

**Sunday, 2 November 2025**

<b>Time</b>	<b>Room</b>	<b>Topic (Moderators)</b>	<b>Speakers / Presenters</b>
<b>07:30 – 10:00</b>	<b>S221</b>	<b>Free Paper Session VI: Basic Sciences</b> (Wayne Yuk Wai LEE, Sien LIN)	
<b>6.1</b>		Cascade targeting selenium nanoparticles-loaded hydrogel microspheres for multifaceted antioxidant defence in osteoarthritis	Yiting Lei
<b>6.2</b>		Sensory neuron activation by brain-derived nerve growth factor harnesses stem cells to promote bone regeneration after traumatic brain injury	Zheyu Jin
<b>6.3</b>		Sexual dimorphism in treatment response to low-dose semaglutide for osteoarthritis	Mingde Cao
<b>6.4</b>		Short-term therapeutic effects of extracellular vesicles isolated from three-dimensional culture of adipose-derived stem cells in a rat model of failed healing tendinopathy	Haining Liu
<b>6.5</b>		Therapeutic effect of low pH-preconditioned tendon-derived stem cells exosomes on tendinopathy	Meng Zhou
<b>6.6</b>		Neuroimmune modulation by TFAA4 protects against intervertebral disc degeneration	Jiaheng Han
<b>6.7</b>		ChitoSilkBioPatch: a bio-inspired wound dressing scaffold for antibiotic-free diabetic wound management	Cheuk-Kin Kwan
<b>6.8</b>		Functional study of JunB in skeletal muscle regeneration	Qin Zhou
<b>6.9</b>		Advanced glycation end-product breaker alleviates hyperglycaemia, muscle functional perturbation, and osteoporosis: an aged, diet-induced hyperglycaemia mouse model	Victor Yan-Zhe Lu
<b>6.10</b>		Calcitonin gene-related peptide alleviates bone ageing by upregulating Klotho expression	Weiyang Liu
<b>6.11</b>		Association of circulatory proteins with adult spinal deformity risks: a Mendelian randomisation study	Gabriel Chun Yin Sung
<b>6.12</b>		Precision pulsed electromagnetic field therapy for osteoarthritis	Ye Li
<b>6.13</b>		Low-magnitude high-frequency vibration combined with $\beta$ -hydroxy- $\beta$ -methylbutyrate treatment to prevents neuromuscular junction degeneration in age-related sarcopenia	Qianjin Wang
<b>6.14</b>		A standardised anterior cruciate ligament reconstruction model in rabbits using a transtibial guide device for injectable magnesium-based materials research and development	Xuan He
<b>6.15</b>		A pilot single cell RNA transcriptomic study reveals convex-concave osteogenic asymmetry via mTOR-FZD5 signalling in adolescent idiopathic scoliosis	Gen Tang
<b>6.16</b>		Pathogenesis of type V osteogenesis imperfecta	Zhijia Tan
<b>6.17</b>		SoniC/S: a rapid and efficient approach for whole-tissue optical clearing and immunofluorescent staining	Hoi Pan Harry Cheung

Time	Room	Topic (Moderators)	Speakers / Presenters
07:30 – 10:00	S225	<b>Free Paper Session VII: Rehabilitation, Orthopaedic Oncology, Hand and Microsurgery</b> (Wesley NG, Michelle LEE)	
7.1		Preoperative serum albumin level is a useful predictor of long-term survival in patients with necrotising fasciitis	Mancy Tsz-man Ching
7.2		Differentiating native knee septic arthritis from non-infective arthropathies a multivariable logistic regression model from 1052 knee aspirates	Emanuel Chi-hang Sung
7.3		Socioeconomic burden of osteoarthritis in Hong Kong: a descriptive and comparative study	Yuk Tung Chan
7.4		Machine learning prediction of reinjury at the 2-year follow-up in athletes with chronic ankle instability using clinical risk factors	Ui-jae Hwang
7.5		Acupuncture for rotator cuff-related shoulder pain: a systematic review and meta-analysis	Xin Fu
