ICPSR 25281

National Survey of Midlife Development in the United States (MIDUS II): Cognitive Project, 2004-2006

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Variable Naming

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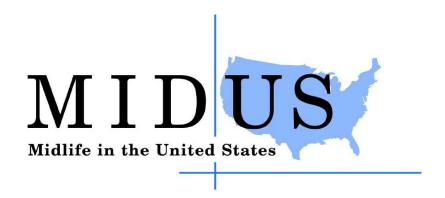
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MIDUS II PROJECT 3: Variable Naming Cognitive Test Battery

Brief Test of Adult Cognition by Telephone (BTACT) and Stop & Go Switch Task (SGST)

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A. Coding conventions for data

- a) YES = 1, NO = 2
- b) INCORRECT: 95 (for Stop & Go Switch Task only)
- c) DON'T KNOW (7's): 7, 97, 997
- d) REFUSED/MISSING (8's): 8, 98, 998
- e) INAPP/INVALID (9's): 9, 99, 999

B. Naming conventions for BTACT variables

- a) 1st letter "B," to indicate MIDUS II
- b) 2nd letter indicates project number 3
- c) 3rd letter indicates type of test: T= BTACT cognitive tests
- d) 4^{th} , 5^{th} , 6^{th} , 7^{th} , 8^{th} letters indicates either:
 - i. The individual test:
 - 1. WLI: Word List Recall Immediate

(Note: Columns 7 & 8 indicate response number; 1-26 possible responses)

- 2. BD: Backward Digit Span
- 3. **CTFL**: Category Fluency (also **CTF**)
- 4. **NS**: Number Series

(Note: Column 6 indicates trial number 1-5)

- 5. **BK**: Backward Counting
- 6. WLD: Word List Recall Delayed

(Note: Columns 7 & 8 indicate response number; 1-26 possible responses)

- ii. A composite measure:
 - WLF: Word List: Proportion Forgotten Between Immediate and Delayed
 - 2. **COMP**: BTACT Composite Score
- iii. A flag variable: Variables with "**FP**" as their 7th and 8th characters serve as flag variables for potentially problematic cases. This variable indicates, by test, which cases were identified at Brandeis by our screening as being problematic due to test disruption, interview equipment failures, or other problems. We recommend users deselect these tests for these specific cases.

Note: Bold variable names below indicate composite or total scale scores

Variable name	Variable label	Values
Word List Recall:	Immediate	
B3TWLIFP	Word List Immediate flagged problematic?	1=YES
		2=NO
		8=REFUSED/MISSING
B3TWLI1	Word List Immediate: Recalled #1 #26	1=DRUM
B3TWLI26	(allows for max 15 correct responses + up to 11	2=CURTAIN
	intrusions/repetitions)	3=BELL
		4=COFFEE
		5=SCHOOL
		6=PARENT
		7=MOON
		8=GARDEN
		9=HAT
		10=FARMER
		11=NOSE
		12=TURKEY
		13=COLOR
		14=HOUSE
		15=RIVER

		90=NON-LIST INTRUSION 98=REFUSED/MISSING 99=INAPP
B3TWLITU	Word List Immediate: Tot Unique Items	Range: 0 to 15; Sum of all correct, unique responses from B3TWLI1 to B3TWLI126 98=REFUSED/MISSING 99=INAPP
B3TWLITR	Word List Immediate: Tot # Repetitions	Sum of all repeated responses from B3TWLI1 to B3TWLI126 98=REFUSED/MISSING 99=INAPP
B3TWLITI	Word List Immediate: Tot # Intrusions	Sum of all non-list intrusions from B3TWLI1 to B3TWLI126 98=REFUSED/MISSING 99=INAPP
Digits Backward		
B3TDBFP	Digits Backward flagged problematic?	1=YES 2=NO 8=REFUSED/MISSING
B3TDBS	Digits Backward: highest # digits recall	0, 2 to 8 98=REFUSED/MISSING 99=INAPP
Category Fluency		
B3TCTFFP	Category Fluency flagged problematic?	1=YES 2=NO 8=REFUSED/MISSING
B3TCTFLU	Category Fluency: Tot Unique Items	Sum of all in-category, unique animals named 98=REFUSED/MISSING 99=INAPP
B3TCTFLR	Category Fluency: Tot # Repetitions	Sum of all in-category but repeated animals named 98=REFUSED/MISSING 99=INAPP
B3TCTFLI	Category Fluency: Total # Intrusions	Sum of all non-category intrusions 98=REFUSED/MISSING 99=INAPP

