Variable List for STROOP/CERAD Dataset

**CERAD Word List Memory Task**

Learning trials, participant is asked to read a list of ten words and is asked to recall them over a period of 90 seconds. This process is repeated three times (three trials).

Target words = Queen, Grass, Arm, Cabin, Pole, Shore, Butter, Engine, Ticket, Letter
Trial Total Correct = Number of target words recalled within 20 responses
**A point is only assigned for the first occurrence of a target word**

**CERAD_TOTAL_SCORE** = Sum of total correct from trials 1, 2, and 3

Recall – Participant is asked to recall as many words as possible from the three learning trials done earlier.

**CERAD_RECALL_SCORE** = Number of target words recalled within 20 responses

**CERAD_PCT_RETENTION** = CERAD_RECALL_SCORE/CERAD_TRIAL3_SCORE*100;

**Victoria STROOP Test**

Dots – The participant is asked to name the colors of the dots on the page as quickly as they can.

**STROOP_DOT_TIME** - Total Time for Dots condition, seconds

Colors – The participant is asked to name the colors in which the words on the page are printed as quickly as they can.

**STROOP_COLOR_TIME** = Total Time for Colors condition, seconds

**STROOP_INTERFER_SCORE**= STROOP_COLOR_TIME/STROOP_DOT_TIME * 100
Summary Variables for CERAD and Stroop

CERAD Word List Memory Task
Time latency between Trial 3 Recall and Delayed Recall
  Time1 (hour:minute): g3b0885:g3b0886
  Time2 (hour:minute): g3b1068:g3b1069

Trial 1 Total Correct (The number of target words recalled within 20 responses)
  Variables = g3b0823 : g3b0842
  Target words = Queen, Grass, Arm, Cabin, Pole, Shore, Butter, Engine, Ticket, Letter
  **A point is only assigned for the first occurrence of a target word

Trial 2 Total Correct (The number of target words recalled within 20 responses)
  Variables = g3b0845 : g3b0864
  Target words = Queen, Grass, Arm, Cabin, Pole, Shore, Butter, Engine, Ticket, Letter
  **A point is only assigned for the first occurrence of a target word

Trial 3 Total Correct (The number of target words recalled within 20 responses)
  Variables = g3b0865 : g3b0884
  Target words = Queen, Grass, Arm, Cabin, Pole, Shore, Butter, Engine, Ticket, Letter
  **A point is only assigned for the first occurrence of a target word

Recall Total Correct (The number of target words recalled within 20 responses)
  Variables = g3b1070 : g3b1089
  Target words = Queen, Grass, Arm, Cabin, Pole, Shore, Butter, Engine, Ticket, Letter

Recognition Total Correct
  *Sum of the following variables with value of “1”*
  g3b1094, g3b1096, g3b1097, g3b1099, g3b1102, g3b1103, g3b1105, g3b1108, g3b1110, g3b1111
  *AND the remaining variables with a value of “2”*

Recognition Score by Manual
  Total Correct – 10

Recognition % Correct
  (Total Correct / 20) * 100

STROOP
Total Time for Dots condition: (g3b0938*60) + g3b0939
Total Time for Words condition: (g3b0990*60) + g3b0991
Total Time for Colors condition: (g3b1042*60) + g3b1043

Total Correct Responses for Dots condition:
  *Sum of the following checked variables:*
  g3b0890, g3b0892, g3b0894, g3b0896, g3b0898, g3b0900, g3b0902, g3b0904, g3b0906, g3b0908,
  g3b0910, g3b0912, g3b0914, g3b0916, g3b0918, g3b0920, g3b0922, g3b0924, g3b0926, g3b0928,
  g3b0930, g3b0932, g3b0934, g3b0936.
Total Correct Responses for Words condition:

*Sum of the following checked variables*

\[g_3b0942, g_3b0944, g_3b0946, g_3b0948, g_3b0950, g_3b0952, g_3b0954, g_3b0956, g_3b0958,\]
\[g_3b0960, g_3b0962, g_3b0964, g_3b0966, g_3b0968, g_3b0970, g_3b0972, g_3b0974, g_3b0976,\]
\[g_3b0978, g_3b0980, g_3b0982, g_3b0984, g_3b0986, g_3b0988.\]

