

COMPARATIVE STUDY OF EFFICACY OF TRAMADOL/ACETAMINOPHEN COMBINATION TABLET AND IBUPROFEN IN ACUTE PAIN CONTROL AFTER MANDIBULAR THIRD MOLAR SURGERY



Background :

Ibuprofen is the most common analgesic drug in oral surgery. However, there are certain conditions that ibuprofen is contraindicated such as third trimester of pregnancy or allergy to NSAIDs. Tramadol/acetaminophen is an alternative.



Objective :

To compare the analgesic efficacy between tramadol 37.5 mg/acetaminophen 325 mg combination tablet (Tr/Ac) and ibuprofen 400 mg (Ibu) in acute pain control after surgical removal mandibular third molar.



Methodology :

Double-blinded, block randomized, subjects aged between 18-40 years underwent surgical removal of mandibular third molar with overlying bone removal and tooth sectioning. Following the surgery, subjects were instructed to take the assigned drug as pain was experienced, dividing subjects into Tr/Ac and Ibu groups equally. All subjects who rated their pain as "moderate" or "severe" were included in the study. Then, the pain intensity using numeric pain rating scale of 0-10 and the pain relief using 5-point scale were recorded hourly after drug intake for the period of 6 hours. At the end of the study, overall satisfaction were recorded as a global assessment score on 5-point scale. The sum of pain intensity difference of 6 hours (SPID6) and total pain relief of 6 hours (TOTPAR6) were analyzed.

Results :

The collected data from 33 subjects for each group was analyzed. SPID6 of Tr/Ac (19.76 ± 11.43) and Ibu (20.27 ± 10.37) were not significantly different (Wilcoxon rank sum test, $p > 0.05$). Likewise, TOTPAR6 of Tr/Ac (11.61 ± 4.61) and Ibu (13.18 ± 4.60) were not significantly different (Wilcoxon rank sum test, $p > 0.05$). Global assessment ratings were also not significantly different between the two groups (Chi square, $p > 0.05$).



Conclusion :

The analgesic efficacy of Tramadol/acetaminophen in acute pain control after mandibular third molar surgery was comparable to Ibuprofen.

KEYWORD :

"Acute pain control" , "Ibuprofen" , "Tramadol/acetaminophen combination tablet"



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