Mini-Mental State Examination (MMSE)\textsuperscript{1,2}

Make the patient comfortable and establish rapport. Ask questions in the order listed. \textit{Total possible score is 30.}

\begin{tabular}{|l|l|}
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\textbf{Maximum} & \textbf{Score} \quad \textbf{Score} \\
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\hline
\textbf{ORIENTATION} & \\
5 & ( ) \quad 1. “What is the (year) (season) (date) (day) (month)?” \\
5 & ( ) \quad 2. “Where are we?” (state) (county) (town or city) (hospital) (floor). \\
\hline
\textbf{REGISTRATION} & \\
3 & ( ) \quad Ask the patient if you may test his/her memory. Then say the names of 3 unrelated objects, clearly and slowly, about one second for each (eg., “apple,” “table,” “penny”). After you have said all 3, ask him/her to repeat them. This first repetition determines the score (0-3), but keep saying them until he/she can repeat all 3, up to 6 trials. \\
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\textbf{ATTENTION AND CALCULATION} & \\
5 & ( ) \quad Ask the patient to begin with 100 and count backwards by 7. Stop after 5 subtractions (93, 86, 79, 72, 65). Score the total number of correct answers. If the patient cannot or will not perform the serial 7’s task, ask him/her to spell the word “WORLD” backwards. The score is the number of letters in the correct order (eg., DLROW = 5; DLRW = 4; DLORW, DLW = 5; OW = 2; DLRWO = 1). \\
\hline
\textbf{RECALL} & \\
3 & ( ) \quad Ask the patient to recall the 3 items repeated above (eg., “apple,” “table,” “penny”). \\
\hline
\textbf{LANGUAGE} & \\
2 & ( ) \quad \textbf{Naming:} Show the patient a wristwatch and ask him/her what it is. Repeat for pencil. \\
1 & ( ) \quad \textbf{Repetition:} Ask the patient to repeat the phrase “No ifs, ands, or buts” after you. \\
3 & ( ) \quad \textbf{3-Stage Command:} Give the patient a piece of blank paper and ask him/her to “take a piece of paper in your right hand, fold it in half, put it on the floor.” Score 1 point for each part correctly executed. \\
1 & ( ) \quad \textbf{Reading:} On a blank piece of paper, print the sentence “CLOSE YOUR EYES” in letters large enough for the patient to see clearly. Ask him/her to read it and do what it says. Score 1 point only if he/she actually closes his/her eyes. \\
1 & ( ) \quad \textbf{Writing:} Give the patient a blank piece of paper and ask him/her to write a sentence. Do not dictate a sentence; it is to be written spontaneously. It must contain a subject and verb and be sensible. Correct grammar and punctuation are not necessary. \\
1 & ( ) \quad \textbf{Copying:} Ask the patient to copy the figure of intersecting pentagons exactly as it is. All 10 angles must be present and 2 must intersect to form a 4-sided figure to score 1 point. Tremor and rotation are ignored. \\
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\end{tabular}

\begin{center}
\begin{figure}
\includegraphics[width=0.5\textwidth]{pentagons.png}
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\begin{tabular}{|l|l|}
\hline
\textbf{Maximum} & \textbf{Total} \quad \textbf{Suggested guideline for determining the severity of cognitive impairment:} \\
\hline
\textbf{Total Score} & \textbf{Score} \quad \textbf{Mild:} MMSE $\geq$21 \\
30 & (____) \quad \textbf{Moderate:} MMSE 10-20 \\
\hline
\textbf{Expected decline in MMSE scores in untreated mild to moderate Alzheimer’s patient is 2 to 4 points per year.}\textsuperscript{14} & \textbf{Severe:} MMSE $\leq$9 \\
\hline
\end{tabular}

\textsuperscript{*}Adapted from Folstein et al. and Cockrell and Folstein;\textsuperscript{2}© 1975, 1998 Mini Mental LLC. Used with permission.