

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 Website).

Disease; Domain	Recommendations and List of Forms
ALS	These instruments and elements are recommended for use in all Amyotrophic Lateral Sclerosis Studies:
	Core: 1. Amyotrophic Lateral Sclerosis Functional Rating Scale-Revised (ALSRFS-R) 2. Manual Muscle Testing or Quantitative Dynamometry (Hand Held Dynamometry and Fixed Dynamometry are available on the website)
	Supplemental – Highly Recommended instruments: 3. *One of the following three Supplemental - Highly Recommended cognitive/behavioral screening tools should be used based on study requirements: • Abrahams Written Verbal Fluency • ALS Cognitive Behavioral Screen (ALS-CBS) • Edinburgh Cognitive and Behavioral Scale
	CRF Modules Containing Core CDEs: Demographics; Social Status; Family History; Medical History; Genetics; Symptom, Sign, Diagnosis Criteria; Vital Signs; Physical Examination; Pulmonary Function; Myocardial Oxygen Consumption, Gas Exchange and Nocturnal Oximetry
	Core Elements: See Start-Up Resource Listing document (ALS Start-Up Resource Listing)



Disease; Domain	Recommendations and List of Forms
Participant/Subject Characteristics; Demographics:	Core: Demographics*
	Supplemental: Demographics*
Participant/Subject Characteristics; Social Status:	Core: Social Status*
	Supplemental – Highly Recommended: N/A
	Supplemental: Social Status*
	Exploratory: N/A
Participant/Subject History	Core: Family History*, Medical History*
and Family History; General Health History:	Supplemental – Highly Recommended: N/A
ricaitii mistory.	Supplemental: Family History*, Medical History*
	Exploratory: N/A
Disease/Injury Related	Core: Genetics*, Symptom, Sign, Diagnosis Criteria*
Events; Classification	Supplemental – Highly Recommended: N/A
	Supplemental: Genetics*, Symptom, Sign, Diagnosis Criteria*
	Exploratory: N/A
Assessments and	Core: Physical Examination*
Examinations;	Supplemental – Highly Recommended: N/A
Physical/Neurological Examination:	Supplemental: Neuromuscular Examination, Physical Examination*
	Exploratory: N/A
Assessments and	Core: Vital Signs*
Examinations; Vital Signs and	Supplemental – Highly Recommended: N/A
Other Body Measures:	Supplemental: Vital Signs*
	Exploratory: N/A
Assessments and	Core: N/A
Examinations; Laboratory	Supplemental – Highly Recommended: N/A
Tests and Biospecimens/ Biomarkers:	Supplemental: Biomarkers Other Collection Information Guidelines, Collection of Fluid: Blood Guidelines, Collection of Fluid: CSF Guidelines, Collection of Fluid: Plasma Guidelines, Collection of Fluid: Urine Guidelines, Fasting Information, Laboratory Tests,
	Exploratory: Fasting Information, Resting Energy Expenditure, Tissue Based Marker Collection, Tissue Based Marker Collection



Disease; Domain	Recommendations and List of Forms
Assessments and Examinations; Imaging Diagnostics:	Core: N/A Supplemental – Highly Recommended: N/A
	Supplemental : Brain Perfusion Magnetic Resonance Imaging, Diffusion Tensor Imaging (DTI), Functional Magnetic Resonance Imaging (fMRI), Magnetic Resonance Imaging (MRI), Magnetic Resonance Spectroscopy
	Exploratory: Brain Perfusion Magnetic Resonance Imaging, Diffusion Tensor Imaging (DTI), Functional Magnetic Resonance Imaging (fMRI), Magnetic Resonance Imaging (MRI), Magnetic Resonance Spectroscopy
Assessments and	Core: N/A
Examinations; Non-Imaging Diagnostics:	Supplemental – Highly Recommended: N/A
	Supplemental: Electrophysiology
	Exploratory: N/A
Treatment/Intervention	Core: N/A
Data; Drugs:	Supplemental – Highly Recommended: N/A
	Supplemental: Prior and Concomitant Medications
	Exploratory: N/A



