

# Reverse or Anatomical replacement for Painful Shoulder Osteoarthritis (in adults 60 years and over): Differences between Interventions (RAPSODI-AUS)

ACTRN12622001364763

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Status	RECRUITING
Sponsor	Deakin University
Enrollment	430 participants

## Plain Language Summary

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This study, called RAPSODI-AUS, is looking at the best way to replace a shoulder joint that has been worn down by osteoarthritis — the kind of joint damage where the smooth cartilage covering the bones gradually breaks down, causing pain and stiffness. There are two main types of shoulder replacement surgery available: an "anatomical" replacement that closely mirrors the natural shoulder structure, and a "reverse" replacement where the ball-and-socket is flipped, which can work better for some types of shoulder damage. Surgeons have debated for years which approach gives better outcomes, and this trial aims to settle that question with solid evidence.

The trial will recruit 430 adults aged 60 and over across Australian hospital sites, with half receiving each type of surgery. Participants will be followed over time to measure pain, shoulder function, and quality of life. Australia is running this study in parallel with a similar UK trial (RAPSODI-UK) to build an even stronger evidence base.

You may be eligible if you are 60 or older, have been diagnosed with shoulder osteoarthritis that has not responded to other treatments, have an intact rotator cuff (confirmed by imaging), and do not have inflammatory arthritis or a recent shoulder injury. If both your shoulders need replacing, you cannot participate if you have already been enrolled for the other shoulder.

## Key Eligibility Criteria

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### Inclusion (5)

- Aged 60 years and over.
- Diagnosis of painful osteoarthritis of the glenohumeral joint using routine radiographs not controlled by previous interventions.
- An intact rotator cuff determined by pre-operative advanced imaging (Ultrasound, MRI, or CT).
- Minimal glenoid erosion determined by pre-operative CT or other imaging in whom a non-augmented replacement is appropriate.
- Able to give informed consent.

### Exclusion (4)

- Shoulder replacement surgery contra-indicated.
- A diagnosis of inflammatory arthritis, acute trauma or trauma sequelae.
- Evidence that the patient would be unable to adhere to trial procedures or complete questionnaires.
- Trial participant for TSR for opposite shoulder.

## Locations (25 total)

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St John of God Hospital, Geelong - Geelong, NSW,QLD,TAS,WA,VIC, Australia  
Barwon Health - Geelong Hospital campus - Geelong, NSW,QLD,TAS,WA,VIC, Australia  
Wagga Wagga Base Hospital - Wagga Wagga, NSW,QLD,TAS,WA,VIC, Australia

... and 22 more locations

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12622001364763>

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