

FRAMINGHAM HEART STUDY - CODING MANUAL

MASTER CODING MANUAL FOR COGNITIVE FUNCTION TEST ("MMSE OR MM EXAM')

COHORT: ORIGINAL

DATA COLLECTION TIME FRAME: EXAMS 17-28

SAS DATASET NAME: VR_MMSE_EX28_0_0225D.SAS7BDAT

#RECORDS: 2425

The value ranges and observation number stated in the manual are based on the original data set. In some cases, observation may be deleted due to participant consent form restrictions. If observations have been deleted from this data set, the ranges or observation number may differ from those stated in this manual.

MASTER CODING MANUAL FOR COGNITIVE FUNCTION TEST("MMSE or MM EXAM")

CODING MANUAL CONTAINS:

MMSE VARIABLES FOR ORIGINAL COHORT EXAMS 17-28 (NOT ADMINISTERED BEFORE EXAM 17)

Convention of variable names for this manual

= EXAM CYCLE number

For example,

item number 1 "what is the date today?" for exam cycle 17, would be mm17_1, item number2 would be mm17_2, etc.

total cognitive function score for exam cycle 27 would be cogscr27, for exam28 total cog score would be cogscr28, etc.

Note: since many exam cycles were merged together, if all the variables for a particular exam cycle are missing (dot in SAS) then most likely, the test was not administered.

<u>VARIABLE</u>	<u>DESCRIPTION</u>
IDTYPE	FRAMINGHAM HEART STUDY COHORT IDENTIFIER 0 = ORIGINAL COHORT
ID	FRAMINGHAM HEART STUDY PARTICIPANT ID NUMBER **DELETED TO PRESERVE CONFIDENTIALITY, USE RANDOM ID (PID)
PID	RANDOM ID **RANDOM ID REPLACES FRAMINGHAM ID TO PRESERVE CONFIDENTIALITY

COGNITIVE FUNCTION - PART I

<u>VARIABLE</u>	<u>DESCRIPTION</u>
MM#_1	WHAT IS THE DATE TODAY? (MONTH, DAY, YEAR) (SCORE 1 POINT FOR EACH CORRECT ANSWER) 0 NONE CORRECT 1 1 OF 3 CORRECT 2 2 OF 3 CORRECT 3 3 OF 3 CORRECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST
MM#_2	WHAT IS THE SEASON? (SCORE 1 POINT FOR CORRECT ANSWER) 0 INCORRECT 1 CORRECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST
MM#_3	WHAT DAY OF THE WEEK IS IT? (SCORE 1 POINT FOR CORRECT ANSWER) 0 INCORRECT 1 CORRECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST
MM#_4	WHAT TOWN, COUNTY AND STATE ARE WE IN? (SCORE 1 POINT FOR EACH CORRECT ANSWER) 0 NONE CORRECT 1 1 OF 3 CORRECT 2 2 OF 3 CORRECT 3 3 OF 3 CORRECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST
MM#_5	WHAT IS THEN NAME OF THIS PLACE? (SCORE 1 POINT FOR CORRECT ANSWER) 0 INCORRECT 1 CORRECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST

MM#_6 WHAT FLOOR OF THE BUILDING ARE WE ON?
(SCORE 1 POINT FOR CORRECT ANSWER)
0 INCORRECT
1 ONE CORRECT RESPONSE
6 NO TRY
. UNKNOWN OR DID NOT TAKE THE TEST

MM#_7 I AM GOING TO NAME 3 OBJECTS. AFTER I HAVE SAID
THEM I WANT YOU TO REPEAT THEM BACK TO ME. REMEMBER
WHAT THEY ARE BECAUSE I WILL ASK YOU TO NAME THEM
AGAIN IN A FEW MINUTES: APPLE, TABLE, PENNY.
(SCORE 1 POINT FOR EACH CORRECT ANSWER)
0 NONE CORRECT
1 1 OF 3 CORRECT
2 2 OF 3 CORRECT
3 3 OF 3 CORRECT
6 NO TRY
. UNKNOWN OR DID NOT TAKE THE TEST

RW_WOR# NOW I AM GOING TO SPELL A WORD FORWARD AND I WANT
YOU TO SPELL IT BACKWARDS. THE WORD IS WORLD. W-O-
R-L-D. PLEASE SPELL IT IN REVERSE ORDER.
(LETTERS ARE ENTERED AND SCORED LATER-
SEE NOTE BELOW ABOUT SCORING THIS VARIABLE)

