

An Update on Analgesics for the Management of Acute Postoperative Dental Pain

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Abstract

Acetaminophen, nonsteroidal anti-inflammatory drugs (NSAIDs) and opioids are available as analgesics in dentistry. They each have specific advantages, disadvantages, indications and contraindications. This article provides a brief review of their role in the management of acute postoperative pain.

MeSH Key Words: analgesics/therapeutic use; pain, postoperative/drug therapy; toothache/prevention & control

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Managing acute postoperative pain is inherent to dental practice. Numerous analgesics are available, and the recent introduction of new agents provides even more options from which to choose. The purpose of this article is to provide a brief review of the drugs that should be considered for the management of acute postoperative dental pain.

Acetaminophen

The first drug to consider is acetaminophen, which is indicated for the management of mild to moderate pain. Acetaminophen is very safe if used in therapeutic doses, as listed in **Table 1**. Its favourable risk/benefit balance makes it the analgesic of choice for acute postoperative dental pain in adults and children. Acetaminophen has analgesic and antipyretic properties, and is devoid of the side effects that accompany the nonsteroidal anti-inflammatory drugs (NSAIDs). It is therefore also the analgesic of choice if there is a contraindication to an NSAID. Excessive doses can lead to irreversible liver damage and thus caution must be exercised in patients with a history of liver disease or alcoholism. Long-term use should be avoided as it may lead to renal toxicity. For the management of severe pain acetaminophen is usually insufficient by itself, although it may be used in combination with an opioid such as codeine or oxycodone.

NSAIDs

NSAIDs have been used increasingly as analgesics, not just as anti-inflammatory agents, since the mechanism of

action of acetylsalicylic acid (ASA) was discovered approximately 30 years ago.¹ Clinical trials have shown repeatedly that, by themselves, NSAIDs are effective for the management of any level of dental pain, whether mild, moderate or severe.²⁻³ Optimal use of these drugs resides in understanding their mechanism of action on the arachidonic acid cascade, which is summarized in **Fig. 1**. NSAIDs block the cyclooxygenase enzymes, which exist in 2 forms known as cyclooxygenase-1 (COX-1) and cyclooxygenase-2 (COX-2). COX-1 is responsible for the synthesis of several mediators, including the prostaglandins that protect the gastric mucosa and that regulate renal blood flow, and the thromboxanes that initiate platelet aggregation. Leukotenes also promote inflammation and can cause bronchospasm. Tissue damage such as pulpitis or periodontitis, or tissue damage resulting from surgery, will induce the production of COX-2, which, in turn, leads to the synthesis of the prostaglandins that sensitize pain fibres and promote inflammation.³ Traditional NSAIDs block both COX-1 and COX-2, but in recent years, new NSAIDs have been developed that are much more selective for COX-2. These selective COX-2 inhibitors were developed to be less damaging to the gastric mucosa, and the evidence supports this contention.^{4,5}

Effects of NSAIDs

The therapeutic and adverse effects of NSAIDs are summarized in **Table 2**. Analgesic and anti-inflammatory actions are their main properties. These actions, combined with their inhibition of uterine contraction, make them effective for the management of menstrual pain. ASA is a

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