

·基础与临床研究·

不同成型片对邻面修复体表面粗糙度的影响

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【摘要】目的 比较使用不同材质成型片的邻面修复体表面粗糙度。**方法** 选择不同品牌或型号的流体复合树脂、膏体复合树脂以及玻璃离子水门汀充填材料, 在体外邻面缺损模型上使用金属和聚酯成型片, 模拟Ⅱ类洞直接充填修复, 应用表面粗糙度仪, 对各修复体的表面粗糙度进行测量和比较。**结果** 流体树脂修复体的表面粗糙度 Ra 值是 $(0.176 \pm 0.063) \mu\text{m}$, 低于膏体复合树脂 $(0.456 \pm 0.115) \mu\text{m}$ 和玻璃离子水门汀 $(0.810 \pm 0.210) \mu\text{m}$, 各组间差异具有统计学意义 ($P < 0.001$)。使用金属和聚酯成型片对树脂类修复体的表面粗糙度影响不大 ($P > 0.05$), 应用玻璃离子水门汀时, 金属成型片的修复体表面更为光滑 ($P < 0.05$)。**结论** 临床进行复合树脂邻面洞充填时, 可以选择金属或聚酯成型片; 而使用玻璃离子水门汀时, 建议使用金属成型片。

【关键词】 复合树脂 玻璃离子水门汀 成型片 表面粗糙度

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Effects of different sectional matrix bands on surface roughness of interproximal restorations

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【Abstract】Objective The aim of this study was to compare surface roughness of interproximal restorations using different sectional matrix bands. **Methods** A variety of flowable and packable composite resins and glass ionomer cement materials were used to simulate the direct restoration of Class II cavity on an *in-vitro* adjacent surface defect model. And the surface roughness of the restoration formed by the metallic and polyester sectional matrix band was measured. **Results** The surface roughness of flowable composite resin restoration was lower than that of packable composite resin and GIC ($P < 0.001$). The surface roughness of composite resin restorations with metallic and polyester sectional matrix bands was similar ($P > 0.05$). The surface of GIC restoration with metallic sectional matrix band was smoother than that with polyester ones. ($P < 0.05$). **Conclusion** In the clinical application of composite resin for interproximal cavity, both metallic and polyester sectional matrix bands were acceptable. Metallic sectional matrix band was suggested when GIC was used.

【Key words】 Composite resin Glass ionomer cement Sectional matrix band Surface roughness