

5th World Congress on
DENTISTRY AND MAXILLOFACIAL SURGERY
September 18-19, 2023 | Rome, Italy

Received Date: 06-04-2023 | Accepted Date: 06-06-2023 | Published Date: 10-20-2023

Effectiveness of UV functionalised short implants placed in the posterior segments of the Atrophied Maxilla controlled case series

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Statement of the Problem: Short implants in patients with bone atrophy in the posterior atrophied maxilla are a viable alternative to bone grafting with a favorable prognosis. The use of short implants in the atrophied maxilla reduces the operating time and costs, making the procedure more accessible to patients. Patients were satisfied with the minimally invasive method of treatment.

Background: The study was to evaluate the survival rate of short implants (5-6 mm) functionalized with UV radiation, placed in the posterior segments of the atrophied maxilla. Materials and methods: The study included 47 patients from 2018 to 2023 (aged 27 to 56 years, 24 women and 23 men) without any systemic diseases, with unilateral/bilateral missing teeth and of the vertical atrophy posterior maxillary area. Total installed 64 short UV-functionalized implants and 62 standard implants over 10 mm in length in segments maxilla with sufficient bone parameters.

The clinical indices included the following parameters: ISQ, MBL, OHIP-G scale.

Results: For short implants, the median ISQ at placement was 62.2 for primary stability and the median ISQ at 5 months was 69.6 ISQ. For standart implant, the mean ISQ at placement was 64.3 ISQ, and ISQ after 5 months was 71.6 ISQ.

After 6 months mean MBL short implants 0.87 mm, after 1 year 1.13 mm, after 5 year was 1.48 mm. After 6 months mean MBL standard implants 0.84 mm, after 1 year 1.24 mm, after 5 year was 1.58 mm.

Mean OHIP-G scores-patients satisfaction with the implant at 4.8 ± 0.3 , satisfaction with the operation 4.6 ± 0.4 ; satisfaction with prosthetics 4.7 ± 0.5 .

Cumulative 5-year short implants rates was 96.7%, standard implants was 97.4%, and prosthesis cumulative survival rate was 97.2%.

Conclusions: Short ultraviolet functionalized implants used in the posterior resorbed segment of the maxilla reliable alternative to sinus lift, demonstrating fewer complications, reduction in the number of additional surgical interventions and showed satisfactory long-term survival.

Recent Publications

1. Gagik Hakobyan, Ashot Jilavyan, Gagik Khachatryan, Davit Mathevosyan, Gekham Tunyan, Naira Ghambaryan. Evaluation of the survival rate of short implants placed in the posterior atrophic mandible: 5-year clinical study Quintessence Int.2022 Aug 17;53(8):690-696. doi: 10.3290/j.qi.b3095013
2. Ghambaryan, N., Jilavyan, A., Burnazyan, S. et al. Clinical Outcome of Immediate Loading UV-Photofunctionalized Implants in Patients with Completely Edentulous Mandible, Placed with Guided Surgery. J. Maxillofac. Oral Surg(2023).. 22 (Suppl1)64-75
3. Hakobyan, A. Boyajyan, A. Dzhilazhyan, N. Gambaryan, V. Seyranyan, S. Gevorgyan, A. Khachatryan Comparative evaluation of the effectiveness of dental implants in patients with atrophy of the jaw bones with short implants and longer implants.Actual Dentistry No.3(2021): 2021 DOI:10.33295/1992-576X-2021-3-44

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Biography

Naira Ghambaryan, MD, is a respected educator and healthcare professional, serving as a Lecturer in the Department of Surgical Stomatology and Maxillofacial Surgery. Her journey in the field of medicine and dentistry is marked by a dedication to both academic excellence and practical patient care.

Naira's academic journey began at Yerevan State Medical University after M. Heraci, where she pursued her Bachelor's degree in Stomatology from 2000 to 2005. Her commitment to dentistry led her to undertake an internship at the same institution from 2005 to 2006. During this time, she acquired fundamental knowledge and skills that would lay the foundation for her future career.

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