CUHK ARTHROPLASTY RESEARCH AND TECHNOLOGY SUMMIT 2027

Date: January 16–17, 2027 | Venue: Auditorium, 10/F, CUHK Medical Centre, 9 Chak Cheung Street, Shatin, HK

Preliminary Program

Day 1: January 16, 2027 — Keynotes, Advanced Navigation & Robotics

Time	Session & Title	Core Topics & Highlights
08:30 – 10:00	Highlighted Opening Plenary & Keynotes: The Future of Precision Arthroplasty & Digital Disruption	• Welcome Remarks • Keynote 1: Frontiers in Joint Reconstruction and Technological Integration in Asia-Pacific • Keynote 2: Artificial Intelligence and Predictive Analytics in Arthroplasty Outcomes • Keynote 3: Digital Health, Wearables, and Value-Based Reconstructive Surgery
10:00 – 10:30	Networking Coffee & Technology Exhibition	Hands-on workstation demos: Next-gen haptic feedback and mixed-reality headsets
10:30 – 12:30	Symposium I: Advanced Navigation & AR in Knee & Hip Arthroplasty	• Latest developments in CAS around the world; AR Navigation in THA: Evolution, Future Perspectives, and OCM Approach • Augmented-reality navigation for knee arthroplasty: Safe and effective use & pitfall avoidance • Alignment and kinematics in Oxford UKA, including cementless Oxford UKA (Phase 5) • DAA tableless with VELYS hip navigation & robotic-assisted surgery in managing tibia bone loss
12:30 – 14:00	Luncheon & International Faculty Roundtables	Focused thematic tables on surgical training pathways and cross-border registry data sharing
14:00 – 15:30	Session II: Robotics & Complex Deformities (Featuring Day 1 Exclusive)	• Robotic hip and knee replacement (Mako, CORI) and One-day surgery for bilateral TKA/THA • Robotic TKA for Complex Deformities: Real-World Cases and Planning • Regional perspectives and clinical implementation in high-volume robotic centers • Patellofemoral replacement and advanced alignment techniques
15:30 – 17:00	Workshop Session I: International Consortium Incubators	Breakout working groups: Designing multi-center randomized controlled trials (RCTs) and standardizing robotic/AR outcomes data collection

Day 2: January 17, 2027 — Perioperative Optimization, Complex Revision

Time	Session & Title	Core Topics & Highlights
08:30 – 10:30	Plenary Session: Perioperative Optimization & Biomechanics (Featuring Day 2 Exclusives)	• Advanced computer-assisted surgery and clinical case reviews • Weight-based prophylactic antibiotics, the role of topical TXA, and topical implant adjuncts • Smart implant stability and biomechanical modeling • Clinical pearls on complex primary pathways
10:30 – 11:00	Networking Coffee +/- Poster Viewing	Interactive poster sessions and clinical research discussion

11:00 – 12:30	Symposium II: Complex Revision Hip & Knee Reconstructions	• 3D printing in complex revision hip surgery • Challenging Revision TKA and THA: Practical Strategies and Case Studies
12:30 – 14:00	Lunch +/- Poster Viewing	Networking and informal poster discussion
14:00 – 15:30	Interactive Faculty Panel & Open Discussion	Deep-dive case analyses on complex joint reconstructions and technology troubleshooting with international faculty
15:30 – 16:30	Closing Plenary & The CUHK Charter Signing	• Summary of working group findings and multi-center trial proposals • Official signing of the CUHK Global Arthroplasty Research Consortium agreement • Closing remarks and announcement of Summit 2028

Remarks: The above program is preliminary and is subject to change without prior notice.