Total Correct Responses for Colors condition:

*Sum of the following checked variables*

\[g_3b0994, g_3b0996, g_3b0998, g_3b1000, g_3b1002, g_3b1004, g_3b1006, g_3b1008, g_3b1010, g_3b1012,\]
\[g_3b1014, g_3b1016, g_3b1018, g_3b1020, g_3b1022, g_3b1024, g_3b1026, g_3b1028, g_3b1030, g_3b1032, g_3b1040.\]

Total **Self**-corrected errors for Dots condition:

*Sum of the following variables with a value of “1”*

\[g_3b0891, g_3b0893, g_3b0895, g_3b0897, g_3b0899, g_3b0901, g_3b0903, g_3b0905, g_3b0907,\]
\[g_3b0909, g_3b0911, g_3b0913, g_3b0915, g_3b0917, g_3b0919, g_3b0921, g_3b0923, g_3b0925,\]
\[g_3b0927, g_3b0929, g_3b0931, g_3b0933, g_3b0935, g_3b0937\]

Total **Self**-corrected errors for Words condition:

*Sum of the following variables with a value of “1”*

\[g_3b0943, g_3b0945, g_3b0947, g_3b0949, g_3b0951, g_3b0953, g_3b0955, g_3b0957, g_3b0959,\]
\[g_3b0961, g_3b0963, g_3b0965, g_3b0967, g_3b0969, g_3b0971, g_3b0973, g_3b0975, g_3b0977,\]
\[g_3b0979, g_3b0981, g_3b0983, g_3b0985, g_3b0987, g_3b0989.\]

Total **Self**-corrected errors for Colors condition:

*Sum of the following variables with a value of “1”*

\[g_3b0995, g_3b0997, g_3b0999, g_3b1001, g_3b0995, g_3b1003, g_3b1005, g_3b1007, g_3b1009,\]
\[g_3b1011, g_3b1013, g_3b1015, g_3b1017, g_3b1019, g_3b1021, g_3b1023, g_3b1025, g_3b1027,\]
\[g_3b1029, g_3b1031, g_3b1033, g_3b1035, g_3b1037, g_3b1039, g_3b1041.\]

Total **Examiner**-corrected errors for Dots condition:

*Sum of the following variables with a value of “2”*

\[g_3b0891, g_3b0893, g_3b0895, g_3b0897, g_3b0899, g_3b0901, g_3b0903, g_3b0905, g_3b0907,\]
\[g_3b0909, g_3b0911, g_3b0913, g_3b0915, g_3b0917, g_3b0919, g_3b0921, g_3b0923, g_3b0925,\]
\[g_3b0927, g_3b0929, g_3b0931, g_3b0933, g_3b0935, g_3b0937\]

Total **Examiner**-corrected errors for Words condition:

*Sum of the following variables with a value of “2”*

\[g_3b0943, g_3b0945, g_3b0947, g_3b0949, g_3b0951, g_3b0953, g_3b0955, g_3b0957, g_3b0959,\]
\[g_3b0961, g_3b0963, g_3b0965, g_3b0967, g_3b0969, g_3b0971, g_3b0973, g_3b0975, g_3b0977,\]
\[g_3b0979, g_3b0981, g_3b0983, g_3b0985, g_3b0987, g_3b0989.\]
Total Examiner -corrected errors for Words condition:

Sum of the following variables with a value of “2”

- g3b0995, g3b0997, g3b0999, g3b1001, g3b1003, g3b1005, g3b1007, g3b1009,
g3b1011, g3b1013, g3b1015, g3b1017, g3b1019, g3b1021, g3b1023, g3b1025, g3b1027,
g3b1029, g3b1031, g3b1033, g3b1035, g3b1037, g3b1039, g3b1041.

