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British Cohort Study 1970

Derived Variables at 1980 Sweep (10 year follow-up)

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BCS70 Derived Variables at 1980 Sweep

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Contents

Introduction.....	1
Country of interview derived variable.....	1
Region derived variables.....	1
Derived key variables	1
Mother malaise score derived variables.....	2
Rutter score derived variables.....	2
APPENDIX 1: Definition of derived key variables	3
APPENDIX 2: Definition of mother malaise score derived variables.....	4
APPENDIX 3: Definition of Rutter score derived variables	6

Introduction

This User Guide describes the dataset of derived variables for the 1980 sweep of the 1970 British Cohort Study (BCS70). This dataset is deposited under study number 3723 (1970 British Cohort Study: Ten-Year Follow-up, 1980) at the UK Data Archive. This is an initial dataset of sweep derived variables.

The derived variables included in the BCS70 1980 sweep derived variables dataset are as follows:

Variable	Variable label	Type of variable
bd3cntry	Country of Interview	Country of interview
bd3reg	Standard Region of residence	Region
bd3psoc	Social class from fathers occup (or mothers if missing)	Key variable
bd3ben	Received state benefit last 12 months?	Key variable
bd3inc	Gross weekly family income	Key variable
bd3age	Age of CM when sat assessments	Key variable
bd3rread	Edinburgh Reading Test score	Key variable
bd3read	Standardised Edinburgh Reading Test score	Key variable
bd3rdage	Estimated reading age at age 10	Key variable
bd3maths	Friendly Maths Test score	Key variable
bd3min	CM's parent gave information on at least 1 Malaise question	Mother malaise
bd3mmal	(CM's parent) total Malaise score	Mother malaise
bd3mmalb	(CM's parent) total Malaise score - grouped based on distrib.	Mother malaise
bd3in	CM's parent gave information on at least 1 Rutter question	Rutter
bd3mrutt	(CM's parent) total Rutter behaviour score	Rutter
bd3mrutg	(CM's parent) total Rutter behaviour score - grouped	Rutter

Country of interview derived variable

The Country of Interview variable bd3cntry is taken from the country where the 1980 interview took place (England, Wales, Scotland or Northern Ireland).

Region derived variables

The Standard Region of residence variable, bd3reg, is the region variable for the residence of the cohort member at the 1980 interview. For details of how these variables are derived, please refer to the document 'BCS70: Revised Region Variables' included in the deposit for study number 3723 (1970 British Cohort Study: Ten-Year Follow-up, 1980).

Derived key variables

The derived key variables bd3psoc, bd3inc, bd3ben, bd3age, bd3rread, bd3read, bd3rdage and bd3maths were originally generated as part of the ESRC Researcher Development Initiative (RDI) project (<http://www.cls.ioe.ac.uk/teachingresources>). The variables have been renamed for consistency with other derived variables. See Appendix 1 for the details of the derivation and renaming of these variables.

Mother malaise score derived variables

The mother malaise score derived variables bd3min, bd3mmal and bd3mmalb were originally generated as part of the ESRC Researcher Development Initiative (RDI) project (<http://www.cls.ioe.ac.uk/teachingresources>) The variables have been renamed for consistency with other derived variables. See Appendix 2 for the details of the derivation and renaming of these variables.

Rutter score derived variables

The Rutter score derived variables bd3in, bd3mrutt and bd3mrutg were originally generated as part of the ESRC Researcher Development Initiative (RDI) project (<http://www.cls.ioe.ac.uk/teachingresources>) The variables have been renamed for consistency with other derived variables. See Appendix 3 for the details of the derivation and renaming of these variables.

APPENDIX 1: Definition of derived key variables

The derived key variables were derived from variables included in the BCS70 1980 follow-up dataset. The key variables and the variables they were derived from are as follows:

Variable name	RDI Key variables dataset variable name	Variable label	Derived using variables
bd3psoc	b10psoc	Social class from fathers occupation (mothers if missing)	c3.4 + c3.11
bd3ben	b10ben	Received state benefit last 12 months?	c8.1 to c8.11
bd3inc	b10inc	Gross weekly family income	c9.1 to c9.8
bd3rread	b10read	Edinburgh Reading Test score	i3003 to i3069
bd3maths	b10maths	Friendly Maths Test score	i2504 to i2575

