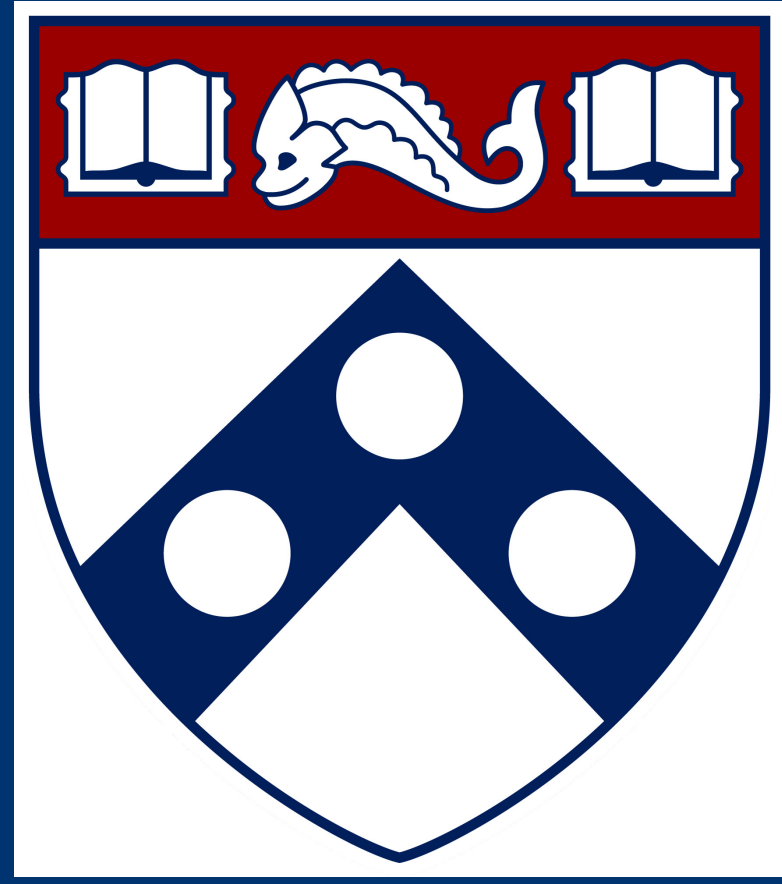
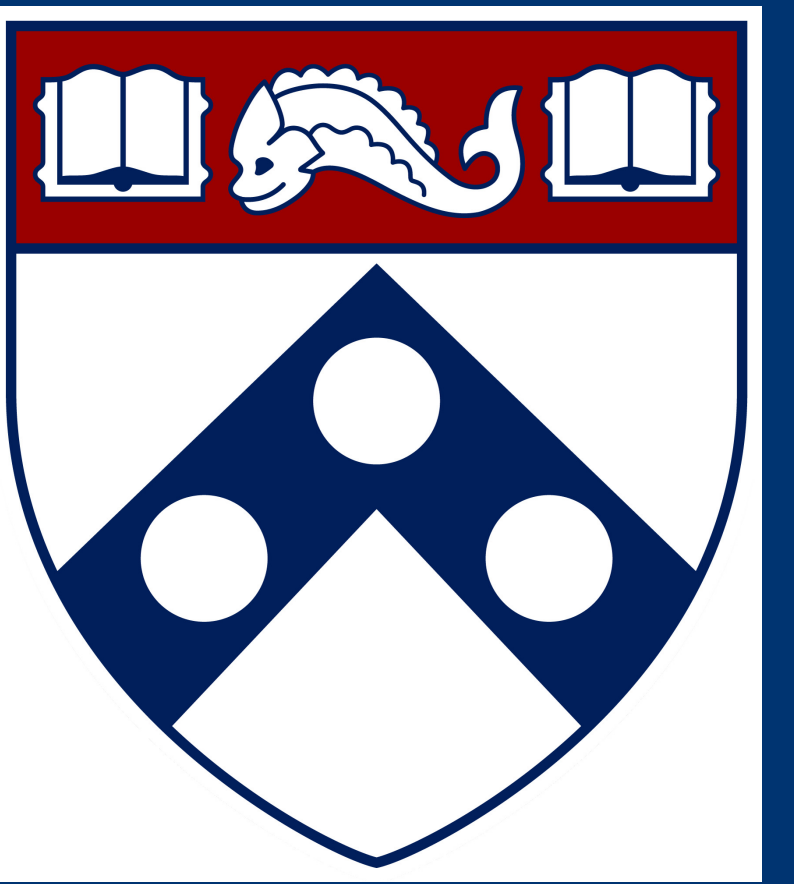




