

DENTISTRY & DENTAL MARKETING

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Study of effect of polyvinylpyrrolidone-iodine (PVP-I) 2% as an anti-oedematous agent in third molar surgery

A single-blind randomized control trial was carried out on 50 healthy outpatients who required surgical removal of mandibular third molars under local anesthesia were selected. The patients were divided into 2 groups (n=25), the treatment (PVP-I) and control group (normal saline). The treatment group patients were irrigated using PVP-I 2% (w/v) (Betadine, Win- Medicare, India) during bone guttering and tooth sectioning. The control group patients were irrigated with saline (sodium chloride 0.9%, w/v; Parenteral Drugs, India) only. Procedures that exceeded more than 1 hour were excluded from the study. Using Pederson difficulty index, patients with moderately difficulty index were chosen. All parameters for swelling were recorded preoperatively, on the first, second and seventh postoperative days for both procedures. The data were statistically analyzed using SPSS (version 22.0) software. Independent t-test was applied for an operative time in minutes and the two groups matched ($p>0.05$) for operative time. For change in swelling, T-tests was applied and we found an increase in swelling in the saline group which was highly significant for change from preoperative to day 2 ($p=0.005$) and from preoperative to day 7 ($p\text{-value}<0.001$). Mean for Pederson index for betadine and saline group was found out to be same ($P=1$). PVP-I 2% was found out to be significantly reducing swelling as compared to saline suggesting that it acts as an anti-oedematous agent in mandibular third molar surgery.

Biography

Kanwaldeep Singh Soodan is associate professor/reader at MM College of Dental Sciences and Research, India. He completed his BDS from Magadh University (India) in 2003. He did his MDS (Oral & Maxillofacial Surgery) from Bharati Vidyapeeth University, Pune (India) in 2009. He has working experience in Cleft & Cranio-maxillofacial Surgery Unit (Chennai, India) and Tata Memorial Cancer Hospital (Mumbai, India). He has published 15 international and 14 national articles till date. He has 8 International book publications to his credit. During his post as Associate professor/Reader, he has completed 2 Research works and in progress with 2 more. He has done international and national presentations. He has received appreciation letters from patients and principals of college. He is Editorial board member to 5 international Journals, 4 national journals and Reviewer to Pubmed indexed journal. He was nominated for "Academician of year" award at Famdent dental excellence award, Mumbai, India in 2016. He has acted as "Chairperson" during the scientific deliberations at State level and Annual conference of AOMSI.

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