

Centre for Longitudinal Studies, Institute of Education

Teaching students quantitative methods using resources from the British Birth Cohorts

Measuring signs of psychological distress and depression

The Malaise Inventory

MotherMalaiseVariables.doc: this document includes

- a) An introduction to the data and a list of all the variables in the *b016MotherMalaise.sav SPSS* data file. (The original variable name that was assigned to a question and found in the full dataset and documentation of a particular survey is also included.) In summary *b016MotherMalaise.sav* contains all individual Malaise questions put to BCS70 cohort members' mothers when the cohort member was age 5, 10 and 16, together with overall summary Malaise scores at corresponding ages.
- b) SPSS syntax for constructing summary Malaise score variables

BCS70 Mothers' Malaise data file: 'b016mothermalaise.sav'

The data

This longitudinal dataset includes information from the 1970 British Cohort Study (BCS70) for looking at the relationship between education, socio-economic circumstances and mental well-being in adulthood over time. The datafile contains 85 variables, representing information collected from BCS70 cohort members' mothers during the cohort members childhood, specifically between age 5 and 16 (1975 to 1986).

Table 1 contains a list of all the variables in the **b016mothermalaise.sav** dataset. In 1975 when cohort members were age 5, 12985 of their mothers answered at least one Malaise question; when they were age 10, 13557 mothers answered at least one Malaise question and in 1986 when cohort members were 16, 8774 of their mothers answered at least one Malaise question. 6792 mothers of cohort members answered at least one Malaise question on all 3 occasions. To enable the information included here to be cross referenced with the original questionnaire documentation, original variable names are included in the variable label.

This file can be merged with the **b034malaise.sav** file to look at the relationship between a mother and her child's mental well-being. It can also be merged with **b034KeyVariables.sav** which includes some additional socio-economic characteristics of the cohort members' families at the time the mothers' mental well-being was assessed.

key	unique case identifier of cohort member
b5mmal b5mmalA	bcs70 age 5: (cm mother) total Malaise score
DominalA	bcs70 age 5: (cm mother) total Malaise score – grouped based on distribution
b5mmalB	bcs70 age 5: (cm mother) total Malaise score - grouped in
	standard way
b5min	bcs70 age 5: cohort member mother has information on at least 1 Malaise question
b10mmal	bcs70 age 10: (cm mother) total Malaise score
b10mmalA	bcs70 age 10: (cm mother) total Malaise score – grouped based
	on distribution
b10min	bcs70 age 10: cohort member mother has information on at least 1 Malaise question
b16mmal	bcs70 age 16: (cm mother) total Malaise score
b16mmalA	bcs70 age 16: (cm mother) total Malaise score – grouped based
	on distribution
b16mmalB	bcs70 age 16: (cm mother) total Malaise score – grouped (as for
b16min	cm at age 16) bcs70 age 16: cohort member mother has information on at
	least 1 Malaise question
b516min	bcs70 age 5 to 16: cohort members mothers with complete
	Malaise information
b5mmal01	bcs70 age 5: (cm mother): Do you often have backache? (d044)
b5mmal02	bcs70 age 5: (cm mother): Do you feel tired most of the time?
	(d045)
b5mmal03	bcs70 age 5: (cm mother): Do you often feel depressed? (d046)
b5mmal04	bcs70 age 5: (cm mother): Do you often have bad headaches?
b5mmal05	(d047) bcs70 age 5: (cm mother): Do you often get worried about
bommaroo	things? (d048)
b5mmal06	bcs70 age 5: (cm mother): Do you usually have great difficulty
	in falling or staying asleep? (d049)
b5mmal07	bcs70 age 5: (cm mother): Do you usually wake unnecessarily
1.5	early in the morning? (d050)
b5mmal08	bcs70 age 5: (cm mother): Do you wear yourself out worrying
b5mmal09	about your health? (d051) bcs70 age 5: (cm mother): Do you often get into a violent rage?
DJIIIIIaIUJ	(d052)
b5mmal10	bcs70 age 5: (cm mother): Do people annoy and irritate you?
	(d053)

