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Comparative study of the anaesthetic efficacy of 4% articaine (1:100,000) versus 2% lidocaine (1:80,000) with adrenaline during extraction of mandibular molars

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There are various anaesthetic agents that are being used in dentistry for the extraction of teeth in which lidocaine hydrochloride is the most common one. Now a days articaine came into picture due to its longer duration of action and its versatility. As there are insufficient studies showing the effect of articaine on various systems, present study is planned to compare the anaesthetic effect of articaine and lidocaine with adrenaline during the extraction of mandibular molars. 80 patients were divided randomly in two groups (40 each) and clinical variables such as duration and onset of anaesthesia, oxygen saturation, pulse rate, blood pressure and pain perception were recorded at different time intervals. Statistical analysis was done by using SPSS version 22.0. Mean and standard deviations, frequency distribution analysis, and the chi squared test were performed to calculate variables and $p < 0.05$ was considered significant. Statistically significant differences were seen in mean time of onset of anaesthesia ($p < 0.001$), mean duration of the anaesthetic effect ($p < 0.001$), and pain perception for the articaine group. No significant difference were found for oxygen saturation, pulse rate or blood pressure. Deposition of articaine leads to less pain as compared with lidocaine. Articaine showed to achieve increased anaesthetic success in dental procedures which may be due to its faster time of onset, less pain, longer duration, attributed owing to its greater diffusion properties.

Recent Publication

1. Vishal G, Dandriyal R, Indra N, Singh H.P, Chaurasia A. Response letter to the "Letter to editor:" to our article – A Comparative study of the anaesthetic efficacy of 4% articaine versus 2% lidocaine with adrenaline during extraction of mandibular molars using an inferior alveolar nerve blocking technique. BJOMS. 2021; 59: 783-787.
2. Shahnawaaz K, Vishal G (2021), Rahat A, Bisht J, Priyadarshni P, MandalTK. Evaluation of Static Load – bearing Capacity and the Failure Mode of Endodontically Treated Maxillary Incisors Restored with Complete Crowns Made of Experimental Composite Resin with Short Fiber Fillers, With and Without Root Canal Posts. J Res Adv Dent 2021;12(5):1-4.
3. Shahnawaz K, Verma G, Priyanka, MandalTK, Vishal G, Ahmed S. Evaluation of Extra Roots, Root Canals and C-Shaped Canals in Mandibular Second Premolars in North Bihar Population: A Cone Beam Computed Tomography (CBCT) Based Study. J Res Adv Dent 2021; 11: 3: 392-397.

Biography

Gaurav Vishal is an oral and maxillofacial surgeon fellow in oral oncology and reconstructive surgery. He completed M.D.S- Oral and Maxillofacial surgery from Institute of Dental Sciences, Bareilly International University and Bareilly in 2020 and B.D.S from Rajasthan University of Health Sciences, Jaipur in 2016. He is an expert in the field of facial Trauma, Surgical Pathology, Oral Oncology and Reconstructive Surgery. He has several International and national publications to his credit. He is a member of Association of Oral and Maxillofacial Surgeons of India.

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