Factors influencing the bond strength of additively manufactured crown materials in dentistry - A systematic review of in vitro studies

#zotero

Bibliography

1. Kagaoan Z, Liu X, Cameron A, Aarts J, Choi JJE. Factors influencing the bond strength of additively manufactured crown materials in dentistry: A systematic review of in vitro studies. *Journal of Dentistry*. 2024;144:104908. doi:10.1016/j.jdent.2024.104908

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Abstract

Abstract

Annotations

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Highlight

cleaning method, type of airborneparticle, airborne-particle abrasion pressure, crown taper, type of cement, artificial aging, and bond strength testing mechanism (p.8)

Highlight

Resin-based temporary cements performed better than zinc oxidebased temporary cements. (p.8)

Highlight

To evaluate the permanent cementation of additively manufactured crowns, an increased number of thermocycles is required to assess the bond strength long-term. (p.8)

Zotero-Notes

本系统评价分析了六项体外研究，探讨了不同干预对增材制造冠材料粘结强度的影响，涉及光聚合树脂和3D打印氧化锆材料。结果显示，增材制造的冠材料粘结强度较高，能与铣制材料相媲美。虽然未发现绝对优越的水门汀类型，但普遍推荐使用铝氧化物喷砂处理。文献中关于增材制造冠的粘结强度研究仍存在明显空白，需进一步研究其在永久修复中的临床适用性，以帮助牙科专业人士采用更强的粘结程序。

Go to annotation “Resin-based temporary cements performed better than zinc oxidebased temporary cements.” (Kagaoan 等, 2024, p. 8)

我们课题的不足（做不到）：

Go to annotation “To evaluate the permanent cementation of additively manufactured crowns, an increased number of thermocycles is required to assess the bond strength long-term.” (Kagaoan 等, 2024, p. 8)

Notes

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