MM#_8 WHAT ARE THE 3 OBJECTS I ASKED YOU TO REMEMBER A FEW
MOMENTS AGO?
(SCORE 1 POINT FOR CORRECT ANSWER)
0 NONE CORRECT
1 1 OF 3 CORRECT
2 2 OF 3 CORRECT
3 3 OF 3 CORRECT
6 NO TRY
. UNKNOWN OR DID NOT TAKE THE TEST

COGNITIVE FUNCTION -- PART II

<u>VARIABLE</u>	<u>DESCRIPTION</u>
MM#_9	WHAT IS THIS CALLED? (WATCH) (SCORE 1 POINT FOR CORRECT ANSWER) 0 INCORRECT 1 CORRECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST
MM#_10	WHAT IS THIS CALLED? (PENCIL) (SCORE 1 POINT FOR CORRECT ANSWER) 0 INCORRECT 1 CORRECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST
MM#_11	PLEASE REPEAT THE FOLLOWING: "NO IFS, ANDS, OR BUTS." (SCORE 1 POINT FOR PERFECT RESPONSE) 0 INCORRECT 1 PERFECT 6 NO TRY . UNKNOWN OR DID NOT TAKE THE TEST
MM#_12	PLEASE READ THE FOLLOWING AND DO WHAT IS SAYS (PERFORMED=1) 0 INCORRECT 1 PERFORMED 6 NO TRY OR LOW VISION . UNKNOWN OR DID NOT TAKE THE TEST
MM#_13	PLEASE WRITE A SENTENCE (PERFORMED=1) 0 INCORRECT 1 PERFORMED 6 NO TRY OR LOW VISION . UNKNOWN OR DID NOT TAKE THE TEST
MM#_14	PLEASE COPY THIS DRAWING (PERFORMED=1) 0 INCORRECT 1 PERFORMED 6 NO TRY OR LOW VISION . UNKNOWN OR DID NOT TAKE THE TEST

MM#_15 TAKE THIS PIECE OF PAPER IN YOUR RIGHT HAND, FOLD IT IN
HALF WITH BOTH HANDS, AND PUT IT IN YOUR LAP
(SCORE 1 POINT FOR EACH CORRECTLY PERFORMED ACT, CODE 6 IF
LOW VISION)
0 NONE PERFORMED CORRECTLY
1 1 OF 3 PERFORMED
2 2 OF 3 PERFORMED
3 3 OF 3 PERFORMED
6 NO TRY OR LOW VISION
. UNKNOWN OR DID NOT TAKE THE TEST

WORLD# Note for scoring "world" variable
SEE MASTERWORLD.SAS PROGRAM FOR SCORING
0 POINTS
1 POINT
2 POINTS
3 POINTS
4 POINTS
5 POINTS

NOTE: Masterworld.sas (available upon request)

COGSCR# 0-30 TOTAL SCORE FOR COGNITIVE FUNCTION TEST

IF TEST WAS ADMINISTERED AND NUMMISS GE 8 (ACCORDING TO
FOLLOWING "NUMMISS" CALCULATION)
NUMMISS=NUMMISS1+NUMMISS2+NUMMISS3,
WHERE:
NUMMISS1=NMISS(OFF MMCYCLE#_1-MMCYCLE#_7)
NUMMISS2=NMISS(OFF MMCYCLE#_8-MMCYCLE#_15)
NUMMISS3=NMISS(WORLDCYCLE#)
THEN COGSCR# IS MISSING.

IF AN ITEM WAS CODED AS 6=NO TRY
THEN THE SCORE FOR THAT ITEM IS MISSING (DOT).
IF AN ITEM WAS CODED A 9=UNKNOWN,
THEN THE SCORE FOR THAT ITEM IS MISSING (DOT).
OTHERWISE
COGSCR#=SUM(MM#_1, MM#_2, MM#_3,MM#_4, MM#_5, MM#_6,
MM#_7, WORLD#, MM#_8, MM#_9, MM#_10,
MM#_11, MM#_12, MM#_13, MM#_14, MM#_15).

MAXCOG# 9-30 MAXIMUM SCORE A PARTICIPANT CAN GET BASED ON THE
QUESTIONS HE/SHE ANSWERED. FOR EXAMPLE, IF A PARTICIPANT
DID NOT ANSWER A 5 POINT QUESTION, THE MAXIMUM SCORE WILL
BE 25.

NOTE: This test was embedded in the corresponding clinic exam data collection form. On some clinic exam forms, the cognitive function test was followed by a set of questions asking about factors that could impact the test, such as poor vision, language, hard of hearing, etc. To access those variables, one must go back to the corresponding clinic exam data set.