e-ISSN XXXX-XXXX Vol 3, Issue 1, (2019)

Poster Presentation

Full-mouth Rehabilitation with All-on-4 Fixed Implant-Supported Hybrid Prostheses: A Case Report

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JOURNAL OF MEFFERT IMPLANT INSTITUTE

e-ISSN XXXX-XXXX Vol 3, Issue 1, (2019)

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Abstract

Introduction: Typically, full arch reconstruction of edentulous ridges requires five to 10 dental implants; however, some patients demanding fixed implant-supported prostheses are not able to medically or economically afford complex bone grafts and/or a greater number of implants. These situations could pivot the treatment plan toward the All-on-4 protocol.

Case Report: A 65-years old female patient presented our clinic in with an edentulous maxilla and mandible. The All-on-4 protocol was selected for full mouth reconstruction. Four implants (Dentsply Ankylos, Mannheim, Germany) were inserted in the maxilla and mandible. Three months later, radiographic evaluations confirmed that the implants had successfully osseointegrated, so the prosthetic phase was initiated 2 weeks after the placement of the healing caps. Next, diagnostic cast evaluation was performed. Because of the high vertical distance between the maxillary and mandibular arches, it was decided to fabricate a modified hybrid prosthesis to rehabilitate hard and soft tissue at the same time.

Discussion & Conclusion: A recent shift in practice paradigm has been to minimize treatment costs and patient morbidity while providing the most satisfying patient-centered treatment outcomes according to the state of the art of dental practice. The "All-on-Four" treatment concept is an attempt to reach these objectives by providing relatively straight forward, predictable treatment option to rehabilitate edentulous patients with a high outcome of quality of life.

This clinical report described the diagnosis, treatment planning, surgical treatment, prosthodontic treatment, maintenance, complications, and a 6-months follow-up of a patient who underwent treatment for a full-mouth rehabilitation with all-on-4 fixed implant-supported hybrid prostheses. In the present case a hybrid prosthesis has produced a satisfactory outcome from both the esthetic and functional points of view.

Keywords: All-On-4.