

2nd International Conference on

Restorative Dentistry and Prosthodontics

May 01-02, 2017 Toronto, Canada

AMSA field block for maxillary anaesthesia using computer-controlled delivery system

Shruti Tandon

Maulana Azad Institute of Dental Sciences, India

Introduction: The anterior middle superior alveolar (AMSA) field block was discovered during the development of computer-controlled local anaesthetic delivery (CCLAD) system. It is known to anaesthetize ipsi-lateral palatal and buccal, hard and soft tissues, with a single injection and can be administered with ease using CCLAD system. This study was conducted to determine the extent of maxillary anaesthesia achieved with AMSA field block given with CCLAD system during periodontal surgery.

Materials & Methods: 44 subjects indicated for periodontal flap surgery of either of the maxillary quadrants were enrolled for the study. Anaesthesia was provided with a single AMSA injection with a CCLAD system. Subjective and objective signs of local anaesthesia were assessed 15 minutes after the injection. Extent of anaesthesia was observed for palatal and buccal, hard and soft tissues both before and after the periodontal surgery.

Results: The results revealed that the palatal hard and soft tissues were significantly highly anesthetised ($p=0.001$) as compared to the buccal hard and soft tissues. Anterior to the first molar, palatal anaesthesia was significantly more as compared to posterior to the first molar in both hard ($p=0.001$) and soft tissues ($p=0.04$).

Conclusion: The AMSA field block is highly effective in anaesthetizing the ipsi-lateral palatal hard and soft tissues. A single injection is sufficient to numb the palatal tissues, anterior to first molar, to carry out periodontal surgery, in the maxilla.

Biography

Shruti Tandon completed her Master's degree in Periodontics from University of Mumbai and has since been working as a Faculty in the Department of Periodontics and Oral Implantology, Maulana Azad Institute of Dental Sciences, New Delhi, the prime dental school of India. She has many research publications to her credit and has presented her clinical work at many national and international conferences.

tandonshruti16@gmail.com

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