Number Series		
B3TNSFP	Number Series flagged problematic?	1=YES 2=NO 8=REFUSED/MISSING
B3TNS1 B3TNS5	Number Series: #1#5 (number reported)	997=DON'T KNOW 998=REFUSED/MISSING 999=INAPP
B3TNS1C B3TNS5C	Number Series #1#5: correct?	1=YES, CORRECT 2=NO, INCORRECT 8=REFUSED/MISSING 9=INAPP
B3TNSTOT	Number Series: Tot Correct	Range: 0 to 5; 8=REFUSED/MISSING 9=INAPP
Backward Count	ing	
B3TBKFP	Backward Counting flagged problematic?	1=YES 2=NO 8=REFUSED/MISSING
ВЗТВКСТ	Backward Counting: last # reached	998=REFUSED/MISSING 999=INAPP
B3TBKERR	Backward Counting: # of errors	998=REFUSED/MISSING 999=INAPP
В3ТВКТОТ	BK: (100-(B3TBKCT + B3TBKERR))	Total correct #s produced 998=REFUSED/MISSING 999=INAPP
Word List Recall	– Delaved	
B3TWLDFP	Word List Delayed flagged problematic?	1=YES
		2=NO 8=REFUSED/MISSING
B3TWLD1 B3TWLD26	Word List Delayed: Recalled #1#26 (allows for max 15 correct responses + up to 11 intrusions/repetitions)	1=DRUM 2=CURTAIN 3=BELL 4=COFFEE 5=SCHOOL 6=PARENT 7=MOON 8=GARDEN 9=HAT 10=FARMER 11=NOSE 12=TURKEY 13=COLOR 14=HOUSE 15=RIVER

		90=NON-LIST INTRUSION 98=REFUSED/MISSING 99=INAPP
B3TWLDTU	Word List Delayed: Tot Unique Items	Range: 0 to 15; Sum of all correct, unique responses from B3TWLD1 to B3TWLD126 98=REFUSED/MISSING 99=INAPP
B3TWLDTR	Word List Delayed: Tot # Repetitions	Sum of all repeated responses from B3TWLD1 to B3TWLD126 98=REFUSED/MISSING 99=INAPP
B3TWLDTI	Word List Delayed: Tot # Intrusions	Sum of all non-list intrusions from B3TWLD1 to B3TWLD126 98=REFUSED/MISSING 99=INAPP
Composite Meas	ures	
B3TWLF	Word List: Proportion Forgotten Between Immediate and Delayed	(B3TWLITU- B3TWLDTU)/B3TWLITU 8=REFUSED/MISSING 9=INAPP
B3TCOMP	BTACT Composite Score	Standardized mean of z- scores for Word Lists (sum of Immediate and Delayed: B3TWLITU + B3TWLDTU), Digits Backward (B3TDBS), Category Fluency (B3TCTFLU), Number Series (B3TNSTOT), and Backward Counting (B3TBKTOT) 8=REFUSED/MISSING 9=INAPP
ВЗТЕМ	BTACT Episodic Memory Factor	Standardized mean of z- scores for Word List Immediate (B3TWLITU)and Word List Delayed (B3TWLDTU)

		8=REFUSED/MISSING
		9=INAPP
B3TEF	BTACT Executive Functioning Factor	Standardized mean of z- scores for Digits Backward (B3TDBS), Category Fluency (B3TCTFLU), Number Series (B3TNSTOT), Backward Counting (B3TBKTOT), and mean of switch and nonswitch trials (B3TSMXBB multiplied by -1) in the Stop & Go Switch Task (SGST) [†] 8=REFUSED/MISSING
		9=INAPP

[†] See description of SGST variables below. Also note the recommendation to use the B3TSFC filter described at the end of this document when working with SGST variables.

