

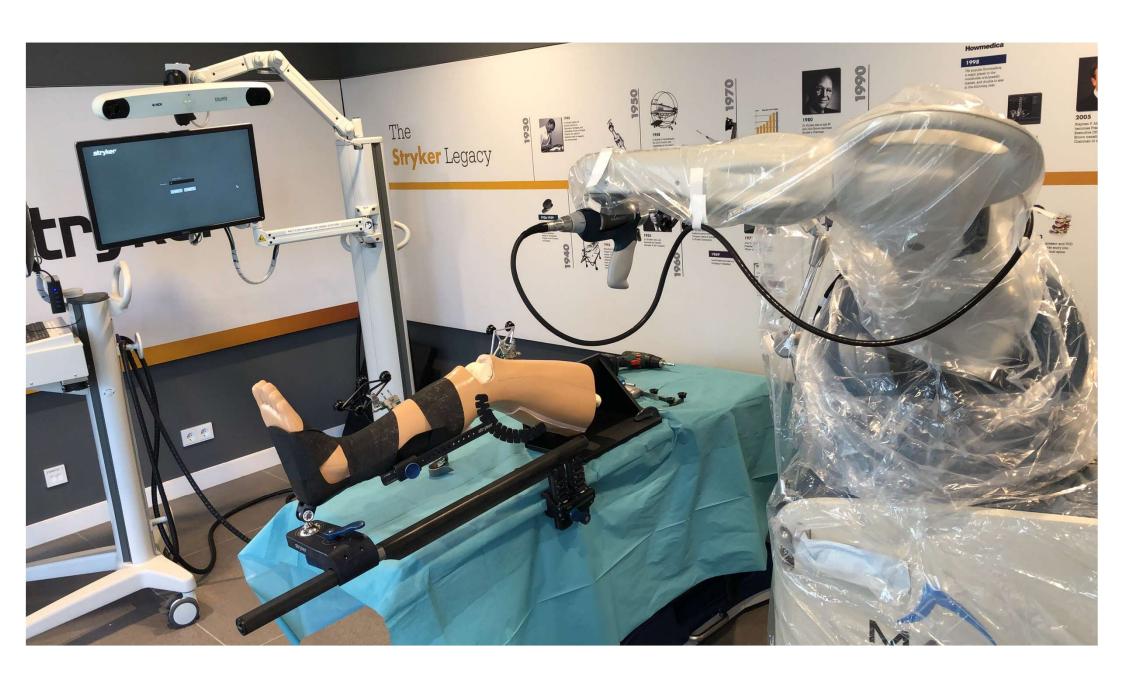
MAKO – Robotic Assisted Joint Surgery Mr Rishi Chana FRCS Tr&Orth

Certified MAKO
Hip & Knee Surgeon

Princess Margaret
Hospital
Windsor

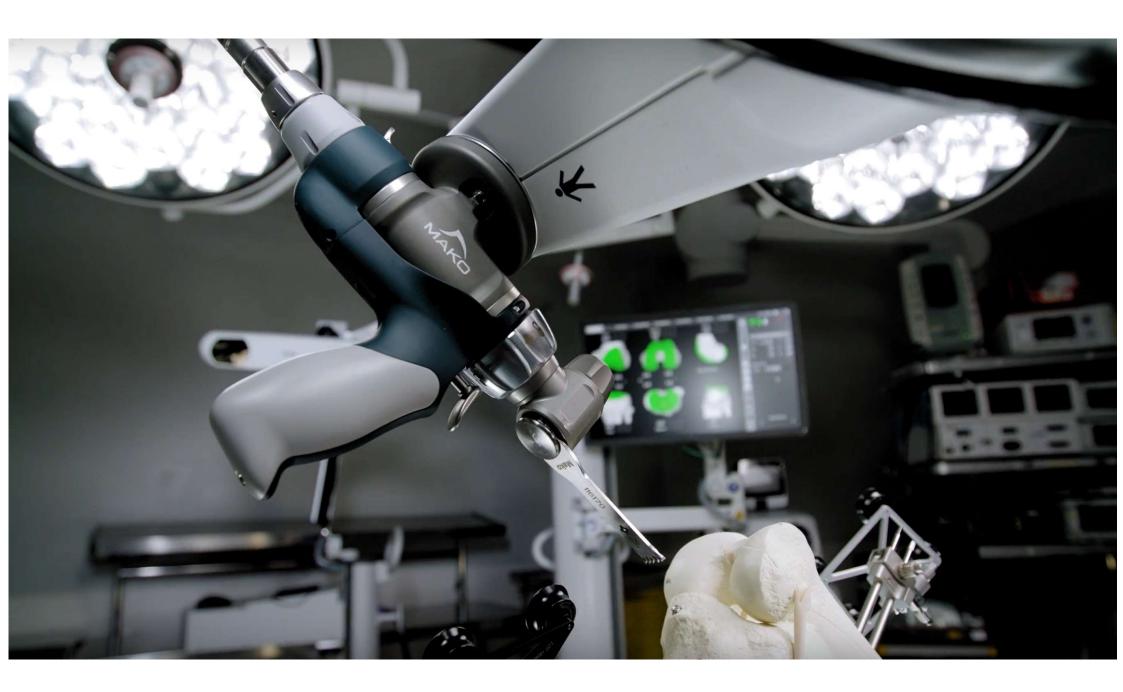
What is all the fuss about?

