

Pediatric Outcomes

Research has shown that children in general have better surgical outcomes than adults



Conservative

For children being treated conservatively, it is not unusual to see changes in tonsillar position of 2mm or more from year to year

A review of around 700 children with 5mm+ of tonsillar herniation but no symptoms found that only 5% went on to develop any symptoms

Selected Pediatric Conservative Treatment Outcome Studies

AUTHORS	YEAR	# OF PATIENTS	% SURGERY
<i>Strahle et al.</i>	2011	147	9.5%
<i>Benglis et al.</i>	2011	124	4.0%
<i>Whitson et al.</i>	2015	52	5.8%
<i>Leon et al.</i>	2019	427	3.5%
<i>Davidson et al.</i>	2020	218	6.4%

This table summarizes 5 studies that looked at the conservative management of pediatric Chiari. The specifics of each study are slightly different so the results cannot really be combined, but they all followed the children regularly for several years and do show that in general not many children who are managed conservatively end up requiring surgery (3.5%-9.5%).

Surgical

Chiari1000 Patient/Parent Reported Symptom Outcomes of 84 Surgical Pediatric Patients (43 Female/41 Male)

Resolved	2	2.4%
Improved Significantly	45	53.6%
Improved Slightly	24	28.6%
No Change	6	7.1%
Got Worse	7	8.3%

Chicago Chiari Outcome Scale (CCOS)

Michigan Study Avg CCOS = 15.13 out of 16

UK study Avg CCOS = 14 out of 16

