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JOPD

Journal of Prosthodontics Dentistry
An Official Publication of Bureau for Health & Education Status Upliftment
(Constitutionally Entitled As Health-Education, Bureau)

A COMPARATIVE ANALYSIS OF VARIOUS METHODS TO RECORD THE VERTICAL DIMENSION OF OCCLUSION IN EDENTULOUS PATIENTS - A CEPHALOMETRIC STUDY

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ABSTRACT:

AIM: The purpose of this study was to compare the vertical dimension at occlusion obtained from various methods with the vertical dimension at occlusion obtained from pre-extraction lateral cephalogram.

SETTING AND DESIGN:

An in-vivo comparative study

MATERIALS AND METHOD:

A clinical study was conducted on a sample of 12 dentate individuals who fulfilled the defined inclusion criteria. Vertical dimension at occlusion was measured using pre-extraction cephalogram analysis (Groups 1), post- extraction cephalogram analysis (Groups 2, 3, 4) and other methods (Groups 5, 6, 7).


RESULTS AND OBSERVATION:

The statistical analysis for the data collected in the clinical trials of measurement of the vertical dimension at occlusion on the patients were analyzed based on cephalometric analysis, facial measurements and finger method. The statistical tests used were one- way ANOVA and post-hoc Bonferroni test. The p-value was taken significant when less than 0.05 ($p < 0.05$) and confidence interval of 95% was taken.

CONCLUSION:

A single method is not a reliable tool for vertical dimension at occlusion determination but a combination of methods like swallowing methods, closest speaking space method and outer canthus of the eye to rima oris distance should be performed to achieve the vertical dimension at occlusion in edentulous patients for good results.

KEYWORDS: Vertical dimension, occlusion, jaw relation, cephalometric

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Website: http://heb-nic.in/jopd	
Received on 14/06/2021	
Accepted on 05/07/2021 © HEB All rights reserved	