

Harmonizing Information. Streamlining research. Chiari I Malformation CDE Highlight Summary Document

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 http://www.cssrs.columbia.edu



Disease/Domain	Recommendations
Chiari I Malformation	These instruments and elements are recommended for use in Chiari I Malformation studies:
	Core elements:
	See Start-Up Resources Listing document (<u>Chiari I Malformation Start-Up</u> <u>Resource Listing</u>)
	Supplemental – Highly Recommended instruments: Nurick (Ambulatory Function) Grade; ASIA Motor Scale; Headache Disability Index; Meaningful Improvement



Disease/Domain	Recommendations
Summary Documents	Chiari I Malformation CDE Overall Summary; Comorbidities Working Group Summary View document; Demographics Working Group Summary; Imaging, Spinal Anomaly, Stability Working Group Summary View document; Outcomes Working Group Summary View document; Presentations, Natural History, Signs and Symptoms Working Group Summary View document; Treatment Working Group Summary View document
Participant Characteristics; Demographics	Core: Demographics*, General Core Supplemental – Highly Recommended: None Supplemental: Demographics* Exploratory: None



Disease/Domain	Recommendations
Participant Characteristics; Social Status	Core: None Supplemental – Highly Recommended: None Supplemental: Social Status Exploratory: None
Participant History and Family History; General Health History	Core: None Supplemental – Highly Recommended: Past History (on intake)*; CMI - Hereditary Disorder of Connective Tissue Screening (1)*; CMI - Hereditary Disorders of Connective Tissue Screening (2)* Supplemental: General Exam; Past History (on intake); CMI - Hereditary Disorder of Connective Tissue Screening (1)*; CMI - Hereditary Disorders of
	Connective Tissue Screening (2)* Exploratory: Past History (on intake)
Participant History and Family History; Epidemiology/Environ mental History	Core: None Supplemental – Highly Recommended: None Supplemental: Allergy; Strain-Related Headache Exploratory: Allergy
Disease / Injury Related Events; Classification	Core: Chiari I Malformation Presenting Exam* Supplemental – Highly Recommended: Chiari List of 10*; Chiari I Malformation Presenting Exam* Supplemental: Chiari I Malformation Presenting Exam * Exploratory: Chiari I Malformation Presenting Exam*
Disease / Injury Related Events; History of Disease/Injury Event	Core: CMI - Headache Score* Supplemental – Highly Recommended: CMI - Headache Score* Supplemental: CMI - Tethered Cord Screening; Chiari Symptom Onset; CMI - Headache Score*
Assessments and Examinations; Physical/Neurological Exam	Core: Self-Reporting Testing (On Intake)* Supplemental – Highly Recommended: Self-Reporting Testing (On Intake)*; Beighton Score Supplemental: Neurological Exam; Brainstem Signs/Symptoms; Self-Reporting Testing (On Intake)*; Sensory Symptoms Exploratory: Brainstem Signs/Symptoms



Disease/Domain	Recommendations
Assessments and Examinations; General and Motor	Core: None
	Supplemental – Highly Recommended: Reflex Testing*; Nystagmus/Strabismus*
	Supplemental : Motor Strength Testing; Reflex Testing*; Spine Range of Motion Assessment; Coordination; Imbalance; Modified Ashworth Scale – Limb Tone Testing; Nystagmus/Strabismus*; Provocative – Other Testing
	Exploratory: Reflex Testing*; Spine Range of Motion Assessment; Nystagmus/Strabismus*; Provocative – Other Testing
Assessments and	Core: Chiari I Malformation Imaging*
Examinations; Imaging Diagnostics	Supplemental – Highly Recommended: Chiari I Malformation Imaging*
Diagnostics	Supplemental: Chiari I Malformation Imaging*
	Exploratory: Chiari I Malformation Imaging*
Treatment /	Core: None
Intervention Data; Drugs	Supplemental – Highly Recommended: Medications (Prior & Current)*
Drugs	Supplemental: Medications (Prior & Current)*
	Exploratory: None
Treatment /	Core: None
Intervention Data; Surgeries and Other	Supplemental – Highly Recommended: None
Procedures	Supplemental: Surgical Site Assessment
	Exploratory: None
Treatment /	Core: None
Intervention Data; Therapies	Supplemental – Highly Recommended: Chiari I Malformation Treatment Outcomes*
	Supplemental: Chiari I Malformation Treatment Outcomes*
	Exploratory: Chiari I Malformation Treatment Outcomes*
Outcomes and Endpoints; Assessing Comorbidities	Core: Co-Morbidities*
	Supplemental – Highly Recommended: None
	Supplemental: Co-Morbidities*
	Exploratory: Co-Morbidities*



Disease/Domain	Recommendations
Outcomes and Endpoints; Functional Outcomes	Core: None
	Supplemental – Highly Recommended: Nurick (Ambulatory Function) Grade; ASIA Motor Scale;
	Supplemental: Functional Status Karnofsky Score; Functional Status Lansky Score; ASIA Sensory Scale; Functional Independence Measure; Functional Independence Measure for Children (WeeFIM); Modified Japanese Orthopaedic Association Score
	Exploratory: McCormick Scale; Chicago Chiari Outcome Scale
Outcomes and Endpoints; Emotional and Cognitive Outcomes	Core: Note - 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 upto-date information about suicidal ideation and behavior. One scale that FDA suggests is the Columbia Suicide Severity Rating Scale (C-SSRS) (available at http://www.cssrs.columbia.edu Supplemental – Highly Recommended: None Supplemental: None
	Exploratory: Zung Depression Score
Outcomes and Endpoints; Other Non-	Core: None
Motor	Supplemental – Highly Recommended: None
	Supplemental: Assessment of Shunt Function
	Exploratory: Assessment of Shunt Function
Outcomes and Endpoints; Pain	Core: None
	Supplemental – Highly Recommended: None
	Supplemental: Brief Pain Inventory (Short Form); McGill Pain Questionnaire; Numeric Rating Scale – Neck Pain
	Exploratory: None



Disease/Domain	Recommendations
Outcomes and Endpoints; Quality of Life	Core: None Supplemental – Highly Recommended: Headache Disability Index; Meaningful
	Improvement
	Supplemental: Chiari Symptom Profile; EuroQoL-5 Dimension Questionnaire-Youth (EQ-5DY); Health Transition Index; Neck Disability Index; Patient Reported Outcomes Measurement Information System (PROMIS); Quality of Life in Neurological Disorders (Neuro-QoL); Short Form Health Survey-12; Short Form 36-Item Health Survey (SF-36); The North American Spine Society Satisfaction Questionnaire
	Exploratory: Patient Reported Outcomes Measurement Information System (PROMIS) – Pediatric; Quality of Life in Neurological Disorders (Neuro-QOL) - Pediatric Functional Health

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