

临床医学

自锁托槽与传统结扎翼托槽对牙根吸收影响的系统评价

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摘要:

目的 系统评价正畸治疗过程中, 自锁托槽与结扎翼托槽对牙根吸收程度的影响。方法 计算机检索中国期刊全文数据库、万方数据库、中文科技期刊数据库(VIP)、中国生物医学文献数据库、Cochrane library临床随机对照试验库、Medline数据库、PubMed、Embase数据库, 筛选出比较自锁托槽组与结扎翼托槽组对牙根吸收影响的文献, 检索时间均从建库至2013年6月30日。由两位研究者独立评价纳入研究的质量并提取资料, 采用RevMan 5.2.1软件进行Meta分析。结果 最终纳入3个研究。Meta分析结果显示, 自锁托槽组与传统结扎翼托槽组的根外吸收量在上颌中切牙 [MD=-0.20, 95%CI (-1.45~1.05), P=0.75]、上颌侧切牙 [MD=0.53, 95%CI (-0.50~1.56), P=0.31]、下颌中切牙 [MD=-0.01, 95%CI (-0.22~0.20), P=0.92] 和下颌侧切牙 [MD=-0.31, 95%CI (-1.33~0.71), P=0.55] 均差异无统计学意义。结论 矫治器类型可能并不是影响牙根吸收的主要因素, 正畸医生可根据自锁托槽和传统结扎翼托槽各自的优缺点并结合患者错牙合畸形的具体情况选用托槽。

关键词: 正畸治疗; 自锁托槽; 结扎翼托槽; 牙根吸收; 系统评价

Root resorption associated with self-ligating versus conventional ligating orthodontic bracket systems: a systematic review

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Abstract:

Objective To evaluate root resorption associated with self-ligating and conventional ligating bracket systems in orthodontic treatment. Methods Electronic databases such as CNKI, Wan Fang Data, VIP, CBM, the Cochrane Library, Medline, PubMed and Embase, were searched from the day of they were established to June 30, 2013, in order to collect randomized controlled trials (RCTs) about the root resorption associated with self-ligating versus conventional ligating brackets. The quality of the included studies was evaluated with two reviewers independently, and Meta-analysis was performed by using RevMan 5.2.1 software. Results Three RCTs including 464 teeth were identified. The Results of Meta-analysis showed no significant differences between the two groups in maxillary incisors (MD = 0.20, 95% CI -1.45 to 1.05, P=0.75), maxillary lateral incisors (MD=0.53, 95%CI -0.50, 1.56, P=0.31), mandibular incisors (MD=-0.01, 95%CI -0.22, 0.20, P=0.92) and mandibular lateral incisors (MD=-0.31, 95%CI -1.33, 0.71, P=0.55). Conclusion As the type of orthodontic appliance may not be the major factor influencing root absorption, and suitable brackets can be chosen by orthodontic dentists according to the merits and demerits of self-ligating and traditional ligating brackets and deformity of patients' teeth.

Keywords: Orthodontic treatment; Self-ligating brackets; Conventional ligating brackets; Root resorption; Systematic review

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