**Qualitative Variables - CERAD**

Trial 1 Number of words read incorrectly

Sum of g3b0813 to g3b0822

Trial 1 Greater than 35 responses provided ◊ g3b1204
Trials 2 or 3 Greater than 35 responses provided ◊ g3b1205
Recall Greater than 35 responses provided ◊ g3b1206

Trial 1 Perseverations

Sum of repeated values for variables g3b0823 to g3b0842

Trial 2 Perseverations

Sum of repeated values for variables g3b0845 to g3b0864

Trial 3 Perseverations

Sum of repeated values for variables g3b0865 ◊ g3b0884

Recall Perseverations

Sum of repeated values for variables g3b1070 ◊ g3b1089

Trial 1 Intrusions

Sum of values Different than Target Words for variables g3b0823 to g3b0842

Trial 2 Intrusions

Sum of values Different than Target Words for variables g3b0845 to g3b0864

Trial 3 Intrusions

Sum of values Different than Target Words for variables g3b0865 ◊ g3b0884

Recall Intrusions

Sum of values Different than Target Words for variables g3b1070 ◊ g3b1089
Logic Checks for NeuroCog Exam

CERAD WORD LIST MEMORY TASK

None of the “Responses (verbatim)” can be a single letter or a numeral; must be a complete word or missing

- g3b0823 - g3b0842 cannot be a single letter or numeral; must be either a complete word or missing
- g3b0845 - g3b0884 cannot be a single letter or numeral; must be either a complete word or missing
- g3b1070 - g3b1089 cannot be a single letter or numeral; must be either a complete word or missing

If “Check if more than 35 responses are given” is checked, all twenty “Responses (verbatim)” for one of the Trials on that page must have values

- If g3b1204 is checked, then g3b0823 - g3b0842 must have a valid value (a word) and cannot be missing
- If g3b1205 is checked, then g3b0845 - g3b0864 must have a valid value (a word) and cannot be missing
- OR
- g3b0865 - g3b0884 must have a valid value (a word) and cannot be missing
- If g3b1206 is checked, then g3b1070 - g3b1089 must have a valid value (a word) and cannot be missing

All variables for the “Word List Memory Task: Recognition” must have a value (0 or 1)

- g3b1092 - g3b1111 must have a value (0, 1) and cannot be missing

Time 2 must be later than Time 1

Time1 (hour:minute) g3b0885:g3b0886
Time2 (hour:minute) g3b1068:g3b1069

Summary Score Logic Checks for CERAD

Total Correct ≤ 10

Total Correct + Intrusions + Perseverations = Total Responses

VICTORIA STROOP TEST (VST): Parts 1-3 (Dots, Words, Colors) all have same logic checks

For every item, if the box next to the color name is checked, “self-corrected” and “examiner corrected” must be missing. For example...

Part 1: Dots
- If g3b0890 is checked, then g3b0891 must be missing
- If g3b0892 is checked, then g3b0893 must be missing

... If g3b0936 is checked, then g3b0937 must be missing

Part 2: Words
- If g3b0942 is checked, then g3b0943 must be missing

... If g3b0988 is checked, then g3b0989 must be missing

Part 3: Colors
- If g3b0994 is checked, then g3b0995 must be missing

... If g3b1040 is checked, then g3b1041 must be missing
For every item, if the box next to color name is NOT checked, either “self-corrected” OR “examiner corrected” must be indicated. For example

**Part 1: Dots**
- If g3b0890 is NOT checked, then g3b0891 must have a value
- If g3b0892 is NOT checked, then g3b0893 must have a value
  ...
- If g3b0936 is NOT checked, then g3b0937 must have a value

**Part 2: Words**
- If g3b0942 is NOT checked, then g3b0943 must have a value
  ...
- If g3b0988 is NOT checked, then g3b0989 must have a value

**Part 3: Colors**
- If g3b0994 is NOT checked, then g3b0995 must have a value
  ...
- If g3b1040 is NOT checked, then g3b1041 must have a value

**Summary Score Logic Checks for Stroop**

Total Correct + Total Examiner Errors + Total Self-Corrected Errors = 24

If Trials 1 (Dots), 2 (Words), OR 2 (Colors) is not completed (i.e., a value for all variables on the pages), all Trials must be Not Completed

**FACTORS AFFECTING VALIDITY OF DATA**

If Examiner believes something may have affected validity of data, Comments section must be completed

- If g3b1116 is checked, then g3b1122 cannot be missing

If test not completed, reason must be given

- If g3b1117 is checked, then at least one of the following variables must be checked: g3b1118; g3b1119; g3b1120; g3b1121

If reason for test not being completed is “Other,” then Comments section must be completed

- If g3b1121 is checked, then g3b1122 cannot be missing