



Retrospective analysis of 217 zygomatic implants in 73 patients treated between 2011 and 2020 with full maxillary prosthetic rehabilitation

Authors :

Camille Leroy¹, Raphaël Bonnet^{2,3}



Institutions :

¹ Service de Chirurgie Orale, CHU de Nantes, France

² Clinique de Stomatologie et Chirurgie Maxillo-Faciale, CHU de Nantes, France

³ Clinique Brétéché, Groupe ELSAN, Nantes, France

Abstract :

Zygomatic Implant (ZI) is a reliable technique for the rehabilitation of edentulous maxilla. However, the evaluation criteria are not unanimous.

This retrospective study analysed ZI in patients treated for maxilla atrophy or after failure of reconstruction. The aim of the study was to evaluate the success and the complication rate associated with ZI using the ORIS criteria.

The implants were placed using quad (4 ZI) or hybrid (ZI and conventional implants (Cis) in premaxilla) surgical techniques followed by immediate loading in edentulous patients. Clinical and radiographic evaluations were carried out at 1-year at least after implantation. This evaluation focused on implant survival, prosthetic offset,

clinical and radiological signs of sinusitis, peri-implant soft tissues health and implant stability, thanks to ORIS criteria.

Results: A total of 73 patients, with 217 zygoma implants, were included in the study. The cumulative survival rate was 98.16%. There were four implant failures in three patients. One ZI fracture and two implant mobilities were noticed. Other complications included 21 sinusitis, 28 peri-implant inflammatory or infectious reactions and 6 implant stability loss. There were no drop-outs and the median follow up of the patients was 41,6 months (with a range of 12-118,2 months).