

Robotic assisted vs instrumented total knee replacement (TKR): a single-blind randomised controlled clinical trial.

ACTRN12622001169730

Status	RECRUITING
Sponsor	Healthscope Australia
Enrollment	100 participants

Plain Language Summary

Total knee replacement is one of the most commonly performed orthopaedic surgeries worldwide, and surgeons are always looking for ways to improve the accuracy of how the new knee joint is positioned. This study compares two approaches: the traditional method using physical guides and instruments called "jigs" to make the bone cuts, versus a newer method that uses a robotic arm (called ROSA) to assist the surgeon with greater precision.

While early evidence suggests that robotic-assisted surgery may result in more accurate component positioning, it is not yet clear whether this accuracy actually translates into better outcomes for patients — meaning less pain, better movement, and greater satisfaction. This randomised trial aims to answer that important question.

You may be eligible if you are 18 or older and are having your first knee replacement due to osteoarthritis (wear-and-tear arthritis). The study excludes people who are planning bilateral (both knees at once) replacements or two knee replacements within 6 months of each other, as that would complicate the comparison of outcomes.

Key Eligibility Criteria

Inclusion (4)

- Population
- The study population will include individuals aged greater than or equal to 18 years presenting to participating surgeons for TKR due to knee osteoarthritis (OA).
- Primary TKR surgery secondary to OA
- Able to provide informed consent in English

Exclusion (1)

- Simultaneous bilateral TKR or planned sequential TKR within 6 months of each other.

Locations (1 total)

Nepean Private Hospital - Kingswood, NSW, Australia

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12622001169730>

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