

The effect of a common antibiotic (amoxicillin with clavulanate) on the microbiome of tonsil tissue in children with recurrent tonsillitis

ACTRN12618001847202

Status	RECRUITING
Sponsor	The University of Auckland
Enrollment	60 participants

Plain Language Summary

Children who get frequent tonsil infections (tonsillitis) are often prescribed antibiotics, with amoxicillin and clavulanic acid being one of the most commonly used combinations. The tonsils are home to a rich community of bacteria (the microbiome), and there is growing interest in how antibiotics affect this bacterial ecosystem — and whether disrupting it might cause problems. This study investigates whether a course of amoxicillin and clavulanic acid changes the bacterial community living in the tonsils of children waiting for a tonsillectomy.

Children scheduled for tonsil removal are randomly assigned to receive either the antibiotic or no antibiotic in the weeks before their surgery. When the tonsils are removed, tissue samples are collected and the bacterial communities are analysed and compared between the two groups.

Your child may be eligible if they are aged 0–16, have a history of recurrent tonsillitis, are on the waiting list for a tonsillectomy, and have previously tolerated amoxicillin and clavulanic acid without problems. Children who have taken antibiotics in the 6 weeks before surgery, or who have significant other medical conditions, are not eligible.

Key Eligibility Criteria

Inclusion (4)

- Age 0-16 years.
- History of recurrent tonsillitis.
- Waitlisted to undergo tonsillectomy for recurrent tonsillitis.
- Must have had previous course of Amoxicillin and Clavulanic acid without adverse effects.

Exclusion (4)

- Patients with genetic syndromes, metabolic disorders, neurologic diseases or congenital malformations will be excluded.
- Patients with an anatomical abnormality of the upper aerodigestive tract.
- Patients who have had antibiotics within the 6 weeks prior to surgery.
- Previous adenoidectomy, tonsillectomy, or grommet insertion.

Locations (1 total)

Auckland, New Zealand

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12618001847202>

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