

·临床报道·

Twin-block 矫治器对骨性 II 类错殆儿童早期矫治的疗效分析

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【摘要】目的 分析 Twin-block 矫治器治疗生长发育期骨性 II 类错殆儿童的临床疗效, 探讨其机制。**方法** 选择生长发育期骨性 II 类患者 20 例 (男 9 例, 女 11 例), 进行 Twin-block 功能矫治。所有患者治疗前后拍摄 X 线头颅侧位片, 应用 Pancherz 分析法测量患者治疗前后硬组织指标变化情况, 同时, 测量治疗前后的上气道线距变化, 采用配对 *t* 检验检测治疗前后各指标差异。**结果** Twin-block 治疗前后, ss/OLP、pg/OLP 明显增大, Co/OLP 和前牙覆盖明显减小, Go-Me 长度明显增加, 磨牙关系明显改善, 有统计学意义 ($P<0.05$), 其余各参数无统计学差异。气道测量值 Adl-PNS、Ad2-PNS、Mcnamara 线、U-MPW、TB-TPPW 治疗后均有增大, 差异有统计学意义 ($P<0.05$)。**结论** Twin-block 功能矫治器能有效地改善骨性 II 类患者的咬殆关系和侧貌, 可以有效增加上气道各段前后径长度, 这些变化主要由髁突前移导致的下颌骨生长发育所致。

【关键词】 骨性 II 类 Twin-block 功能矫治器 Pancherz 分析 上气道

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Study on the clinical effects of Twin-block appliance treatment on skeletal Class II malocclusion

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【Abstract】Objective This study was designed to evaluate the effect of Twin-block appliance on the treatment of skeletal Class II malocclusion with mandibular retrognathia in children, and to discuss the underlying mechanism. **Methods** 20 patients (9 boys and 11 girls) with skeletal Class II and mandibular retrognathia were treated with Twin-block appliance. Lateral cephalograms were taken before and after Twin-block treatment, relevant parameters of hard tissue and upper airway were measured, and Pancherz's analysis was used to analyze hard tissue. Intragroup changes of all the individuals were analyzed by paired *t*-tests using SPSS 15.0 software. **Results** Treatment with Twin-block appliance resulted in reduction of overjet, increase of length of mandible and correction of molar relationship, while point Pg, ss, Co moved forward ($P<0.05$). The position changes of the

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