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Subperiosteal implant laser-made for the resolution of extreme bone resorption in the lower jaw

Guido Schirolì

University of Genoa, Italy

Objective: We evaluated the efficacy and clinical results of subperiosteal titanium implants made with new technology laser-sintering in patients with advanced bone atrophy of the jaw.

Materials & Methods: During the period from 2011 to 2014, eleven partial edentulous patients (6 men and 5 women) with lower extreme distal bone deficiency and regular opposite occlusion have been enrolled for an implant treatment and fixed restorative rehabilitation. The proximity between alveolar nerve and the residual crestal bone prevents the placement of regular or short implants. Eleven subperiosteal implants have been placed in eleven patients after an examination with Cone beam in the virtual environment through the use of specific software. The optical scanning of the models allowed modeling the prosthetic abutments that constitute a single piece with the part of the plant to support the bone. Titanium implants were made with procedure cad-cam laser sintering (sintering of metal powders). The prosthesis was applied the day after the surgery.

Results: All implants were placed with a primary stability. The postoperative course was comfortable and the immediate loading has allowed the patient to resume immediately a functional mastication. The implants are stable with no pain and inflammation.

Biography

Guido Schirolì received a degree in medicine in 1988, University of Genova and did specialization in Dentistry in 1991 with grade 48 \ 50 University of Genova. He did Master in oral surgery from Harvard University - Boston 1992-1994. He also underwent training in "Periodontal surgery (continuing education) University of Michigan Ann Arbor (USA) 1998 and in "Implantology & oral surgery" at the Misch Implant Institute - Toronto (Canada) in 2001. He did a training course on "Computer guided Nobel ProCera course" Goteborg (Sweden) in 2006 and a clinical course on the technique "Zygoma clinical protocol" at Branemark Institute, Prof. Rosenberg Ruben Santiago 2006.

schirol@tin.it

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