

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)

Disease/Domain;Sub-domain	Recommendations
Participant/Subject Characteristics; Demographics:	Core: General Core
	Supplemental-Highly Recommended: General Core
	Supplemental: Demographics
	Exploratory: None
Participant/Subject Characteristics; Social Status:	Core: None
	Supplemental-Highly Recommended: Adult Employment and Education History
	Supplemental: None
	Exploratory: None
Participant History and Family History; General Health History:	Core: Past and Current Illnesses, Medical History - Immune Module
	Supplemental-Highly Recommended: Medical History - Immune Module, Family Health History
	Supplemental: Reproductive and Hormonal History
	Exploratory: Medical History - Immune Module, Exposure History
Disease/Injury Related Events; History of Disease/Injury Event:	Core: DePaul Symptom Questionnaire (DSQ) or ME/CFS Symptom Checklist
	Supplemental-Highly Recommended: None
	Supplemental: DSQ-Pediatric Screening Questionnaire (DSQ-PSQ), Fatigue Visual Analog Scale, Neuroendocrine/Hypothalamic Symptoms
	Exploratory: None



Disease/Domain;Sub-domain	Recommendations
Assessments and Examinations; Physical/Neurological Examination:	Core: None
	Supplemental-Highly Recommended: Neurological Exam, Physical Examination, Physical Exam - Immune Module, Pain Assessment, Beighton Score
	Supplemental: Neurological Exam, Polysomnography (PSG) for ME/CFS, Pain Assessment
	Exploratory: Neurological Exam, Grip Strength Fatigue
Assessments and Examinations; Post-Exertional Malaise:	Core: Core PEM Assessment Questionnaire, Guidance for Core PEM Assessment
	Supplemental-Highly Recommended: PEM-Focused Studies Questionnaire
	Supplemental: Guidance for PEM-Focused Studies
	Exploratory: PEM-Focused Studies Questionnaire
Assessments and Examinations; Exercise Physiology:	Core: None
Exercise i flysiology.	Supplemental-Highly Recommended: None
	Supplemental: Cardiopulmonary Exercise Testing (CPET)
	Exploratory: None
Assessments and Examinations; Autonomic:	Core: None
Autonomic.	Supplemental-Highly Recommended: Composite Autonomic Symptom Scale, Passive Standing Test Protocol
	Supplemental: None
	Exploratory: Modified Orthostatic Symptom Grading Scale
Assessments and Examinations; Laboratory Tests and Biospecimens/Biomarkers:	Core: Neuroendocrine Labs
	Supplemental-Highly Recommended: Laboratory Tests - Immune Module, Biomarker-Related Sample and Collection Questions
	Supplemental : Laboratory Test Results, Laboratory Tests - Immune Module, Neuroendocrine Labs, Biomarker-Related Sample and Collection Questions, Biomarkers Guidelines, Biomarkers Reference Table
	Exploratory: Neuroendocrine Labs



Disease/Domain;Sub-domain	Recommendations	
Assessments and Examinations; Imaging Diagnostics:	Core: None	
	Supplemental-Highly Recommended: Magnetic Resonance Imaging (MRI), Functional Magnetic Resonance Imaging (fMRI), Diffusion Tensor Imaging (DTI), Magnetic Resonance Spectroscopy (MRS), Positron Emission Tomography (PET), Magnetoencephalography (MEG), Non-Quantitative Electroencephalography (EEG), Quantitative Electroencephalography (qEEG), Low Resolution Electromagnetic Tomography (LORETA)	
	Supplemental : Special Imaging Considerations, Suggested Parameters for Common Magnetic Resonance Imaging (MRI) Scans, ME/CFS Functional Imaging Task Summaries	
	Exploratory: None	
Treatment/Intervention Data; Drugs:	Core: None	
Drugs.	Supplemental-Highly Recommended: Medications/Other Treatments	
	Supplemental: None	
	Exploratory: None	
Outcomes and Endpoints		
Outcomes and Endpoints; Academic Achievement:	Core: None	
Academic Achievement:	Supplemental-Highly Recommended: Word Reading Subtest of the Wide Range Achievement Test (WRAT-4)	
	Supplemental: None	
	Exploratory: None	
Outcomes and Endpoints; Activities of Daily Living/Performance:	Core: None	
	Supplemental-Highly Recommended: None	
	Supplemental: Fatigue/Activity Record and Diary, Modifiable Activity Questionnaire (MAQ)	
	Exploratory: Physical Functioning and Activities of Daily Living	



