

Abstract

This case presentation covers the importance of assessing facial support and implementing surgical procedures to improve esthetics and functional outcomes of fixed implant restorations for patients with severely atrophic ridges that would otherwise require an implant-retained removable prosthesis.

Initial Presentation

A 40 y.o. female with a 12 yr history of complete edentulism presented with severely atrophic maxilla and mandible, interested in a fixed treatment option to improve her speech for her job. Her extraoral exam revealed a lack of lip support with the prosthesis in place. Intraoral exam showed severely atrophic maxillary and mandibular ridges.

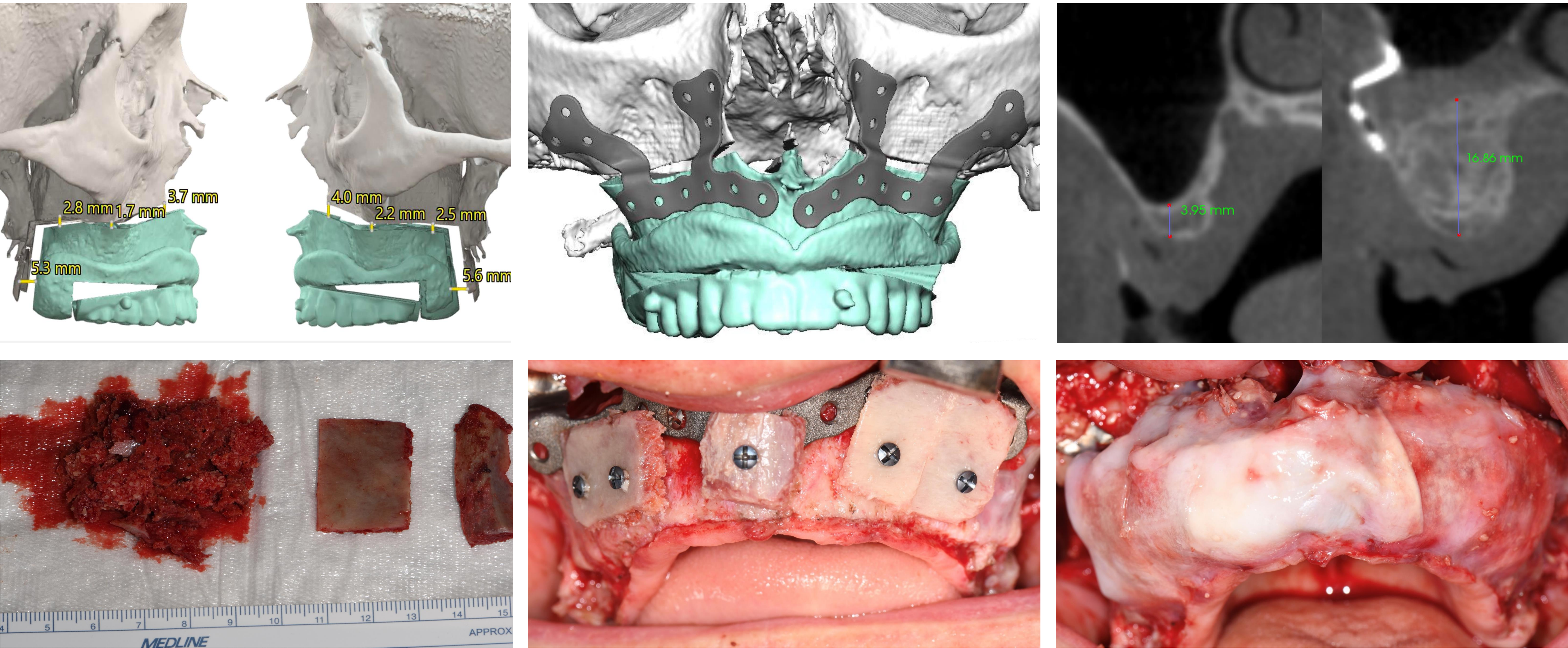
Treatment Plan

To improve facial support and implant–prosthesis alignment, the patient underwent a LeFort I osteotomy with autogenous iliac crest bone grafting, BMO harvest, and inferior mandibular grafting. After healing, interim dentures were made, followed by guided placement of 6 maxillary and 4 mandibular implants.

Pre-treatment



Surgical Phase



Prosthetic Phase

