



SCAN TO WATCH VIDEO

What is a Total Knee Replacement?

A total knee replacement resurfaces the damaged joint — replacing worn cartilage and bone with precision-engineered metal and polyethylene components that recreate the natural mechanics of the knee. When performed with kinematic alignment and patient-specific instruments, the result is a knee that not only functions well but feels more natural than traditional techniques. It remains one of the most transformative operations in modern orthopaedic surgery.

THE TECHNIQUE

01 Implant Components

Cobalt Chrome femoral component; polyethylene tibial bearing.

02 How the Knee Moves

Medial pivot design replicates the natural rotation of the knee.

03 Kinematic Alignment

Implant positioned to each patient's own anatomy.

04 Recovery Milestones

Flexion to 90° by week 2; full activity at 6 weeks.

AT A GLANCE

IMPLANT

Cobalt Chrome

BEARING

Polyethylene

TECHNIQUE

Kinematic Alignment

RECOVERY

6 Weeks

"We restore the knee's natural mechanics, not just its function."

— Dr Chien-Wen Liew

FREQUENTLY ASKED QUESTIONS

Q. Will the knee feel natural after replacement?

Kinematic alignment aims to replicate your own anatomy, giving the knee a more natural feel than traditional techniques in the majority of patients.

Q. When can I drive after a knee replacement?

Most patients can drive an automatic vehicle at 2–3 weeks, once they can safely perform an emergency stop. Confirm timing with Dr Liew.

Q. What rehabilitation will I need?

Physiotherapy begins on the day of surgery. A program can help you accelerate your goals and functional outcomes, but not overdoing things is critical to success.

ABOUT THE SURGEON

Dr Chien-Wen Liew exclusively performs total hip replacements via the direct anterior approach and total knee replacements via kinematic alignment only. He utilises patient-specific technology for both procedures, and practices from Orthopaedics 360 — within the Eastwood Private Hospital Precinct.

Dr Chien-Wen Liew

Hip and Knee Replacement Surgeon

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