



Oral rehabilitation of completely edentulous geriatric patients using mini implant supported overdenture: Two case studies

Mona Aboelnagga^{1,2} and Sawsan Maged Fadl¹

¹Ain Shams University, Egypt

²Taibah University, Saudi Arabia

Abstract:

The increase in the number of old people will translate into an increase in special care and attention to maintain a reasonable quality of life to face the disability in this group. The loss of teeth in elderly patients not only impairs the stomatognathic system but also their psychological status and quality of life. Tooth loss has a direct influence on reduced masticatory function and may lead to a shift towards a poorly balanced diet. Upper and lower complete dentures were constructed in the usual manner for two completely edentulous patients 60 and 68 years old. Treatment plan was put to rehabilitate them by mini-implant retained complete overdenture. Patients were properly examined clinically to detect any abnormalities in ridge, mucosa or temporomandibular joint and a diagnostic panorama was taken using his lower denture marked with gutta-percha as radiographic stent, where four mini dental implants have been inserted in the lower ridge in the symphyseal area. The two patients were recalled after implant insertion; to pick up the metal housings with rubber O-rings were placed and accurately fitted to the ball parts of mini implants. Changes in the crestal bone height around the mini-implants was radiographically evaluated using digital panoramic radiographic evaluation at the time of denture insertion, 6 months and 12 months after denture insertion. The results of the two reported cases showed that mini-implant retained mandibular overdenture could be considered a reliable and promising treatment modality for completely edentulous elder patients.

Biography:

Mona Aboelnagga is an Associate Professor of Prosthodontics at Prosthodontic Department, Faculty of Dentistry, Ain Shams University, Egypt and visiting Associate Professor at College of Dentistry, Taibah University, Saudi Arabia. She had MSc (2006) and PhD (2011) in Oral and Maxillofacial Prosthodontics from Ain Shams University. She is a "Prosthodontic consultant" in Saudi commission



for health specialties (SCHS), she is TOT certified practitioner (Ain Shams university 2017). She is MBTI certified practitioner. She is reviewer in Macdonian Medical Science Journal, associative editor in Journal of Biomedical Science (Department of Dentistry and Endodontics) and editor in SAODS (Scientific Archives of Dental Sciences). She was a speaker at several dental and medical conferences and shared in workshops and lectures in continuous dental education at Faculty of Dentistry, Ain Shams University. She has published several research articles in various national and international dental Journals. She has shared in publishing a dental terminology book. She supervised several researches of postgraduate studies at Ain Shams and students' teams at Taibah universities. And has experience in teaching oral and maxillofacial prosthodontics and implantology for undergraduate dental students and postgraduate residents.

Publication of speakers:

1. Moustafa Abdou ELsyad , Abdelrahman Elsaied Abdraboh, Mona M Aboelnagga et al, "Effect of Low-Level Laser Irradiation on Stability and Marginal Bone of Narrow Implants Retaining Overdentures in Moderately Controlled Diabetic Patients", J Oral Implantol, 2019 Oct;45(5):391-397.

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