



**NIH Resources**

The NINDS also strongly encourages researchers to use these NIH developed materials for NINDS-sponsored research, when appropriate. Utilization of these resources will enable greater consistency for NINDS-sponsored research studies. These tools are free of charge.

- National Institutes of Health (NIH) Toolbox
- Quality of Life in Neurological Disorders (Neuro-QOL)
- Patient-Reported Outcomes Measurement Information System (PROMIS)

**Suicidal Ideation**

Investigators should review the FDA’s ["Guidance for Industry: Suicidal Ideation and Behavior: Prospective Assessment of Occurrence in Clinical Trials"](#) for the most up-to-date information about suicidal ideation and behavior. One scale that FDA suggests is the Columbia Suicide Severity Rating Scale (C-SSRS) (available at [Columbia Suicide Severity Rating Scale](#)).

Disease/Domain; Subdomain	Recommendations and List of Forms
NeuroRehab	<p><b>Core and Supplemental-Highly Recommended CDEs:</b></p> <p>See Start-Up Resource Listing document: <a href="#">NeuroRehab Start-Up Resource Listing</a></p> <p><a href="#">Guidance for Industry: Suicidal Ideation and Behavior: Prospective Assessment of Occurrence in Clinical Trials</a></p>
Participant Characteristics/ Demographics	<p><b>General Core:</b> General Core</p> <p><b>NeuroRehab Core:</b> Infant Pediatrics Demographics</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> N/A</p>
Assessments and Examinations/ Autonomic	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Composite Autonomic Symptom Scale</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
Assessments and Examinations/ Comorbidities	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Boston Naming Test (BNT) - 30-item version; PROMIS Alcohol Use Item Banks (PROMIS Bank v1.0 - Alcohol - Negative Expectancies); PROMIS Dyspnea Item Banks (PROMIS Bank v1.0 - Dyspnea Functional Limitations)</p>
Assessments and Examinations/ General and Motor	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> Assessments and Examinations Demographic and Clinical Conditions</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Assessments and Examinations Demographic and Clinical Conditions; Fugl-Meyer Assessment; Functional Gait Assessment</p>
Assessments and Examinations/ Other Clinical Data	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab Sport Related Concussion Core:</b> Immediate Post-Concussion Assessment and Cognitive Testing (imPACT); Post Concussion Symptom Scale</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Brief Symptom Inventory-18 (BSI-18); Patient-Reported Outcomes Measurement Information System (PROMIS); Rivermead Post-Concussive Symptoms Questionnaire (RPQ)</p>
Assessments and Examinations/ Physical/Neurological Examination	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab Stroke Core:</b> NIH Stroke Scale (NIHSS)</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Glasgow Coma Scale (GCS)</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
<b>Treatment/Intervention Data/ Devices</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Devices: Communication; Devices: Mobility and Manipulation</p>
<b>Outcomes and End Points/ Academic/Intellectual Functioning</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Test of Premorbid Functioning; Wechsler Adult Intelligence Scale - Fourth Edition (WAIS-IV); Word Reading Subtest of the Wide Range Achievement Test (WRAT-4)</p>
<b>Outcomes and End Points/ Activities of Daily Living/Performance</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Barthel Index; Functional Independence Measure (FIM)</p>
<b>Outcomes and End Points/ Amnesia/Coma</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Galveston Orientation and Amnesia Test (GOAT); JFK Coma Recovery Scale- Revised</p>
<b>Outcomes and End Points/ Attention/Working Memory</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Letter-Number Sequencing Subtest; NIH Toolbox Flanker Inhibitory Control Attention Test; Wechsler Adult Intelligence Scale-Fourth Edition (WAIS-IV) - Digit Span Subtest</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
Outcomes and End Points/ Behavioral Function	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Alcohol Use Disorders Identification Test: Self-Report Version (AUDIT); Frontal Behavioral Inventory (FBI); Frontal Systems Behavioral Scale (FrSBe)</p>
Outcomes and End Points/ Cognitive Activity Limitations	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Functional Independence Measure - Cognition Subscale (Cog-FIM); PROMIS Cognitive Function Item Banks (PROMIS Bank v2.0 - Cognitive Function; PROMIS Bank v2.0 - Cognitive Function - Abilities)</p>
Outcomes and End Points/ Cognitive Assessment	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Brief Test of Adult Cognition by Telephone (BTACT); NIH Toolbox Cognitive Battery; Repeatable Battery for Assessment of Neuropsychological Status (RBANS)</p>
Outcomes and End Points/ Communication	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Stroke and Aphasia Quality of Life-39 (SAQOL-39)</p>
Outcomes and End Points/ Disease-Specific Health-Related Quality of Life	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> HDQLIFE; Headache Impact Test-6 (HIT-6); Myotonic Dystrophy Health Index (MDHI); Parkinson's Disease Quality of Life Scale (PDQUALIF); Spinal Cord Injury - Quality of Life (SCI-QOL); Traumatic Brain Injury - Quality of Life (TBI-QOL)</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
Outcomes and End Points/ Dysphagia	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Huntington's Disease Dysphasia Scale; Quality of Life in Swallowing Disorders (SWAL-QOL); Swallowing Disturbance Questionnaire (SDQ)</p>
Outcomes and End Points/ Emotional and Cognitive Status	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> PROMIS Self-Efficacy for Managing Chronic Conditions Item Bank (PROMIS Bank v1.0 - Self-Efficacy for Managing Emotions)</p>
Outcomes and End Points/ Emotional Impairment	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Apathy Evaluation Scale; Beck Anxiety Inventory (BAI); Beck Depression Inventory II (BDI-II)</p>
Outcomes and End Points/ Emotional/Behavioral	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> NIH Toolbox Emotional Battery; PROMIS Anxiety Item Bank (PROMIS Bank v1.0 - Anxiety); PROMIS Depression Item Bank (PROMIS Bank v1.0 - Depression)</p>
Outcomes and End Points/ Executive Functioning	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Five-Point Test (5-PT); Stroop Test</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
<b>Outcomes and End Points/ Eye Hand Motor</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Grooved Pegboard Test</p>
<b>Outcomes and End Points/ Functional Outcomes</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> 10 Meter Timed Walk; Box and Blocks Test of Manual Dexterity; Timed Up and Go (TUG)</p>
<b>Outcomes and End Points/ Generic Health-Related Quality of Life</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> PROMIS-29 Profile; Short Form 36-Item Health Survey (SF-36); World Health Organization Quality of Life Assessment (WHOQOL-BREF)</p>
<b>Outcomes and End Points/ Global Health-Related Quality of Life Outcome</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> PROMIS Scale v1.2 - Global Health; Quality of Life in Neurological Disorders (Neuro-QOL)</p>
<b>Outcomes and End Points/ Instrumental Activities of Daily Living</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Assessment of Life Habits (LIFE-H)</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
Outcomes and End Points/ Language	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Animal Naming; Controlled Oral Word Association Test (COWAT) Subtest of the Multilingual Aphasia Examination (MAE); Token Test; Western Aphasia Battery Revised</p>
Outcomes and End Points/ Memory	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Brief Visuospatial Memory Test Revised (BVM-T-R); Hopkins Verbal Learning Test - Revised (HVL-T-R); Rey Auditory Verbal Learning Test (RAVLT)</p>
Outcomes and End Points/ Mood/Anxiety	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Generalized Anxiety Disorder (GAD-7); Hospital Anxiety and Depression Scale (HADS); Patient Health Questionnaire - 9 (PHQ-9) Depression Scale</p>
Outcomes and End Points/ Pain	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Brief Pain Inventory (Short Form); PROMIS Pain Behavior Item Bank and Short Form (PROMIS Bank v2.0 - Pain Behavior); PROMIS Pain Interference Item Bank (PROMIS Bank v1.1 - Pain Interference)</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
Outcomes and End Points/ Participation	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> PROMIS Ability to Participate Item Bank and Short Forms (PROMIS Item Bank v2.0 - Ability to Participate in Social Roles and Activities; PROMIS Short Form v2.0 - Ability to Participate in Social Roles and Activities 4a; PROMIS Short Form v2.0 - Ability to Participate in Social Roles and Activities 6a; PROMIS Short Form v2.0 - Ability to Participate in Social Roles and Activities 8a); PROMIS v2.0 - Satisfaction with Social Roles and Activities</p>
Outcomes and End Points/ Pediatric	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> Pediatric Quality of Life Inventory (PedsQL); Strengths and Difficulties Questionnaire (SDQ), combined Full and Followup versions</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> N/A</p>
Outcomes and End Points/ Performance Validity Tests	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Medical Symptom Validity Test (MSVT); Test of Memory Malingering (TOMM); Victoria Symptom Validity Test (VSVT)</p>
Outcomes and End Points/ Physical Function	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> 2 Minute Walk Test; 6 Minute Walk Test; Borg Rating of Perceived Exertion (RPE) Scale</p>
Outcomes and End Points/ Processing Speed	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Processing Speed Index of the Wechsler Adult Intelligence Scale-Fourth Edition (WAIS-IV); Symbol Digit Modalities Test; Trail Making Test</p>





