

DOI: <https://doi.org/10.56936/18290825-2026.20v.2-42>**CYANOACRYLATE VS. DENTIN BONDING ON REDUCING DENTAL SENSITIVITY****SADATMANSOURI S.¹, DADEHBEIGLOU P.^{2*}, NEMATI ANARAKI S.³, RAHMATPANAH K.⁴**¹ Department of Periodontics, TeMS.C., Islamic Azad University, Tehran, Iran² Dentistry school of Islamic Azad university of Tehran Medical Sciences, Tehran, Iran³ Operative Department, Dental Branch of Tehran Azad University, Tehran, Iran⁴ Department of Dentistry, Kashan University of Medical Sciences, Kashan, Iran*Received 21.11.2025; Accepted for printing 14.05.2026***ABSTRACT**

Introduction: Hyper sensitivity is defined as a short-term sharp pain that occurs in dentin when exposed to the oral. The aim of this study was to compare the effect of cyanoacrylate with dentin bonding on the rate of changes in dental sensitivity.

Material and Methods: This study was a clinical trial. Written informed consent was obtained from the participants, then their initial sensitivity was measured and recorded with the visual analog scale index. Participants whose initial sensitivity value was greater than or equal to 5 were selected and divided into two groups: cyanoacrylate and dentin bonding. Patients were recalled after 24 hours and 1 week and the Visual analog scale assessment was evaluated.

Results: The results showed that in the dentin bonding group, the level of sensitivity before treatment was significantly different with 24 hours and 1 week after treatment ($p < 0.05$). Also, according to the results of Wilcoxon Visual analog scale test, 24 hours and 1 week after treatment, there is no significant difference ($p > 0.05$). In cyanoacrylate group, Wilcoxon test showed that the level of sensitivity before treatment was significantly different with 24 hours and 1 week after treatment ($p < 0.05$), and level of sensitivity 24 hours and 1 week after treatment were not significantly different from each other. The level of sensitivity reduction 24 hours after treatment compared to before treatment was significantly different between the two groups (< 0.05), also the level of sensitivity reduction 1 week after treatment compared to before treatment between the two groups There is no significant difference.

Conclusion: Both dentin bonding and cyanoacrylate reduce sensitivity within 24 hours after the intervention, with the effect of cyanoacrylate being greater and remaining equally stable up to 1 week after the intervention.

KEYWORDS: Hyper sensitivity, dentin sensitivity, dentin bonding agent, cyanoacrylate, VAS**CITE THIS ARTICLE AS:**

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