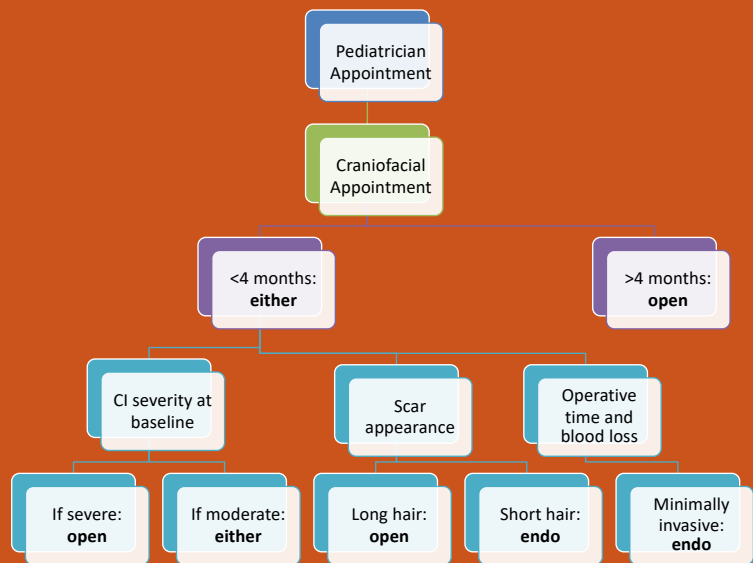


Correcting sagittal craniosynostosis requires shared decision-making between surgeons and parents.



Long-Term Appearance and Outcomes of Strip Craniectomy Compared with Cranial Vault Reconstruction in Sagittal Craniosynostosis

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Methods

Chart Review	Preoperative Cephalometric Measurements	Postoperative Cephalometric Measurements	Parent Surveys	Subjective Appearance Ratings
- Demographics - Perioperative outcomes	Preoperative CT scans	Postoperative 3D photographs	- Satisfaction with surgical outcomes - Psychosocial outcomes	- Blinded craniofacial surgeon - Whitaker Rating Classification

Results: Each method had advantages and disadvantages.

Endoscopic patients had superior intraoperative outcomes.

- Shorter hospital stays, operations, and less blood loss

Open patients had better cranial index measurements and subjective appearance ratings.

- Endoscopic patients continued to be scaphocephalic and had recommendations for further surgeries

Open and endoscopic parents had similar satisfaction with their child's appearance.

- Parents reported similar satisfaction with surgical outcomes and similar psychosocial outcomes

Discussion: Neither method has generalizable superiority. Endoscopic patients had more severe presentations at baseline, which might have contributed to worse long-term measurements and ratings.

Endoscopic patients presented earlier to Craniofacial Clinic

Had more severe scaphocephaly at baseline, worse long-term measurements and ratings

Patients with severe scaphocephaly under 4 months old may consider undergoing open surgery

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