The Psychological Impact of a Maxillofacial Prosthesis on a Growing Teenager

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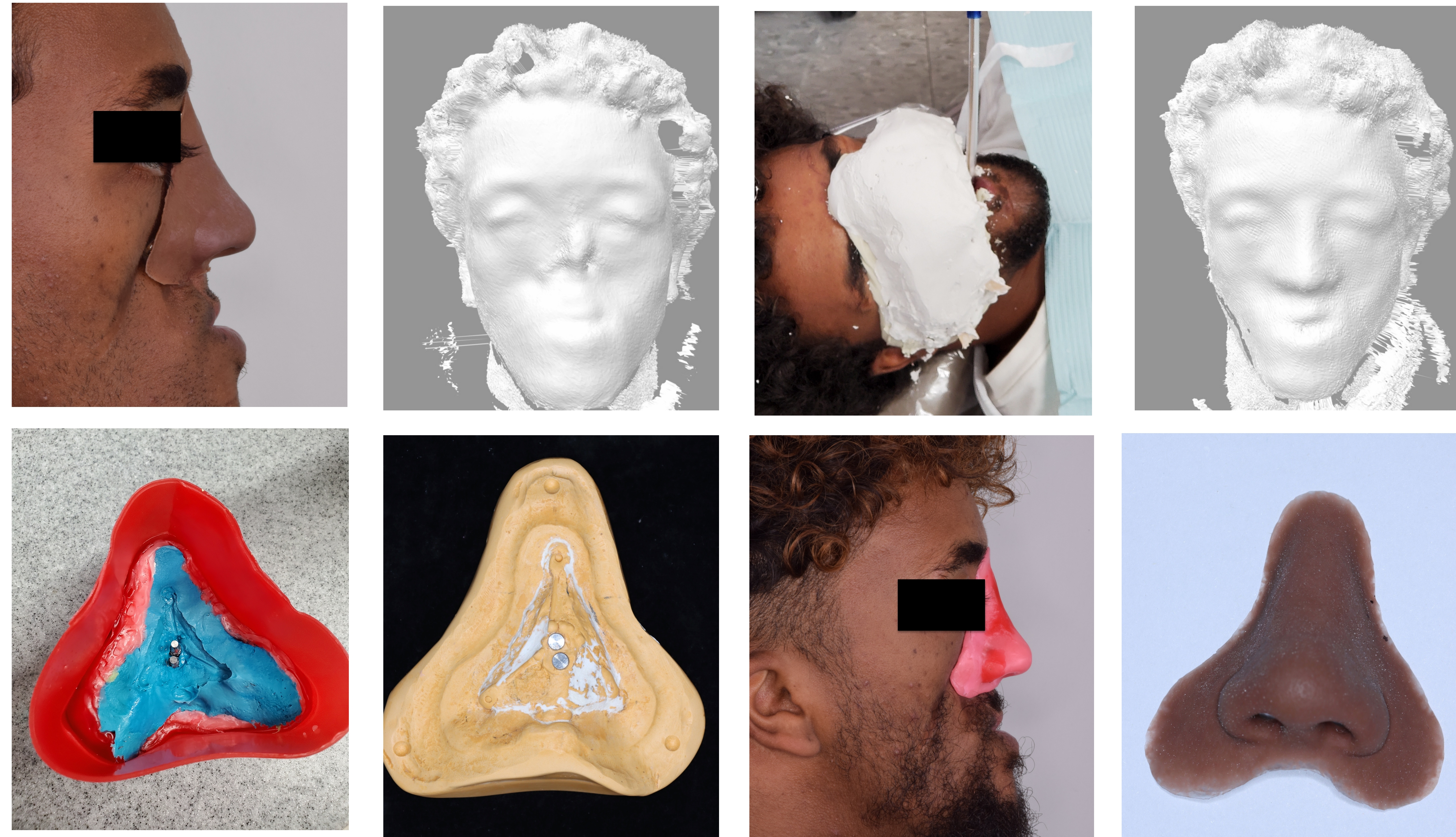
Introduction

Prosthetic rehabilitation for an active and growing adolescent poses several challenges. The patient has experienced increasing social pressure as a high school student due to an ill-fitting prosthesis. Lack of prosthesis retention resulted in decreased participation in team sports. The previous prosthesis, while adequate at delivery, had lost retention after a period of two years. A new prosthesis was fabricated to accommodate the patient's growth and provide a retentive and esthetic solution.

Case History

A wild hyena attack in Ethiopia resulted in a 6-year-old male sustaining a severe loss of orofacial structure, including his nose and anterior maxilla. The patient had an adhesive retained prosthesis that was inadequate as the patient became increasingly more engaged in sports and activities. An adjustable implant-retained framework was placed to retain a nasal prosthesis magnetically. As the patient continues to grow, soft tissue adaptation decreases, consequently affecting retention and esthetics.

Methods



1. Initial presentation: Patient presented with Ill-fitting nasal prosthesis.
2. Digital Impression with extra-oral scan
3. Analog Impressions
4. Digital Wax Try-in
5. Beading and Boxing of Final Impression
6. Master cast with magnet analogs
7. Analog Wax try-in
8. Prosthesis Delivery with subsequent custom staining

Outcomes

- Excellent Retention
- Realistic custom shading
- Well-adapted periphery
- Increased confidence and participation in team sports
- Esthetic Improvement
- Results deemed satisfactory by both the patient and his family



Conclusions

Engaging the patient and their family in all steps of treatment is key to case acceptance and prosthesis satisfaction. While promising, the digital scan did not capture sufficient soft tissue detail for accurate prosthesis fabrication.