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**EFFECTIVENESS OF PERIODONTAL LIGAMENT INJECTION IN MAXILLARY SECOND MOLAR PULPOTOMY**

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**Background and Aim:** Local infiltration is used to anesthetize maxillary primary molars. However because of the thick zygomatic process overlies the buccal roots of the second primary molars in the primary and early mixed dentition, the injection should be supplemented with a second injection superior to the maxillary tuberosity area. Periodontal ligament injection can be used for anesthetizing of maxillary second primary molars. The aim of this study was to evaluate effectiveness of Periodontal ligament injection in maxillary second molar pulpotomy.

**Methods and Materials:** Children aged 4-7 years old who required pulpotomy in maxillary second primary molars were selected. The children's teeth which met inclusion criteria were anesthetized with Periodontal ligament injection and pulpotomy was performed in each teeth. Signs of discomfort included hand, body tension and eye movement indicating pain, verbal complaint and tear (SEM scale), were evaluated blindly by a dental assistant who was not informed about study design.

**Results and Conclusion:** This study was performed on 40 maxillary second primary molars. Any teeth showed sign of pain during pulpotomy procedure. Rate of successful was 100%.

**Key Words:** Evaluation, Periodontal ligament injection, maxillary primary molar

