

We specialize in the assessment and treatment of Plagiocephaly and related head shape concerns. Our top priorities are **early recognition, family education, and prevention.**

## PLAGIOCEPHALY

is the term generally used to describe 3 types of positional head shape asymmetries that persist past the age of 6 weeks.

## The 3 Main Causes

### TORTICOLLIS

Torticollis occurs when a baby's neck muscles are shortened or weakened

### PREGNANCY

Overcrowding in utero, multiple fetuses, premature birth, or head manipulation during birth

### SLEEPING ON BACK

Prolonged pressure to a baby's head from a positional head preference in a reclined state

Head Shape & How to Measure		Severity Scale				
<p>ODD: _____ mm</p> <p>CVAI: _____ %</p> <p><b>Plagiocephaly</b></p>	<p>Oblique Diagonal Difference (A - B)</p> <p>Cranial Vault Asymmetry Index (CVAI)</p> <p><math>\frac{(A - B) \times 100}{A \text{ or } B}</math></p>	<p>Level 1</p> <p>0-3.5%</p> <p>Within normal limits of symmetry.</p>	<p>Level 2</p> <p>3.5-6.25%</p> <p>Mild-moderate asymmetric posterior flattening. Minimal forehead involvement.</p> <p>** CRO Treatment may be recommended</p>	<p>Level 3</p> <p>6.25-8.75%</p> <p>Moderate-severe asymmetric posterior flattening. Forehead asymmetry. Ear Shift.</p> <p>CRO Treatment recommended</p>	<p>Level 4</p> <p>&gt;8.75%</p> <p>Severe asymmetric posterior flattening. Facial asymmetry, and/or jaw deformity. Frontal and/or Parietal sloping.</p> <p>CRO Treatment Recommended</p>	
	<p>CR: _____ %</p> <p><b>Brachycephaly</b></p>	<p>Cephalic Ratio (CR)</p> <p><math>(\text{Width} / \text{Length}) \times 100\%</math></p>	<p>Under 90%</p> <p>Within normal limits of symmetry.</p>	<p>90-93%</p> <p>Mild-moderate posterior flattening. Secondary changes not present.</p> <p>* CRO Treatment may be recommended</p>	<p>93-97%</p> <p>Moderate-severe posterior flattening. Widening of the posterior skull.</p> <p>CRO Treatment recommended</p>	<p>&gt;97%</p> <p>Severe posterior flattening. Abnormally wide and tall head. Tips of ears protrude. Face appears small relative to head size.</p> <p>CRO Treatment recommended</p>
		<p>Cephalic Ratio (CR)</p> <p><math>(\text{Width} / \text{Length}) \times 100\%</math></p>	<p>75-80%</p> <p>Within normal limits of symmetry.</p>	<p>72-75%</p> <p>Slightly elongated head shape.</p>	<p>69.5-72%</p> <p>Long and narrow head.</p> <p>* CRO Treatment may be recommended</p>	<p>&lt;69.5%</p> <p>Head is abnormally long and narrow.</p> <p>CRO Treatment recommended</p>

\*The classification scale shown here is adapted from the CHOA & Argenta severity scales and provides both a qualitative and quantitative approach to the identification of infant skull deformities. Treatment recommendations may also be influenced based on parental concern, infant's age, and overall clinical presentation. \*\* Cranial Remodelling Orthoses