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Effect of Treating Unilateral TMJ Ankylosis on Sagittal Condylar Guidance Angle

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Abstract

Aim and objectives: To measure and compare radiographically sagittal condylar guidance angle (SCGA) in patients treated for unilateral TMJ ankylosis pre-operatively, post-operatively, 3 months post-operatively.

Material & methodology: The orthopantomograms (OPG) of 30 patients as per the ankylosis treatment viz. reconstruction or non-reconstruction of ramus condylar unit (RCU) were selected and divided into two groups of 15 each. SCGA was measured from OPG - pre-operatively, post operatively and post operatively (3 months) of each subject. SCGA was calculated by measuring the angle formed by Frankfort horizontal line and the line joining the most superior and most inferior point on the glenoid fossa on orthopantomogram.

Conclusion: The difference in Sagittal CGA in both the groups (intragroup) at the three periods of observation was found to be statistically significant.

Key words: sagittal condylar guidance angle, TMJ ankylosis

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