

The Rectangular Block Implant: A Pilot Study

ACTRN12620000225910

Status	RECRUITING
Sponsor	The University of Melbourne
Enrollment	10 participants

Plain Language Summary

When someone is missing teeth, dental implants are a common solution. However, standard implants don't work for everyone — particularly when there isn't enough bone in the jaw to support them, or when the shape of the jaw puts nearby nerves or other structures at risk. This pilot study is testing a new type of implant called the Rectangular Block Implant (RBI), which is designed specifically for these challenging cases.

The RBI has a distinctive rectangular shape that is meant to make the most of the available bone, spread forces more evenly, and reduce the risk of hitting the nerve that runs through the lower jaw. It is designed for patients who currently cannot receive conventional implants without additional bone grafting surgery.

You may be eligible if you are an adult who cannot have standard dental implants without a bone graft, have enough bone in a specific minimum size (at least 8mm x 6mm x 6mm), and have difficulty wearing removable dentures. Certain health conditions — including uncontrolled diabetes, active cancer, bleeding disorders, pregnancy, smoking, or use of bisphosphonate medications — would make you ineligible.

Key Eligibility Criteria

Inclusion (3)

- Inability to undergo conventional implant therapy without bone grafting or surgical bone augmentation
- Minimum 8mm (mesiodistal) x 6mm (buccolingual) x 6mm (vertical) bone.
- A history of inability to wear removable dentures

Exclusion (16)

- Uncontrolled diabetes,
- Adrenal insufficiency,
- Cushing's disease,
- Hyperthyroidism,
- Hypothyroidism,
- ... and 11 more (see full listing online)

Locations (1 total)

The University of Melbourne - Parkville, VIC, Australia

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12620000225910>

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