

Waiting time: Does it affect the physical functioning of people waiting for a total joint replacement?

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Status RECRUITING
Sponsor The University of Adelaide
Enrollment 250 participants

Plain Language Summary

If you are on a waiting list for a hip or knee replacement, you may know all too well how long the wait can feel — and how your body can change during that time. This study is looking at whether the length of time people spend waiting for joint replacement surgery affects how well they can move and function physically. Researchers will track walking patterns, pain levels, and quality of life in people waiting at the Royal Adelaide Hospital.

To study movement, the research team will use a combination of tools: wearable sensors (like a watch), a special treadmill, and a high-tech camera system called optical motion capture. This is one of the first studies to see whether wearable devices can measure walking as accurately as the gold-standard lab equipment.

You may be eligible if you are 18 or older and are on the surgical waiting list at the Royal Adelaide Hospital for a total knee or hip replacement. People who cannot walk unaided can still take part in some parts of the study. This research could help hospitals better support patients while they wait for surgery.

Key Eligibility Criteria

Inclusion (2)

- People aged 18 years and over.
- People on the orthopaedic surgical waiting list at the RAH for total knee arthroplasty (TKA) or total hip arthroplasty (THA).

Exclusion (8)

- People who are unable to provide consent (written and spoken).
- People who are unable to bring a family member to interpret for them if they are unable to understand written and spoken English
- People with pre-existing neuromuscular disorders
- People with pre-existing traumatic brain injury
- Women who are pregnant

... and 3 more (see full listing online)

Locations (1 total)

The Royal Adelaide Hospital - Adelaide, SA, Australia