Disease/Domain;Sub-domain	Recommendations
Outcomes and Endpoints; Attention/Information Processing:	Core: None
	Supplemental-Highly Recommended: Paced Auditory Serial Addition Test (PASAT), Stroop Test, Children's Paced Auditory Serial Addition Task (ChiPASAT)
	Supplemental: Automated Neuropsychological Assessment Metrics (ANAM), Test of Variables of Attention (TOVA)
	Exploratory: Deary-Liewald Reaction Time Task
Outcomes and Endpoints; Emotional/Behavioral:	Core: None
Emotional/Benavioral.	Supplemental-Highly Recommended: Beck Anxiety Inventory (BAI), Beck Depression Inventory II (BDI-II)
	Supplemental: Center for Epidemiologic Studies-Depression Scale (CES-D), State-Trait Anxiety Inventory (STAI)
	Exploratory: Kiddie-Schedule for Affective Disorders and Schizophrenia for School-Aged Children-Present and Lifetime Version (K-SADS-PL)
Outcomes and Endpoints; Executive Functioning:	Core: None
Executive Functioning.	Supplemental-Highly Recommended: Delis-Kaplan Executive Function System (D-KEFS)
	Supplemental: NIH Toolbox Cognitive Battery, Cogstate Tests, Cambridge Neuropsychological Test Automated Battery (CANTAB)
	Exploratory: None
Outcomes and Endpoints; Fatigue:	Core: None
	Supplemental-Highly Recommended: Fatigue Severity Scale (FSS)
	Supplemental: Checklist for Individual Strength - Fatigue (CIS), Functional Assessment of Chronic Illness Therapy (FACIT)-Fatigue, Wood Mental Fatigue Inventory, Pediatric Quality of Life Inventory, Multidimensional Fatigue Scale
	Exploratory: Neuro-QoL Adult Bank – Fatigue, Modified Fatigue Impact Scale (MFIS), Multidimensional Fatigue Inventory (MFI), PROMIS Fatigue Short Form



Disease/Domain;Sub-domain	Recommendations
Outcomes and Endpoints; Intellectual Functioning:	Core: None
	Supplemental-Highly Recommended: Edinburgh Handedness Inventory
	Supplemental: North American Adult Reading Test (NAART), Test of Premorbid Functioning (TOPF), Wechsler Adult Intelligence Scale - Fourth Edition (WAIS-IV)
	Exploratory: Wechsler Abbreviated Scale of Intelligence - Second Edition (WASI-II), Woodcock-Johnson III Test of Cognitive Abilities, Wechsler Intelligence Scale for Children-Fifth Edition (WISC-V)
Outcomes and Endpoints; Memory:	Core: None
	Supplemental-Highly Recommended: California Verbal Learning Test - Second Edition (CVLT-II), Rey-Osterrieth Complex Figure Test (ROCF), California Verbal Learning Test - Children (CVLT-C)
	Supplemental: Wechsler Memory Scale IV (WMS-IV), Children's Memory Scale (CMS)
	Exploratory: None
Outcomes and Endpoints; Motor Function:	Core: None
Wotor Fanction.	Supplemental-Highly Recommended: None
	Supplemental: None
	Exploratory: Speeded Tapping Test
Outcomes and Endpoints; Pain:	Core: None
	Supplemental-Highly Recommended: Brief Pain Inventory (Short Form) (BPI), Revised Fibromyalgia Impact Questionnaire (FIQR), McGill Pain Questionnaire (MPQ), Faces Pain Scale - Revised (FPS-R)
	Supplemental: Pain Frequency-Severity-Duration Scale (PFSD)
	Exploratory: Neuropathic Pain Symptom Inventory, PROMIS Pain Behavior Short Form, PROMIS Pain Interference Short Form



Disease/Domain;Sub-domain	Recommendations
Outcomes and Endpoints; Quality of Life/Patient Reported Outcomes:	Core: None
	Supplemental-Highly Recommended: Child Health Questionnaire
	Supplemental: Mental Fatigue Scale (MFS), Short Form 36-Item Health Survey (SF-36), Functional Disability Inventory-Child and Adolescent Form (FDI), Functional Disability Inventory-Parent Form (FDI)
	Exploratory: Bell CFIDS Disability Scale, EuroQoL-5 Dimension Questionnaire (EQ-5D), Health Related Quality of Life (HRQOL-14), Karnofsky Performance Scale, World Health Organization Disability Assessment Schedule (WHODAS)
Outcomes and Endpoints; Sleep:	Core: Sleep Questions for All Studies
	Supplemental-Highly Recommended: Sleep Focused Study Questionnaire, Sleep Assessment Questionnaire – Moldofsky
	Supplemental: Sleep Focused Study Questionnaire, Pittsburgh Sleep Quality Index, Stanford Sleepiness Scale, Sleep Disorders Screening Checklist, Holland Sleep Disorders Questionnaire (HSDQ)
	Exploratory: Sleep Questions for All Studies, Epworth Sleepiness Scale - Children's Version, Nonrestorative Sleep Scale (NRSS), Global Sleep Assessment Questionnaire (GSAQ), Restorative Sleep Questionnaire (RSQ), Adolescent Sleep Hygiene Scale (ASHS)
Outcomes and Endpoints; Visual-Spatial Processing:	Core: None
	Supplemental-Highly Recommended: Rey-Osterrieth Complex Figure Test (ROCF)
	Supplemental: None
	Exploratory: None