Published in **"Journal of osseointegration"**
J Osseointegr 2019;11(2):113-121.

This study was not sponsored by MIS

Surgical-prosthetic Rehabilitation of Patients with Aggressive Periodontitis and Immediately Loaded Implants: A Report of Two Cases.

J. R. Collins[1], R. H. Lalane[2], G. Ogando[1], M. Nasser[2], G. E. Romanos[3]

Abstract

Background: Treatment with dental implants demonstrated to be a predictable procedure to replace lost or defective teeth in patients with a history of chronic and aggressive periodontitis. Dental implants are less successful in compromised patients compared to uncompromised patients.

Case report: In this report, two cases of Generalized Aggressive Periodontitis (GAgP) were treated by multidisciplinary management and a two-year follow-up is presented. The patients received prosthetic treatment with immediately loaded implants using a supported surgical computer-planned guide (MGUIDE, MIS Implants Technologies). Dental implants (SEVEN Implants, MIS Implants Technologies) were inserted by mean of a flapless procedure, and were immediately provizionalized. The survival of the implants was evaluated by clinical and radiographic means after two years. Minimal pain and oedema on the surgical site were observed.

Conclusion: The 2 case reports support the benefit of immediate loading with provisional implant-retained fixed prosthesis in patients with GAgP.

Case 1.

Implants used in patient #1	
Position (No.)	Implant type
5	3.75 mm x 8 mm
6	3.75 mm x 8 mm
7	3.75 mm x 8 mm
9	3.3 mm x 10 mm
10	3.75 mm x 8 mm
12	3.75 mm x 10 mm
21	3.75 mm x 10 mm
23	3.75 mm x 11. 5 mm
24	3.75 mm x 13 mm
26	3.75 mm x 11. 5 mm
28	3.75 mm x 11.5 mm

Table 1. Length and diameter of SEVEN implants.

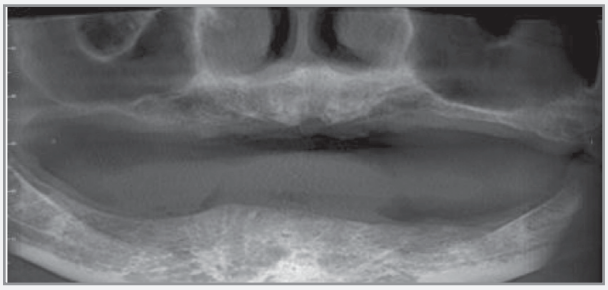

Fig1c. Post-extraction panoramic view. Note especially in the Maxilla the generalized severe posterior bone loss.

Fig1a. Preoperative view of the patient.

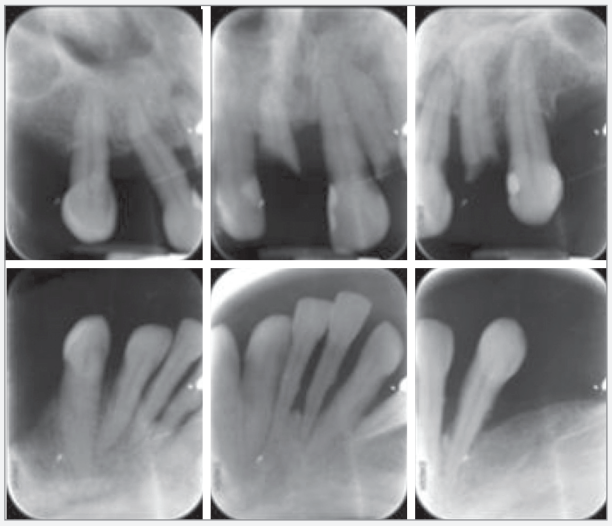

Fig1b. Intraoral periapical radiographs showing generalized horizontal bone loss.