7.6		Motor unit potential and nerve conduction velocity as novel correlates of muscle health in sarcopenia	Can Cui
7.7		Use of anti-osteoporotic agents in fracture liaison service demonstrates efficacy in reduction of mortality and refracture rates: a single-centre retrospective cohort study	Zhipeng Yan
7.8		Effect of pulsed electromagnetic field therapy on the postural balance in patients with end-stage knee osteoarthritis: secondary analysis of a randomised clinical trial	Ioi Chit Cheung
7.9		Adherence to a digital knee rehabilitation programme in Hong Kong: a qualitative study	Naomi Cheuk Ying Chen
7.10		Six-week structured non-surgical treatment programme can have sustained improvement for 18 months in 1362 patients with end-stage knee osteoarthritis	Wing Yip Lee
7.11		Extracortical bone bridge with vascular bone graft reduces junctional resorption in megaprosthesis reconstruction in patients with orthopaedic oncology: a review of >10 years of experience	Ching Ngai Gabriel Leung
7.12		Outcomes of arthroscopic synovectomy in metacarpophalangeal joints: a retrospective analysis of patients with inflammatory arthritis	Wing Cham Yu
7.13		Multiple tendon transfers under 'wide awake local anaesthesia no tourniquet': a retrospective case series	Tsz Ching Leo Chau
7.14		Sensory outcomes of cross finger flap versus heterodigital island flap for fingertip reconstruction: an 11-year retrospective analysis	Tsang Yeung
7.15		Outcomes of reverse Sauvé-Kapandji procedure in congenital proximal radio-ulnar synostosis: a case series	Michelle Kar Lam Li
7.16		Ulnar morphology and stability of the distal radial ulnar joint	Michael Mak
7.17		Multicentre subgroup analysis of Wassel type IV thumb polydactyly: a comprehensive review of anatomical features, surgical management, and outcomes	Ka Wai Cheng
7.18		Complications of intramedullary screw in proximal phalanx fractures: a systematic review	Chi Yan Leung

Time	Room	Topic (Moderators)	Speakers / Presenters
07:30 – 10:00	S226	<b>Free Paper Session VIII: Paediatric Orthopaedics II, Foot &amp; Ankle</b> (John CHAN, Lin Wing LOK)	
8.2		Prognostication of adolescent idiopathic scoliosis using unsupervised machine learning: a retrospective cohort study on 655 cases up to skeletal maturity	Cheuk Kin Kwan
8.3		Anterior head posture may be associated with curve progression to bracing threshold in patients with mild adolescent idiopathic scoliosis	Tsz Hang Ma
8.4		Observed trends of functional leg length discrepancy, pelvic obliquity, and curve progression in adolescents with idiopathic scoliosis treated with bracing	Tsz Ping Chong
8.5		Complexity in closed spina dysraphism: lessons and pitfalls learned from a multidisciplinary combined clinic	Alec Lik Hang Hung
8.6		Effect of full-time rigid bracing on pulmonary function in adolescent idiopathic scoliosis	Yuen Tong Law
8.7		A scoping review on the application of new technology in the screening and diagnosis of adolescent idiopathic scoliosis	Nandini Dulani
8.8		Acceptance and commitment therapy versus education for improving psychological well-being in parents and children with adolescent idiopathic scoliosis: a randomised controlled trial protocol	Chelsia Ka Ching Cheung
8.9		A novel bone microarchitecture phenotyping model for predicting curve progression in adolescent idiopathic scoliosis at the first clinical consultation: a prospective longitudinal study of 292 girls followed up to skeletal maturity	Kenneth Guangpu Yang
