## 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