

#### **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
Neuromuscular Disease	These instruments and data elements are recommended for use in all neuromuscular disease studies:
	Core instruments:
	Manual Muscle Testing-Using the Medical Research Council Muscle Grading Scale
	Core elements: See Start-Up Resource Listing document ( <u>Neuromuscular Disease Start-Up Resource Listing</u> )
Participant/Subject Characteristics/Demog raphics	Core: Demographics, General Core
	Supplemental – Highly Recommended: None
	Supplemental: Demographics
	Exploratory: None
Participant/Subject Characteristics/Social Status	Core: Social Status
	Supplemental – Highly Recommended: None
	Supplemental: Social Status
	Exploratory: None
Participant/Subject History and Family History/General Health History	Core: Medical History, Family History
	Supplemental – Highly Recommended: None
	<b>Supplemental:</b> Family History; Medical History; Prenatal and Perinatal History; Surgical History
	Exploratory: None



Disease/Domain	Recommendations
Disease/Injury Events/History of Disease/Injury Event	Core: Medical History of NMD
	Supplemental – Highly Recommended: None
	Supplemental: Medical History of NMD
	Exploratory: None
Assessments and Examinations/Physical/ Neurological Examination	Core: None
	Supplemental – Highly Recommended: None
	Supplemental: Physical Examination, Polysomnography
	Exploratory: None
Assessments and Examinations/Vital Signs and Other Body Measures	Core: None
	Supplemental – Highly Recommended: None
	Supplemental: Vital Signs
	Exploratory: Vital Signs
Assessments and	Core: None
Examinations / Laboratory Tests and Biospecimens/ Biomarkers	<b>Supplemental – Highly Recommended:</b> Fat Aspirate Tissue Specimens, Muscle Biopsy and Autopsy Tissue, Mutation Analysis, Skin Biopsies for Qualification of Intraepidermal Nerve Fibers, Laboratory Tests and Tracking, Peripheral Nerves – Biopsies and Autopsies
	Supplemental: Biomarkers Sample Data Guidelines, Biospecimen Collection Guidelines for Use, Gene Table and Guidelines for Use, Laboratory Tests Recommendations Table and Guidelines for Use, Muscle Biopsy and Autopsy Tissue, Mutation Analysis, Skin Biopsies for Qualification of Intraepidermal Nerve Fibers, Fat Aspirate Tissue Specimens, Peripheral Nerves – Biopsies and Autopsies
	Exploratory: None
Assessments and	Core: None
Examinations/Imaging Diagnostics	Supplemental – Highly Recommended: None
	<b>Supplemental:</b> Brain Magnetic Resonance Imaging (MRI), Cardiac Magnetic Resonance Imaging (MRI), Diffusion Tensor Imaging (DTI), Dual-Energy X-Ray Absorptiometry (DEXA), Echocardiogram, Magnetic Resonance Imaging (MRI), Magnetic Resonance Spectroscopy (MRS)
	Exploratory: None



Disease/Domain	Recommendations
Assessments and Examinations / Non-Imaging Diagnostics	Core: None
	Supplemental – Highly Recommended: Electrocardiogram (ECG)
	Supplemental; Electrocardiogram (ECG), Electrophysiology, Holter Examination
	Exploratory: None
Treatment / Intervention Data/Therapies	Core: None
	Supplemental – Highly Recommended: None
Data/ Hierapies	Supplemental: Gastrointestinal Therapies, Respiratory Interventions
	Exploratory: None
Outcomes and Endpoints/Summary of All Outcome Recommendations	Core: None
	Supplemental – Highly Recommended: None
	<b>Supplemental:</b> NMD Clinical Outcome Recommendations by Domain and Classification
	Exploratory: None
Outcomes and	Core: None
Endpoints/Assessing Comorbidities	Supplemental – Highly Recommended: None
Comorbiaties	Supplemental: Child Health Questionnaire (CHQ)
	Exploratory: None
Outcomes and	Core: None
Endpoints/Emotional and Cognitive Status	Supplemental – Highly Recommended: None
una cogimero otatas	Supplemental: Cognitive Guidelines for Use, McGill Pain Questionnaire
	Exploratory: None
Outcomes and	Core: None
Endpoints/End Points	Supplemental – Highly Recommended: None
	Supplemental: Death Report
	Exploratory: None
Outcomes and	Core: None
Endpoints/Functional Status	Supplemental – Highly Recommended: None
Julius	<b>Supplemental:</b> 10 Meter Timed Walk, 6 Minute Walk Test, Barthel Index, Purdue Pegboard, Stair Climb, Timed Up and Go (TUG,
	Exploratory: Jebsen-Taylor Hand Functioning Test



Disease/Domain	Recommendations
Outcomes and Endpoints/Muscle Strength Testing	Core: Manual Muscle Testing-Using the Medical Research Council Muscle Grading Scale
	Supplemental – Highly Recommended: None
	Supplemental: Hand Held Dynamometry, Pinch Strength, Maximum Voluntary Isometric Contraction Testing (MVICT), Grip Strength
	Exploratory: Grip Strength
Outcomes and Endpoints/Other Non- Motor	Core: None
	Supplemental – Highly Recommended: None
	Supplemental: Quantitative Sudomotor Axon Reflex Test (QSART)
	Exploratory: None
Outcomes and Endpoints/Pulmonary Function Testing/ Respiratory Status	Core: None
	Supplemental – Highly Recommended: Pulmonary Function Testing
	<b>Supplemental:</b> Measures of Gas Exchange, Pulmonary Assessment Master Outline and Guidelines for Use, Pulmonary Function Testing
	Exploratory: None
Outcomes and	Core: None
Endpoints/Pediatric	Supplemental – Highly Recommended: None
	Supplemental: Pediatric Cognitive Instrument Recommendations by Domain and Classification, Bayley Scales of Infant Development (Bayley III, BSID), Beery-Buktenica Developmental Test of Visual-Motor Integration (Beery VMI), California Verbal Learning Test - Children (CVLT-C), Child Behavior Checklist (CBCL), Comprehensive Test of Phonological Processing (CTOPP) Clinical Evaluation of Language Fundamentals (CELF-4), Mullen Scales of Early Learning (MSEL), Peabody Picture Vocabulary Test 4th Edition (PPVT-4), Pediatric Cognitive Instrument Table, Pediatric Evaluation of Disability Inventory (PEDI), Social Communication Questionnaire (SCQ), Social Skills Rating Scale (SSRS), Test for Executive Control (TEC), Wechsler Abbreviated Scale of Intelligence (WASI), Wechsler Intelligence Scale for Children-IV (WISC-IV), Wechsler Preschool and Primary Scale of Intelligence (WPPSI-III), Wide Range Assessment of Memory and Learning, Second Edition (WRAML-2), Woodcock-Johnson III Test of Cognitive Abilities
	Exploratory: None



Disease/Domain	Recommendations
Outcomes and Endpoints/Quality of Life	Core: None Supplemental – Highly Recommended: None Supplemental: Quality of Life in Neurological Disorders (Neuro-QOL), 36-Item Short Form Health Survey (SF-36) Exploratory: None