APPENDIX 2: Definition of mother malaise score derived variables

The mother malaise score derived variables were derived using the 24-item Malaise Inventory (How you feel) completed by the cohort member's parent (usually the mother) on behalf of the cohort member and included in the BCS70 1980 follow-up dataset. These 24 variables were renamed in the Mother Malaise dataset and are as follows:

Original variable name	RDI mother malaise dataset variable name	Variable label
m254	B10mmal01	(CM's mother):Do you often have backache?
m255	b10mmal02	(CM's mother):Do you feel tired most of the time?
m256	b10mmal03	(CM's mother):Do you often feel depressed?
m257	b10mmal04	(CM's mother):Do you often have bad headaches?
m258	b10mmal05	(CM's mother):Do you often get worried about things?
m259	b10mmal06	(CM's mother):Do you usually have great difficulty in falling or staying asleep?
m260	b10mmal07	(CM's mother):Do you usually wake unnecessarily early in the morning?
m261	b10mmal08	(CM's mother):Do you wear yourself out worrying about your health?
m262	b10mmal09	(CM's mother):Do you often get into a violent rage?
m263	b10mmal10	(CM's mother):Do people annoy and irritate you?
m264	b10mmal11	(CM's mother):Have you at times had a twitching of the face, head or shoulders?
m265	b10mmal12	(CM's mother):Do you suddenly become scared for no good reason?
m266	b10mmal13	(CM's mother):Are you scared to be alone when there are not friends near you?
m267	b10mmal14	(CM's mother):Are you easily upset or irritated?
m268	b10mmal15	(CM's mother):Are you frightened of going out alone or of meeting people?
m269	b10mmal16	(CM's mother):Are you constantly keyed up and jittery?
m270	b10mmal17	(CM's mother):Do you suffer from indigestion?
m271	b10mmal18	(CM's mother):Do you suffer from an upset stomach?
m272	b10mmal19	(CM's mother):Is your appetite poor?
m273	b10mmal20	(CM's mother):Does every little thing get on your nerves and wear you out?
m274	b10mmal21	(CM's mother):Does your heart often race like mad?
m275	b10mmal22	(CM's mother):Do you often have bad pain in eyes?
m276	b10mmal23	(CM's mother):Are you troubled with rheumatism or fibrosis?
m278	b10mmal24	(CM's mother):Have you ever had a nervous breakdown?

The mother malaise score derived variables were, for consistency, renamed for the derived variables dataset and are as follows:

Variable name	RDI mother malaise dataset variable name	Variable label
bd3min	b10min	(CM's mother) information on at least 1 Malaise question
bd3mmal	b10mmal	(CM's mother) total Malaise score
bd3mmalb	b10mmalB	(CM's mother) total Malaise score – grouped based on distribution

SPSS syntax for constructing mother malaise score derived variables

Answers to the Malaise questions at age 10 were presented using a visual analogue scale. 0 = 'most of the time', 100 = 'seldom or never'. Variables were reverse coded so a high score indicated how badly a respondent felt they suffered from this symptom (0=seldom or never, 100=most of the time). Variable b10mmal25, 'have you ever had a nervous breakdown?' had two answer categories: 0=no, 1=yes.

```
COMPUTE b10mmal = SUM(b10mmal01,b10mmal02,b10mmal03,b10mmal04,
  b10mmal05,b10mmal06,b10mmal07,b10mmal08,b10mmal09,b10mmal10,
  b10mmal11,b10mmal12,b10mmal13,b10mmal14,b10mmal15,b10mmal16,
  b10mmal17,b10mmal18,b10mmal19,b10mmal20,b10mmal21,b10mmal22,
  b10mmal23,b10mmal25) .
```

```
count b10miss = b10mmal01 b10mmal02 b10mmal03 b10mmal04 b10mmal05
  b10mmal06 b10mmal07 b10mmal08 b10mmal09 b10mmal10 b10mmal11
  b10mmal12 b10mmal13 b10mmal14 b10mmal15 b10mmal16 b10mmal17
  b10mmal18 b10mmal19 b10mmal20 b10mmal21 b10mmal22 b10mmal23
  b10mmal25 (missing).
```

```
if (b10miss > 0) b10mmal = -1.
```

```
if (b10miss = 24) b10mmal = -2.
```

```
missing values b10mmal (-1,-2).
```

```
variable labels b10mmal 'bcs70 age 10: (cm mother) total Malaise score'.
```

```
value labels b10mmal -1'incomplete info' -2'not stated any questions' .
```

```
recode b10mmal (0 thru 700 = 1) (701 thru 1029 = 2) (1030 thru highest = 3)
  (-2,-1 = copy) into b10mmalB.
```

```
missing values b10mmalB (-1,-2).
```

```
variable labels b10mmalB 'bcs70 age 10: (cm mother) total Malaise score –
  grouped based on distribution'.
```

```
value labels b10mmalB 1'0-80th centile - normal behaviour' 2'81st-95th centile -
  moderate behaviour problems' 3'95+ centile - severe behaviour problems'
  -1'incomplete info' -2'not stated any questions' .
```

```
rename variables (b10mmal=bd3mmal).
```

```
rename variables (b10mmalB=bd3mmalb).
```