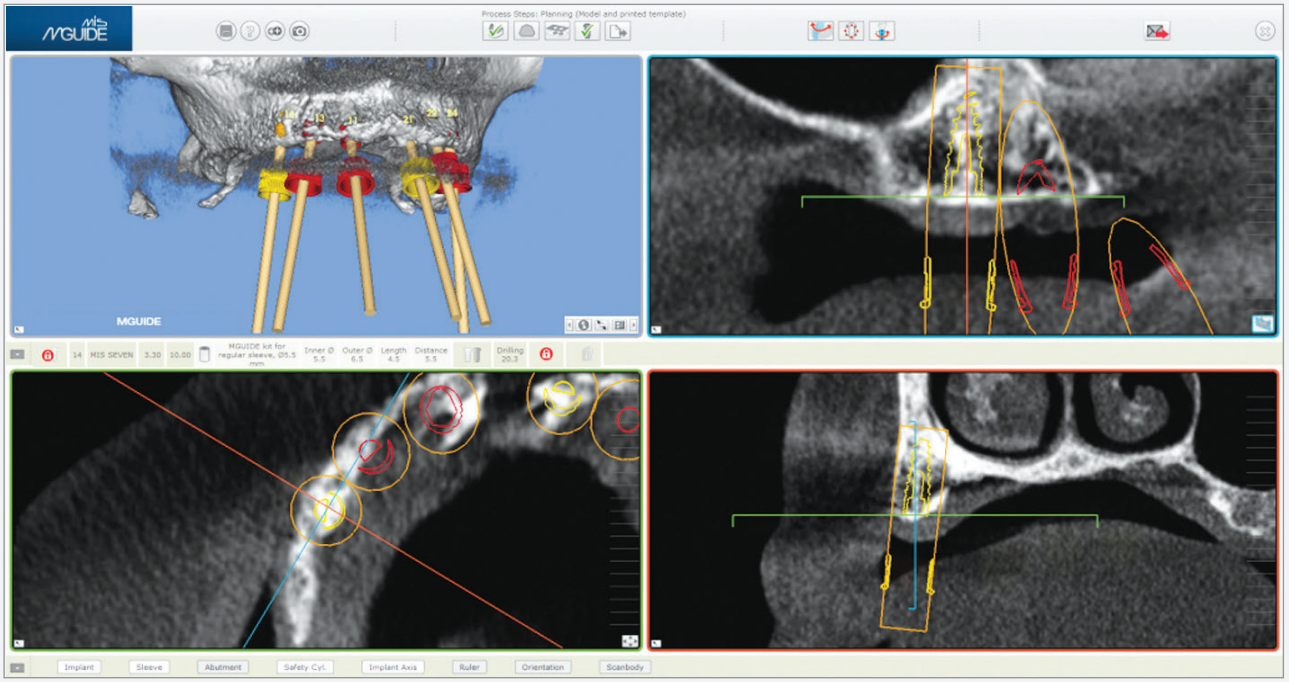

Fig1d. 3D implant simulation in the maxilla.

Fig 2a. Templates placed on the palate and maxilla.

Fig 2b. Mandibular template.

Fig 2c. Clinical follow up at 2 years.

Case 2.

Implants used in patient #2	
Position (No)	Implant type
2	5 mm x 11.5 mm
3	5 mm x 8 mm
5	4.20 mm x 10 mm
12	3.3 mm x 11.5 mm
13	3.75 mm x 8 mm
14	3.75 mm x 8 mm
19	3.75 mm x 11.5 mm
20	3.90 mm x 10mm
30	3.75 mm x13 mm

Table 2. Length and diameter of SEVEN implants.

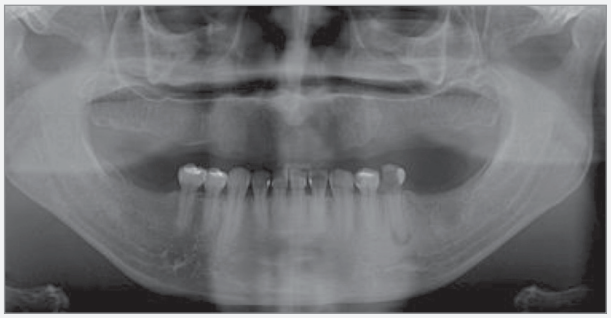

Fig 3a. Panoramic X-Ray showing complete absence of teeth in the upper jaw and bilateral absence of mandibular molars.