C. Naming conventions for Stop and Go Switch Task (SGST) variables

- a) Naming convention for individual trials (raw scores)
 - i. 1st, 2nd, and 3rd character: by default is the **B3T** code that indicates
 MIDUS II, Project 3, BTACT Cognitive Battery
 - ii. 4^{th} character indicates the Stop & Go Switch Task
 - iii. 5th character: W=RaW scores
 - iv. 6th character indicates the subtest
 - 1. N=Normal single-task
 - 2. R=Reverse single-task
 - 3. X=miXed-task
 - v. 7th and 8th character indicate trial number (**1-20** for single-task, **1-32** for mixed-task)
- b) Naming convention for composite scores

- i. 1st, 2nd, and 3rd character, by default, is the **B3T** code that indicates
 MIDUS II, Project 3, BTACT Cognitive Battery
- ii. 4th character indicates the Stop & Go Switch Task
- iii. 5th character indicates measure
 - 1. For accuracy scores
 - a. T=Total correct
 - b. V=invalid
 - c. P=Percent correct
 - 2. For latency scores
 - a. M=Median (or mean of medians)
- iv. 6th character indicates the subtest
 - 1. N=Normal single-task
 - 2. R=Reverse single-task
 - 3. X=miXed-task
- v. *For mixed-task composites only:
 - 1. 7th character indicates the condition
 - a. N=Normal
 - b. R=Reverse
 - c. B=comBined
 - 2. 8th character indicates the trial type
 - a. S=Switch
 - b. O=nOnswitch
 - c. B=combined

*The last two characters apply only to the mixed-task subtest, and are omitted for the normal and reverse single-tasks. Thus, normal and reverse single-task composite measures will use only six characters rather than the full eight characters.

c) Composite scores: variable names

i. Accuracy

- 1. **B3TSPN**: normal single-task % correct
- 2. **B3TSPR**: reverse single-task % correct
- 3. **B3TSPXNO**: mixed-task normal nonswitch % correct
- 4. **B3TSPXRO**: mixed-task reverse nonswitch % correct
- 5. **B3TSPXBO**: mixed-task nonswitch % correct
- 6. **B3TSPXNS**: mixed-task normal switch % correct
- 7. **B3TSPXRS**: mixed-task reverse switch % correct
- 8. **B3TSPXBS**: mixed-task switch % correct
- 9. **B3TSPXBB**: all mixed-task trials % correct

ii. Latencies

- 1. **B3TSMN**: normal single-task median RT (reaction time)
- 2. **B3TSMR**: reverse single-task median RT (reaction time)
- 3. **B3TSMB**: mean(B3TSMN, B3TSMR) (normal and reverse)
- 4. **B3TSMXNO**: mixed-task normal nonswitch median RT
- 5. **B3TSMXRO**: mixed-task reverse nonswitch median RT
- 6. **B3TSMXBO**: median RT of all mixed-task nonswitch
- 7. **B3TSMXNS**: mixed-task normal switch median RT

- 8. **B3TSMXRS**: mixed-task reverse switch median RT
- 9. **B3TSMXBS**: median RT of all mixed-task switch
- 10. **B3TSMXBB**: mean(B3TSMXBO, B3TSMXBS) (nonswitch and switch trials)
- d) Naming convention for cost variables
 - i. 1st, 2nd, 3rd, 4th characters: as above: **B3TS**, for MIDUS II, Project 3

 BTACT Cognitive Battery, Stop & Go Switch Task
 - ii. 5thcharacter: C=Cost
 - iii. 6th character: indicates G=General, L=Local
 - iv. 7th character indicates the condition
 - 1. N = Normal
 - 2. $R = \mathbf{R}$ everse
 - 3. B = com Bined
 - v. 8th character: A=Absolute cost, R= Relative cost
- e) Switch Costs: variable names
 - i. General switch costs compare latencies on mixed-task trials to single-task trials (mean of normal single-task and reverse single-task).
 Although there are several ways of calculating general switch costs, we selected this version as the most basic. We give both *absolute* and *relative* general switch costs. *Absolute costs* represent a simple difference score between the easier and more difficult condition (e.g. A B). *Relative costs* give the proportion decline in performance

from the easier to the harder condition, and thus control for differences in baseline performance (e.g. (A-B)/A).)

