Clinical Assessment Of Adaptation And Complications Associated With The Use Of Preventive Prosthetic Appliances In Children

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Premature loss of permanent molars in children is associated with impaired dental arch development, reduced masticatory efficiency, and an increased risk of occlusal disturbances. In such cases, early use of preventive prosthetic appliances is essential, while patient adaptation and complication rates remain key factors determining treatment effectiveness.
The aim of the study was to evaluate adaptation and complication rates associated with different types of preventive prosthetic appliances in children.
The study included 30 patients aged 6–14 years, divided into two groups: a main group (n=15) treated with modified appliances and a control group (n=15) using conventional space maintainers. The follow-up period was 6 months. Adaptation was assessed using a visual analog scale (VAS), along with analysis of complication frequency and type.
The results showed higher adaptation levels in the main group (7.6±1.2 vs 6.1±1.3) and a lower complication rate (20.0% vs 40.0%). The most common complications included mucosal irritation and loss of appliance retention.
Thus, modified preventive prosthetic appliances may improve patient adaptation and reduce complication rates. Further studies are required to confirm these findings.
Keywords: children, premature tooth loss, space maintainers, preventive prosthetics, adaptation, complications

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