British Cohort Study 1970

Derived Variables at 1975 Sweep (5 year follow-up)

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BCS70 Derived Variables at 1975 Sweep

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Contents

Introduction

This User Guide describes the dataset of derived variables for the 1975 sweep of the 1970 British Cohort Study (BCS70). This dataset is deposited under study number 2699 (1970 British Cohort Study: Five-Year Follow-up, 1975) at the UK Data Archive. This is an initial dataset of sweep derived variables.

The derived variables included in the BCS70 1975 sweep derived variables dataset are as follows:

Variable	Variable label	Type of variable
bd2cntry	Country of Interview	Country of interview
bd2regn	Standard Region of residence	Region
bd2soc	Social class -fathers occup (or mothers if missing)	Key variable
bd2read	Standardised English Picture Vocab Test score (EPVT)	Key variable
bd2rdage	Estimated reading age at age 5	Key variable
bd2in	CM's parent gave information on 1+ Malaise question	Mother malaise
bd2mal	(CM's parent) total Malaise score	Mother malaise
bd2mala	(CM's parent) total Malaise score - grouped based on distrib.	Mother malaise
bd2malb	(CM's parent) total Malaise score - grouped in standard way	Mother malaise
bd2n	CM's parent gave information on at least 1 Rutter question	Rutter
bd2rutt	(CM's parent) total Rutter behaviour score	Rutter
bd2mrutg	(CM's parent) total Rutter behaviour score - grouped	Rutter

Country of interview derived variable

The Country of Interview variable bd2cntry is taken from the country where the 1975 interview took place (England, Wales, Scotland or Northern Ireland).

Region derived variables

The Standard Region of residence variable, bd2regn, is the region variable for the residence of the cohort member at the 1975 interview. For details of how these variables are derived, please refer to the document 'BCS70: Revised Region Variables', also included in the deposit for study number 2699 1970 British Cohort Study: Five-Year Follow-up, 1975).

Derived key variables

The derived key variables bd2soc, bd2read, bd2rdage 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 bd2in,bd2mal,bd2mala and bd2malb 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 bd2n, bd2rutt and bd2mrutg 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 1975 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
bd2soc	b5psoc	Social class from fathers occupation (mothers if missing)	e197 + e206
bd2read	zb5read	Standardised English Picture Vocab Test score (EPVT)	b5read
bd2rdage	b5readage	Estimated reading age at age 5	zb5read and av age

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 1975 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
d044	b5mmal01	(CM's mother):Do you often have backache?
d045	b5mmal02	(CM's mother):Do you feel tired most of the time?
d046	b5mmal03	(CM's mother):Do you often feel depressed?
d047	b5mmal04	(CM's mother):Do you often have bad headaches?
d048	b5mmal05	(CM's mother):Do you often get worried about things?
d049	b5mmal06	(CM's mother):Do you usually have great difficulty in falling or staying asleep?
d050	b5mmal07	(CM's mother):Do you usually wake unnecessarily early in the morning?
d051	b5mmal08	(CM's mother):Do you wear yourself out worrying about your health?
d052	b5mmal09	(CM's mother):Do you often get into a violent rage?
d053	b5mmal10	(CM's mother):Do people annoy and irritate you?
d054	b5mmal11	(CM's mother):Have you at times had a twitching of the face, head or shoulders?
d055	b5mmal12	(CM's mother):Do you suddenly become scared for no good reason?
d056	b5mmal13	(CM's mother):Are you scared to be alone when there are not friends near you?
d057	b5mmal14	(CM's mother):Are you easily upset or irritated?
d058	b5mmal15	(CM's mother):Are you frightened of going out alone or of meeting people?
d059	b5mmal16	(CM's mother):Are you constantly keyed up and jittery?
d060	b5mmal17	(CM's mother):Do you suffer from indigestion?
d061	b5mmal18	(CM's mother):Do you suffer from an upset stomach?
d062	b5mmal19	(CM's mother):Is your appetite poor?
d063	b5mmal20	(CM's mother):Does every little thing get on your nerves and wear you out?
d064	b5mmal21	(CM's mother):Does your heart often race like mad?
d065	b5mmal22	(CM's mother):Do you often have bad pain in eyes?
d066	b5mmal23	(CM's mother):Are you troubled with rheumatism or fibrosis?
d067	b5mmal24	(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
bd2in	b5min	(CM's mother) information on at least 1 Malaise question
bd2mal	b5mmal	(CM's mother) total Malaise score
bd2mala	b5mmalA	(CM's mother) total Malaise score – grouped based on distribution
bd2malb	b5mmalB	(CM's mother) total Malaise score - grouped in standard way

