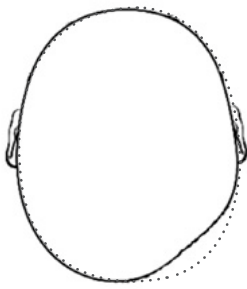


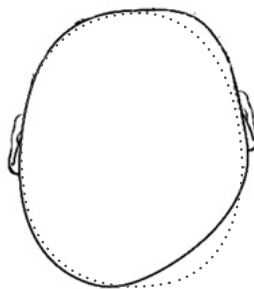
# VISUAL ASSESSMENT

## VERTEX / TOP-DOWN VIEW

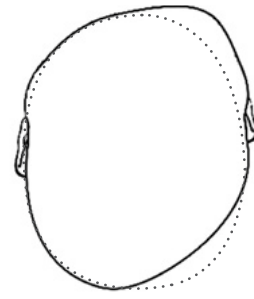
### LATERAL DEFORMATIONAL PLAGIOCEPHALY



**MILD**  
Flattening of back  
of skull only

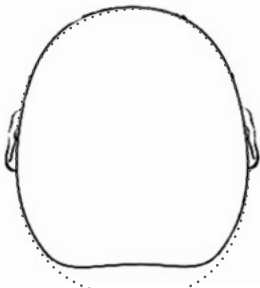


**MODERATE**  
Ipsilateral ear anteriorly displaced,  
ipsilateral frontal bossing

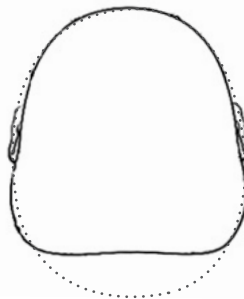


**SEVERE**  
Ipsilateral temporal  
skull growth

### POSTERIOR DEFORMATIONAL PLAGIOCEPHALY (BRACHYCEPHALY)



**MILD**  
Central posterior deformity

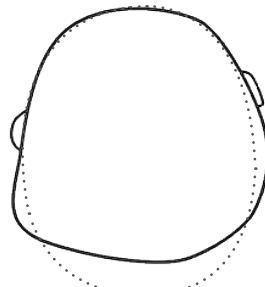


**MODERATE**  
Widening of posterior skull



**SEVERE**  
Temporal bossing

### LAMBDOID CRANIOSYNOSTOSIS



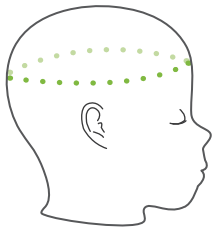
Ipsilateral mastoid bossing  
Ipsilateral posterior ear displacement

# ANTHROPOMETRIC MEASUREMENTS

PATIENT NAME ..... MRN .....

EVALUATION DATE ..... PATIENT AGE ..... PATIENT DOB .....

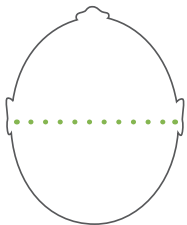
TORTICOLLIS:  YES  NO    SIDE:  RIGHT  LEFT



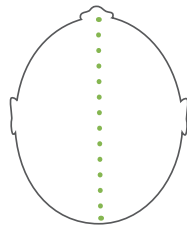
**CIRCUMFERENCE**

**HOW TO MEASURE HEAD CIRCUMFERENCE**

- Use a measuring tape that cannot be stretched
- Securely wrap the tape around the widest possible circumference of the head
- Broadest part of the forehead above eyebrow
- Above the ears
- Most prominent part of the back of the head



**WIDTH M/L**



**LENGTH A/P**

$$CI = \frac{M/L}{A/P} \times 100$$

**CEPHALIC INDEX (CI)**

**CEPHALIC INDEX (CI) SCALE**

Below 75% - Scaphocephaly

75-80% - Normal

80-85% - Acceptable

85% and above - Brachycephaly

**BRACHYCEPHALY SCALE**

80-90% - Mild Brachycephaly

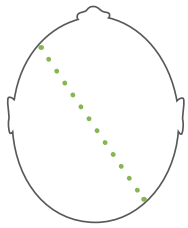
90-100% - Moderate Brachycephaly

100%+ - Severe Brachycephaly

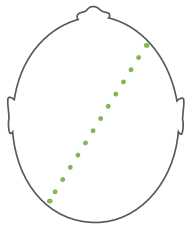
GENDER	AGE	-2 SD	-1 SD	MEAN	+1 SD	+2 SD
MALE	16 days - 6 months	63.7	68.7	73.7	78.7	83.7
	6-12 monts	64.8	71.4	78.0	84.6	91.2
FEMALE	16 days - 6 months	63.9	68.6	73.3	78.0	82.7
	6-12 months	69.5	74.0	78.5	83.0	87.5

The cephalic index is considered abnormal if it is two standard deviations (SD) above or below the mean measurements. (American Academy of Orthotists and Prosthetists (AAOP), 2004; Farkas and Munro, 1987)

# ANTHROPOMETRIC MEASUREMENTS



LEFT ANTERIOR -  
RIGHT POSTERIOR



RIGHT ANTERIOR -  
LEFT POSTERIOR

DIFFERENCE

CRANIAL VAULT  
ASYMMETRY (CVA)

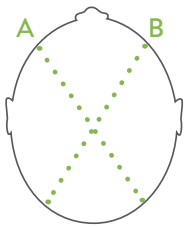
0-3mm - Normal

3-8mm - Mild

8-12mm - Moderate

12-15mm - Moderately Severe

15mm+ - Severe



DIAGONAL A

DIAGONAL B

$$CVAI = \frac{|A-B| \times 100}{A \text{ or } B \text{ (whichever is greater)}}$$

CRANIAL VAULT  
ASYMMETRY INDEX (CVAI)

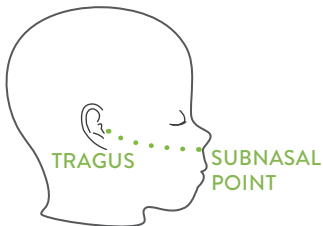
<3.5 - Normal

3.5-6.25 Mild

6.25-8.75 - Moderate

8.75-11.0 - Severe

>11.0 - Very Severe

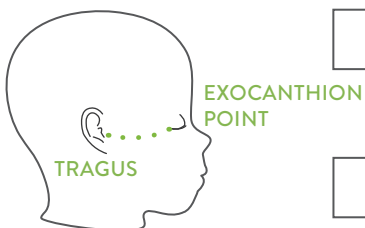


RIGHT SIDE

LEFT SIDE

DIFFERENCE

CRANIAL BASE ASYMMETRY



RIGHT SIDE

LEFT SIDE

DIFFERENCE

ORBITOTRAGIAL DEPTH  
ASYMMETRY