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Think, Treat & Teach

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"digital 3d Bilateral Yardstick" For Assessing Dental Arch Relationship in Patients with Complete BCLP

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Aims & Objectives:

Occlusal yardsticks allow researchers and clinicians to systematically classify the severity of malocclusion, according to specific criteria. The Bilateral Yardstick has been recently developed specifically to analyze the anteroposterior dental arch relationship on patients with bilateral cleft lip and palate, during different stages of dental development, i.e., early dentition (6 years-old), mixed dentition (9 years-old) and early permanent dentition (12 years-old). OBJECTIVES: to present the Bilateral Yardstick and to define an exemplar of each grade of the index in its use on 3D virtual dental casts.

Material & Methods:

METHOD: the bilateral yardstick comprises five scores and considers three different stages on dentition's development. Specific directions for the analysis of the three stages are set on a summary table. For defining the exemplar models of the Bilateral Yardstick in its use on 3D virtual casts, a sample of 110 plaster dental casts was scanned on a 3Shape R700 3D Scanner and each virtual model was carefully classified by a single expert examiner.

Results:

The most representative 3D virtual model of each score at each grade was identified as the exemplar.

Discussion & Summary:

Learns will be able to acknowledge the Bilateral Yardstick and to define an exemplar of each grade of the index in its use on 3D virtual dental casts.

Evaluation of interarch relationship in patients with unilateral cleft lip and palate treated with the Oslo protocol

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Aims & Objectives:

The aim of this study was to verify the effects of primary surgeries on dental arches relationship in patients with unilateral cleft lip and palate (UCLP) who were operated by a single surgeon under Oslo's surgical protocol.

Material & Methods:

Plaster dental casts of 43 patients with UCLP aging 4 to 14 years (mean=7.93), of which 25 (58.1%) were male and 18 (41.9%) female, were scored using Atack Yardstick for deciduous and early mixed dentitions and Goslon Yardstick for late mixed or permanent dentitions. Scores ranged from 1 to 5 in both yardsticks, according to the severity of the arches relationship.

Results:

Data showed that 28 (65.1%) patients were classified as scores 1 and 2, and only 3 (7%) as scores 4 and 5.

Discussion & Summary:

On the studied sample, composed of patients treated with the Oslo protocol, good results on dental arches relationship were observed.