

**Table 1. Outcome Measures Toolkit Resource**

<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>1</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>1</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 2 yrs)</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>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	3 out of 5	<a href="#">KOSCHI</a>
Pediatric National Institutes of Health Stroke Scale (PedNIHSS) <sup>†</sup>	Measures level of severity of pediatric ischemic stroke (consciousness, visual, motor, sensation, language)	2-18	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>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	Not ranked	<a href="#">PedNIHSS</a>
<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>1</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
Patient Reported Outcome Measurement Information System (PROMIS)	<ul style="list-style-type: none"> <li>• <i>Fatigue</i></li> <li>• <i>Pain – Interference</i></li> <li>• <i>Sleep-Related Impairment</i></li> <li>• <i>Sleep Disturbance</i></li> </ul>	5-18+  1-18+	2-19 2-8  2 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	Pain: Home, 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>  <a href="#">PROMIS Adult Measure</a>
Quality of Life in Neurological Disorders (Neuro-QOL)	<ul style="list-style-type: none"> <li>• <i>Fatigue</i></li> </ul>	8-18+	2-4	<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 <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and Spanish versions	4 out of 5	<a href="#">Neuro-QOL Self-Report or Parent Proxy Measure</a>  <a href="#">Neuro-QOL Adult Measure</a>
<b>Motor</b>										
Patient Reported Outcome Measurement Information System (PROMIS)	<ul style="list-style-type: none"> <li>• <i>Physical Function: Mobility</i></li> <li>• <i>Physical Function: Upper Extremity</i></li> <li>• <i>Physical Activity</i></li> <li>• <i>Strength Impact</i></li> </ul>	5-18+  1-17 5-17	2-9  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	Mobility, Upper Extremity Physical Function, Strength: Home	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>  <a href="#">PROMIS Adult Measure</a>
Quality of Life in Neurological Disorders (Neuro-QOL)	<ul style="list-style-type: none"> <li>• <i>Upper Extremity – Fine Motor, ADL</i></li> <li>• <i>Lower Extremity – Mobility</i></li> </ul>	8-18+	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	Activities of daily living: Home	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 Spanish versions	4 out of 5	<a href="#">Neuro-QOL Self-Report or Parent Proxy Measure</a>  <a href="#">Neuro-QOL Adult Measure</a>

Emotional/Social										
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
Patient Reported Outcome Measurement Information System (PROMIS)	<ul style="list-style-type: none"> <li>• <i>Emotional Distress - Anxiety</i></li> <li>• <i>Emotional Distress -Depressive Symptoms/ Depression</i></li> <li>• <i>Global Health: Overall evaluation of physical, mental and social health</i></li> </ul>	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	Peer Relationships and Global Health: 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>  <a href="#">PROMIS Adult Measure</a>
		1-17	2							
Quality of Life in Neurological Disorders (Neuro-QOL)	<ul style="list-style-type: none"> <li>• <i>Anxiety</i></li> <li>• <i>Depression</i></li> <li>• <i>Social Relations-Interaction with Peers</i></li> </ul>	8-18+	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	Social Relations: 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 Spanish versions	4 out of 5	<a href="#">Neuro-QOL Self-Report or Parent Proxy Measure</a>  <a href="#">Neuro-QOL Adult Measure</a>
		8-17	2							
Children's Depression Inventory 2 (CDI 2)	Assesses cognitive, affective and behavioral signs of depression in children and adolescents	7-17	15	<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 type="checkbox"/> Spanish <input type="checkbox"/> Other	School, Social	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	3.66 out of 5	<a href="#">CDI 2</a>
Beck Depression Inventory (BDI-2)	Measures severity of depression in adolescents and adults	13-80	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 type="checkbox"/> Other	Social	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="#">BDI-2</a>
Multidimensional Anxiety Scale for Children (MASC 2)	Assesses symptoms of anxiety disorders in youth	8-19	15	<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 type="checkbox"/> Spanish <input type="checkbox"/> Other	Social	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="#">MASC 2</a>

## Behavioral/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
Behavior Assessment System for Children (BASC-3)	Broadband assessment of behavior and emotional function and adjustment in children and adolescents. Includes problem scales and adaptive skills	2-25	10-30	<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	Home, School, Community	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="#">BASC-3</a>
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>
Quality of Life in Neurological Disorders (Neuro-QOL)	<ul style="list-style-type: none"> <li>• <i>Cognitive function</i></li> </ul>	8-18+	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 <sup>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <a href="#">Free online training</a>	No cost for English and Spanish versions	4 out of 5	<a href="#">Neuro-QOL Self-Report or Parent Proxy Measure</a>  <a href="#">Neuro-QOL Adult Measure</a>
Conners 3 <sup>rd</sup> Edition (Conners 3)	Screening for attention problems. Scoring option for the DSM-5 Symptom Scales with a focus on ADHD and associated features	6-18	5-20	<input type="checkbox"/> Clinician <input 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	Home, School, Community	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="#">Conners 3</a>
National Institute for Children's Health Quality (NICHQ) Vanderbilt Assessment Scales	Screening for ADHD diagnosis in children	6-12	15-20	<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 type="checkbox"/> Spanish <input type="checkbox"/> Other	School, Home	Requirements for purchase <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No	3.66 out of 5	<a href="#">NICHQ Vanderbilt Assessment Scales</a>

