



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

Reliability of the relationship between occlusal plane and camper's plane in dentate patients: a cephalometric study in Moradabad population (North India)

*¹Dr. Sujata Pandey, ²Dr. Swatantra Agarwal, ³Dr. Siddhi Tripathi,
⁴Dr. Soumitra Agarwal, ⁵Dr. Reena Mittal*

¹Reader, Department of Prosthodontics and Crown & Bridge, Kothiwal Dental College & Research Centre, Kanth Road, Moradabad-244001, Uttar Pradesh, India

²Professor & Head of Department, Department of Prosthodontics and Crown & Bridge, Kothiwal Dental College & Research Centre, Kanth Road, Moradabad-244001, Uttar Pradesh, India

³Professor, Department of Prosthodontics and Crown & Bridge, ITS CDSR- Dental college & hospital, Muradnagar, Ghaziabad-201206 Uttar Pradesh, India

⁴Senior Lecturer, Department of Prosthodontics and Crown & Bridge, Kothiwal Dental College & Research Centre, Kanth Road, Moradabad-244001, Uttar Pradesh, India

⁵Professor, Department of Prosthodontics and Crown & Bridge, Kothiwal Dental College & Research Centre, Kanth Road, Moradabad-244001, Uttar Pradesh, India

CORRESPONDING AUTHOR:

Dr. Sujata Pandey, Reader, Department of Prosthodontics and Crown & Bridge, Kothiwal Dental College & Research Centre, Kanth Road, Moradabad-244001, Uttar Pradesh, India

Email Id: serviceheb@gmail.com

ABSTRACT

Introduction:

Establishment of a proper occlusal plane is needed for developing an occlusion that is compatible with the biomechanics of a stomatognathic system. Ideally the ala camper's plane is considered to be parallel to the occlusal plane and is the most commonly used landmark to establish posterior occlusal plane in edentulous subjects. However, a controversy exists as to which part of the tragus should be taken as reference to establish the ala tragal line. Hence a study was planned to determine the reliability of the relationship between occlusal plane and camper's plane using different reference points in various Angle's molar relationship in Moradabad population.

Materials and Methods:

Sixty subjects were selected and categorized into 3 groups based on molar relationship (Angle's class I, II, and III) each having 20 subjects. The superior, middle and inferior border of tragus and lower border of the ala of the nose was marked and radiographic markers were adhered. Lateral cephalogram were taken. Cephalometric planes and angles were evaluated. The data obtained was subjected to statistical analysis.


Results:

Significant difference ($p < 0.05$) was found between the mean angle's between Camper's plane angle (A, B and C) and Angle O in all the groups.

Conclusion:

It was concluded that in all the groups studied, inferior border of the tragus of the ear was relatively parallel to the occlusion plane and can be taken as a reliable landmark for determination of occlusal plane in completely edentulous patients.

Keywords: Camper's plane, Occlusal plane, Angle's molar relationship and lateral cephalogram.

| | |
|--|--|
| Access this Article Online | Quick Response Code:  |
| Website: http://heb-nic.in/jopd | |
| Received on 15/10/2023 | |
| Accepted on 31/10/2023 © HEB All rights reserved | |