SPSS syntax for constructing mother malaise score derived variables
COMPUTE b5mmal =SUM(b5mmal01,b5mmal02,b5mmal03,b5mmal04,
      b5mmal05,b5mmal06,b5mmal07,b5mmal08,b5mmal09,b5mmal10,b5mmal11,
      b5mmal12,b5mmal13,b5mmal14, b5mmal15,b5mmal16,b5mmal17,b5mmal18,
      b5mmal19,b5mmal20, b5mmal21,b5mmal22,b5mmal23,b5mmal24) .
**the below code is included to try and include as many as possible but exclude
      those with enough missing values to give them a 'high' malaise score.
count b5miss = b5mmal01 b5mmal02 b5mmal03 b5mmal04 b5mmal05
      b5mmal06 b5mmal07 b5mmal08 b5mmal09 b5mmal10 b5mmal11 b5mmal12
      b5mmal13 b5mmal14 b5mmal15 b5mmal16 b5mmal17 b5mmal18 b5mmal19
      b5mmal20 b5mmal21 b5mmal22 b5mmal23 b5mmal24 (missing).
compute malmiss =b5mmal + b5miss.
if (b5miss > 0 and b5mmal <= 7 and malmiss >= 8) b5mmal = -1.
recode b5mmal (sysmis = -2).
missing values b5mmal (-1,-2).
variable labels b5mmal 'bcs70 age 5: (cm mother) total Malaise score'.
value labels b5mmal -1'incomplete info' -2'not stated any questions'

** Two categorical variables were derived for age 5 data. Version A is based on the
      distribution of the scores and is comparable with categorical variables derived at age 10
      (1980) and age 16 (1986). Version B is derived in the standard form, where a score of 8+
      indicated depression.
* Version A
recode b5mmal (0 thru 7 = 1) (8 thru 11 = 2) (12 thru highest = 3) (-2, -1 = copy)
into b5mmalA.
missing values b5mmalA (-1,-2).
variable labels b5mmalA 'bcs70 age 10: (cm mother) total Malaise score –
grouped based on distribution'.
value labels b5mmalA 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' .

* Version B
recode b5mmal (0 thru 7 = 1) (8 thru highest = 2) (-2,-1= copy) into b5mmalB.
variable labels b5mmalB 'bcs70 age 5: (cm mother) total Malaise score –
      grouped in standard way'.
value labels b5mmalB 1'score of 0-7' 2'score of 8+' -1'incomplete info' -2'not
      stated any questions'.
missing values b5mmalB (-1,-2).
rename variables (b5mmal=bd2mal).
rename variables (b5mmalA=bd2mala).
rename variables (b5mmalB=bd2malb).

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 1975 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
d025	b5rut01	Very restless, often running about or jumping up and down
d026	b5rut02	Is squirmy or fidgety
d027	b5rut03	Often destroys own or others property
d028	b5rut04	Frequently fights with other children
d029	b5rut05	Not much liked by other children
d030	b5rut06	Often worried, worries about many things
d031	b5rut07	Tends to do things on own - rather solitary
d032	b5rut08	Irritable, is quick to fly off the handle
d033	b5rut09	Often appears miserable, unhappy, tearful or distressed
d034	b5rut10	Sometimes takes things belonging to others
d035	b5rut11	Has twitches, mannerisms or tics of the face or body
d036	b5rut12	Frequently sucks thumb or fingers
d037	b5rut13	Frequently bites nails or fingers
d038	b5rut14	Is often disobedient
d039	b5rut15	Cannot settle to anything for more than a few moments
d040	b5rut16	Tends to be fearful or afraid of new things or new situations
d041	b5rut17	Is fussy or over-particular
d042	b5rut18	Often tells lies
d043	b5rut19	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
bd2n	b5in	(CM's mother) information for at least one Rutter question
bd2rutt	b5mrutt	(CM's mother) total Rutter behaviour score
bd2mrutg	b5mruttg	(CM's mother) total Rutter behaviour score – grouped

SPSS syntax used to derive Rutter behaviour score variables
compute b5mrutt = SUM(b5rut01,b5rut02,b5rut03,b5rut04,b5rut05,b5rut06,
b5rut07,b5rut08,b5rut09,b5rut10,b5rut11,b5rut12,b5rut13,b5rut14,b5rut15,
b5rut16,b5rut17,b5rut18,b5rut19) .
count b5miss = b5rut01 b5rut02 b5rut03 b5rut04 b5rut05 b5rut06 b5rut07
b5rut08 b5rut09 b5rut10 b5rut11 b5rut12 b5rut13 b5rut14 b5rut15 b5rut16
b5rut17 b5rut18 b5rut19 (missing).
if (b5miss > 0) b5mrutt = -1.
if (b5miss = 19) b5mrutt = -2.

missing values b5mrutt (-1,-2).
value labels b5mrutt -1'incomplete info' -2'not stated any questions' .
variable labels b5mrutt 'bcs70 age 5: total Rutter behaviour score (mother)'.
freq b5mrutt.
recode b5mrutt (0 thru 11=1) (12 thru 16=2) (17 thru highest = 3) (-1,-2=copy)
into b5mruttg.
missing values b5mruttg (-1,-2).
value labels b5mruttg 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 b5mruttg 'bcs70 age 10: total Rutter behaviour score (mother) -
grouped'.
rename variables(b5mrutt=bd2rutt).
rename variables(b5mruttg=bd2mrutg).

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