

Study of Condylar Position in Centric Relation and Centric Occlusion: A Radiographic Study

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ABSTRACT:

Statement of Problem: Various concepts, definitions and interpretations have evolved for centric relation and centric occlusion. The proper condylar position is most important for acceptable prosthodontic reconstruction of occlusion.


Aims and Objectives: To evaluate radiographically the spatial differences in the condyle-to-fossa relationship when the mandible was in the centric relation and centric occlusion positions.

Material and Methods: The study was done on 25 subjects selected at random from among the patients attending the out patient department. The transcranial radiographs will be made for each subject for the right and left regions in centric occlusion and centric relation. Then the space between the glenoid fossa and the condyle will be measured in both centric relation and centric occlusion to evaluate condyle fossa relationship.

Results: The spatial differences between the centric relation and centric occlusion positions on the right and left sides was statistically analyzed. It was found that the $p > 0.05$ for the superior, anterior and posterior measurements in centric relation and centric occlusion so it not significant at required level.

Conclusions: The study signifies that the centric relation and centric occlusion is related spatially on both left and right sides. The results of this study indicate that when centric relation was compared to centric occlusion, the condyles were positioned more anteriorly and superiorly in centric relation position. The present study also shows that in centric occlusion position the condyles were almost centrally located antero-posteriorly in their fossa.

Key Words: Centric relation, Centric Occlusion, Condyle fossa relationship.

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