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Clinical evaluation of the efficacy of anesthesia and patient preference using the needle-less jet syringe in pediatric dental practice.

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Abstract

Most dentists are aware that local anesthetic injections produce the highest incidence of disruptive behavior in children. Both psychological and physiological monitoring of the response of children to dental injection, support empirical observations of clinicians. The needle-free injector delivers local anesthesia without the use of a needle. This is accomplished by delivering the anesthetic solution under high compressive forces. One hundred children between the ages of 3 to 13 years underwent operative procedures using Madajet XL. There was a statistically significant difference in favor of the instrument. The instrument was completely successful in providing anesthesia.

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