

## nizing information. Streamlining research. Friedreich's ataxia (FA) 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 Website).

Domain; Sub-Domain	Recommendations
Friedreich's Ataxia	These instruments and elements are recommended for use in all FA studies:
	Core instruments:
	Modified Friedreich Ataxia Rating Scale (mFARS), Scale for the Assessment and Rating of Ataxia (SARA), Timed 25-Foot Walk, Nine-Hole Peg Test
	Core elements: Friedreich's Ataxia Start-Up Resource Listing
	Exploratory: None
Participant Characteristics; Demographics	<b>Core:</b> Demographics <sup>i</sup> , General Core <sup>ii</sup>
	Supplemental: Demographics, General Core
	Exploratory: Demographics, General Core
Participant Characteristics; Social Status	Core: Social Status <sup>iii</sup>
	Supplemental: Social Status
	Exploratory: Social Status
Participant History and Family History; General Health History	<b>Core:</b> Behavioral History <sup>iv</sup> , History Data Source Reliability <sup>v</sup> , Medical History <sup>vi</sup>
	<b>Supplemental:</b> Behavioral History, Family History, History Data Source Reliability, Medical History, Pediatric Developmental History <sup>vii</sup> , Pregnancy History, Prenatal and Perinatal History <sup>viii</sup>
	<b>Exploratory:</b> History Data Source Reliability, Pediatric Developmental History, Prenatal and Perinatal History



Domain; Sub-Domain	Recommendations
Disease/Injury Related Events; History of Disease/Injury Event	Core: Medical History of Friedreich's Ataxia <sup>ix</sup>
	Supplemental: Medical History of Friedreich's Ataxia
	Exploratory: None
Assessments and Examinations; Physical/ Neurological Examination	<b>Core:</b> Physical Examination <sup>x</sup>
	Supplemental: Physical Examination
	Exploratory: None
Assessments and Examinations; Vital Signs and Other Body Measures	Core: Vital Signs <sup>xi</sup>
	Supplemental: Vital Signs
	Exploratory: None
Assessments and	Core: Laboratory Tests <sup>xii</sup>
Examinations; Laboratory Tests and	Supplemental: Laboratory Tests
Biospecimens/	Exploratory: None
Biomarkers	Guideline Documents: Plasma Collection Guidelines, Urine Collection Guidelines
Assessments and	Core: Cardiac and Magnetic Resonance Imaging <sup>xiii</sup>
Examinations; Imaging	Supplemental: Cardiac and Magnetic Resonance Imaging
Diagnostics	Exploratory: None
Assessments and	Core: Echocardiogram, Electrocardiogram, Holter Exam
Examinations; Non- Imaging Diagnostics	Supplemental: None
maging Diagnostics	Exploratory: None
Treatment/Intervention	Core: Prior and Concomitant Medications <sup>xiv</sup>
Data; Drugs	Supplemental: Prior and Concomitant Medications
	Exploratory: None
Outcomes and	Core: None
Endpoints; Summary of All Outcome Recommendations	Supplemental: None
	Exploratory: None
	<b>Recommendations:</b> FA CDE Instrument Recommendations by Outcome Domain and Classification



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Domain; Sub-Domain	Recommendations
Outcomes and Endpoints; Activities of Daily Living / Performance	Core: Activities of Daily Living and Gait <sup>xv</sup>
	Supplemental: Activities of Daily Living and Gait, PaTaKa Speech Test, PROMIS, NIH Toolbox
	<b>Exploratory:</b> Acoustic Analysis of Speech, Barthel Index, Functional Independence Measure, Jebsen-Taylor Hand Functioning Test, Stride Analysis and Gait Variability
Outcomes and Endpoints; Ataxia and Performance Measures	Core: Modified Friedreich's Ataxia Rating Scale (mFARS), Nine Hole Peg Test, Scale for the Assessment and Rating of Ataxia (SARA), Timed 25-Foot Walk (T25FW)
	Supplemental – Highly Recommended: Sloan Low Contrast Letter Acuity
	<b>Supplemental:</b> Assessment of Intelligibility of Dysarthic Speech (AIDS), Boston Diagnostic Aphasia Exam (BDAE-III), Friedreich's Ataxia Impact Scale (FAIS), International Cooperative Rating Scale (ICARS), Guidance for Listening in Spatialized Noise – Sentences (LiSN-S)Test Modified Fatigue Impact Scale (MFIS), Tardieu Scale
	<b>Exploratory:</b> Bladder Control Scale (BLCS), Bowel Control Scale (BWCS), Delis Kaplan Executive Function System (DKEFS), Impact of Visual Impairment Scale (IVIS), MOS Pain Effects Scale (PES), Phonemic Verbal Fluency (PVF)
Outcomes and Endpoints; Quality of life	Core: None
	<b>Supplemental:</b> Pediatric Quality of Life Inventory (PEDSQL), 36-Item Short Form Health Survey (SF-36), Short Form Health Survey 10 for Children (SF-10), Quality of Life in Neurological Disorders (Neuro-QOL)
	Exploratory: None
Outcomes and Endpoints; Clinical Event End Points	Core: Cardiac End Points
	Supplemental: None
	Exploratory: None

<sup>&</sup>lt;sup>i</sup> CRF has Core, Supplemental, and Exploratory elements

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iii CRF has Core, Supplemental, and Exploratory elements

<sup>&</sup>lt;sup>iv</sup> CRF has Core and Supplemental elements

<sup>&</sup>lt;sup>v</sup>CRF has Core, Supplemental, and Exploratory elements

vi CRF has Core and Supplemental elements

vii CRF has Supplemental and Exploratory elements

viii CRF has Supplemental and Exploratory elements

ix CRF has Core and Supplemental elements

<sup>&</sup>lt;sup>x</sup> CRF has Core and Supplemental elements

xi CRF has Core and Supplemental elements

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xiv CRF has Core and Supplemental elements

<sup>&</sup>lt;sup>xv</sup> CRF has Core and Supplemental elements