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The Pivotal Role of Oral and Maxillofacial Radiology in Dentistry

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Objective: To determine CVMS and second permanent molar calcifications as an evaluation of pubertal stages.

Materials and methods: This was a cross sectional study with study population of panoramic and cephalometric radiographs from patients 8-15 years of age receiving malocclusion treatment in Pediatric Dentistry, from January 2013 until December 2015. CVMS examination was conducted using Bacetti method, while second permanent molar calcification was measured using Demirjian technique.

Results: Panoramic and cephalometric radiographs meeting the inclusion criteria were 106 radiographs, 31 radiographs of male patients and 75 radiographs from female patients. Result of this study showed a significant relationship between skeletal maturation and teeth calcification stage with $r_s = 0.83$ and $p$-value $4.564$.

Conclusion: CVMS and second permanent molar calcification stage could be used into account to determine children puberty stages.

Keywords: Skeletal Maturation, Dental age