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Sensory Profile 2	Evaluates sensory processing patterns in the context of home, school, and community-based activities	0-14	5-20	<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	Home, School, Community	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="#">Sensory Profile 2</a>
Sensory Processing Measure Second Edition (SPM-2)	Measures sensory integration and processing difficulties in multiple environments	0.3-87	20-30 ( <i>each main form</i> )  10 ( <i>each environment form</i> )	<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	Home, School	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="#">SPM-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>
Pediatric Quality of Life Inventory (PedsQL) <sup>†</sup>	Health related quality of life. Scales include physical, emotional, social, and school functioning	2-18	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	School	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	4 out of 5	<a href="#">PedsQL</a>
Adaptive Behavior Assessment System (ABAS-3)	Assesses adaptive skills across the life span	0-89	15-20	<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	Home, School, Community	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	4.66 out of 5	<a href="#">ABAS-3</a>
School Function Assessment (SFA)	Evaluates participation, support needs, and performance of functional, nonacademic tasks and activities that affect academic and social aspects of school environment	Kindergarten – Grade 6	5-10	<input type="checkbox"/> Clinician <input type="checkbox"/> Caregiver <input type="checkbox"/> Self-report <input checked="" type="checkbox"/> Teacher	<input checked="" type="checkbox"/> English <input type="checkbox"/> Spanish <input type="checkbox"/> Other	School, Social, Home	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="#">SFA</a>
Functional Independence Measure for Children (WeeFIM II) <sup>†</sup>	Measures functional ability that documents self-care, functional mobility, and cognitive abilities	0.5-7  7+ in children with disabilities & delays in functional development	10	<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	Activities of daily living: Home, Social	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="#">WeeFIM II</a>

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Pediatric Evaluation of Disability Inventory (PEDI)	Measures capability and performance of self-care, mobility and social function	0.5 -7 or children whose functional abilities are lower than those of 7yr-olds without disabilities	45-60	<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	Activities of daily living: Social	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="#">PEDI</a>

## Performance Based Outcome Measures

### Motor

NIH Toolbox– Motor Battery	<ul style="list-style-type: none"> <li>• <i>Grip Strength Test</i><sup>2</sup> (upper extremity strength)</li> <li>• <i>9-hole Pegboard Dexterity Test</i><sup>2</sup> (fine motor dexterity)</li> <li>• <i>2-Minute Walk Endurance Test</i> (overall fitness and endurance)</li> <li>• <i>Standing Balance Test</i> (balance)</li> <li>• <i>4-Meter Walk Speed Test</i> (locomotion)</li> </ul>	3+    7+	3 4 4 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>
6 Minute Walk Test	Aerobic capacity and endurance	2-12  18-65+	<10	<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>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	3 out of 5	<a href="#">6 Minute Walk Test</a>
10 Meter Walk Test	Walking speed over a short distance	2-64	5	<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>1</sup> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No	Not ranked	<a href="#">10 Meter Walk Test</a>
Peabody Developmental Motor Scales, Third Edition (PDMS-3)	Assesses gross and fine motor skills. Subtests include: body control, body transport, object control, hand manipulation, eye-hand coordination	0-5	60-90	<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 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="#">PDMS-3</a>

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Bruininks-Oseretsky Test of Motor Proficiency (BOT-2)	Measures gross and fine motor skills. Subtests include: fine motor precision, fine motor integration, manual dexterity, bilateral coordination, balance, running speed and agility, upper-limb coordination, strength	4-21	15-60	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.33 out of 5	<a href="#">BOT-2</a>
Gross Motor Function Measure (GMFM-88 & GMFM-66)	Assesses gross motor function in 5 dimensions, including, lying/rolling, sitting, crawling/kneeling, standing, walking/running/jumping	0.4 – 16	45-60 (GMFM-88)  20-30 (GMFM-66)	<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>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No	4.33 out of 5	<a href="#">GMFM-88 &amp; GMFM-66</a>
<b>General Cognitive Ability/Broadband Developmental Measures</b>										
Wechsler Preschool and Primary Scale of Intelligence (WPPSI-IV)	Measures cognitive development and intellectual ability in preschoolers and young children	2-7	30-60	<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	Yes	4.33 out of 5	<a href="#">WPPSI-IV</a>
Wechsler Intelligence Scale for Children (WISC-V) <sup>†</sup>	Measures intellectual ability and 5 cognitive domains that impact performance in children	6-16	60	<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	Yes	4.33 out of 5	<a href="#">WISC-V</a>
Wechsler Abbreviated Scale of Intelligence (WASI-II) <sup>†</sup>	Measures general cognitive/intellectual ability in clinical, educational, and research settings across the life span	6-90	15-30	<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	Yes	Not ranked	<a href="#">WASI-II</a>
Wechsler Adult Intelligence Scale (WAIS-IV)	Measures general cognitive/intellectual ability in adults	16-90	60-90	<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 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="#">WAIS-IV</a>
NEPSY-II	Assesses executive function/attention, language, memory/learning, sensorimotor functioning, visuospatial processing, and social perception	3-16	45-60 (General Assessment)  90-180 (Full Assessment)	<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 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="#">NEPSY-II</a>