b5mmal11	bcs70 age 5: (cm mother): Have you at times had a twitching of the face, head or shoulders? (d054)
b5mmal12	bcs70 age 5: (cm mother): Do you suddenly become scared for no good reason? (d055)
b5mmal13	bcs70 age 5: (cm mother): Are you scared to be alone when there are not friends near you? (d056)
b5mmal14	bcs70 age 5: (cm mother): Are you easily upset or irritated? (d057)
b5mmal15	bcs70 age 5: (cm mother): Are you frightened of going out alone or of meeting people? (d058)
b5mmal16	bcs70 age 5: (cm mother): Are you constantly keyed up and jittery? (d059)
b5mmal17	bcs70 age 5: (cm mother): Do you suffer from indigestion? (d060)
b5mmal18	bcs70 age 5: (cm mother): Do you suffer from an upset stomach? (d061)
b5mmal19	bcs70 age 5: (cm mother): Is your appetite poor? (d062)
b5mmal20	bcs70 age 5: (cm mother): Does every little thing get on your
h Emmal 01	nerves and wear you out? (d063)
b5mmal21	bcs70 age 5: (cm mother): Does your heart often race like mad? (d064)
b5mmal22	bcs70 age 5: (cm mother): Do you often have bad pain in eyes? (d065)
b5mmal23	bcs70 age 5: (cm mother): Are you troubled with rheumatism or fibrosis? (d066)
b5mmal24	bcs70 age 5: (cm mother): Have you ever had a nervous breakdown? (d067)
b10mmal01	bcs70 age 10: (cm mother): Do you often have backache? (m254)
b10mmal02	bcs70 age 10: (cm mother): Do you feel tired most of the time? (m255)
b10mmal03	bcs70 age 10: (cm mother): Do you often feel depressed? (m256)
b10mmal04	bcs70 age 10: (cm mother): Do you often have bad headaches? (m257)
b10mmal05	bcs70 age 10: (cm mother): Do you often get worried about things? (m258)
b10mmal06	bcs70 age 10: (cm mother): Do you usually have great difficulty in falling or staying asleep? (m259)
b10mmal07	bcs70 age 10: (cm mother): Do you usually wake unnecessarily early in the morning? (m260)
b10mmal08	bcs70 age 10: (cm mother): Do you wear yourself out worrying

	about your health? (m261)
b10mmal09	bcs70 age 10: (cm mother): Do you often get into a violent
	rage? (m262)
b10mmal10	bcs70 age 10: (cm mother): Do people annoy and irritate you?
	(m263)
b10mmal11	bcs70 age 10: (cm mother): Have you at times had a twitching
	of the face, head or shoulders? (m264)
b10mmal12	bcs70 age 10: (cm mother): Do you suddenly become scared for
	no good reason? (m265)
b10mmal13	bcs70 age 10: (cm mother): Are you scared to be alone when
	there are not friends near you? (m266)
b10mmal14	bcs70 age 10: (cm mother): Are you easily upset or irritated?
	(m267)
b10mmal15	bcs70 age 10: (cm mother): Are you frightened of going out
b10mmal16	alone or of meeting people? (m268)
DIUMMAIIO	bcs70 age 10: (cm mother): Are you constantly keyed up and
b10mmal17	jittery? (m269) bcs70 age 10: (cm mother): Do you suffer from indigestion?
DTUIIIIaTT	(m270)
b10mmal18	bcs70 age 10: (cm mother): Do you suffer from an upset
Diomaire	stomach? (m271)
b10mmal19	bcs70 age 10: (cm mother): Is your appetite poor? (m272)
b10mmal20	bcs70 age 10: (cm mother): Does every little thing get on your
	nerves and wear you out? (m273)
b10mmal21	bcs70 age 10: (cm mother): Does your heart often race like
	mad? (m274)
b10mmal22	bcs70 age 10: (cm mother): Do you often have bad pain in
	eyes? (m275)
b10mmal23	bcs70 age 10: (cm mother): Are you troubled with rheumatism
	or fibrosis? (m276)
b10mmal24	bcs70 age 10: (cm mother): Have you ever had a nervous
b16mmal01	breakdown? (m278)
DIOMINATO	bcs70 age 16: (cm mother): Do you often have backache? (pd1.1)
b16mmal02	bcs70 age 16: (cm mother): Do you feel tired most of the time?
5 Tommalo2	(pd1.2)
b16mmal03	bcs70 age 16: (cm mother): Do you often feel depressed?
	(pd1.3)
b16mmal04	bcs70 age 16: (cm mother): Do you often have bad headaches?
	(pd1.4)
b16mmal05	bcs70 age 16: (cm mother): Do you often get worried about
	things? (pd1.5)

