

### Supplemental material 3 - Cognitive function domain criteria and measures (neuropsychological tests)

1. **Global Cognitive Function**- Encompasses multiple domains of cognitive function, including memory, executive function, and processing speed.

Measures: Montreal Cognitive Assessment (MoCA); Mini-Mental State Examination (MMSE); Cambridge Cognition Examination (CAMCOG); Alzheimer's Disease Assessment Scale-Cognitive Subscale (ADAS-Cog), including language and memory subscores; Severe Impairment Battery – Short Form (SIB-S); Rapid Evaluation of Cognitive Function; Clock Drawing Test (CDT)

2. **Executive Function**- A broad set of thinking abilities, which includes planning, set-shifting, working memory, and inhibition.

Measures: Verbal fluency (animal category and/or professions, fruits, vegetables); Stroop test (speech-accuracy trade off scores, colour-word interference card); Digit span test from the Wechsler Adult Intelligence Scale revised (WAIS-R Scale); Digit span test from the Wechsler Adult Intelligence Scale III (WAIS-III Scale); Spatial span test from the WAIS-III Scale; Digit span forward test from Wechsler Memory Scale Revised (WMS-R); Digit span backward (WMS-R); Visual memory span forward test (WMS-R); Visual memory span backward test (WMS-R); Groningen Intelligence Test (picture completion test and category fluency test); Sum-of-Boxes and Cognition score of the Clinical Dementia Rating Scale (CDR); Frontal Assessment Battery (FAB), including go-no-go test (FAB1) and conflicting instruction test (FAB2); Letter fluency; Rule shift cards test; Executive Interview (EXIT-25); Phonemic Fluency Test; Controlled Oral Word Association Test (COWAT); Category Fluency Test.

3. **Memory**- A broad set of thinking abilities, including spatial memory, immediate memory, verbal memory, and episodic memory.

Measures: Rey's auditory verbal learning test (RAVLT); Rivermead Behavioral Memory Test (face recognition test and picture recognition test); Eight words test direct recall (WMS-R); Eight words test recognition (WMS-R); Fuld Object Memory Evaluation (FOME); Verbal immediate recall; Verbal delayed recall, WHO-UCLA-AVLT immediate recall and delayed recall; location learning test; Boston Naming Test (BNT); Hopkins Verbal Learning Test (HVLT); Hopkins Verbal Learning Test – Revised (HVLT-R)

4. **Processing Speed**- Reaction time and ability to process information quickly.

Measures: Eriksen flanker task (congruent and incongruent); Trail Making Test A and B (TMT-A and -B); Digit Cancellation Test (DCT); Stroop test (word reading and colour-naming in seconds).