

Comparison of the oral microorganisms between patients being treated with orthodontic brackets or aligners.

ACTRN12617000925347

Status RECRUITING
Sponsor University of Melbourne, School of Dentistry
Enrollment 120 participants

Plain Language Summary

This study is comparing the bacteria in the mouths of people wearing two different types of orthodontic (braces) devices: traditional metal brackets (fixed braces) and Invisalign clear plastic aligners. Researchers want to know if one type of brace leads to more harmful bacteria that could cause white spots on teeth or gum inflammation. Understanding this can help orthodontists and patients make more informed choices.

You may be eligible if:

- You are 11 years old or older
- You have less than 8mm of teeth crowding
- All your permanent teeth are present (except wisdom teeth and any needed for orthodontic treatment)
- You have good oral hygiene and no immediate need for dental fillings
- Your teeth and gums are healthy at the start of the study

You may NOT be eligible if:

- You have a significant jaw alignment problem (ANB below or equal to 5 degrees)
- You have a large bite discrepancy (CR-CO discrepancy greater than 3mm)
- You have an open bite (front or back)
- You are pregnant, diabetic, using mouth rinses, or taking medications including antibiotics
- You have impacted teeth, pre-existing white spots on teeth, or enamel defects
- You have active gum disease with attachment loss

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

Key Eligibility Criteria

Inclusion (4)

-) There is less than 8mm of crowding.
-) Patients have all permanent teeth present, except third molars and any necessary orthodontic extractions.
-) Demonstrate ability to maintain adequate oral hygiene.
-) Show optimum dental health without the immediate need for restorations.

Exclusion (8)

-) Skeletal anterior-posterior discrepancies between the maxilla and mandible (ANB below or equal to 5).
-) Centric relation (CR)- Centric occlusion (CO) discrepancies of greater than 3mm.
-) Anterior or posterior open bite.
-) Patients who are pregnant, diabetic, using mouth rinses or taking medications, including antibiotic therapy.
-) Presence of impacted teeth.

... and 3 more (see full listing online)

Locations (1 total) <http://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12617000925347>

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