true
	1	2	3

1. Didn't enjoy anything at all   **ppl2mfq011/2**

	Not true	Quite true	Very true
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

2. Felt unreasonably tired, so that he/she just sat around and did nothing   **ppl2mfq021/2**

	Not true	Quite true	Very true
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

3. Felt he/she was no good anymore   **ppl2mfq031/2**

	Not true	Quite true	Very true
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

4. Cried a lot   **ppl2mfq041/2**

	Not true	Quite true	Very true
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

5. Found it hard to think properly or concentrate   **ppl2mfq051/2**

	Not true	Quite true	Very true
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

6. Hated him/herself   **ppl2mfq061/2**

	Not true	Quite true	Very true
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

7. Felt he/she was a bad person   **ppl2mfq071/2**

	Not true	Quite true	Very true
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

	Not true	Quite true	Very true
	1	**2**	**3**
8. Felt lonely **ppl2mfq081/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
9. Thought nobody really loved him/ her **ppl2mfq091/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
10. Thought he/she could never be as good as other kids **ppl2mfq101/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
11. Felt he/she did everything wrong **ppl2mfq111/2**			
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 **ppl2anx011/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
2. Takes a long time to warm to strangers **ppl2anx021/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
3. Is afraid in social situations **ppl2anx031/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
4. Tends to check things are done exactly right **ppl2anx041/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
5. Asks for reassurance that he/she is OK **ppl2anx051/2**			
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 **ppl2anx061/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
7. Tends to be shy and timid **ppl2anx071/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
8. Is afraid of medical procedures such as going to see the doctor/dentist **ppl2anx081/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

My child…	Not true	Quite true	Very true
	1	**2**	**3**
9. Has twitches, mannerisms, or tics of the face and body **ppl2anx091/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
10. Doesn't tend to enjoy him/herself **ppl2anx101/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
11. Often makes comments critical of him/herself **ppl2anx111/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
12. Complains or whines a lot **ppl2anx121/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
13. Has low self confidence **ppl2anx131/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
14. Is fussy or over-particular **ppl2anx141/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
15. Tends to blame him/herself **ppl2anx151/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
16. Is often extremely upset or distressed when parent leaves wound up or stressed **ppl2anx161/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
17. Often seems worked up, on edge or tense **ppl2anx171/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
18. Is afraid of animals or insects (like dogs, spiders, or snakes) **ppl2anx181/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
19. Is anxious that bad things will happen **ppl2anx191/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

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 ppl2sdq01 through to ppl2sdq17, 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 **ppl2sdqhyp11/2**			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

My child…	Not true	Quite true	Very true
	1	2	3
2. Has a hot temper pp12sdqcon11/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
3. Generally follows instructions, and usually does what adults request pp12sdqcon21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
4. Is constantly fidgeting pp12sdqhyp21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
5. Often fights with his/her friends and/or bullies them pp12sdqcon31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
6. Is easily distracted, concentration wanders pp12sdqhyp31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
7. Often lies or cheats pp12sdqcon41/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
8. Thinks things out before acting pp12sdqhyp41/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
9. Steals from home, school, work or elsewhere pp12sdqcon51/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
10. Sees tasks through to the end, has good attention span pp12sdqhyp51/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
11. Is considerate of other people's feelings pp12sdqpro11/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
12. Shares readily with others pp12sdqpro21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
13. Helpful if someone is hurt, upset, or feeling ill pp12sdqpro31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
14. Has at least one good friend pp12sdqper21/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
15. Is generally liked by others pp12sdqper31/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2
16. Is kind to people younger than them pp12sdqpro41/2			
Elder twin	☐ 0	☐ 1	☐ 2
Younger twin	☐ 0	☐ 1	☐ 2

My child…		Not true	Quite true	Very true
		1	**2**	**3**
17. Often volunteers to help others (parents, teachers, peers, colleagues) `pp12sdqpro51/2`				
Elder twin		☐ 0	☐ 1	☐ 2
Younger twin		☐ 0	☐ 1	☐ 2

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 to say whether the event has happened to them <u>in the past six months.</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'.

Note that the formats of items 1, 2, 8, 11, 12, 14 and 17 have been changed from the LEAP/Behaviour booklet. In this (LEAP-2) version, for each of these items, only a single response has been elicited and this response is understood to apply to the pair of twins rather than to twins individually.

In the past six months, my child has experienced…

(Coding in the raw data is as shown in blue, 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	NEGATIVE	`pp12lfev01n`			0	3	2	1	1	1
2. Marital separation of their parents	NEGATIVE	`pp12lfev02n`			0	3	2	1	1	1
3. Becoming involved with drugs Elder twin Younger twin	NEGATIVE	`pp12lfev03n1/2`			0	3	2	1	1	1

	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**
4. The death of a close friend or relative Elder twin Younger twin	NEGATIVE	ppl2lfev04n1/2		0	3	2	1	1	1
5. Being hospitalized for illness or injury Elder twin Younger twin	NEGATIVE	ppl2lfev05n1/2		0	3	2	1	1	1
6. Being sent away from home Elder twin Younger twin	*								
7. Breaking up with a boyfriend/girlfriend Elder twin Younger twin	NEGATIVE	ppl2lfev07n1/2		0	3	2	1	1	1
8. The hospitalization of their brother or sister	NEGATIVE	ppl2lfev08n		0	3	2	1	1	1
9. Suspension from school/college Elder twin Younger twin	*								
10. Failing an important exam Elder twin Younger twin	NEGATIVE	ppl2lfev10n1/2		0	3	2	1	1	1
11. The remarriage of a parent to a stepparent	*								
12. Hospitalization of a parent	NEGATIVE	ppl2lfev12n		0	3	2	1	1	1
13. Being responsible for a road accident Elder twin Younger twin	*								
14. A major decrease in parental income	NEGATIVE	ppl2lfev14n		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	ppl2lfev16n1/2 ppl2lfev16p1/2		0 0	3	2	1 1	2	3
17. Decrease in number of arguments between parents	BOTH	ppl2lfev17n ppl2lfev17p		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**
18. Becoming a member of a church Elder twin Younger twin	*								
19. Beginning to date Elder twin Younger twin	BOTH	ppl2lfev19n1/2 ppl2lfev19p1/2		0 0	3	2	1 1	2	3
20. Moving to a new school or college Elder twin Younger twin	BOTH	ppl2lfev20n1/2 ppl2lfev20p1/2		0 0	3	2	1 1	2	3

* Items 6, 9, 11, 13, 15 and 18 have been dropped from the dataset because in each of these items the number of affirmative ('yes') responses was negligible.