Attention/Executive Functions										
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
NIH Toolbox-Cognition Battery	<ul style="list-style-type: none"> <li>• <i>Dimensional Change Card Sort Test</i> (cognitive flexibility and attention)</li> <li>• <i>Flanker Inhibitory Control and Attention Test</i> (inhibitory control and attention)</li> </ul>	4+	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>
Delis-Kaplan Executive Function System (D-KEFS)	Assesses key components of executive functions in verbal and visual domains	8-89	90	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.66 out of 5	<a href="#">D-KEFS</a>
Test of Everyday Attention for Children, Second Edition (TEA-Ch2)	Measures attention	5-15	35-55	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.66 out of 5	<a href="#">TEA-Ch2</a>
Memory										
NIH Toolbox-Cognition Battery	<ul style="list-style-type: none"> <li>• <i>Picture Sequence Memory Test</i> (nonverbal memory)</li> </ul>	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>
California Verbal Learning Test (CVLT-C/CVLT-3)	Verbal auditory learning and memory <ul style="list-style-type: none"> <li>• <i>CVLT-C: Children's version</i></li> <li>• <i>CVLT-3: Adult version</i></li> </ul>	5-16 16-90	35-40	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	4.66 out of 5	<a href="#">CVLT-C</a> <a href="#">CVLT-3</a>
Children's Memory Scale (CMS)	Comprehensive learning and memory assessment for verbal and visual domains	5-16	30	<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 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="#">CMS</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
Wechsler Memory Scale, Fourth Edition (WMS-IV)	Measures verbal and visual memory and working memory	16-90	120	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.33 out of 5	<a href="#">WMS-IV</a>
Child and Adolescent Memory Profile (ChAMP)	Assesses visual and verbal memory	5-21	30-40 ( <i>Full Assessment</i> )  10-15 ( <i>Screening Index</i> )	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.33 out of 5	<a href="#">ChAMP</a>
<b>Language</b>										
NIH Toolbox-Cognition Battery	• <i>Picture Vocabulary Test</i> (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>
Clinical Evaluation of Language Fundamentals (CELF-5)	Measures semantics, morphology, syntax and pragmatics of language	5-21	30-45	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.66 out of 5	<a href="#">CELF-5</a>
Peabody Picture Vocabulary Test, Fifth Edition (PPVT-5)	Receptive vocabulary	2.5-90+	10-15	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.66 out of 5	<a href="#">PPVT-5</a>
Expressive Vocabulary Test, Third Edition (EVT)	Expressive vocabulary	2.5-90+	10-15	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.66 out of 5	<a href="#">EVT-3</a>
Token Test for Children (TTFC-2)	Receptive language	3-12	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 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="#">TTFC-2</a>

Visual-Spatial/Nonverbal										
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
NIH Toolbox-Cognition Battery	• <i>Visual Reasoning Test</i> (nonverbal reasoning)	4+	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>
Beery-Buktencia Developmental Test of Visual-Motor Integration, Sixth Edition (BEERY VMI)	Assesses integration of visual and motor abilities	2-99	10-15	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	3.66 out of 5	<a href="#">BEERY VMI</a>
Rey-Osterrieth Complex Figure Test and Recognition Trial (RCFT)	Visuospatial organization and memory	6-89	45	<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 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="#">RCFT</a>
Academic Achievement										
Wechsler Individual Achievement Test, Fourth Edition (WIAT-4)	Academic achievement including comprehensive listening, speaking, reading, writing, and math skills	4-50	45-120	<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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Requirements for administration <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yes	4.66 out of 5 <sup>*</sup>	<a href="#">WIAT-4</a>
<p><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.</p> <p><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.</p> <p><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, <i>Consensus-Based Evaluation of Outcome Measures in Pediatric Stroke</i>. Ranking score defined: 5=Highly recommend, 4=Recommend, 3=Recommend, nonpreferred, 2=Unable to recommend at this time, 1=Do not recommend.</p> <p><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</p> <p><sup>2</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.</p> <p><sup>4</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></p> <p><sup>*</sup> Ranking provided for WIAT-III</p>										