

The effect or LLLT (low level laser therapy) on repair of root resorption undergoing bilateral first pre-molar extraction.

ACTRN12616000682448

Status	RECRUITING
Sponsor	Sydney University
Enrollment	20 participants

Plain Language Summary

This dental study is investigating whether low-level laser therapy (LLLT) — a painless light treatment — can help teeth roots heal faster after the minor damage that occurs during orthodontic (braces) treatment. Participants who are already having upper first premolar teeth removed as part of their orthodontic treatment plan will have a gentle force applied to their teeth for one month, then laser treatment on one side of their mouth only. After another month, both teeth will be removed and examined under a special microscope to measure healing.

You may be eligible if:

- You are between 10 and 30 years old
- You need to have both upper first premolar teeth removed as part of your orthodontic treatment
- All your adult teeth have fully formed roots
- There is minimal crowding on both sides of your upper jaw

You may NOT be eligible if:

- Your treatment plan does not require removal of upper first premolars
- You have had previous orthodontic treatment
- You have a facial bone or jaw abnormality
- You have a history of tooth trauma, teeth grinding, or gum disease
- You have significant medical conditions that affect tooth development or movement

Talk to your doctor about whether this trial might be right for you.

Key Eligibility Criteria

Inclusion (4)

- Need for bilateral maxillary first premolar extractions (necessitating moderate anchorage requirements) and fixed appliance treatment;
- Permanent Dentition;
- Apexification (root formation) completed;
- Similar degree of minimal crowding on each side of the maxillary arch;

Exclusion (7)

- Treatment plan that does not require extraction of upper first premolars
- previous orthodontic or orthopaedic treatment;
- craniofacial anomaly present;
- previous reported or observed dental treatment of the maxillary canines;
- history of trauma, bruxism or parafunction;
- ... and 2 more (see full listing online)

Locations (1 total)

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12616000682448>
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