ZYGOMATIC IMPLANTS IN MAXILLARY ATROPHY

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INTRODUCTION

The edentulous in the maxillary region have a unique anatomy, which limits the number and distribution of implants; the maxillary sinus bilaterally and the position of the nasal floor in the premaxilla region may limit the vertical volume of the alveolar bone available for implant placement, and the posterior resorption pattern in the edentulous maxilla may also limit the horizontal volume required for the implant housing.

OBJECTIVE

Demonstrate that zygomatic implants are an excellent option in the management of patients with severe maxillary atrophy

METHOD

Freedman et al, demonstrated that there are 2 areas identified as load bearing along the implant which correspond to the implant platform and the middle portion. The magnitude of these decrease significantly when splinted. Applying a load on the long axis of the zygomatic implant results in 3 times higher stress when the bone support is reduced from 20 to 10mm. The bone support at 15mm caused stress which was slightly greater than the support at 20mm.¹



Aparicio describes the anatomy-guided approach (ZAGA) taking into account the lateral wall of the maxillary sinus, the residual alveolar border and the zygomatic abutment in relation to the implant.³







The preparatory evaluation takes into consideration the alveolar bone in the different areas of the maxilla, dictating the surgical management.²

DISCUSSION

-Lekhom et al. Report that the success rate of onlays and inlays grafts is 60%; Lefort I osteotomy 76% to 84%.

-Rasmusson graft and simultaneous implant placement 77% and in placement in a second phase is 80%.

-Branemark zygomatic implants 97.9%.

DECLARATION OF CONFLICT OF INTERESTS

There is no conflict of interest between the author and co-author.



Zygomatic implants have become an important tool in the restoration of patients with severe maxillary atrophy, with the main advantage that it reduces rehabilitation time and minimizes the cormobility of donor sites.-Branemark zygomatic implants 97.9%

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