- B3TSCGNA: General Switch Cost (normal), absolute
 [mean(B3TSMXNO, B3TSMXNS) B3TSMN]
- B3TSCGNR: General Switch Cost (normal), relative
 (B3TSCGNA/B3TSMN)
- B3TSCGRA: General Switch Cost (reverse), absolute
 [mean(B3TSMXRO, B3TSMXRS) B3TSMR]
- B3TSCGRR: General Switch Cost (reverse), relative
 (B3TSCGRA/B3TSMR)
- B3TSCGBA: General Switch Cost (combined), absolute
 (B3TSMXBB-B3TSMB)
- B3TSCGBR: General Switch Cost (combined), relative
 (B3TSCGBA/B3TSMB)
- ii. <u>Local switch costs</u> compare mixed-task switch trials to mixed-task nonswitch trials. We give both *absolute* local switch costs and *relative* local switch costs.
 - B3TSCLNA: Local Switch Cost (normal), absolute
 (B3TSMXNS B3TSMXNO)
 - B3TSCLNR: Local Switch Cost (normal), relative
 (B3TSCLNA/B3TSMXNO)
 - B3TSCLRA: Local Switch Cost (reverse), absolute
 (B3TSMXRS B3TSMXRO)

- B3TSCLRR: Local Switch Cost (reverse), relative
 (B3TSCLRA/B3TSMXRO)
- B3TSCLBA: Local Switch Cost (combined), absolute
 (B3TSMXBS-B3TSMXBO)
- B3TSCLBR: Local Switch Cost (combined), relative
 (B3TSCLBA/B3TSMXBO)
- f) Filters: We provide two levels of filters. Researchers who wish to use all valid files can choose to select the Valid filter (B3TSFV below). In our analyses we have used a criterion of 75% accuracy to ensure that participants were performing the task correctly; researchers who wish to use this approach can select cases based on the Clean filter (B3TSFC below).
 - i. B3TSFV (Valid): filters cases that were invalid due to missing sound files, technical problems, or failure to carry out the task as instructed.
 - ii. B3TSFC (Clean): To further insure that participants were performing the task as directed, we required a valid file with accuracy of at least 75% on all conditions (normal single-task, reverse single-task, mixed-task switch and nonswitch). In addition, to eliminate extreme latencies (i.e., outliers), we required median values of <2 sec for single-task and <4 sec for mixed-task trials.

Note: **Bold** variable names below indicate composite or total scale scores

Variable name	Variable label	Values
- turiusie nume	, anaste aser	V GLIGOS

Individual Trials:	: Raw Scores	
B3TSWN1 B3TSWN20	SGST: normal single-task trial #1#20	Latencies (s) 95=INCORRECT 98=REFUSED/MISSING 99=INVALID
B3TSWR1 B3TSWR20	SGST: reverse single-task trial #1#20	Latencies (s) 95=INCORRECT 98=REFUSED/MISSING 99=INVALID
B3TSWX1 B3TSWX32	SGST: mixed-task trial #1 "normalgreen"trial #32 "green"	Latencies (s) 95=INCORRECT 98=REFUSED/MISSING 99=INVALID
Normal Single-tas	sk Trials: Composite Scores	
Composite Accur	acy Scores	
B3TSTN	SGST: normal single-task #correct	0-20 98=REFUSED/MISSING
B3TSVN	SGST: normal single-task #invalid	0-20 98=REFUSED/MISSING
B3TSPN	SGST: normal single-task %correct (ratio form)	0-1.00 8=REFUSED/MISSING
Composite Laten	· ·	
B3TSMN	SGST: normal single-task median RT (reaction time)	Latency (s) 98=REFUSED/MISSING
Reverse Single-ta	sk Trials: Composite Scores	
Composite Accur		
B3TSTR	SGST: reverse single-task #correct	0-20 98=REFUSED/MISSING
B3TSVR	SGST: reverse single-task #invalid	0-20 98=REFUSED/MISSING
B3TSPR	SGST: reverse single-task %correct (ratio form)	0-1.00 8=REFUSED/MISSING
Composite Laten		
B3TSMR	SGST: reverse single-task median RT (reaction time)	Latency (s) 98=REFUSED/MISSING
Composite of Nor	rmal and Reverse Single-task	
B3TSMB	SGST: mean(B3TSMN, B3TSMR)	Latency (s) 98=REFUSED/MISSING
	s: Composite Accuracy Scores	
	site across normal nonswitch trials	0.12
B3TSTXNO S	GST: mixed-task normal nonswitch trials #correct	0-12