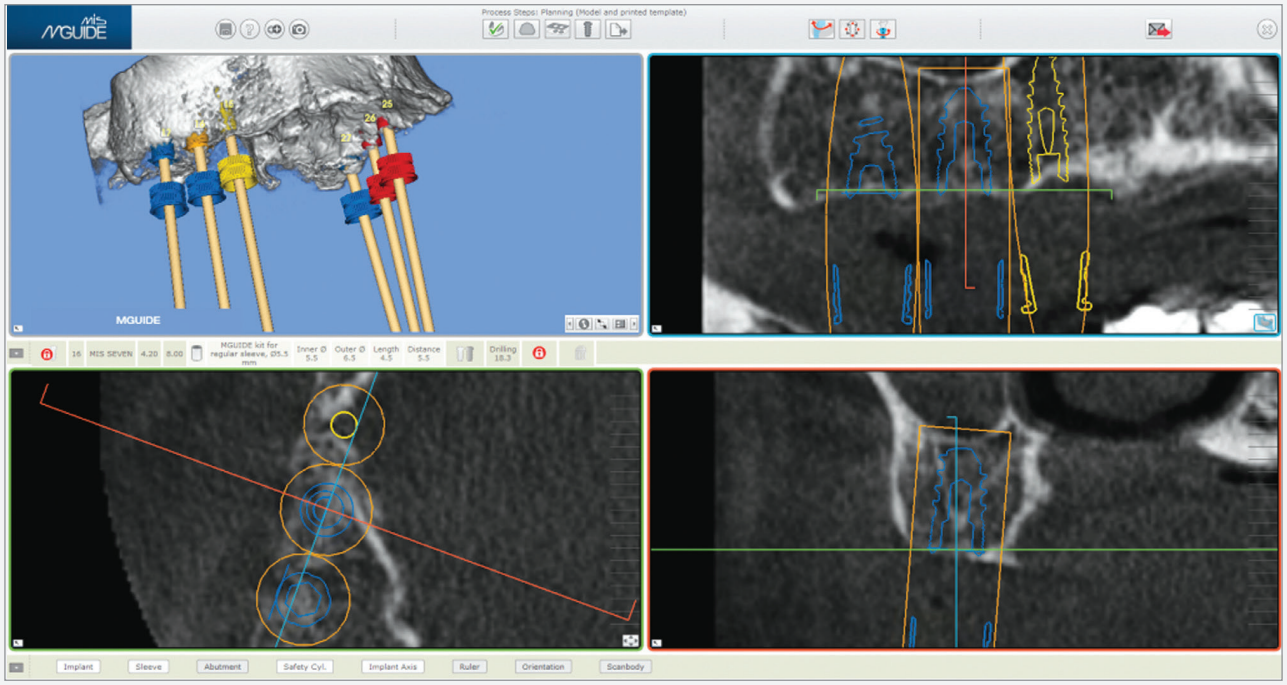

Fig 3b. Maxillary implant virtual planning.

Fig 3c. Maxillary surgical guide for a flapless technique.

Fig 4. Occlusion view of the surgical MGUIDE clipped on the remaining teeth .

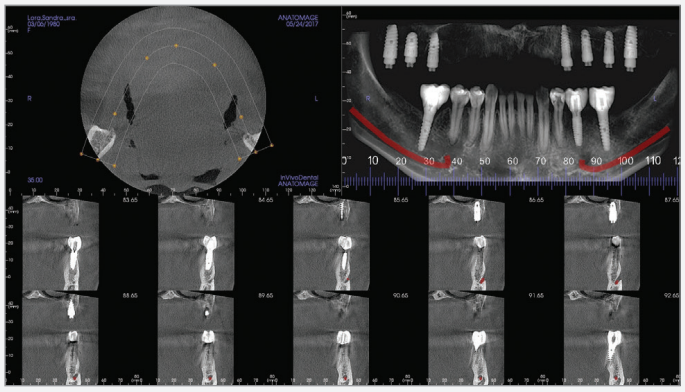

Fig 5. CBCT at 2-year follow-up after loading.

Authors' affiliations

[1] Department of Periodontics, School of Dentistry, Pontifical Catholic University Mother and Teacher (PUCMM), Campus Santo Tomas de Aquino (CSTA). Santo Domingo, Dominican Republic.

[2] Department of Prosthodontics, School of Dentistry, Pontifical Catholic University Mother and Teacher (PUCMM), CSTA, Santo Domingo, Dominican Republic.

[3] Department of Periodontology, Stony Brook University, School of Dental Medicine, NY, USA.