

The Role of Microfocal Roentgenography in the Dynamic Control in Patients with Alveolar Clefts at the Stage of Bone Grafting

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Abstract

The aim of this study is to evaluate the role of panoramic microfocal roentgenography with magnification and microfocal radiovisiography to assess the bone regeneration in patients with alveolar clefts. There were examined 65 patients with all types alveolar clefts, at the age of 8-23. All patients were examined by X-ray diagnostics before and after bone grafting surgery. The rate of bone regeneration after surgery was assessed by Bergland scale. The microfocal methods were more detailed before and after surgery in visualizing the preoperative area of alveolar cleft, graft positioning and titanium fixation. One of the main index of the diagnostics efficiency in postoperative period was the rate of bone regeneration in Bergland scale, according to the height of the newly formed bone. Microfocal methods give the opportunity of minute assessment of bone graft resorbtion and regeneration.

Key words: Microfocal Radiovisiography, Panoramic Microfocal Roentgenography with Magnification, Bone Grafting, Congenital Cleft Alveolus.

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