

Shapematch study (Kinematic vs Mechanical Alignment Total Knee Replacement): A 10 year follow up study

ACTRN12621001243808

Status	RECRUITING
Sponsor	North Shore Hospital Waitemata DHB
Enrollment	95 participants

Plain Language Summary

Total knee replacement is one of the most common surgeries performed for severe knee arthritis. Two different techniques are used to align the new joint: mechanical alignment (targeting a straight, neutral leg axis) and kinematic alignment (targeting a position that more closely matches your natural knee anatomy). Both are established techniques, but it is not known whether one leads to better long-term results than the other.

This study is a 10-year follow-up of approximately 95 patients who took part in an earlier trial where they received one of these two approaches in New Zealand. Researchers want to know whether either technique leads to better pain, function, or quality of life outcomes a decade after surgery, and whether there are differences in how long the implant lasts or how often re-operations are needed.

Participants are people who were already enrolled in the original 2011 trial (ShapeMatchNZRCT-10), still have their original implant in place, and are willing to attend a follow-up clinic appointment for questionnaires and knee X-rays. People who have had revision surgery or who have significant cognitive difficulties are not eligible.

Key Eligibility Criteria

Inclusion (3)

- Patient was enrolled in ShapeMatchNZRCT-10 (ACTRN12611000147987) and completed either the 2 year and 5 year follow-up visit (or both).
- Patient is willing and able to give informed consent to participate in the study.
- Patient is willing and able to comply with the specified clinical and radiographic evaluations.

Exclusion (3)

- Patient no longer has the Triathlon® Total Knee System in situ, including patients that have had revision surgery.
- Patient has a cognitive impairment, an intellectual disability or a mental illness that is considered by the investigator to inhibit the patient's capacity to consent to research and the ability to participate in it.
- Patient no longer resides in a geographical location that would reasonably permit clinic visits at protocol specified intervals.

Locations (1 total)

New Zealand

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12621001243808>

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