8.10		Using ultrasound to reduce unnecessary X-ray irradiation for screening scoliosis in school children: a diagnostic validation study in 892 participants	Cheuk Kin Kwan
8.11		Optimising the surgical journey in adolescent idiopathic scoliosis: starting with productive waiting time	Adam Yiu Chung Lau
8.12		The use of 3D-printed cutting guide improves the accuracy of distal chevron osteotomy for hallux valgus surgery	Ho Fung Yee
8.13		Acute effectiveness of ankle taping in dancers with chronic ankle instability	Jojo Hoi Ching Lai
8.14		Long-term effectiveness of pulsed electromagnetic field therapy on peroneal muscles and balance function in chronic ankle instability: a double-blinded randomised controlled trial	Samuel Ka-Kin Ling
8.15		Outcome of 3D-printed patient-specific-instrument-assisted lapidus fusion versus conventional lapidus fusion for surgical correction of hallux valgus deformity: a randomised control trial	Rachel Lok-ting Man
8.16		The role of tendon thickness in Achilles function	Samuel Ka Kin Ling
8.17		Application of platelet-rich plasma in different foot and ankle conditions: a single-centre retrospective review	Esther Man-wai Chow
8.18		Comparison of 1.5-cm mini-open Achilles tendon repair and the Achillon device for Achilles tendon rupture	Cheuk Yi Cherry Sham
8.19		Radiological and early clinical outcome in fibular nailing for Weber B fractures: a prospective evaluation of restoration of fibular anatomy	Lucci Lugee Liyeung

Time	Room	Topic (Moderators)	Speakers / Presenters
07:30 – 10:00	S227	<b>Free Paper Session IX: Adult Joint Reconstruction II</b> (Gerry HO, Matthew LEE)	
9.1		Replace the hip, balance the spine! Total hip arthroplasty improves global sagittal spinal imbalance and spinopelvic mobility: a prospective cohort of 163 patients with EOS whole body postural radiographs	Thomas Ka Chun Leung
9.2		Minimising revision: long-term outcome and survivorship of porous tantalum acetabulum components in complex primary and revision total hip arthroplasty: a 10 to 20 year study	Chun Man Lawrence Lau
9.3		Minimal risk of dislocation with robotic arm-assisted total hip arthroplasty: a review of 236 hips from a tertiary referral centre	Wing Tung Ng
9.4		Functional cup positioning in total hip arthroplasty for patients with ankylosing spondylitis: a 20-year survivorship analysis	Kai Chun Augustine Chan
9.5		Spino-pelvic profile in patients with hip osteoarthritis in Hong Kong	Chi Kin Lo
9.6		Hip-knee relationship in an Asian population	Jerone Chiu
9.7		Cementless and cemented medial congruent total knee arthroplasty: an early result	Chun Man Lawrence Lau
9.8		Clinical outcomes of posterior stabilised versus medial congruent total knee arthroplasty	Chun Man Lawrence Lau
9.9		Constrained posterior stabilised inserts yield comparable early outcomes to posterior stabilised inserts in total knee arthroplasty for severe deformities in an Asian cohort: a retrospective study	Hoi Kin Leung
9.10		Kinematic analysis of inlay versus onlay technique for patella resurfacing in primary total knee arthroplasty	Yan Zhe Victor Lu
9.11		Comparison of clinical outcomes and kinematics of cruciate-retaining and medial congruent cruciate-retaining implants	Ashley Ying-Ying Wong
9.12		Metaphyseal fixation devices in total knee arthroplasty: a retrospective review	Ho Yin Chan
9.13		Natural history of biological fixation in highly porous cementless total knee arthroplasty with minimum of 2 years of follow-up	Kai Chun Augustine Chan
