



3 种树脂基托试件微生物黏附的研究

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Adhesion of oral microorganisms on three different denture base resins

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摘要

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摘要 目的 比较BPS 注塑树脂、热凝基托树脂和不碎胶树脂表面的微生物黏附能力。方法 将BPS 注塑树脂、热凝基托树脂和不碎胶树脂试件进行微生物体外黏附实验, 采用菌落形成单位计数法测定血链球菌、黏性放线菌和白色假丝酵母菌黏附量的大小。结果 血链球菌和白色假丝酵母菌黏附实验中, 培养24、48、168 h后, 热凝基托树脂组与BPS 注塑树脂组和不碎胶树脂组间微生物黏附量差异有统计学意义 ($P<0.001$), BPS 注塑树脂组和不碎胶树脂组间微生物黏附量差异无统计学意义 ($P>0.05$)。在黏性放线菌黏附实验中, 培养24 h 时, 热凝基托树脂组和BPS 注塑树脂组间微生物黏附量差异有统计学意义 ($P<0.05$); 培养48、168 h 时, 热凝基托树脂组与不碎胶树脂组和不碎胶树脂组间微生物黏附量差异有统计学意义 ($P<0.05$)。结论 BPS 注塑树脂和不碎胶树脂较热凝基托树脂更能减少血链球菌、黏性放线菌和白色假丝酵母菌在其表面的黏附。

关键词: BPS 注塑树脂 热凝基托树脂 微生物黏附

Abstract: Objective To compare the adhesion ability of oral microorganisms to BPS resin, heat-polymerized resin and Lucitone 199 in vitro. Methods The quantification of the attached *Streptococcus sanguis*, *Actinomyces viscosus* and *Saccharomyces albicans* on the surfaces of the BPS resin, heat-polymerized resin and Lucitone 199 were assayed by means of clone forming unit (CFU) method *in vitro*. Results After 24, 48, 168 hours, in the quantification of the attached *Streptococcus sanguis* and *Saccharomyces albicans*, statistical differences were observed between groups of heat-polymerized resin and BPS resin, heat -polymerized resin and Lucitone 199 ($P<0.001$). There was no significant difference between groups of BPS resin and Lucitone 199 ($P>0.05$). In the quantification of the attached *Actinomyces viscosus*, after 24 hours, statistical difference was observed between groups of heat-polymerized resin and BPS resin ($P<0.05$). Statistical differences were observed between groups of heatpolymerized resin, BPS resin and Lucitone 199 after 48 and 168 hours ($P<0.05$). Conclusion Compared with heat-polymerized resin, BPS resin and Lucitone 199 could decrease the adhesion of *Streptococcus sanguis*, *Actinomyces viscosus* and *Saccharomyces albicans*.

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