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[\[PDF \(271K\)\]](#) [\[References\]](#)**Clinical Evaluation and Interfacial Morphology Observation of Xeno III Self-etching Resin Bonding and Restorative System**[Jumpei SUGIZAKI](#)¹⁾, [Makoto MORIGAMI](#)¹⁾, [Shigeru UNO](#)¹⁾ and [Toshimoto YAMADA](#)¹⁾

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Abstract:

This study was a clinical trial of a one-step, total priming and bonding system, Xeno III. Thirty restorations were placed in minimally invasive V-shaped, Class V cervical cavities. Immediately after placement, baseline records were made after restorations were assessed using modified Ryge/USPHS criteria. Subsequently, restorations were evaluated at recall intervals up to 18 months. Additionally, the measurement of tensile bond strength and the FE-SEM observation of resin-tooth interface were performed *in vitro*. At 18 months, all restorations were classified as clinically satisfactory and assigned with an Alpha rating. Tensile bond strength of Xeno III was not significantly different from that of Clearfil SE Bond. Resin-enamel/dentin interface was very tight, with the presence of a very thin hybrid layer at the superficial dentin. Based on the results obtained, the Xeno III resin bonding system seemed promising as a one-step, self-etch adhesive.

Key words:[Clinical performance](#), [Survival rate](#), [Interfacial morphology](#)[\[PDF \(271K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

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