

Do oral steroids or painkillers Non steriodal anti inflammatory drugs (NSAID'S) help dentists numb lower back teeth better in patients with severe toothache?

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| Status | RECRUITING |
| Sponsor | Dr Fawad Ali shah- Khyber college of dentistry |
| Enrollment | 60 participants |

Plain Language Summary

Getting a tooth properly numb before dental treatment can be surprisingly difficult — especially for lower back teeth (mandibular molars) that are severely inflamed and painful. This condition is called symptomatic irreversible pulpitis, and it means the nerve inside the tooth is damaged and inflamed beyond repair, requiring root canal treatment. Inflammation chemically changes the nerve, making local anaesthetic injections less effective.

This study is testing whether taking an anti-inflammatory or pain-relief tablet before dental treatment — either dexamethasone (a steroid) or ketorolac (a strong anti-inflammatory painkiller) — can improve how well the dental nerve block works. The goal is to make dental procedures more comfortable for patients experiencing severe toothache.

You may be eligible if you are between 18 and 60 years old, are generally healthy (no serious systemic conditions), and have been diagnosed with irreversible pulpitis in a lower back tooth. People who are pregnant, have allergies to the study medications, have compromised immune systems, or have taken analgesics or antibiotics recently would not be able to participate.

Key Eligibility Criteria

Inclusion (3)

- Patients classified as ASA class 1, who are systemically healthy and aged between 18 and 60 years, diagnosed with irreversible pulpitis of a mandibular molar.
- The radiographic image shows no evidence of changes in the periapical region.
- Participants capable of comprehending the utilization of a pain scale.

Exclusion (2)

- Teeth presenting a history of trauma, immature apices, or necrotic pulps post-access opening.
- Immune deficiencies, pregnancy, previous allergic reactions to local anesthetic solutions or any of the experimental drugs, recent intake (within twelve hours) of antibiotics, analgesics, or sedatives prior to endodontic treatment as part of the study, and prolonged medication use.

Locations (1 total)

Peshawar, Khyber Pakhtunkhwa, Pakistan