

Morphometric analysis of the mandible in patients with facial asymmetry associated to condylar hyperplasia. A panoramic radiography study [Análisis morfométrico de la mandíbula de pacientes con asimetría facial asociada a hiperplasia condilar. Estudio en radiografía panorámica]

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The aim of this research was to define the morphological characteristics in panoramic digital radiography of subjects with asymmetric facial deformities related to condylar hyperplasia. A transversal cohort study was designed for the analysis of 14 patients with this pathology, and points and lines for measurement were identified, in a comparative technique between the hemimandible with condylar hyperplasia diagnosis and hemimandible with normal growth of the condyle. In accordance with protocol all measurements were carried out manually. Variables analyzed were, size of condyle, size of the mandible ramus and size of mandible body in relation to mental foramen. The data analyses was carried out with statistical Chi-Square test considering p value <0.05 for statistical significance. The results showed some significant differences between both sides of the mandible in five of nine evaluations. However, measurement with less than 2 mm differences were obtained, which clinically might not be relevant, despite statistical differences. In conclusion, new measurements in others areas or with different methodologies are necessary to better determine clinical and statistical differences for early diagnosis of condylar hyperplasia.

Condylar hiperplasia

Facial assymetry

Panoramic radiography