

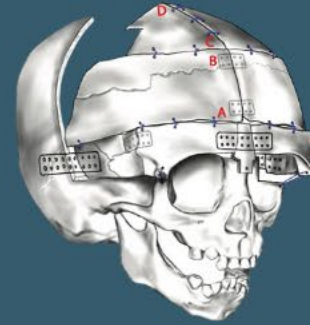
Overcorrection in Trigonocephaly: 3D-Based Morphometric Analysis of a Standardized Approach to Fronto-Orbital Advancement

Sarah Erpenbeck, BS; Miles J. Pfaff, MD, MHS; Madeleine K. Bruce, BA; Xiao Zhu, MD; Lucas Dvoracek, MD; Justin W. Beiriger, BSE; Jesse A. Goldstein, MD

Department of Plastic Surgery, UPMC Children's Hospital, Pittsburgh, PA

Objective

To describe in detail a standardized technique to fronto-orbital advancement utilizing the concept of “overcorrection” and objectively evaluate intermediate results.



Methods

Patients who underwent FOA were identified and key craniofacial morphometric measurements were made.

Results

41 patients were included, 12 patients had follow-up imaging at least 2 years postoperatively. Comparisons were made between immediate postop and 2-year postop measurements.

Significant postoperative increase over 2-year period in endocranial angle and decrease in interfrontozygomatic suture distance.

This standardized “overcorrection” approach for trigonocephaly can provide the appropriate changes to maintain a normal endocranial angle despite a reduction in bifrontal width over time.

