

nonizing information. Streamlining research. Stroke CDE Highlight Summary

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	Recommendations and List of Forms
Stroke	Core CDEs:
	See Start-Up Resource Listing document: Stroke Start-Up Resource Listing
	Guidance for Industry: Suicidal Ideation and Behavior: Prospective Assessment of Occurrence in Clinical Trials
	NIH Stroke Scale (NIHSS) (Ischemic Stroke only)
	Supplemental-Highly Recommended- for indicated study types:
	Boston Naming Test (BNT) - 30-item version; Delis-Kaplan Executive Function System (D-KEFS); EuroQoL-5 Dimension Questionnaire (EQ-5D); Fugl-Meyer Assessment; Glasgow Coma Scale (GCS); Modified Rankin Scale (mRS); Montreal Cognitive Assessment (MoCA); NIH Stroke Scale (NIHSS); Patient Health Questionnaire - 9 (PHQ-9) Depression Scale; Patient-Reported Outcomes Measurement Information System (PROMIS); PROMIS Item Bank v1.2 - Global Health; PROMIS-29; Quality of Life in Neurological Disorders (Neuro-QOL); Questionnaire for Verifying Stroke-Free Status (QVSFS); Stroke and Aphasia Quality of Life-39 (SAQOL-39); Walking Speed; Western Aphasia Battery Revised
	Supplemental-Highly Recommended- for pediatric studies:
	Pediatric Stroke Outcomes Measure Short Neuro Exam (PSOM-SNE) - Child Version (Children Aged 2 Year and Older) or Infant Version (Infants Term Birth to Two Years)
Participant Characteristics/ Demographics	Core: General Core; Demographics
	Supplemental-Highly Recommended: General Core
	Supplemental: Demographics
	Exploratory: Demographics



Disease/Domain	Recommendations and List of Forms
Participant Characteristics/Social	Core: N/A
	Supplemental-Highly Recommended: N/A
Status	Supplemental: Social Status
	Exploratory: Social Status
Participant History and	Core: Medical History; Prior Functional Status; Pregnancy and Perinatal History
Family History/General Health History	Supplemental-Highly Recommended: Behavioral History; Family History; Medical History; Pregnancy and Perinatal History
	Supplemental: Behavioral History; Family History; History Data Source and Reliability; Medical History; Prior Functional Status
	Exploratory: Family History; Medical History; Pregnancy and Perinatal History;
Disease/Injury Related	Core: N/A
Events/History of Disease/Injury Event	Supplemental-Highly Recommended: Hospital Arrival/Admission; Pre-Hospital/Emergency Medical Service (EMS) Course
	Supplemental: Hospital Arrival/Admission; Pre-Hospital/Emergency Medical Service (EMS) Course; Assessment of Transient Neurologic Deficits Resolved Prior to Presentation
	Exploratory: Hospital Arrival/Admission
Disease/Injury Related	Core: Stroke Types and Subtypes
Events/Classification	Supplemental-Highly Recommended: Stroke Types and Subtypes
	Supplemental: Stroke Types and Subtypes
	Exploratory: N/A
Disease/Injury Related	Core: N/A
Events/Discharge Information	Supplemental-Highly Recommended: Hospital Discharge
Information	Supplemental: Hospital Discharge
	Exploratory: N/A
Assessments and	Core: NIH Stroke Scale (NIHSS) (Ischemic Stroke only)
Examinations/Physical/ Neurological Examination	Supplemental-Highly Recommended: Glasgow Coma Scale (GCS); NIH Stroke Scale (NIHSS)
	Supplemental: Neurobehavioral Symptom Inventory (NSI); Physical/Neurological Exam
	Exploratory: Physical/Neurological Exam



Disease/Domain	Recommendations and List of Forms
Assessments and Examinations/Vital Signs and Other Body Measures	Core: Vital Signs
	Supplemental-Highly Recommended: Vital Signs
	Supplemental: Vital Signs
	Exploratory: N/A
Assessments and	Core: N/A
Examinations/Laboratory Tests and Biospecimens/ Biomarkers	Supplemental-Highly Recommended: Biospecimen Collection and Processing
	Supplemental: Biospecimen Collection and Processing; Laboratory Tests; Laboratory Tests Permissible Values for Stroke (Spreadsheet)
	Exploratory: Biospecimen Collection and Processing
	Guidance Documents: Appendix 1: Biomarker Targets in Stroke; Appendix 2: Biospecimen Standard Operating Procedure Guidance; NINDS Repository Cerebrovascular Data Elements (NINDS-Coriell)
Assessments and	Core: N/A
Examinations/Imaging Diagnostics	Supplemental-Highly Recommended: Perfusion and Penumbral Imaging; Vessel Carotid Ultrasound; Vessel Imaging Angiography
	Supplemental: Aneurysm Location and Dimensions; Cardiac Magnetic Resonance Imaging (MRI); Echocardiogram; Echocardiogram II; Imaging Acquisition; Parenchymal Imaging; Perfusion and Penumbral Imaging; Vessel Carotid Ultrasound; Vessel Imaging Angiography; Vessel Imaging Transcranial
	Exploratory: Aneurysm Location and Dimensions; Parenchymal Imaging; Vessel Imaging Angiography
Assessments and	Core: N/A
Examinations/Non-	Supplemental-Highly Recommended: N/A
Imaging Diagnostics	Supplemental: Electrocardiogram (ECG)
	Exploratory: N/A
Treatment/Intervention	Core: N/A
Data/Drugs	Supplemental-Highly Recommended: Antithrombotics and Risk Factor Controlling Medications; Thrombolytic/Reperfusion Therapies
	Supplemental: Antithrombotics and Risk Factor Controlling Medications; Prior and Concomitant Medications; Thrombolytic/Reperfusion Therapies
	Exploratory: Prior and Concomitant Medications; Thrombolytic/Reperfusion Therapies



