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Chicago Chiari Outcome Scale (CCOS)**

Availability:	For more information about the instrument see Aliaga et al., 2012. Chicago Chiari Outcome Scale .
Classification:	Exploratory: Chiari I Malformation (CM)
Short Description of Instrument:	<p>The Chicago Chiari Outcome Scale (CCOS) was developed to provide to researchers with quantifiable measure of Chiari Malformation(CM) outcomes after Chiari surgery.</p> <p>The CCOS uses 4 postoperative outcome categories:(pain, nonpain symptoms, functionality, and complications graded 1 to 4.</p>
Comments / Special Instructions:	Three items compare the change in 1) pain, 2) non-pain related symptoms, and 3) functionality between before and after surgery. One item measures severity of surgical complications.
Scoring:	<p>Maximal score of 16: 4 category scale with 4 points per item.</p> <p>Higher scores indicate improvements; while lower scores indicate unchanged or worse improvement.</p>
Rationale / Justification:	A recently developed system for assessing pain and function of Chiari patients.
References:	<p>Key Reference:</p> <p>Aliaga L, Hekman KE, Yassari R, Straus D, Luther G, Chen J Sampat A, Frim D. A novel scoring system for assessing Chiari malformation type I treatment outcomes. Neurosurg. 2012;70(3):656–664; discussion 664–665.</p> <p>Additional References:</p> <p>Hekman KE, Aliaga L, Straus D, Luther A, Chen J, Sampat A, Frim D. Positive and negative predictors for good outcome after decompressive surgery for Chiari malformation type 1 as scored on the Chicago Chiari Outcome Scale. Neurol Res. 2012;34(7):694–700.</p> <p>Yarbrough CK, Greenberg JK, Smyth MD, Leonard JR, Park TS, Limbrick DD, Jr. External validation of the Chicago Chiari Outcome Scale. J Neurosurg Pediatr. 2014;13(6):679–684.</p>