**TBI Edge Outcome Measures Taskforce**

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| **Instrument name:** High Level Mobility Assessment (HiMAT) | |
| **Reviewer:** Irene Ward, PT, DPT, NCS | **Date of review:** May 25, 2012 |
| **ICF domain (check all that apply):**  \_\_\_\_\_ Body function/structure \_\_\_x\_\_ Activity \_\_\_\_\_ Participation | |

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| **Construct/s measured (check all that apply):** | | |
| **Body structure and Function** | **Activity** | **Participation** |
| \_\_\_Aerobic capacity/endurance  \_\_\_Ataxia \_\_\_Cardiovascular/pulmonary status  \_\_\_Cognition  \_\_\_Coordination (non-equilibrium)  \_\_\_Dizziness  \_\_\_Dual Tasks  \_\_\_Fatigue  \_\_\_Flexibility  \_\_\_Muscle performance  \_\_\_Muscle tone / spasticity  \_\_\_Pain  \_\_\_Sensory integration  \_\_\_Somatosensation  \_\_\_Other: trunk control | \_\_\_Balance/falls  \_\_\_Bed mobility  \_\_\_Gait (include stairs)  \_x\_\_High Level mobility  \_\_\_Transfers  \_\_\_Wheelchair skills  \_\_\_Other: | \_\_\_Community function  \_\_\_Driving  \_\_\_Health and wellness  \_\_\_Home management  \_\_\_Leisure/Recreational activities  \_\_\_Life satisfaction  \_\_\_Quality of life  \_\_\_Reintegration to community  \_\_\_Role function  \_\_\_Shopping  \_\_\_Social function  \_\_\_Work  \_\_\_Other: |

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|  | **Recommendation Categories** | | | | | | | | | | | | | | |
| **Practice Setting** | | **4** | | **3** | | | **2** | | | **1** | | | **Comments** | | |
| Acute/ED | |  | |  | | | **x** | | |  | | | Not tested in patients with acute TBI, but shown to have excellent psychometric data for patients with chronic TBI. | | |
| In-Patient Rehab | |  | |  | | | **x** | | |  | | |
| Outpatient (day. rehab, Transitional living) | | **x** | |  | | |  | | |  | | |  | | |
| LTAC/SNF | | **x** | |  | | |  | | |  | | |  | | |
| Home Health | | **x** | |  | | |  | | |  | | |  | | |
| **Overall Comments:** | | * Excellent clinical utility. Requires approximately 10 minutes to administer. Specific items are required for testing procedure. | | | | | | | | | | | | | |
| **Ambulatory Status** | | **4** | **3** | | **2** | | | **1** | | | **N/A\*** | | | **Comments (Include recommendations based on cognitive status)** | |
| I-Complete Independence | | x |  | |  | | |  | | |  | | |  | |
| II-Mild dependence | | x |  | |  | | |  | | |  | | | **Appropriate for individuals requiring only supervision, but not appropriate for patients requiring a gait aid.** | |
| III-Moderate dependence | |  |  | |  | | |  | | | x | | | **Not appropriate for patients requiring continuous manual assistance.** | |
| IV-Severe dependence | |  |  | |  | | |  | | | x | | | **Not appropriate if patient is non-ambulatory or requires more than one person to assist with ambulation.** | |
| \*Not applicable: Outcome measure not related to ambulation status | | | | | | | | | | | | | | | |
| **Overall Comments:** | |  | Not appropriate for use individuals with a disorder of consciousness. Not recommended for those who are unable to follow multi-step commands. | | | | | | | | | | | | |
| **Entry-Level Criteria** | |  | **Students should learn to administer tool** | | | | | | **Students should be exposed to tool (e.g. to read literature)** | | | | | | **Comments** |
| Should this tool be required for entry level curricula? | |  | **YES** | | | **NO** | | | **YES** | | | **NO** | | |  |
|  | x | | |  | | | x | | |  | | |
| **Research Use** | |  | **YES** | | | | | | **NO** | | | | | | **Comments** |
| Is this tool appropriate for use in intervention research studies? | |  | x | | | | | |  | | | | | |  |
| Additional information on this measure can be found at [www.rehabmeasures.org](http://www.rehabmeasures.org) | | | | | | | | | | | | | | | |

References:

Williams, G., Robertson, V., et al. (2005). "The high-level mobility assessment tool (HiMAT) for traumatic brain injury. Part 1: Item generation." Brain Inj 19(11): 925-932. [Find it on PubMed](http://www.ncbi.nlm.nih.gov/pubmed/16243748" \t "_blank)

Williams, G., Robertson, V., et al. (2006). "The concurrent validity and responsiveness of the high-level mobility assessment tool for measuring the mobility limitations of people with traumatic brain injury." Arch Phys Med Rehabil 87(3): 437-442. [Find it on PubMed](http://www.ncbi.nlm.nih.gov/pubmed/16500181" \t "_blank)

Williams, G. P., Greenwood, K. M., et al. (2006). "High-Level Mobility Assessment Tool (HiMAT): interrater reliability, retest reliability, and internal consistency." Phys Ther 86(3): 395-400. [Find it on PubMed](http://www.ncbi.nlm.nih.gov/pubmed/16506875" \t "_blank)

Williams, G. P. and Morris, M. E. (2009). "High-level mobility outcomes following acquired brain injury: a preliminary evaluation." Brain Inj 23(4): 307-312. [Find it on PubMed](http://www.ncbi.nlm.nih.gov/pubmed/19330594" \t "_blank)