Disease/Domain	Recommendations and List of Forms
Treatment/Intervention Data/Surgeries and Other Procedures	Core: N/A
	Supplemental-Highly Recommended: SAH Surgical/Procedural Interventions
	Supplemental: SAH Surgical/Procedural Interventions; Stroke Surgical and Procedural Interventions
	Exploratory: SAH Surgical/Procedural Interventions
Treatment/Intervention Data/Therapies	Core: N/A
	Supplemental-Highly Recommended: Rehabilitation Therapies
	Supplemental: Lifestyle Modification Therapies; Palliative/Comfort Care and End of Life Issues; Rehabilitation Therapies; Unruptured Intracranial Aneurysm Management
	Exploratory: Rehabilitation Therapies; Unruptured Intracranial Aneurysm Management
Outcomes and End	Core: N/A
Points/Activities of Daily Living/Performance	Supplemental-Highly Recommended: Modified Rankin Scale (mRS); Quality of Life in Neurological Disorders (Neuro-QOL)
	Supplemental: Assessment of Motor and Process Skills (AMPS); Barthel Index; Functional Independence Measure; Glasgow Outcome Scale (GOS) and Glasgow Outcome Scale - Extended (GOSE); National Institutes of Health (NIH) Toolbox; Patient-Reported Outcomes Measurement Information System (PROMIS)-Physical Function Assessments
	Exploratory: N/A



Disease/Domain	Recommendations and List of Forms
Outcomes and End Points/ Cognitive Status	Core: N/A
	Supplemental-Highly Recommended: Boston Naming Test (BNT) - 30-item version; Delis-Kaplan Executive Function System (D-KEFS); Montreal Cognitive Assessment (MoCA); Western Aphasia Battery Revised
	Supplemental: Color-Word Interference Test Delis-Kaplan Executive Function System (D-KEFS); Hopkins Verbal Learning Test – Revised (HVLT-R); Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE); Repeatable Battery for Assessment of Neuropsychological Status (RBANS); Rey Auditory Verbal Learning Test (RAVLT); Rey-Osterrieth Complex Figure Test (ROCF); Six-Item Screener; Stroop Test; Telephone Interview for Cognitive Status (TICS); Trail Making Test (TMT), Delis-Kaplan Executive Function System (D-KEFS); Wechsler Adult Intelligence Scale - Fourth Edition IV (WAIS-IV)
	Exploratory: Similarities Subtest of the Wechsler Adult Intelligence Scale-Fourth Edition (WAIS-IV)
Outcomes and End Points/Emotional Status	Core: N/A
	Supplemental-Highly Recommended: Patient Health Questionnaire - 9 (PHQ-9) Depression Scale
	Supplemental: Beck Anxiety Inventory (BAI); Beck Depression Inventory II (BDI-II); Center for Epidemiologic Studies-Depression Scale (CES-D)
	Exploratory: Generalized Anxiety Disorder (GAD-7); Neuropsychiatric Inventory Questionnaire (NPI-Q); PTSD Checklist - Civilian (PCL-C)
Outcomes and End	Core: N/A
Points/Quality of Life/ Patient Reported Outcomes	Supplemental-Highly Recommended: EuroQoL-5 Dimension Questionnaire (EQ-5D); PROMIS Item Bank v1.2 - Global Health; PROMIS-29; Stroke and Aphasia Quality of Life-39 (SAQOL-39)
	Supplemental: Canadian Occupational Performance Measure (COPM); Return to Work; Short Form 36-Item Health Survey (SF-36); Stroke Impact Scale (SIS); Stroke Specific Quality of Life Scale (SS-QOL)
	Exploratory: Home Time; Utrecht Scale for Evaluation of Rehabilitation-Participation (USER-P)



Disease/Domain	Recommendations and List of Forms
Outcomes and End Points/Performance Measures	Core: N/A
	Supplemental-Highly Recommended: Fugl-Meyer Assessment; Walking Speed
	Supplemental: 6 Minute Walk Test; Action Research Arm Test; Animal Naming; Berg Balance Scale (BBS); Brief Visuospatial Memory Test Revised (BVMT-R); Controlled Oral Word Association Test (COWAT) Subtest of the Multilingual Aphasia Examination (MAE); Grooved Pegboard Test; Motor Evaluation Scale for Upper Extremity in Stroke Patients (MESUPES); Token Test
	Exploratory: N/A
Outcomes and End	Core: N/A
Points/Pediatric	Supplemental-Highly Recommended: Pediatric Stroke Outcome Measure Short Neuro Exam (PSOM-SNE) - Child Version (Children Aged 2 Year and Older); Pediatric Stroke Outcome Measure Short Neuro Exam (PSOM-SNE) - Infant Version (Infants Term Birth to Two Years)
	Supplemental: Bayley Scales of Infant Development (Bayley III, BSID); Pediatric Quality of Life Inventory (PedsQL); Pediatric Stroke Recurrence and Recovery Questionnaire (RRQ); Perceived Efficacy and Goal Setting System (PEGS)
	Exploratory: King's Outcome Scale for Childhood Head Injury (KOSCHI); Pediatric Modified Rankin Scale (mRS)
Outcomes and End	Core: Death
Points/Clinical Event End Points	Supplemental-Highly Recommended: Questionnaire for Verifying Stroke-Free Status (QVSFS)
	Supplemental: Death; Stroke Adjudication Form
	Exploratory: Death
Outcomes and End Points/Caregiver Reported Outcomes	Exploratory: Zarit Burden Interview (ZBI)