

**Table 2. AHA Bugher Outcome Measures Table**

<b>Physician/Clinician Reported Outcome Measures</b>										
<b>Global Outcomes/Medical</b>										
<b>Outcome Measure</b>	<b>Description/Domains</b>	<b>Age Range (Years)</b>	<b>Time to Administer (Minutes)</b>	<b>Reporter</b>	<b>Language<sup>a</sup></b>	<b>Contexts</b>	<b>Qualifications<sup>b</sup></b>	<b>Cost</b>	<b>Reliability, Validity and Feasibility Ranking<sup>c</sup></b>	<b>Resource</b>
Pediatric Stroke Outcome Measure (PSOM) <sup>†</sup>	Measures neurological deficit post ischemic stroke in the areas of sensorimotor, language, cognitive/behavior function	0-18	20	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>‡</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	4.66 out of 5	<a href="#">PSOM</a>
Modified Rankin Scale (mRS) <sup>†</sup>	Global outcome rating for patients with stroke, assesses degree of disability (no symptoms to severe disability)	No age requirements	5-15	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>‡</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	2.33 out of 5	<a href="#">mRS</a>
King's Outcome Scale for Childhood Head Injury (KOSCHI) <sup>†</sup>	Global rating of injury severity and recovery after brain injury in children, assesses degree of severity/recovery (death to good recovery)	2-16 <i>(May be used in children under 2yrs)</i>	15	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>‡</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	3 out of 5	<a href="#">KOSCHI</a>
Follow-up Seizure Form <sup>2</sup>	Seizure frequency and severity recorded by parents and pediatric neurologist	0-18	20	<input checked="" type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>‡</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	Not ranked	None
<b>Patient and Family Reported Outcome Measures</b>										
<b>Medical/Physical Recovery</b>										
Pediatric Stroke Recurrence and Recovery Questionnaire (RRQ) <sup>†</sup>	Measures neurological deficit post ischemic stroke in the areas of sensorimotor, language, cognitive/behavior. PSOM converted to a telephone interview	0-18	20	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>‡</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	4 out of 5	<a href="#">RRQ</a>

Outcome Measure	Description/Domains	Age Range (Years)	Time to Administer (Minutes)	Reporter	Language <sup>a</sup>	Contexts	Qualifications <sup>b</sup>	Cost	Reliability, Validity and Feasibility Ranking <sup>c</sup>	Resource
<b>Patient Reported Outcomes Measurement Information System (PROMIS)</b>										
Fatigue	Range of symptoms, from mild subjective feelings of tiredness to an overwhelming, debilitating, and sustained sense of exhaustion	5-18+	2-19	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>  <a href="#">PROMIS Adult Measure</a>
Sleep-Related Impairment	Assesses perceptions of sleepiness during usual awake hours and reported impairments during the day associated with sleep problems or daytime sleepiness	1-18+	2	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>  <a href="#">PROMIS Adult Measure</a>
Sleep Disturbance	Perceived sleep quality, sleep onset (difficulties falling asleep), sleep continuity (difficulties staying asleep)	1-18+	2-5	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>  <a href="#">PROMIS Adult Measure</a>
Pain – Interference	Consequences of pain on relevant aspects of one’s life	5-18+	2-8	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	Home, Social	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>  <a href="#">PROMIS Adult Measure</a>
Pain Intensity	Physical health and intensity of pain	18+	1	<input type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	Home, Social	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Adult Measure</a>

<b>Motor</b>										
<b>Outcome Measure</b>	<b>Description/Domains</b>	<b>Age Range (Years)</b>	<b>Time to Administer (Minutes)</b>	<b>Reporter</b>	<b>Language<sup>a</sup></b>	<b>Contexts</b>	<b>Qualifications<sup>b</sup></b>	<b>Cost</b>	<b>Reliability, Validity and Feasibility Ranking<sup>c</sup></b>	<b>Resource</b>
<b>Patient Reported Outcomes Measurement Information System (PROMIS)</b>										
Physical Function: Mobility	Activities of physical mobility such as getting out of bed or a chair to activities such as running	5-18+	2-9	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	Home	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>  <a href="#">PROMIS Adult Measure</a>
Physical Function	Self-reported capability rather than actual performance of physical activities.	18+	2-33	<input type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	Home	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Adult Measure</a>
<b>Emotional/Social</b>										
<b>Patient Reported Outcomes Measurement Information System (PROMIS)</b>										
Emotional Distress - Anxiety	Fear, anxious misery, hyperarousal, and somatic symptoms	1-18+	2-5	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>  <a href="#">PROMIS Adult Measure</a>
Emotional Distress - Depressive Symptoms/Depression	Negative mood, views of self, social cognition, and decreased positive affect	1-18+	2-5	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration! <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>  <a href="#">PROMIS Adult Measure</a>

