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Metopic ridge

The metopic suture is the only suture which normally closes during infancy. Upon closure, a palpable and visible ridge often forms which can be confused with Trigonocephaly.

Applegren et al. sought to determine the relationship between mild-to-moderate trigonocephaly and anterior cranial volume using a noninvasive laser shape digitizer (STARscanner) in patients with abnormal head shape. An IRB-approved retrospective review of a prospectively maintained database and medical records was performed. Two hundred three patients less than 1 year of age with abnormal head shape were categorized as having a metopic ridge with mild-to-moderate trigonocephaly, metopic ridge without trigonocephaly, or no ridge. Measurements of cranial volume, circumference, and symmetry were calculated by the STARscanner, which quantifies three-dimensional shape of the cranial surface. Measures were analyzed using a series of analyses of variance and post-hoc Tukey honest significant difference.

The authors results showed ACV was significantly reduced in patients with mild-to-moderate trigonocephaly compared with those without metopic ridge (P=0.009), and trended toward significance compared with those with a ridge but without trigonocephaly (P=0.072). The ratio of anterior-to-posterior cranial volume was significantly reduced in those with mild-to-moderate trigonocephaly compared with those without metopic ridge (P=0.036).

Patients with milder anterior cranial deformities demonstrated an association between a metopic ridge with mild-to-moderate trigonocephaly and reduced anterior cranial volume ¹⁾.

Benign metopic ridge

Benign metopic ridge

1)

Applegren ND, Shock LA, Aldridge KJ, Derrick CD, Tanaka T, Baker CL, Muzaffar AR. Relationship of a Metopic Ridge and Anterior Cranial Volume Measured by a Noninvasive Laser Shape Digitizer. J Craniofac Surg. 2017 Oct 23. doi: 10.1097/SCS.0000000000000004065. [Epub ahead of print] PubMed PMID: 29065051.

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