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

SAS DATASET NAME = LMM1\_7.SSD01

#### CONTAINS:

MMSE VARIABLES FOR OFFSPRING COHORT EXAMS 5-7 (MMSE WAS NOT ADMINISTERED BEFORE EXAM 5)

4084 RECORDS

NOTE: this dataset is the most updated version of all previous MMSE questionaires which were included in the exam datasets. In case of differences in the values between current dataset (lmm1\_7) and previous exam datasets use lmm1\_7 as the most updated version. LMM1\_7 should be used vs the values in the exam data sets.

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Convention of variable names for this manual

# = EXAM CYCLE number

For example,

item number 1 "what is the date today?" for exam cycle 7, would be mm7\_1, item number2 would be mm7, etc.

total cognitive function score for exam cycle 6 would be cogscr6, for exam7 total cog score would be cogscr7, 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. To ascertain exam attendence, use exam dates file.

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RANDOMID RANDOM ID

## COGNITIVE FUNCTION -- PART I

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 LATERSEE 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

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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
                  PLEASE COPY THIS DRAWING
MM#_14
            (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)
            O 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

## COGSCR#

0-30 TOTAL SCORE FOR COGNITIVE FUNCTION TEST

IF TEST WAS ADMINISTERED AND NUMMISS GE 8 ACCORDING TO "NUMMISS" BELOW

NUMMISS1=NMISS(OF MMCYCLE#\_1-MMCYCLE#\_7)
NUMMISS2=NMISS(OF MMCYCLE#\_8-MMCYCLE#\_15)
NUMMISS3=NMISS(WORLDCYCLE#)

NUMMISS=NUMMISS1+NUMMISS2+NUMMISS3

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.