b16mmal06	bcs70 age 16: (cm mother): Do you usually have great difficulty
	in falling or staying asleep? (pd1.6)
b16mmal07	bcs70 age 16: (cm mother): Do you usually wake unnecessarily
	early in the morning? (pd1.7)
b16mmal08	bcs70 age 16: (cm mother): Do you wear yourself out worrying about your health? (pd1.8)
b16mmal09	, , , , , , , , , , , , , , , , , , ,
DIOIIIIIai09	bcs70 age 16: (cm mother): Do you often get into a violent rage? (pd1.9)
b16mmal10	bcs70 age 16: (cm mother): Do people annoy and irritate you?
5.0	(pd1.10)
b16mmal11	bcs70 age 16: (cm mother): Have you at times had a twitching
	of the face, head or shoulders? (pd1.11)
b16mmal12	bcs70 age 16: (cm mother): Do you suddenly become scared for
	no good reason? (pd1.12)
b16mmal13	bcs70 age 16: (cm mother): Are you scared to be alone when
	there are not friends near you? (pd1.13)
b16mmal14	bcs70 age 16: (cm mother): Are you easily upset or irritated?
	(pd1.14)
b16mmal15	bcs70 age 16: (cm mother): Are you frightened of going out
	alone or of meeting people? (pd1.15)
b16mmal16	bcs70 age 16: (cm mother): Are you constantly keyed up and
	jittery? (pd1.16)
b16mmal17	bcs70 age 16: (cm mother): Do you suffer from indigestion?
	(pd1.17) (pd1.17)
b16mmal18	bcs70 age 16: (cm mother): Do you suffer from an upset
	stomach? (pd1.18)
b16mmal19	bcs70 age 16: (cm mother): Is your appetite poor? (pd1.19)
b16mmal20	bcs70 age 16: (cm mother): Does every little thing get on your
	nerves and wear you out? (pd1.20)
b16mmal21	bcs70 age 16: (cm mother): Does your heart often race like
	mad? (pd1.21)
b16mmal22	bcs70 age 16: (cm mother): Do you often have bad pain in
	eyes? (pd1.22)
b16mmal23	bcs70 age 16: (cm mother): Are you troubled with rheumatism
	or fibrosis? (pd1.23)
b16mmal24	bcs70 age 16: (cm mother): Have you ever had a nervous
	breakdown? (pd1.24)

SPSS syntax for constructing summary Malaise scores

BCS70 variables Age 5 (1975)

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 $(b5miss > 0 \text{ and } b5mmal \le 7 \text{ and } malmiss \ge 8)$ 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'

freq b5mmal.

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.

<u>Version A</u> 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' . freq b5mmalA.

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). freq b5mmalB.

Age 10 (1980)

Answers to the Malaise questions at age 10 where 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.