9.14		Timing is everything: does discharge timing affect postoperative outcomes of arthroplasty?	Tin Oi Josephine Yu
9.15		Comparing monopolar and bipolar diathermy for haemostasis in total knee arthroplasty: a randomised controlled trial	Michelle Hilda Luk
9.16		Sonication of explanted components as a clinical adjunct for the microbiological diagnosis of periprosthetic or peri-implant infections: a diagnostic accuracy study	Ping Keung Chan
9.17		Next-generation sequencing for microbial detection in prosthetic joint infections	Rhoda Cheuk-Ying Leung
9.19		Enhanced recovery after surgery for total knee replacement in a Hong Kong public hospital	Ho Ken Fong
9.20		From traditional to virtual: enhancing access and clinic efficiency by migrating stable postoperative joint replacement cases to telehealth nurse clinic	Pok Man Fung
9.21		Spinopelvic parameters associated with prosthetic impingement in patient undergoing total hip arthroplasty ( <i>New Zealand Orthopaedic Association Ambassador Paper</i> )	Woo-sung Kim

Time	Room	Topic (Moderators)	Speakers / Presenters
07:30 – 10:00	S228	<b>Free Paper Session X: Sports Medicine II</b> (George Ying Kan LAW, Ramon Yiu LO)	
10.1		Barriers to rehabilitation after anterior cruciate ligament reconstruction: a qualitative focus group analysis	Sik Lok To
10.2		Constructing a machine learning model to predict anterior cruciate ligament re-rupture rate: a feasibility study	Ryan Wai Chung Hui
10.3		Correlation between early postoperative clinical outcomes and bone tunnel morphological parameters on high-resolution peripheral quantitative computed tomography in anterior cruciate ligament reconstruction	Cham Kit Wong
10.4		Decade of progress: anterolateral ligament reconstruction in primary anterior cruciate ligament surgery	Kevin Chi Him Fok
10.5		Engineered hydrogels for tunable mRNA release: enhancing TGF- $\beta$ 3 mRNA therapy for tendon regeneration	Ruijia Huang
10.6		Biodegradable and high-oriented piezoelectric electrospun nanofibres for enhanced tendon regeneration	Zhenyu Zhong
10.7		Early reports of chondral lesion fixation using suture bridge technique in skeletally immature patients with open distal femoral physes	Janus Siu-him Wong
10.8		Associations between rotator cuff fatty infiltration, serum lipid levels, and statin use	Janus Siu-him Wong
10.9		Sport-specific versus conventional biomechanical assessments in identifying anterior cruciate ligament injury risk factors in badminton	Zuru Liang
10.10		Constructing a machine learning model to predict cuff retear rate: a feasibility study	Yee Lam Jasmine Louie
10.11		Correlations of radiological measurements and clinical outcomes in reverse shoulder arthroplasty: 10-year experience in United Christian Hospital	Kejun David Wei
10.12		Augmented reality-assisted high tibial osteotomy: surgical precision and efficiency	Jamie Chiu Tsun
10.13		Artificial intelligence- and large language model-integrated reverse shoulder arthroplasty planning improves efficiency, implant positioning, and safety: a comparative study	Li Liang Darren Wong
10.14		Single-centre 20-year review of necrotising fasciitis in limbs: the PACE score for mortality prediction	Hon Yeung Steven Tsui
10.15		Postoperative vitamin D levels predict quadriceps muscle strength recovery after anterior cruciate ligament reconstruction	Victor Yan Zhe Lu
10:00 – 10:30		<b>Coffee Break / Exhibition</b>	