Disease; Domain	Recommendations and List of Forms
Outcomes and End Points; Cognitive:	Core: N/A
	Supplemental – Highly Recommended: Abrahams Written Verbal Fluency*, Edinburgh Cognitive and Behavioral Scale*, ALS Cognitive Behavioral Screen (ALS-CBS)*.
	*One of the following three Supplemental – Highly Recommended cognitive/behavioral screening tools should be used based on study requirements.
	Supplemental: ALS Depression Inventory (ADI-12), ALS-Frontotemporal Dementia Questionnaire (ALS-FTD-Q), Beck Depression Inventory II, Cambridge Behavioral Inventory- Revised, Center for Neurologic Study-Lability Scale for pseudobulbar affect (PBA), Emotional Lability Questionnaire: Persons with MND (ELQ-MND), Emotional Lability Questionnaire: Relatives and Carers (ELQ-R and C), Frontal Behavior Inventory (FBI), Frontal Behavioral Inventory-ALS Version (FBI-ALS), Frontal Behavioral Inventory-Modified by Heidler Gray, Frontal Systems Behavior Scale, Hospital Anxiety and Depression Scale, Motor Neuron Disease Behavioral Instrument (MiND-B), Neuropsychiatric Inventory — Questionnaire (NPI-Q), Penn State Screen of Frontal and Temporal Dysfunction Syndromes, and UCSF Screening Exam.
	Exploratory: Geriatric Depression Scale (GDS), Hamilton Depression Rating Scale (HDRS), and Neuropsychiatric Inventory – Clinician Version
Outcomes and End Points;	Core: ALS Functional Rating Scale – Revised (ALSFRS-R)
Functional Status:	Supplemental – Highly Recommended: N/A
	Supplemental: 6 Minute Walk Test, ALS Swallowing Severity Score — (ALSSS), Barthel Index, Center for Neurologic Study-Bulbar Function Scale (CNS-BFS), Clinical Milestones/Events, Death Report, Dynamic Gait Index, Edmonton Symptom Assessment System (ESAS), EuroQoL-5 Dimension Questionnaire, Modified Fatigue Impact Scale (MFIS), Performance-Oriented Mobility Assessment (POMA), Schwab and England Activities of Daily Living Scale (ADL-Scale), Sensory Organization Test (SOT), Timed 25-Foot Walk (T25FW), Timed Up and Go
	Exploratory : Checklist for Individual Strength – Fatigue (CIS), Clinical Milestones/Events, Fatigue Severity Scale (FSS), Madrid Quantitative Neuromuscular Assessment (MAQUINA), and Modified Fatigue Impact Scale (MFIS)



Disease; Domain	Recommendations and List of Forms
Outcomes and End Points; Summary of Outcome Recommendations	Core: N/A
	Supplemental – Highly Recommended: N/A
	Supplemental: ALS CDE Instrument Recommendations by Outcome Domain and Classification, ALS Outcomes Recommendations Guidelines for Use
	Exploratory: N/A
Outcomes and End Points; Muscle Strength Testing:	Core: Manual Muscle Testing – Using the Medical Research Council Muscle Grading Scale
	Supplemental – Highly Recommended: N/A
	Supplemental: Pinch Strength, Fixed Dynamometry, Grip Strength Fatigue, Hand Held Dynamometry
	Exploratory: Grip Strength
Outcomes and End Points; Pulmonary Function Testing	Core: Myocardial Oxygen Consumption, Gas Exchange and Nocturnal Oximetry*, Pulmonary Function*
/ Respiratory Status:	Supplemental – Highly Recommended: N/A
	Supplemental: Borg Dyspnea Scale, Myocardial Oxygen Consumption, Gas Exchange and Nocturnal Oximetry*, Pulmonary Function*
	Exploratory : Baseline Dyspnea, Myocardial Oxygen Consumption, Gas Exchange and Nocturnal Oximetry*, and Transition Dyspnea Index
Outcomes and End Points;	Core: N/A
Quality of Life:	Supplemental – Highly Recommended: N/A
	Supplemental, Amyotrophic Lateral Sclerosis Assessment Questionnaire (ALS-AQ40), EuroQoL-VAS, McGill Quality of Life Questionnaire (MQOL), Quality of Life in Neurological Disorders (Neuro-QOL, Quality of Life in Swallowing Disorders (SWAL-QOL), Short Form 36-Item Health Survey (SF-36)
	Exploratory: Schedule for the Evaluation of Individual Quality of Life – Direct Weighting (SEIQoL-DW) and Sickness Impact Profile)
Outcomes and End Points;	Core: N/A
Subjective Assessments /	Supplemental – Highly Recommended: N/A
Patient and Caregiver Reported Outcomes	Supplemental: Zarit Caregiver Burden Scale
	Exploratory : Caregiver Burden Scale (CGBS), Clinical Global Impression Scale,



Disease; Domain	Recommendations and List of Forms
Outcomes and End Points; Upper Motor Neuron Signs / Neuromuscular Excitability	Core: N/A Supplemental – Highly Recommended: N/A Supplemental: Modified Ashworth Scale for Grading Spasticity, NINDS Myotatic Reflex Scale, Tardieu Scale Exploratory: N/A

^{*}Include one or more data elements that are Core or Supplemental – Highly Recommended