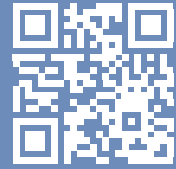


Precision in Hip Replacement



SCAN TO WATCH VIDEO

Accurate component placement is one of the most important determinants of hip replacement success. Too steep or too anteverted, and dislocation risk rises. Too flat, and impingement occurs. Modern technology — CT-based 3D planning, intraoperative verification, and specialised positioning systems — have made precise implant placement more achievable than at any point in the history of joint replacement surgery.

THE TECHNIQUE

01 CT-Based 3D Planning

Each component size and position is planned before the patient enters theatre.

02 Carbon Fibre Table

A specialised carbon fibre table controls limb position for precise, safe access.

03 Intraoperative Guides

Patient-specific guides confirm cup orientation during implantation.

04 Fluoroscopic Verification

X-ray screening during surgery confirms accurate component placement.

AT A GLANCE

PLANNING

CT-Based 3D

TABLE

Carbon Fibre

GUIDES

Patient-Specific

VERIFY

Intraoperative XR

"Precision is not an option.

It is the standard."

— Dr Chien-Wen Liew

FREQUENTLY ASKED QUESTIONS

Q. Why does component position matter so much?

The cup orientation determines wear, dislocation risk, and impingement. Even a few degrees outside the safe zone changes outcomes significantly.

Q. What is the safe zone for cup placement?

The Lewinnek safe zone (40° inclination, 15° anteversion) remains the target — though optimal placement is patient-specific.

Q. Does 3D planning add to the cost of surgery?

CT-based planning is incorporated into the surgical fee at Orthopaedics 360. It is considered an essential part of every procedure.

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

Orthopaedics 360 · Eastwood Private Hospital, Adelaide SA

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