

# Comparing the long-term clinical outcome of two designs of high strength ceramic (zirconia) crowns on dental implants

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**Status** RECRUITING  
**Sponsor** University of Melbourne  
**Enrollment** 50 participants

## Plain Language Summary

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This study is comparing two different design approaches for full-contour zirconia crowns — metal-free ceramic tooth caps — placed on dental implants. Zirconia is a strong, tooth-coloured material that is increasingly popular as an alternative to traditional metal-backed ceramic crowns, which require more complex manufacturing. However, long-term clinical data on the best design for zirconia implant crowns is still limited.

Participants with single dental implants will receive either one design type or the other and be followed up over several years to assess fracture rate, fit, aesthetics, and overall clinical performance. The results will help dentists make better-informed decisions about which crown design to recommend.

You may be eligible if you need a crown on a single dental implant and have at least 20 functional teeth. People who are pregnant, smoke, have uncontrolled diabetes, metabolic bone disease, have had head or neck radiation in the past year, or have severe teeth-grinding habits are not eligible.

## Key Eligibility Criteria

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### Inclusion (2)

- Single implant
- Minimum of 20 functional teeth

### Exclusion (7)

- Requirement for major or block grafting
- Head or neck radiation in previous 12 months
- Metabolic bone disease
- Severe parafunction
- Uncontrolled diabetes

... and 2 more (see full listing online)

## Locations (1 total)

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VIC, Australia

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<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12618000614291>

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