

Results obtained by measuring histomorphometric indices indicate sustained bone resorption activity in group 1 and faster bone formation in group 2. The greater number of inflammatory cells in group 2 was probably caused by additional trauma of periapical tissues during overinstrumentation. This trauma does not interfere with bone remodelling.

## Samoliječenje analgeticima u stomatoloških bolesnika

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Uklanjanje boli jedan je od glavnih izazova stomatološke prakse. Akutna bol značajka je većine odontogenih boli i često je povezana sa samoupotrebom analgetika. No samoliječenje stvara rizik uzimanja prekomjerne doze lijeka, preduge upotrebe, klinički znatnih interakcija s već pripisanim lijekovima, te polipragmatizacije i mogućih štetnih učinaka. Početno zbijanje kod većine bolnih stanja jest bolni podražaj koji izaziva destrukciju tkiva, sintezu i otpuštanje biokemijskih medijatora koji sudjeluju u nastanku boli. Za ublažavanje boli najčešće se rabe analgetici-antipiretici, nesteroidni (NES) lijekovi koji djeluju na periferiji. Oni inhibiraju biokemijske medijatore boli. Svi NES analgetici izazivaju kvalitativno slične neželjene učinke, uzimaju se kroz usta i lako su dostupni u ljekarnama bez recepta - u slobodnoj prodaji.

Svrha ovoga rada bila je odrediti čestoću samoliječenja analgeticima stomatoloških bolesnika s akutnom boli. 32 bolesnika sa zuboboljom u dobi od 19 do 73 godine, prosječne dobi 32,5 godine i oba spola, ispitana su o intenzitetu boli prije liječenja i o uporabi lijekova. 68% bolesnika opisalo je svoju bol kao jaku, 21,9% kao umjerenu i 10,1% kao neugodni osjećaj. Rezultati su pokazali da je 99,6% bolesnika samo uzelo lijek za neposredno otklanjanje bolova. Najčešće uzeti analgetici jesu: kombinacija analgetika-antipiretika (propifenazon+paracetamol+kofein+kodein) u 33% i diklofenak (Voltaren) u 29,1%, zatim metamizol u 21,8%, aspirin u 13% i ibuprofen u 3,1% slučajeva. 56% bolesnika lijekove je nabavilo kod ljekarnika, a 44% iz kućne zalihe. Bolesnici (87,5%) su dobro obaviješteni o mogućim neželjenim učincima i toksičnosti NES analgetika. Neželjene učinke opisalo je 21,8% bolesnika, veći-

nom kao gastrointestinalne simptome: mučnina i želučana bol. To je u skladu s dobro opisanim nuspojavama NES-analgetika, koje su najvjerojatnije rezultat inhibicije ciklo-oksigenaza i znatan uzrok bolesti.

## Auto-Medication of Analgesics by Dental Patients

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Pain is one of the major challenges in dental care. The most common types of odontogenic pain are characterised as acute pain which is frequently associated with self-medication with analgesics. However, there is a risk with self-medication such as the use of excessive drug dosage, prolonged duration of use, clinically significant interactions with prescription medicines and polypharmacy and possible side effects. The initial event for most painful conditions is a noxious stimulus that results in tissue destruction, the synthesis and the release of biochemical mediators involved in the pain process. Peripherally acting nonsteroid analgesic-antipyretic drugs /NSAIDs/ are the most commonly used analgesics. They inhibit these biochemical mediators of pain. All NSAIDs share a qualitatively similar side effect profile, the oral route of administration and all of them are freely available to the general public without prescription-over the counter drugs (OTC).

The aim of this study was to determine the incidence of auto-medication with analgesics among dental patients with acute pain. 32 patients aged from 19 to 73 years, (32.5) of both sexes and with odontalgia were interviewed personally regarding the intensity of their pre-treatment pain and the use of medications. 68% of patients described their pain as severe, 21.9% as moderate pain and 10.1% as unpleasant sensation. The results showed that 99.6% of the patients self-medicated a drug for the immediate relief of toothache. The most frequently self-medicated analgesics were: analgesic-antipyretic combined formulations (propiphenazon + paracetamol + caffeine + codeine) in 33% and diclofenac (Voltaren) in 29.1%, the metamizol in 21.8%, aspirin in 13% and ibuprofen in 3.1%. Self-medicated drugs came from the pharmacist in 56% patients and 44% from the family stock. Patients (87.5%) were well informed about possible side effects and toxicity

of NSAIDs. Adverse effects during therapy was reported by 21.8% patients, mainly as gastrointestinal symptoms: nausea and gastric pain. This is in agreement with the well documented NSAIDs side effects which are presumably the result of inhibiting cyclooxygenases and a significant cause of morbidity.

## Mineralizacija kosti u vrjednovanju kroničnih periapikalnih promjena

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Svrha rada bila je radiodenzitometrijsko vrjednovanje kroničnih periapikalnih promjena denzitometrijskim mjerenjem. Istraživanje je provedeno na 60 zuba s kroničnim apikalnim periodontitisom, 30 muškaraca i 30 žena u dobi između 20 i 65 godina. Tijekom endodontske terapije korijenski su kanali ispirani 2,5 % NaOCl, punjeni metodom lateralne kondenzacije gutta-percha pointima s AH PLUS. Prije endodontske terapije i godinu dana poslije nje utvrđene su lezije u tvrdom tkivu periapikalnog područja rtg-om i radiodenzitometrijom. Radiodenzitometrija je mjerena s "TROPHY- RWG-UI" DIGITAL X-RAY - sistemom, vrjednovano je od 0-256. Prije endodontskog tretmana gustoća kosti iznosila je  $105,1 \pm 28,5$ , a nakon terapije izmjerene su drukčije vrijednosti. Nakon godine dana kontrolni rtg i radiodenzitometrijska mjerenja pokazuju povećanu mineralizaciju u periapikalnome području. Rezultati su statistički znatni. Prosječna gustoća kosti bila je  $139,2 \pm 39,4$ ;  $p < 0,0001$ . Nakon lege artis obavljenog endodontskog liječenja u vrjednovanju kroničnih periapikalnih promjena radiodenzitometrijska mjerenja pokazala su se korisnima.

## Bone Mineralisation in Evaluation of Chronic Periapical Changes

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The aim of the study was radiodensitometric evaluation of chronic periapical changes with densitometric measurements. The material comprised 60 teeth with chronic apical periodontitis, 30 male - 30 female, age ranked from 20 - 65 years. During preparation the canals were lubricated with 2.5 % sodium hypochlorite solution and filled with gutta-percha points and AH PLUS. Before treatment and after one year lesions in hard tissues of the periapical area were detected on radiograms and radiodensitometry. Bone radiodensitometry measured with "TROPHY-RWG-UI" DIGITAL X-RAY- system, ranged from 0-256. Before endodontic treatment bone density was  $105.1 \pm 28.5$  and after treatment different values were measured. Control radiograms and radiodensitometry were done after one year and showed increased mineralisation changes in the periapical area. The results were statistically significant. After one year of therapy average bone density was  $139.2 \pm 39.4$ ;  $p < 0.0001$ . Following adequate endodontic treatment radiodensitometric measurements proved to be useful in evaluation of chronic periapical changes.

## Ankylos dentalni implantološki sustav - u kojim slučajevima upotrijebiti usadak?

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