Supplemental Material S1. Time-ordered session treatment plan.

1) **Delayed Memory Activity (10 minutes)**
   *Units of information, how many and moving from related to unrelated (semantic distance)*
   *Time for delay (moving from baseline time to longer as improvement occurs; using a timer)*
   *Training on Compensatory Strategies: visualizing, re-auditorization, semantic connections/chunking, story connections, acronyms*

2) **ISMT (25 minutes)**
   *Set of 3 targets, 1 at a time, level/semantic distance based on assessment results*
   *On a white board, or large pad of paper*
   *Interactive but participant driven with cues as needed*
   *Words verbally listed out by participant for each target*
   *After all 3 words semantic feature analysis completed, connections are created/seen/discussed/added*
   *Cueing occurred when participant unable to see connections, or generate semantic information*
   *Clarification also if participant made odd/unexpected connections, however if participant rationale clarifies even abstract relationships, this was encouraged*
   *Second set of 3 targets if time allows*

3) **Traditional Short-Term memory/Working Memory tasks (20 minutes)**
   *All while using at least 1 strategy*
   *Recall of short list of words and identify target*
   *Recall list of numbers and sequencing them*
   *Recall of short paragraphs like new stories, articles*
   *Structured short conversation recall*

4) **Delayed Memory Recall from #1 (5 minutes)**
   *Cueing as needed*