- History of Joint replacement techniques and evidence based landmark improvements.
- Reliable reproducible results every time.
- Paradigm shift from Analogue to Digital era.
- Less invasive surgery = Better physiological reaction = Enhanced Recovery



Patient Journey

- Seen in clinic, history and examination, xray to confirm diagnosis
- Informed consent shared agreement, after failed conservative treatments...
- CT to marry up the Real Patient and Virtual Computer Navigated Model (Robot)
- Pre-op Planning
- Surgery
- Rehab





Final bone cut and component positions

were 5 and 3 times more precise¹³

Mako Total Knee

Manual TKA

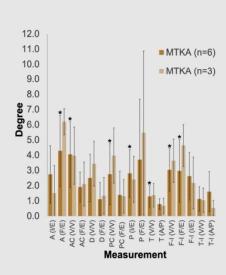
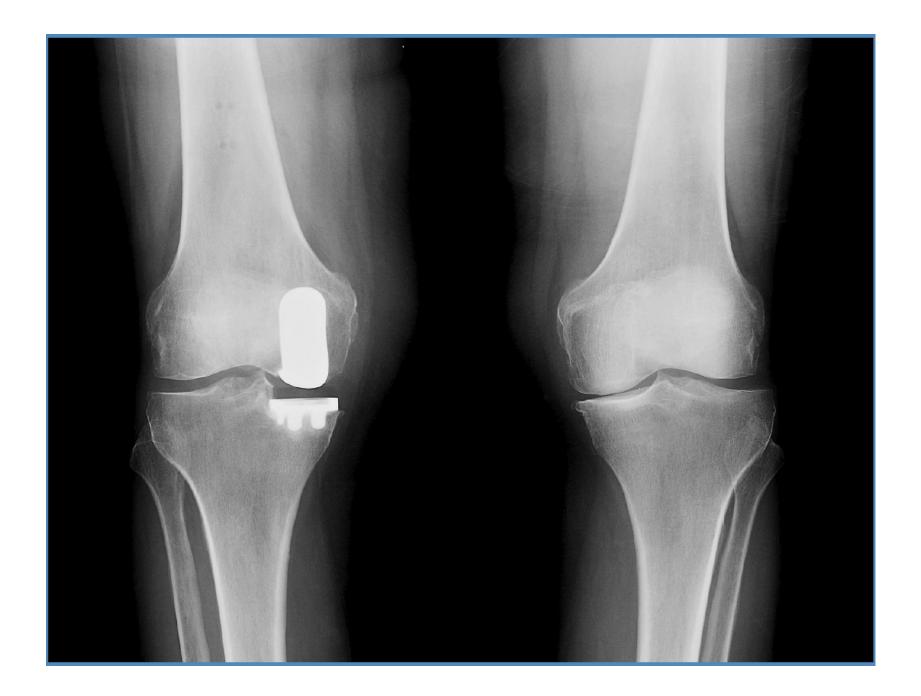


Figure 1. Comparison of RATKA and MTKA mean cuts and implant position to plan for all 6 matched pairs (n=6) and last 3 matched pairs (n=3). For final bone cut to plan, on the femur, A = Anterior, AC = Anterior Chamfer, D = Distal, PC = Posterior Chamfer, and P = Posterior, and on the tibia, T = Tibia. For final component position to plan, F-I = Femoral Implant, T-I = Tibial Implant. V/V = varus or valgus, F/E = flexion or extension, I/E = internal or external, and A/P = anterior or posterior slope. Error bars represent standard deviation. *Indicates a significant difference between RATKA and MTKA for n=6, with RATKA having less variance.





@londonhipsurgeon



Mr Rishi Chana



Rishi Chana





Rishi Chana London Orthopaedic Hip & Knee Surgeon



Rishi Chana 148 Five star reviews Certificate of Excellence 2017-19