Table 1: Psychometric properties for the assessments used at the different ICF levels

A. Body Structure and Function level outcomes

|  |  |  |  |
| --- | --- | --- | --- |
| Outcome | Reliability | Validity | Responsiveness |
| Intra-rater | Inter-rater | Test-Retest | Concurrent | Construct | Content | Face |
| Fugl-Meyer Assessment | [1] | [2] | [2] | [3] | [4] | [5] | [5] | [6] |
| Motor performance Kinematic measures |  |  | [7] | [8] |  |  |  | [7] |
| Movement pattern Kinematic measures |  |  | [7] | [9] |  | [10] |  | [11] |
| Modified Ashworth’s Scale | [12] | [12] |  | [13] | [14] |  |  | [15] |
| Original Ashworth’s scale | [16] | [16] |  |  |  |  |  |  |
| Grip strength |  | [17] | [18] | [19] |  |  |  | [20] |
| Pinch Strength |  | [17] | [18] | [19] |  |  |  | [21] |
| Isometric strength of upper limb muscles | [22] | [22] |  | [23] | [24] |  |  | [20] |
| Motricity Index | [25] | [25] |  | [26] | [26] |  |  | [27] |
| MEPs and motor thresholds obtained using TMS |  |  | [28] | [28] |  |  |  | [29] |
| Goniometry to measure range of motion | [30] | [30] |  |  |  |  |  | [30] |
| Brunnstrom’s stage of motor recovery |  | [31] |  | [32] |  |  |  |  |
| fMRI |  |  | [33] |  |  |  |  |  |
| Reaching Performance Scale in Stroke | [34] | [34] | [10] | [34] |  | [10] |  | [11] |
| Manual Function Test [35] |  | [35] | [35] | [35] |  |  |  | [35] |
| Chedoke McMaster Stroke Assessment | [36] | [36] |  | [36] |  | [36] |  | [37] |
| Stroke Impact Scale-Strength |  | [38] |  | [39] | [40] | [41] |  | [42] |

B. Activity Limitation outcomes

|  |  |  |  |
| --- | --- | --- | --- |
| Outcome | Reliability | Validity | Responsiveness |
| Intra-rater | Inter-rater | Test-Retest | Concurrent | Construct | Content | Face |
| Wolf Motor Function Test |  | [43] | [44] | [43] | [45] | [46] |  | [47] |
| Box and Blocks Test |  | [2] | [48] | [49] |  |  |  | [49] |
| Motor Activity Log |  |  | [50] | [51] | [52] |  |  | [50] |
| Action Research Arm Test | [53] | [53] | [2] | [2] | [54] | [55] |  | [6] |
| Jebsen Test of Motor Function | [56] | [56] |  | [21] |  |  |  | [21] |
| Functional Independence Measure |  | [57] | [58] | [58] | [59] |  |  | [58] |
| Barthel Index |  | [60] | [61] | [60] |  |  |  | [60] |
| Nine Hole Peg Test |  | [48] | [48] | [49] |  |  |  | [21] |
| Chedoke Arm and Hand Activity Inventory |  | [62] | [62] | [62] | [63] | [63] |  | [64] |
| ABILHAND |  |  | [65] | [66] | [67] |  |  | [66] |
| Stroke Impact Scale ADL |  | [38] |  | [39] | [40] | [41] |  | [42] |
| Nottingham Extended Activities of Daily Living (NEADL) |  |  | [61] | [66] | [68] |  |  | [69] |
| Assessment of Motor and Process Skills |  |  | [70] | [71] |  |  |  | [72] |
| Functional Test of the Hemiparetic Upper Extremity |  | [73] |  | [73] | [74] |  |  |  |
| Canadian Occupational Performance Measure |  |  | [75] | [76] |  |  |  | [77] |
| Fatigue Severity Scale |  |  | [78] | [78] | [78] |  |  | [78] |

C. Contextual Factors and Participation level outcomes

|  |  |  |  |
| --- | --- | --- | --- |
| Outcome | Reliability | Validity | Responsiveness |
| Intra-rater | Inter-rater | Test-Retest | Concurrent | Construct | Content | Face |
| Intrinsic Motivation Inventory |  |  | [79] |  | [80] | [81] |  |  |
| Stroke Impact Scale [40] |  |  | [40] | [40] |  |  |  | [40] |
| Short Form- 36 |  | [82] | [82] | [83] | [84] |  |  | [85] |
| Beck’s Depression Inventory |  |  | [86] | [87] |  |  |  | [88] |
| EuroQoL 5D |  |  | [89] | [90] |  |  |  | [89] |
| Stroke Specific Quality of Life |  |  | [91] | [92] | [93] | [94] |  | [94] |
| Hamilton Depression Rating Scale |  |  | [95] | [87] |  |  |  | [96] |

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