

21ST ANNUAL WORLD DENTAL SUMMIT

February 26-28, 2018 | Paris, France

The effect of silicone housing versus metal housing of ball and socket attachment on the retention of mandibular implant retained overdentures: A randomized clinical trialRamy Moustafa Moustafa Ali¹, Alaa Abu El- Ella², Mona Ahmed² and Mohamed Farouk Abdalla³¹Fayoum University, Egypt²Cairo University, Egypt

Purpose: To compare between metal with nylon cap and silicone housing material of the ball attachment regarding retention and patient satisfaction for two weeks, one month and two months after denture insertion.

Materials & Methods: 18 completely edentulous patients with age ranges from 50 to 60 years were selected from the outpatient clinic of the Prosthodontics Department, Faculty of Oral and Dental Medicine, Cairo University. For all patients, implant supported over dentures were constructed as usual then divided into two equal groups. First group with ball attached two implants supported over dentures with metal housing, while the second group was patients with ball attached two implants supported over dentures with silicone housing. Patients were recalled after two weeks, one month and two months for measuring the retention with digital force meter and patient satisfaction by seven point's visual analogue scale.

Results: Statistical analysis of retention and patient satisfaction in a comparison between the two groups together was done. The results obtained from this study revealed that, by comparing the two groups throughout the whole study period, the metal housing material with nylon cap is better than silicone housing material of ball attachment regarding retention and patient satisfaction at the all interval follow up periods

romel_a86@yahoo.com