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## **The effectiveness of Mandibular Infiltration Compared to Inferior Alveolar Nerve Block Anesthesia in Treating Primary molars in Children**

\*Mohamed Tiawi

\*\* Itehad Abo Arraj

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### **Abstract**

The purposes of the present study were to determine the effectiveness of infiltration anesthesia in the mandibular primary molars compared with inferior alveolar nerve block, and how tooth location, and the type of treatment performed, and the volume of anesthetic solution relate to the quality of anesthesia. The study population consisted of cooperative children, 5 - 7 years old, requiring the same type of treatment on contralateral mandibular molars. The half mouth study design was used. Dental procedures included class I and II restorations, formocresol pulpotomies and extraction. Evaluation of pain and behaviour for each anesthesia (provided with lido-Epi : 1:1) technique and type of treatment were made using SEM pain rating scale and Salviov-Tinawi behaviour rating scale. Evaluation were made after 5 min upon injection, probing, rubber dam placement, and during tooth preparation and extraction. The conclusions were: No statistically significant difference was found between the two anesthetic techniques when performing conservative restorations. Mandibular infiltration was less effective than mandibular block for pulpotomy. Buccal infiltration technique is effective in providing adequate anesthesia for extraction when supplemented by interpapillary injection. No significant relationship to tooth location and volume of anesthetic solution between the two techniques.

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\* Ass. Prof. Faculty of Dentistry – Damascus University.

\*\* Dr. Faculty of Dentistry – Damascus University.

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Akinosi Gow-Gates

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Crossover-Study	Split-Mouth Design	****	
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- \* Lidocaine Hcl with Epinephrine inj (1:100,000), Manufactured by Kwang Myung Pharm. Coltn, Korea.
- \*\* Topical Anesthetic Gel (Benzocaine 20%), Sulton Topex, Sulton dental products, USA.
- \*\*\* Dental Monoject Needles (27G) 1.5 X 25 mm, Sherwood Medical, Northern- Irland.
- \*\*\*\* Medesy dental syringe, Italy.

\*\*\*\*\* Hygenic: The hygienic corporation/ Akron/ Ohio, USA.

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أما في حالات القلع فيتم تسجيل استجابة الألم والسلوك في المراحل التالية:

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			حصار ارتشاح	حصار ارتشاح	حصار ارتشاح	حصار ارتشاح	حصار ارتشاح	Salv-Tin
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حصار ارتشاح	حصار ارتشاح	حصار ارتشاح	حصار ارتشاح	حصار ارتشاح	Sal-Tin
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مؤلم حصار ارتشاح		ألم متوسط حصار ارتشاح		انزعاج طفيف حصار ارتشاح		ارتياح حصار ارتشاح		SEM نمط المعالجة
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٠	٠	٠	٠	٪١٠,٠٠	٪١٠,٠٠	٪٩٠,٠٠	٪٩٠,٠٠	المحافظة

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