

Patient Name: Stocks, Nicholas A
Physician: Auth, Jonathan MD
Treatment Entry: 01/31/14
DOB: 09/11/13



01/22/2014



08/15/2014



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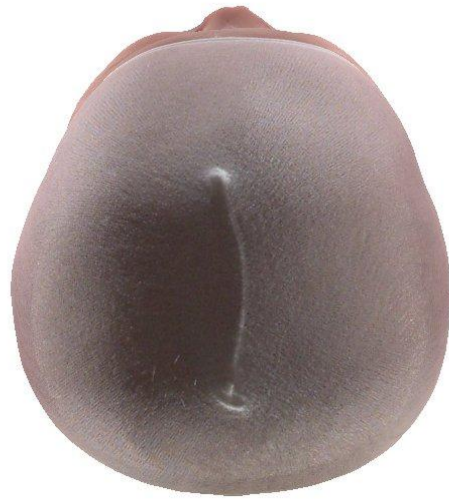
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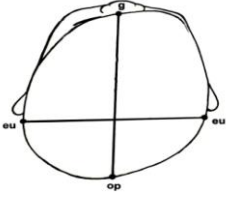


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Proportionality Measurements



The **Cephalic Index (CI)** is the ratio of the width to length of the head.

It is calculated by dividing cranial width by length, and multiplying by 100 $\{(width/length) * 100\}$.

Normal will usually range from 75 to 80, but will vary slightly with age and ethnicity.

The **Standard Deviation (SD)** is a measure of how far this ratio is from normal; anything over 2 SD is considered at least a moderate deformation.

■ **Entry Cephalic Index: 100.7**

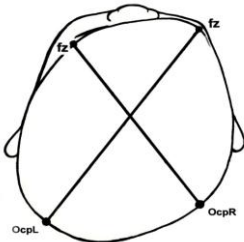
Entry Standard Deviation: +5.4

■ **Exit Cephalic Index: 89.5**

Exit Standard Deviation: +1.7



Asymmetry Measurements



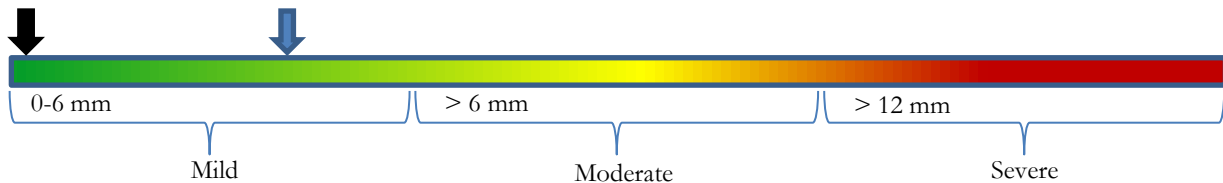
Cranial Vault Asymmetry (CVA) is the difference between the longest and shortest diagonal measurements from the forehead to the opposite posterior cranium.

CVA > 6 mm is often classified as a moderate deformity.

CVA > 12 mm is often classified as a severe deformity.

■ **Entry Cranial Vault Asymmetry (CVA): 4.0 mm**

■ **Exit Cranial Vault Asymmetry (CVA): 0.0 mm**



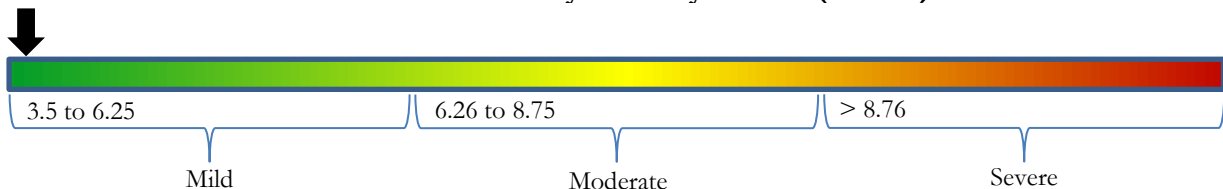
The **Cranial Vault Asymmetry Index (CVAI)** is the CVA divided by the shortest of the two diagonal measurements. It is useful because, as an index, it remains proportional as the head grows and is independent of age.

CVAI > 6.25 is often classified as a moderate deformity.

CVAI > 8.75 is often classified as a severe deformity.

■ **Entry Cranial Vault Asymmetry Index (CVAI): 2.8**

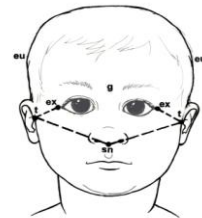
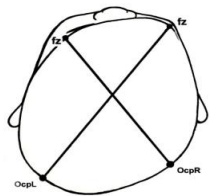
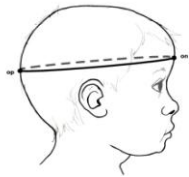
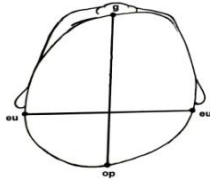
■ **Exit Cranial Vault Asymmetry Index (CVAI): 0.0**



Note: Linear measurements do not always convey the entire complexity of a three dimensional shape.

Anthropometric Measurements: Stocks, Nicholas A

Entry Image 01/22/14



| Proportionality Measurements | |
|------------------------------|--------|
| Width (EuL-EuR) | 137 mm |
| Length (g-Op) | 136 mm |
| Cephalic Index | 100.7 |
| Standard Deviation | +5.4 |

Circumference 445 mm

| Asymmetry Measurements | |
|-------------------------------|--------|
| FzL-OcpR | 146 mm |
| FzR-OcpL | 142 mm |
| Sn-TL | 92 mm |
| Sn-TR | 91 mm |
| ExL-TL | 60 mm |
| ExR-TR | 60 mm |
| Cranial Vault Asym | 4.0 mm |
| Cranial Vault Asymmetry Index | 2.8 |
| Cranial Base Asym | 1.0 mm |
| Midface Asym | 0.0 mm |

Exit Image 08/15/14

| Proportionality Measurements | |
|------------------------------|--------|
| Width (EuL-EuR) | 136 mm |
| Length (g-Op) | 152 mm |
| Cephalic Index | 89.5 |
| Standard Deviation | +1.7 |

Circumference 467 mm

| Asymmetry Measurements | |
|-------------------------------|--------|
| FzL-OcpR | 155 mm |
| FzR-OcpL | 155 mm |
| Sn-TL | 95 mm |
| Sn-TR | 96 mm |
| ExL-TL | 64 mm |
| ExR-TR | 64 mm |
| Cranial Vault Asym | 0.0 mm |
| Cranial Vault Asymmetry Index | 0.0 |
| Cranial Base Asym | 1.0 mm |
| Midface Asym | 0.0 mm |