Outcome Measure	Description/Domains	Age Range (Years)	Time to Administer (Minutes)	Reporter	Language <sup>a</sup>	Contexts	Qualifications <sup>b</sup>	Cost	Reliability, Validity and Feasibility Ranking <sup>c</sup>	Resource
<b>Patient Reported Outcomes Measurement Information System (PROMIS)</b>										
Peer Relationships	Quality of relationships with friends and other acquaintances	1-17	2	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	Social	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Parent Proxy Measure</a>  <a href="#">PROMIS Pediatric Measure</a>
Ability to Participate in Social Roles and Activities	Perceived ability to perform one's usual social roles and activities	18+	2-7	<input type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	Social	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and some Spanish versions	4 out of 5	<a href="#">PROMIS Adult Measure</a>
<b>Behavioral/Cognitive</b>										
Behavior Rating Inventory of Executive Function – Preschool Version (BRIEF-P) <sup>†</sup>	Executive function and self-regulation in pre-school aged children. Includes Inhibitory Self-Control Index, Flexibility Index, and Emergent Metacognition Index	2-5.9	10-15	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input checked="" type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	Not ranked	<a href="#">BRIEF-P</a>
Behavior Rating Inventory of Executive Function (BRIEF-2) <sup>†</sup>	Executive function and self-regulation in children and teens. Includes Behavioral Regulation Index, Emotional Regulation Index and Cognitive Regulation Index	5-18	10	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input checked="" type="checkbox"/> Self-report <input checked="" type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	4.33 out of 5	<a href="#">BRIEF-2</a>
<b>Adaptive/Independence</b>										
Participation and Environment Measure for Children and Youth (PEM-CY)	Evaluates participation in the home, at school, and in the community, alongside environmental factors within each of these settings	5-17	30	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input checked="" type="checkbox"/> Other	Home, School, Community	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Yes	Not ranked	<a href="#">PEM-CY</a>
<b>Socio-demographic/SES</b>										
Social Determinants of Health Form <sup>2</sup>	Parent questionnaire to record demographic, socio-economic information, family history, and barriers to healthcare	0-18	15	<input type="checkbox"/> Clinician <input checked="" type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	Home, Community	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	Not ranked	None

# Performance Based Outcome Measures

## Motor

Outcome Measure	Description/Domains	Age Range (Years)	Time to Administer (Minutes)	Reporter	Language <sup>a</sup>	Contexts	Qualifications <sup>b</sup>	Cost	Reliability, Validity and Feasibility Ranking <sup>c</sup>	Resource
<b>NIH Toolbox-Motor Battery</b>										
Grip Strength Test <sup>3</sup>	Upper extremity strength	3+	3	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	Yes	Not ranked	<a href="#">NIH Toolbox-Motor Battery</a>
9-hole Pegboard Dexterity Test <sup>3</sup>	Fine motor dexterity	3+	4	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	Yes	Not ranked	<a href="#">NIH Toolbox-Motor Battery</a>
2-Minute Walk Endurance Test	Overall physical fitness and endurance	3+	4	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	Yes	Not ranked	<a href="#">NIH Toolbox-Motor Battery</a>
4-Meter Walk Speed Test	Locomotion	7+	3	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	Yes	Not ranked	<a href="#">NIH Toolbox-Motor Battery</a>

Cognitive										
Outcome Measure	Description/Domains	Age Range (Years)	Time to Administer (Minutes)	Reporter	Language <sup>a</sup>	Contexts	Qualifications <sup>b</sup>	Cost	Reliability, Validity and Feasibility Ranking <sup>c</sup>	Resource
<b>NIH Toolbox-Cognition Battery</b>										
Dimensional Change Card Sort Test (DCCS)	Cognitive flexibility and attention	4+	4	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <a href="#">Free online training</a>	Yes	4 out of 5	<a href="#">NIH Toolbox-Cognition Battery</a>
Flanker Inhibitory Control and Attention Test	Inhibitory control and attention	4+	3	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <a href="#">Free online training</a>	Yes	4 out of 5	<a href="#">NIH Toolbox-Cognition Battery</a>
Picture Sequence Memory Test (PSMT)	Episodic memory	3+	7	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <a href="#">Free online training</a>	Yes	4 out of 5	<a href="#">NIH Toolbox-Cognition Battery</a>
Picture Vocabulary Test (PVT)	Receptive vocabulary	3+	3	<input checked="" type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Spanish <input type="checkbox"/> Other	None	Requirements for purchase <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <a href="#">Free online training</a>	Yes	4 out of 5	<a href="#">NIH Toolbox-Cognition Battery</a>

<sup>a</sup> Outcome measure language is based on available language versions listed on the test vendor's website. Further language versions may be available through other resources.

<sup>b</sup> Outcome measures should always be administered with appropriate training and supervision by qualified professionals as determined by legal and ethical guidelines and the research or clinical team based on project, institutional or patient population considerations. Training information is available through the outcome measures website.

<sup>c</sup> The reliability, validity and feasibility ranking is based on the outcomes measure score that was assigned by Feldman SJ, Beslow LA, Felling RJ, et al.<sup>19</sup> in their Pediatric Neurology article titled, *Consensus-Based Evaluation of Outcome Measures in Pediatric Stroke*. Ranking score defined: 5=Highly recommend, 4=Recommend, 3=Recommend, nonpreferred, 2=Unable to recommend at this time, 1=Do not recommend.

<sup>1</sup> The administration of outcome measures requires specific professional qualifications for certain measures (cognitive performance measures require a C-Level qualification including a state licensure and/or doctorate in psychology, education or related field with formal training in the ethical administration, scoring, and interpretation of clinical assessments); in general, it may vary based on legal and ethical requirements, best practices and in some instances, on institutional policies

<sup>2</sup> These forms are unpublished and were developed by International Pediatric Stroke Study (IPSS) researchers for use in research studies

<sup>3</sup> The NIH Toolbox Grip Strength Test and 9-hole Pegboard Dexterity Test requires purchase of a dynamometer and a 9-hole peg board in addition to the NIH Toolbox subscription.

<sup>†</sup> Outcome measure has been used in a prior hemorrhagic stroke study, as identified in the systematic review by Yale, et al.<sup>17</sup>