		98=REFUSED/MISSING
B3TSVXNO	SGST: mixed-task normal nonswitch trials #invalid	0-12
DJISVANO	5051. Illixed-task normal nonswitch trials #illvand	98=REFUSED/MISSING
B3TSPXNO	SGST: mixed-task normal nonswitch trials %correct	0-1.00
DSISFANO	(ratio form)	8=REFUSED/MISSING
A a a v v a a v v		6=REFUSED/MISSING
•	posite across reverse nonswitch trials	0.11
B3TSTXRO	SGST: mixed-task reverse nonswitch trials #correct	0-11
DATESTIVE O	000T	98=REFUSED/MISSING
B3TSVXRO	SGST: mixed-task reverse nonswitch trials #invalid	0-11
		98=REFUSED/MISSING
B3TSPXRO	SGST: mixed-task reverse nonswitch trials %correct	0-1.00
	(ratio form)	8=REFUSED/MISSING
	posites across all nonswitch trials	
B3TSTXBO	SGST: mixed-task nonswitch trials #correct	0-23
		98=REFUSED/MISSING
B3TSVXBO	SGST: mixed-task nonswitch trials #invalid	0-23
		98=REFUSED/MISSING
B3TSPXBO	SGST: mixed-task nonswitch trials %correct (ratio form)	0-1.00
		8=REFUSED/MISSING
Accuracy com	posite across normal switch trials	
B3TSTXNS	SGST: mixed-task normal switch trials #correct	0-3
		8=REFUSED/MISSING
B3TSVXNS	SGST: mixed-task normal switch trials #invalid	0-3
2018 (111)		8=REFUSED/MISSING
B3TSPXNS	SGST: mixed-task normal switch trials %correct (ratio	0-1.00
201011110	form)	8=REFUSED/MISSING
Accuracy com	posite across reverse switch trials	o REF COLD, MICHIGAN
B3TSTXRS	SGST: mixed-task reverse switch trials #correct	0-3
DSTSTARS	5051. Illiaed tusk reverse switch trials recorrect	8=REFUSED/MISSING
B3TSVXRS	SGST: mixed-task reverse switch trials #invalid	0-3
DSISVARS	5051. IIIIxcu-task reverse switch trials #ilivalid	8=REFUSED/MISSING
B3TSPXRS	SGST: mixed-task reverse switch trials %correct (ratio	0-1.00
DSISFARS	form)	8=REFUSED/MISSING
A	,	6=REFUSED/MISSING
	posite across all switch trials	0.7
B3TSTXBS	SGST: mixed-task switch trials #correct	0-6
DATICKINDS	OCOT : 1, 1 ', 1, 1 ", 1, 1	8=REFUSED/MISSING
B3TSVXBS	SGST: mixed-task switch trials #invalid	0-6
DATIGRADO	OCOT 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2	8=REFUSED/MISSING
B3TSPXBS	SGST: mixed-task switch trials %correct (ratio form)	0-1.00
		8=REFUSED/MISSING
	posites across all mixed-task trials	
B3TSTXBB	SGST: all mixed-task #correct	0-29
		98=REFUSED/MISSING
B3TSVXBB	SGST: all mixed-task #invalid	0-29
		98=REFUSED/MISSING

