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## Evaluation of chewing efficiency and electromyography activity of muscles of mastication of patients wearing complete denture lined by flexible acryl (randomized clinical trial)

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### Background:

One of the goals that the prosthodontist has to achieve is to construct retentive and stable denture that subsequently enhances both function and esthetics. Subjective and objective contemplate provide controversial results of denture liners' influence on the masticatory ability. While results of some considerations indicated that chewing efficiency remarkably improves the chewing ability. Flexible acrylic resin liners offer better denture adaptation, patient satisfaction as well as denture retention due to its light weight and engaging more desirable undercuts.

### Aim

of this study was to assess the flexible lining acrylic resin material's influence on the chewing efficiency and activity of masticatory muscles in complete denture wearers.

### Materials and methods:

Twenty six completely edentulous patients were selected and were divided into two groups, Group I: patients wearing conventional heat cured acrylic complete denture. Group II: patients wearing conventional heat cured acrylic complete denture relined by soft acrylic versacryl. Chewing efficiency and Electromyography records taken for both groups at time of insertion, after first, second and third month post delivery.

### Results:

his study clarified that swallowing time for patients wearing complete dentures lined with soft acrylic versacryl was less than that for conventional complete dentures. EMG activity for both masseter and temporalis muscles were increased after relining of the complete denture with soft liner (versacryl). However, EMG activity of masseter muscle was higher than temporalis muscle in both groups.

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### Biography:

Eman Mostafa Ahmed Ibraheem is a professor of removable prosthodontics in National Research Centre, Egypt. I have 17 international publications in indexed journals such as Scopus, Pubmed, Medknow and Springer and 6 national publications. I had supervised for 4 Master and 1 Phd theses in removable prosthodontics. I was the principal investigator for a project entitled "Dental Care to Improve Quality of Life for Diabetic Geriatric Patients" funded by National Research Centre from 2016- 2017 till 2018- 2019 and also participated in 5 internal projects in addition to clinic supervision from 2016 till now.

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