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CBCT-generated cephalogram evaluation on short term changes in the condylar position after surgery-first approach in mandibular prognathism

The purpose of this study was to compare the condylar displacement in surgery-first patients between the symmetry and asymmetry groups using cone-beam computed tomography (CBCT) generated cephalogram. The subjects consisted of mandibular prognathism with and without facial asymmetry who underwent mandibular setback surgery and had CBCT taken before (T0), about one week (T1) and seven months (T2) after surgery. They were allocated into symmetry (n=18) and asymmetry (n=18) groups. The condylar position was measured. As the results of comparison of the condylar positional changes before and one week and seven months after surgery, there was statistical significant changes at three time points in both symmetry and asymmetry groups. As the results of comparison of the condylar displacement between the two groups on each lesser and greater setback sides, on the lesser setback side, there was a statistically significant surgical change (T1-T0) and total change (T2-T0) of condylar angle between the symmetry and asymmetry groups. The amount of condylar angle was larger in the asymmetry group than in the symmetry group. As the results of correlation analysis, only the LSS/GSS setback difference showed positive correlation with the surgical change (T1-T0) and total change (T2-T0) of condylar angle in the lesser setback side. In the surgery-first patients, the condylar position after mandibular setback surgery was statistically significant different in both symmetry and asymmetry groups and these condylar displacement remained at seven months after surgery. However, the patterns of the condylar displacement were different between the symmetry and asymmetry groups.

Biography

Min-Hee Oh has completed her PhD from Chonnam National University. She is a Clinical Assistant Professor of the Department of Orthodontics. She has published a number of papers in reputed journals and has been serving as an Editorial Board Member of repute.

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