Time	Room	Topic (Moderators)	Speakers / Presenters
<b>10:30 – 12:00</b>	<b>S221</b>	<b>Plenary Session III: Artificial Intelligence and Mixed Reality in Orthopaedics</b> (Michael Siu Hei TSE, Adam Yiu Chung LAU)	
10:30 – 10:50		Artificial intelligence in spine surgery	Max Meng-Huang WU
10:50 – 11:10		Advanced analytics in spinal deformity surgery: the now and the future	Michael P. KELLY
11:10 – 11:30		Technologies enabling precise bone and soft tissue tumour resection: mixed reality	Kwok Chuen WONG
11:30 – 11:50		VR+AI enabling immersive experience in training of young surgeons	Grace Teng ZHANG
11:50 – 12:00		Q & A	
<b>10:30 – 12:00</b>	<b>S227</b>	<b>Concurrent Session V: Foot and Ankle</b> (Esther Man Wai CHOW, Stephanie Ka Ki LIU)	
10:30 – 10:50		Achilles tendinopathy: the quest for clarity	Samuel Ka Kin LING
10:50 – 11:10		Staged approach to manage Achilles tendinopathy	Yeung YEUNG
11:10 – 11:30		Management of tendo Achillis stump after flexor hallucis longus transfer	Shun Ping WANG
11:30 – 11:40		Haglund's deformity and insertional Achilles tendinopathy	Shih-Chieh TANG
11:40 – 12:00		Case discussion and Q&A	
<b>10:30 – 12:00</b>	<b>S226</b>	<b>Concurrent Session VI: Orthopaedic Rehabilitation</b> (Raymond Wai Kit NG, Ophelia Yue Ting WAN)	
10:30 – 10:55		Interdisciplinary care model and long-term outcome for using epidural spinal stimulation for spinal cord injury	Hsiang-Ling HUANG Ming-Yung WU Sheng-Tzung TSAI
10:55 – 11:20		Management of spinal cord injury: surgery and beyond	Paul Aarne KOLJONEN
11:20 – 11:45		Innovations in chronic low back pain management	John YS CHOI
11:45 – 12:00		Q & A	
<b>10:30 – 12:00</b>	<b>S225</b>	<b>Concurrent Session VII: Hand</b> (Jeffrey Justin Siu Cheong KOO, Emily Ka Yan YIP)	
10:30 – 10:42		AI in predicting outcome of carpal tunnel syndrome cases	Oscar Su JIANG
10:45 – 10:57		Recurrent carpal tunnel syndrome	Jeffrey Justin Siu Cheong KOO
11:00 – 11:12		Ultrasound-guided carpal tunnel release	Michael Chu Kay MAK
11:15 – 11:27		Tendon transfer for severe carpal tunnel syndrome	Esther Ching San CHOW
11:30 – 11:42		Nerve conduction studies and electromyography: the differentiation between carpal tunnel syndrome and its mimickers	Alex Chi Ping CHOW
11:45 – 12:00		Case discussion	

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<b>10:30 – 12:00</b>	<b>S228</b>	<b>Concurrent Session VIII: Sports Medicine</b> (Michael Tim Yun ONG, Andrew FAN)	
10:30 – 10:50		Sports medicine in action: on-field care and team travel in football	Keith Hay Man WAN
10:50 – 11:10		Modelling the future of reverse shoulder arthroplasty	Jonathan Patrick NG
11:10 – 11:30		Glenoid fossa fractures: management and surgical approaches	Thin HONG
11:30 – 11:40		Does scapular muscle training programme preoperatively improve the functional outcomes and decrease coracoid pain? A randomised controlled trial	Athip KONGKLAM
11:40 – 11:50		Microbiological and biomechanical effects of gentamicin concentration and soaking duration in anterior cruciate ligament reconstruction: a porcine flexor digitorum profundus tendon model	Wachirawit PENRAT
11:50 – 12:00		Q & A	
<b>12:00 – 13:00</b>		<b>Lunch Symposia</b>	
	<b>S225</b>	Lunch Symposia I (Sponsored by Kinwood HealthCare Ltd)  Advancing in chronic pain management: a targeted approach to lumbar and sacroiliac joint pain  Coolief for spine and knee  Clinical application of endoscopic unilateral laminotomy and bilateral decompression in cervical and lumbar degenerative diseases	Raymond Churk Lun YIP  Zhen Wei LIM Xin WANG