 $\label{eq:computed} \begin{array}{l} \text{COMPUTE b10mmal} = \text{SUM}(b10mmal01,b10mmal02,b10mmal03,b10mmal04, b10mmal05,b10mmal06,b10mmal07,b10mmal08,b10mmal09,b10mmal10, b10mmal11,b10mmal12,b10mmal13,b10mmal14,b10mmal15,b10mmal16, b10mmal17,b10mmal18,b10mmal19,b10mmal20,b10mmal21,b10mmal22, b10mmal23,b10mmal25)} \end{array}$

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' . freq b10mmal.

recode b10mmal (0 thru 700 = 1) (701 thru 1029 = 2) (1030 thru highest = 3) (-2, -1 = copy) into b10mmalA.

missing values b10mmalA (-1,-2).

variable labels b10mmalA 'bcs70 age 10: (cm mother) total Malaise score – grouped based on distribution'.

value labels b10mmalA 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'.

freq b10mmalA.

Age 16 (1986)

do if (b16mmal01 >= -2).

count b16mmal1 = b16mmal01 b16mmal02 b16mmal03 b16mmal04 b16mmal05 b16mmal06 b16mmal07 b16mmal08 b16mmal09 b16mmal10 b16mmal11 b16mmal12 b16mmal13 b16mmal14 b16mmal15 b16mmal16 b16mmal17 b16mmal18 b16mmal19 b16mmal20 b16mmal21 b16mmal22 b16mmal23 b16mmal24 (1).

count b16mmal2 = b16mmal01 b16mmal02 b16mmal03 b16mmal04 b16mmal05 b16mmal06 b16mmal07 b16mmal08 b16mmal09 b16mmal10 b16mmal11 b16mmal12 b16mmal13 b16mmal14 b16mmal15 b16mmal16 b16mmal17 b16mmal18 b16mmal19 b16mmal20 b16mmal21 b16mmal22 b16mmal23 b16mmal24 (2).

compute b16mmal2 = b16mmal2 * 2.

compute b16mmal = SUM(b16mmal1,b16mmal2). end if.

count b16miss = b16mmal01 b16mmal02 b16mmal03 b16mmal04 b16mmal05 b16mmal06 b16mmal07 b16mmal08 b16mmal09 b16mmal10 b16mmal11 b16mmal12 b16mmal13 b16mmal14 b16mmal15 b16mmal16 b16mmal17 b16mmal18 b16mmal19 b16mmal20 b16mmal21 b16mmal22 b16mmal23 b16mmal24 (-2).

count b16miss2 = b16mmal01 b16mmal02 b16mmal03 b16mmal04 b16mmal05 b16mmal06 b16mmal07 b16mmal08 b16mmal09 b16mmal10 b16mmal11 b16mmal12 b16mmal13 b16mmal14 b16mmal15 b16mmal16 b16mmal17 b16mmal18 b16mmal19 b16mmal20 b16mmal21 b16mmal22 b16mmal23 b16mmal24 (-1).

compute malmiss =b16mmal + b16miss.

if (b16miss > 0 and b16mmal <= 14 and malmiss >= 15) b16mmal = -1.

if (b16miss2 = 24) b16mmal = -2.

missing value b16mmal (-1,-2).

freq b16mmal.

Two categorical variables were derived for age 16 data. Version A is based on the distribution of the scores and is comparable with categorical variables derived at age 5 (1975 and at age 10 (1980). Version B is derived in the same way as for cohort members' own malaise score at age 16, where a score of 15+ indicates depression.

Version A

recode b16mmal (0 thru 11 = 1) (12 thru 17 = 2) (18 thru highest = 3) (-2, -1 = copy) into b16mmalA.

missing values b16mmalA (-1,-2).

variable labels b16mmalA 'bcs70 age 10: (cm mother) total Malaise score – grouped based on distribution'.

value labels b16mmalA 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'. freq b16mmalA.

Version B

recode b16mmal (0 thru 14=1) (15 thru highest = 2) (-2,-1=copy) into b16mmalB. end if.

missing values b16mmalB (-1,-2).

variable labels b16mmalB 'bcs70 age 16: (cm mother) total Malaise score grouped (as for cm at age 16)'.

value labels b16mmalB 1'0-14' 2'15+' -1'incomplete info' -2'not stated any questions' .

freq b16mmalB.