B3TSPXBB	SGST: all mixed-task %correct (ratio form)	0-1.00
DSISFADD	SOS1. all lillxed-task %collect (latto lollil)	98=REFUSED/MISSING
		96=REFUSED/MISSING
Mixed tests Tr	rials: Composite Latency Scores	
B3TSMXNO	osite across normal nonswitch trials SGST: mixed-task normal nonswitch median RT	I stancy (s)
BSISMANO	SGS1: mixed-task normal nonswitch median R1	Latency (s)
T 4		98=REFUSED/MISSING
	osite across reverse nonswitch trials	T
B3TSMXRO	SGST: mixed-task reverse nonswitch median RT	Latency (s)
		98=REFUSED/MISSING
	osite across all nonswitch trials	
B3TSMXBO	SGST: mixed-task nonswitch trials median RT	Latency (s)
		98=REFUSED/MISSING
Latency comp	osite across normal switch trials	
B3TSMXNS	SGST: mixed-task normal switch median RT	Latency (s)
		98=REFUSED/MISSING
Latency comp	osite across reverse switch trials	
B3TSMXRS	SGST: mixed-task reverse switch median RT	Latency (s)
		98=REFUSED/MISSING
Latency comp	osite across all switch trials	
B3TSMXBS	SGST: mixed-task switch trials median RT	Latency (s)
		98=REFUSED/MISSING
Latency comp	osite across all mixed-task trials	
B3TSMXBB	SGST: mean(B3TSMXBO, B3TSMXBS)	Latency (s)
	000111111111111111111111111111111111111	98=REFUSED/MISSING
Mixed-Task T	rials: Switch Cost Scores	
B3TSCGBA	SGST: General Switch Cost, absolute (B3TSMXBB-	Latency (s)
201200211	B3TSMB)	98=REFUSED/MISSING
B3TSCGBR	SGST: General Switch Cost, relative	Latency (s)
DUISCODA	(B3TSCGBA/B3TSMB)	98=REFUSED/MISSING
B3TSCGNA	SGST: General Switch Cost (normal), absolute	Latency (s)
Doibedini	[mean(B3TSMXNO, B3TSMXNS) – B3TSMN]	98=REFUSED/MISSING
B3TSCGNR	SGST: General Switch Cost (normal), relative	Latency (s)
DSTSCOTIK	(B3TSCGNA/B3TSMN)	98=REFUSED/MISSING
B3TSCGRA	SGST: General Switch Cost (reverse), absolute	Latency (s)
DJISCOKA	[mean(B3TSMXRO, B3TSMXRS) – B3TSMR]	98=REFUSED/MISSING
D2TCCCDD	SGST: General Switch Cost (reverse), relative	
B3TSCGRR		Latency (s) 98=REFUSED/MISSING
D2TCCI DA	(B3TSCGRA/ B3TSMR) SGST: Legal Switch Cost, absolute (B2TSMVPS)	
B3TSCLBA	SGST: Local Switch Cost, absolute (B3TSMXBS-	Latency (s)
DATEGOT DE	B3TSMXBO)	98=REFUSED/MISSING
B3TSCLBR	SGST: Local Switch Cost, relative	Latency (s)
DAMA CT. T.	(B3TSCLBA/B3TSMXBO)	98=REFUSED/MISSING
B3TSCLNA	SGST: Local Switch Cost (normal), absolute	Latency (s)

	(B3TSMXNS-B3TSMXNO)	98=REFUSED/MISSING
B3TSCLNR	SGST: Local Switch Cost, (normal), relative	Latency (s)
	(B3TSCLNA/B3TSMXNO)	98=REFUSED/MISSING
B3TSCLRA	SGST: Local Switch Cost (reverse), absolute	Latency (s)
	(B3TSMXRS-B3TSMXRO)	98=REFUSED/MISSING
B3TSCLRR	SGST: Local Switch Cost,(reverse), relative	Latency (s)
	(B3TSCLRA/B3TSMXRO)	98=REFUSED/MISSING
Filters		
B3TSFV	SGST: Filter invalid cases (VALID)	0=NOT SELECTED
		1=SELECTED
B3TSFC	SGST: Filter cases with low accuracy or extreme	0=NOT SELECTED
	latencies (CLEAN)	1=SELECTED