	<b>S227</b>	Lunch Symposia II (Sponsored by Baxter Healthcare Ltd)  Use of haemostats in spinal surgery	John YS CHOI
	<b>S228</b>	Lunch Symposia III (Sponsored by Amgen Hong Kong Limited)  Restoring strength: spine surgery and anabolic treatment for recent fractures  Breaking the fragility fracture cascade: imminent and high-risk fractures to long-term management	Eric Cheung Hing LAM Paul Yun Tin TSE
<b>13:00 – 14:30</b>	<b>S221</b>	<b>Plenary Session IV: Precision Medicine and Big Data in Orthopaedics</b> (Keith Hay Man WAN, Gloria Yan Ting LAM)	
13:00 – 13:20		Machine learning in predicting the reparability of rotator cuff tears	Ekavit KEYURAPAN
13:20 – 13:40		Transforming complex spinal surgery with digital surgical planning and 3D printing	Yong HAI
13:40 – 14:00		Resurfacing the hip and knee: less is more in arthroplasty?	Justin COBB
14:00 – 14:20		The equation of kinematic dissolving: why arthroplasty shall be analytical and personalised?	Yixin ZHOU
14:20 – 14:30		Q & A	

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<b>13:00 – 14:30</b>	<b>S228</b>	<b>Concurrent Session IX: Spine</b> (Cho Yau LO, Edwin LAM)	
13:00 – 13:15		Harnessing machine learning to prevent complications in spine surgery	Yong HAI
13:15 – 13:30		Awake endoscopic spine surgery: benefits and limitations in contemporary practice	Max Meng-Huang WU
13:30 – 13:45		Complete patient journey powered by generative AI: development of mskalign to streamline scoliosis screening, prognostication, and management	Jason Pui Yin CHEUNG
13:45 – 14:00		Application of computerised navigation and 3D-printed model in complex spine surgery	Chun Man MA
14:00 – 14:15		Traumatic cervical spinal cord injury in Hong Kong: epidemiological data and implications for AI-driven radiological screening	Graham Ka Hon SHEA
14:15 – 14:30		Q&A	
<b>13:00 – 14:30</b>	<b>S227</b>	<b>Concurrent Session X: Orthopaedic Training</b> (Ronald Man Yeung WONG, Kam Kwong WONG)	
13:00 – 13:25		A new era of competency-based learning and resident evaluation in the US	Anna Noel MILLER
13:25 – 13:50		Emerging technologies and AI in orthopaedic medical education: college direction	Sheung Wai LAW
13:50 – 14:15		Entrusted professional activities: what, why and how	Ping Tak CHAN
14:15 – 14:30		Q&A	
<b>13:00 – 14:30</b>	<b>S225</b>	<b>Concurrent Session XI: Orthopaedic Oncology</b> (Anderson Siu Ming LEUNG, Jacky Hiu Woo LAU)	
13:00 – 13:20		Liquid nitrogen recycled autograft: can we trust it?	Raymond Ching Hin YAU
13:20 – 13:30		Q&A	
13:30 – 13:50		Use of 3D printed guides in bone sarcoma surgery: a practical consideration	Kwok Chuen WONG
13:50 – 14:00		Q&A	
14:00 – 14:30		Case presentation and discussion	Jacky Hiu Woo LAU
<b>14:30 – 15:00</b>		<b>Coffee Break / Exhibition</b>	
<b>15:00 – 16:30</b>	<b>S221</b>	<b>Plenary Session V: Innovative Surgical and Rehabilitation Techniques</b> (Felix LEUNG, Lucci Lugee LIYEUNG)	
15:00 – 15:20		Innovation in deformity correction: past and present	Chris HARRIS
15:20 – 15:40		Mechanobiology is compulsory for fracture healing – the concept of the biphasic plate	Michael SCHUETZ
15:40 – 16:00		Robotic surgery for adult spinal deformity: state of the art	John YS CHOI
16:00 – 16:20		AI and translational research in the foot and ankle field	Shun-ping WANG
16:20 – 16:30		Q & A	
<b>16:30 – 16:45</b>	<b>S221</b>	<b>Closing Remarks</b>	Michael Siu Hei TSE Ronald Man Yeung WONG