APPENDIX 3: Definition of Rutter score derived variables

The Rutter score derived variables were derived using the 19-item Rutter Behaviour Scale questions, completed by the cohort member's parent and included in the BCS70 1980 follow-up dataset. These 19 variables were renamed in the Rutter dataset and are as follows:

Original variable name	RDI Rutter dataset variable name	Variable label
m43	b10rut01	Very restless, often running about or jumping up and down
m44	b10rut02	Is squirmy or fidgety
m45	b10rut03	Often destroys own or others property
m46	b10rut04	Frequently fights with other children
m47	b10rut05	Not much liked by other children
m48	b10rut06	Often worried, worries about many things
m49	b10rut07	Tends to do things on own - rather solitary
m50	b10rut08	Irritable, is quick to fly off the handle
m51	b10rut09	Often appears miserable, unhappy, tearful or distressed
m52	b10rut10	Sometimes takes things belonging to others
m53	b10rut11	Has twitches, mannerisms or tics of the face or body
m54	b10rut12	Frequently sucks thumb or fingers
m55	b10rut13	Frequently bites nails or fingers
m56	b10rut14	Is often disobedient
m57	b10rut15	Cannot settle to anything for more than a few moments
m58	b10rut16	Tends to be fearful or afraid of new things or new situations
m59	b10rut17	Is fussy or over-particular
m60	b10rut18	Often tells lies
m61	b10rut19	Bullies other children

The Rutter Score derived variables were, for consistency, renamed for the derived variables dataset and are as follows:

Variable name	RDI Rutter dataset variable name	Variable label
bd3in	b10in	(CM's mother) information for at least one Rutter question
bd3mrutt	b10mrutt	(CM's mother) total Rutter behaviour score
bd3mrutg	b10mruttg	(CM's mother) total Rutter behaviour score– grouped

SPSS syntax used to derive Rutter behaviour score variables

```
compute b10mrutt = SUM(b10rut01,b10rut02,b10rut03,b10rut04,b10rut05,
b10rut06,b10rut07,b10rut08,b10rut09,b10rut10,b10rut11,b10rut12,b10rut13,
b10rut14,b10rut15,b10rut16,b10rut17,b10rut18,b10rut19).
compute b10mrutt = trunc(b10mrutt).
count b10miss = b10rut01 b10rut02 b10rut03 b10rut04 b10rut05 b10rut06
b10rut07 b10rut08 b10rut09 b10rut10 b10rut11 b10rut12 b10rut13 b10rut14
b10rut15 b10rut16 b10rut17 b10rut18 b10rut19 (missing).
if (b10miss > 0) b10mrutt = -1.
```

BCS70 Derived Variables at 1980 sweep

```
if (b10miss = 19) b10mrutt = -2.  
missing values b10mrutt (-1,-2).  
value labels b10mrutt -1'incomplete info' -2'not stated any questions' .  
variable labels b10mrutt 'bcs70 age 10: total Rutter behaviour score (mother)'.  
freq b10mrutt.  
recode b10mrutt (0 thru 611=1) (612 thru 834=2) (835 thru highest = 3) (-1,-  
2=copy) into b10mruttg.  
missing values b10mruttg (-1,-2).  
value labels b10mruttg 1'0-80th centile - normal behaviour' 2'81st-95th centile -  
moderate behaviour problems' 3'95+ centile - severe behaviour problems'  
-1'incomplete info' -2'not stated any questions' .  
variable labels b10mruttg 'bcs70 age 10: total Rutter behaviour score (mother) -  
grouped'.  
rename variables(b10mrutt=bd3mrutt).  
rename variables(b10mruttg=bd3mruttg).
```


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