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A Comparative Evaluation of Masseter and Temporalis Muscle Activity in Geriatric Patients with and without Complete Denture Prosthesis –An Electromyographic Study

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ABSTRACT

Introduction: Mastication is a highly coordinated neuromuscular function involving fast effective movements of the jaw and continuous modulation of force. In older people, these mechanisms act with marked differences. They have a reduced capacity in various functions of stomatognathic system.

Objectives: To evaluate the masticatory muscle activity in geriatric patients with and without complete denture prosthesis through Electromyographic study of masseter and temporalis muscles.

Methodology: A total of 20 edentulous subjects of both sexes, between the age group of 65 to 80years having no evident signs and symptoms or history of stomatognathic system and neuro muscular disorders were selected in the study. EMG recordings were made when patient became comfortable with denture approximately after one month.

Result: It was observed that for both the sides (right and left), muscle activity was found to be significantly more among Denture wearer subjects as compared to without denture prosthesis.

Conclusion: Within the limitations of study it was concluded that muscle activity of both the masticatory muscles showed higher activity in subjects wearing the denture prosthesis when compared to those without denture prosthesis.

Keywords: Maximum intercuspation, Electromyography, Masseter, Temporalis.

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