

A comparison of x-ray imaging and low-dose computed tomography (CT) scans for ankle imaging following surgery (total ankle replacements -TARs).

ACTRN12624000724572

Status RECRUITING
Sponsor The University of Auckland
Enrollment 30 participants

Plain Language Summary

Total ankle replacement (TAR) is a surgical option for people with severe ankle arthritis that preserves more movement than traditional ankle fusion. After surgery, patients typically have X-rays to check how well the implant is positioned and whether there are any complications. However, standard X-rays of ankle implants can be difficult to interpret and often require multiple attempts to get a clear image. A newer option — low-dose CT scanning — can produce three-dimensional images that may give doctors a clearer and more accurate view.

This study is comparing ankle X-rays and low-dose CT scans taken six weeks after total ankle replacement surgery, to see whether CT scans identify problems or misalignments that X-rays miss, and whether they can be obtained more efficiently. Participants will receive both types of imaging at their routine six-week follow-up appointment.

You may be eligible if you are 18 or older and are having a total ankle replacement at Mercy Hospital Dunedin or Te Whatu Ora Southern during the study period. Pregnant women and patients who have had significant prior radiation exposure would not be eligible.

Key Eligibility Criteria

Inclusion (1)

- All patients undergoing a total ankle replacement surgery at Mercy Hospital Dunedin (New Zealand) or Te Whata Ora Southern between the 29th of July 2024 and the 2nd of April 2025. This is the timeframe of the study. All patients having a TAR during this time will have the opportunity to participate in the study. Patients must be 18 years or older. Patients must be able and willing to give informed consent.

Exclusion (1)

- Pregnant women will be excluded from the study due to radiation dose concerns. However, this is unlikely as most patients expect to be past child-bearing age. Patients who are unable/unwilling to give consent. Patients who have been exposed to a large amount of radiation previously.

Locations (1 total)

Otago, New Zealand

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12624000724572>

DISCLAIMER: This document is for informational purposes only and does not constitute medical advice. Always consult your healthcare provider before enrolling in any clinical trial. Information may not be up to date — verify details at [anzctr.org.au](https://www.anzctr.org.au). Generated by [ClinicalTrialsFinder.org](https://www.clinicaltrialsfinder.org).