Disease/Domain; Subdomain	Recommendations and List of Forms
<b>Outcomes and End Points/ Psychiatric and Psychological Functions</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Apathy Scale (AS); Columbia - Suicide Severity Rating Scale (C-SSRS); Impact of Event Scale (IES)</p>
<b>Outcomes and End Points/ Psychiatric and Psychological Status</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Alcohol, Smoking, and Substance Use Involvement Screening Test (ASSIST); PTSD Checklist for DSM-5 (PCL-5); Structured Clinical Interview for DSM-5 Axis I Disorders Research Version (SCID-5-RV)</p>
<b>Outcomes and End Points/ Psychological Status</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Center for Epidemiologic Studies-Depression Scale (CES-D); Hamilton Anxiety Rating Scale (HAM-A); Hamilton Depression Rating Scale (HDRS)</p>
<b>Outcomes and End Points/ Screening</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Mini-Mental State Examination (MMSE); Montreal Cognitive Assessment (MoCA); Telephone Interview for Cognitive Status (TICS)</p>
<b>Outcomes and End Points/ Sleep</b>	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Neuro-QOL Adult Bank - Sleep Disturbance; PROMIS Sleep Item Banks (PROMIS Bank v1.0 - Sleep Disturbance; PROMIS Bank v1.0 - Sleep-Related Impairment)</p>



Disease/Domain; Subdomain	Recommendations and List of Forms
Outcomes and End Points/ Speech	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Acoustic Analysis of Speech; Voice Handicap Index (VHI); Assessment of Intelligibility of Dysarthric Speech (AIDS)</p>
Outcome and End Points/ Trunk Control/Balance	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Activities Specific Balance Confidence Scale (ABC-Scale); Berg Balance Scale (BBS); Mini-Balance Evaluation Systems Test (Mini-BESTest)</p>
Outcomes and End Points/ Visual	<p><b>General Core:</b> N/A</p> <p><b>NeuroRehab Core:</b> N/A</p> <p><b>NeuroRehab [Disease] Core:</b> N/A</p> <p><b>NeuroRehab Supplemental-Highly Recommended:</b> Judgment of Line Orientation (Benton JLO); Rey-Osterrieth Complex Figure Test (ROCF)</p>