

August 17, 2023 | Webinar

Received date: 30-03-2023 | Accepted date: 31-03-2023 | Published date: 25-08-2023

Evaluation of applying negative pressure in two different methods on the retention in upper complete dentures

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Aim: This study aims to evaluate the effect of applying resilient liners on the internal surface of the upper complete dentures in two different methods by forming negative pressure which increases the retention in upper complete dentures and comparing the upper dentures retention values before and after methods application.

Materials and Methods: Twenty follow-up edentulous patients have been selected from the removable prosthodontics department, Faculty of Dentistry, Tishreen University patients, to have their new complete dentures. In the first method, an auto-polymerized soft resilient liner was applied to the upper complete denture's internal surface in form of mini suction cups with specific diameter and depth, and these mini suction cups look-alike octopus tentacles and can form a negative pressure on the denture bearing mucosa. The second method works on applying the soft resilient liner in parallel to dentures borders in a specific width and thickness, afterward, retention was measured in kilogram units using a digital retention measurement device, medians were calculated from obtained results to be compared with values of retention for the two methods and the retention value of the witness denture bases before two methods application.

Results: There were statically significant differences between mean values of retention before and after the application of two methods compared to witness denture bases.

Conclusion: From the obtained results we can conclude that the soft resilient liner application in the two methods may contribute in increasing retention values in upper complete dentures.

Recent Publications:

1. Mayhoub.N, Evaluation of applying negative pressure in two different methods on the retention in upper complete Dentures, thesis, (2022), Tishreen University
2. Mahmoud Ahmad, Mahmoud Mahmoud, A clinical comparative study to Evaluate soft liners' efficacy as final impression material in the retention of upper complete dentures' bases, Tishreen University Journal -Medical Sciences Series: Vol. 44 No. 3 (2022)
3. Walaa Herbaly, Mahmoud Mahmoud, Mohamad samir al-brzawi, Comparison of some physical and mechanical properties of CAD/CAM acrylic resins with heat-cured acrylic resins after exposure to artificial saliva (an in vitro study), Tishreen University Journal -Medical Sciences Series: Vol. 45 No. 2 (2023).

Biography

Nour Mayhoub is a researcher that is very passionate about removable prosthodontics and enhancing the quality of dentures, and she a pivoted to teaching removable prosthodontics to dental students, she is looking forward to starting her Ph.D. in removable prosthodontics, she was also privileged to Join WHO HQ internship program in Public Health.

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