**COMMUNICATION RECOVERY AFTER TBI**

**ASSESSMENT DATA**

**SPEECH PATHOLOGY**

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| **ASSESSMENT** | **MEASURES** | **ADMINISTERED** | **SCORING** | **INTERPRETATION** |
| Western Aphasia Battery-Revised | Receptive and Expressive  Language | 3 months or first assessment and then each data point until p. scores above cut off | Aphasia Quotient  /100 | P. dx with aphasia if scores *≤93.8* |
| Frenchay Dysarthria Assessment-2 | Motor Speech | 3 months or first assessment and then each data point until p. scores above cut off | 7 subtests scored 0-9 | P. dx with dysarthria if scores  ≤7 on any subtest |
| Boston Naming Test 2 | Word Finding  Nouns | 3 months or first assessment and then each data point until p. scores within cut off range | Score/ 60 | Compare against age-matched norms  P. dx with anomia if ≤ 1 sd from mean. |
| Apraxia Battery for Adults | Motor Speech | If indicated by sp. report, repetition test in WAB-mod | Cut off scores for no, mild, moderate, severe impairment in 7 subtests | P. dx with apraxia if scores in mild-severe levels for 5 or more subtests and >5 on subtest 6 |
| Functional Assessment of Verbal Reasoning Skills | Cognitive Communication | 6 months and then 12 months, 2 years unless p. scores above overall and subtest cut offs | Total Accuracy /20;  Rationale /20 Reasoning /47 Time scores.  4 subtest accuracy, rationale, reasoning and time scores  plus standard scores & percentiles | P. dx with cog commun. dis. if scores below cut off for total accuracy/ rationale or any subtest. |
| TBI Bank-AphasiaBank- Repetition | Auditory Memory | 3 months or first assessment and then each data point | 4 subtests individually scored | 4 subtests raw scores |
| TBI Bank-Verb Naming Test | Word Finding  Verbs | 3 months or first assessment and then each data point until p scores full marks | Total /22 | Total correct raw scores |
| TBI Bank- Discourse  (recorded) | Personal, descriptive, procedural narratives,  Story Recall | 3 months or first assessment and then each data point if consent | Discourse analyses based upon CHAT/ CLAN/ EVAL guidelines | Identify impairments and changes in macro/ micro discourse skills.  Quantify behaviours.  Compare with matched control group. |
| Conversation  (recorded) | Interactions between people with TBI and communication partners | 3 months or first assessment and then each data point if commun. partner & consent | Modified Kagan Rating Scales  4 scales rate commun. behaviour of person with TBI and commun partner from 0 (no skill)- 4 (highly skilled) using .5 intervals. | Identify issues and changes in conversational interactions btwn people with TBI and commun. partners. Focus upon revealing competence, acknowledging competence, interaction, transaction. |
| LaTrobe Communication Questionnaire  Self | Social Communication  Self reported change | 3 months or first assessment and then each data point | Total Score 30-120 | Compare with mean sd, higher scores indicate self perceptions of social commun. disorder |
| LaTrobe Communication Questionnaire  Other | Social Communication  Comm. Partner reported changes | 3 months or first assessment and then each data point if commun. partner | Total Score 30-120 | Compare with mean sd, higher scores indicate commun. partner perceptions of social commun. disorder |
| Sydney Psychosocial Reintegration Scale-2 Form A Self | Lifestyle Changes following Injury.  Self report | 3 months or first assessment and then each data point | Total Score/48  3 Domain scores/16 | Group total and domain mean scores into 3 bands no sig-some- major perceived change by close other |
| Sydney Psychosocial Reintegration Scale-2 Form A Other | Lifestyle Changes following Injury.  Close Other report | 3 months or first assessment and then each data point if commun. partner | Total Score/48  3 Domain scores/16 | Group total and domain mean scores into 3 bands to indicate no sig-some- major perceived change by close other |
| Treatment Data | Participation in speech pathology intervention  Participation in rehabilitation | Each data point | Yes/ No responses  Cross match with setting data- IP/OP | No. of participants attending speech path, rehab program at each data point. |

**NEUROPSYCHOLOGY**

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| **Attention/information processing speed Index** | **Memory Index** | **Executive function Index** | **Total (overall) Cognitive index** is a composite of all three indices of Attention/information processing speed, Memory and Executive function. |
| The Attention component of this index includes tests of immediate verbal memory span and working memory. (Immediate verbal recall and ability to manipulate and ‘deal with’ information in mind.)  The Speed of information processing component looks at the participant’s thinking speed, or ability to quickly process and respond to information. (Tasks used dependent in part on fine motor skill or verbal response ability.) | Overall memory index indicates ability to recall both verbal and non-verbal (visual) information over time (following a delay period). | The EF index incorporates skills of problem-solving, reasoning, concept formation, generativity, inhibition and mental flexibility (switching). |
| Tests:   * Digit Span: forwards & backwards * Symbol digit modalities test: written & oral | Tests:   * Hopkins verbal learning test-Revised (HVLT-R) * (BVMT-R) | Tests:   * Neuropsychological assessment battery (NAB): EF module; including Mazes, Judgement, Categories & Word generation * Delis-K Executive Function S (D-KEFS) : Colour-word interference test |