

**APOA25**  
*Cairns, Australia*  
9-12 April 2025

**Artificial  
Intelligence,  
Robotics  
and Mixed  
Reality**



Free Papers  
2025

# Free Papers - Podium Presentations

## DIVERSITY, INCLUSION, EQUITY, WAVES | OSTEOPOROSIS, FRAGILITY, FRAILITY | INFECTION ROOM M8

Thursday 10th April 8.00am - 9.30am

8.00am	Diversity in Orthopaedics - a study on stereotypes and review of literature	Kiyana Mirza
8.06am	A comparative analysis of Three Knee Arthrodesis Techniques to manage failed Knee Arthroplasty following Prosthetic Joint Infection: Intramedullary Nailing, LRS External Fixator, and Compression Plating	Raja Bhaskara Rajasekaran
8.12am	Outcomes of Knee Arthrodesis Using External Fixator After Failed Total Knee Replacement because of uncontrolled Infection	Uttam Chand Saini
8.18am	Impact of Osteosynthesis vs. Arthroplasty on Postoperative Outcomes in Elderly Patients with Fragility Fractures at Risk of Delirium	Derya Akbaba
8.24am	The Relationship Between Subsequential Osteoporotic Thoracolumbar Fracture Risk and Epidural Steroid Injection as Non-surgical Management for Patients with Lumbar Spondylosis: A Retrospective Matched Cohort Study.	Howard, Hao-wen Chen
8.30am	<b>DISCUSSION</b>	
8.42am	Correlation of Modified Frailty Index and Charlson Comorbidity Index with clinical outcomes based on Western Ontario and McMaster Universities Osteoarthritis Index in femoral neck fractures treated with total hip arthroplasty	Josiah Paolo Montales Mutia
8.48am	Clinical Validation of a Deep Learning-Based AI model Bone Mineral Density Prediction from Chest X-ray Images and its post-hoc validation	Kun-Hui Chen
8.54am	Osteoporotic Vertebral Compression Fracture- Classification Based Management Strategy	Md Anowarul Islam
9.00am	Fragility fractures are under recognised in RA	Owen Taylor-Williams
9.06am	Evaluation of using grip strength and hand muscle cross-sectional area to predict secondary fractures post distal radius fracture	Tsz Kin Kong
9.12am	<b>DISCUSSION</b>	



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## HIP ROOM M9

Thursday 10th April 8.00am - 10.00am

8.00am	Custom made 3D printed augments and cages- an effective option for management of severe acetabular bone loss	Ameya Ajit Katariya
8.06am	Reconstruction of the abductor function of the hip with a muscle-sparing vastus lateralis to gluteus medius translational transfer	Boopalan Ramasamy
8.12am	Revision Utilizing a Standard Cemented Stem in Early Postoperative Periprosthetic Femur Fractures	Cheng-Chi Wang
8.18am	Cementless Acetabular Cup Without Screw Holes: A minimum 20-year follow-up study	Chun Man Lawrence Lau
8.24am	Comparing revision rates of DAA hip replacement stems depending on surgeon volume and experience	Claudia Di Bella
8.30am	<b>DISCUSSION</b>	
8.40am	Direct Anterior Approach for Total Hip Arthroplasty in Bony Ankylosis of hips	Deepak Gautam
8.46am	A novel algorithm for the calculation of the impingement-free range of motion and optimal component orientation of elevated-rim liners for total hip arthroplasty	Hao Tang
8.52am	Outcome of Pelvic Support Osteotomy with ilizarov in unstable hips in adolescents and younger age group.	Muhammad Shoaib Khan
8.58am	Who needs 3D planning in preoperative planning for total hip arthroplasty? A study using a custom impingement simulation model.	Koki Abe
9.04am	Variation in mortality following hip fracture across the Asia Pacific region: systematic review and proportional meta-analysis	Lara A Harvey
9.10am	<b>DISCUSSION</b>	
9.20am	A Patient-specific Algorithm for Predicting Standing Sagittal Pelvic Tilt at One Year after Total Hip Arthroplasty: a Preliminary Validation Study	Hao Tang
9.26am	Kinematic Alignment for Cup Position in Total Hip Arthroplasty- Direct Anterior Approach using the Transverse Acetabular Ligament for Inclination and anteversion in conjunction with Anterior Acetabular Rim. This Achieves Functional Stability and "Patient Specific Safe Zone"	Praveen Singh Madan
9.32am	Australian Design Cementless Stem Affords Stability With and Without a Collar at Mid-Term Follow-Up	Rami Sorial
9.38am	Posterior-only fixation in pelvic fractures: Is it sufficient in lateral compression injuries?	Sandeep Patel
9.44am	<b>DISCUSSION</b>	

# Free Papers - Podium Presentations

## KNEE ROOM M8

Thursday 10th April 1.30pm - 4.00pm

1.30pm	Static Foot Pressure and Percentage Contact Area of the Foot as an Assessment Tool for the Success of Anterior Cruciate Ligament Reconstruction: A Cross-sectional Study	Abhishek Agarwal
1.36pm	Optimizing Femoral Component Rotation: A Comparative Evaluation of Robotic-Assisted versus Navigation-Assisted Total Knee Arthroplasty	Azlina Amir Abbas
1.42pm	meniscus reconstruction with autologous Tendon Graft	Cheng-Pang Yang
1.48pm	Comparison of Conventionally instrumented inverse Restricted Kinematic Alignment(irKA) and Robotic-assisted Gap-balance based TKA (ROSA) in the CPAK constitutional alignment restoration and functional outcomes: a case-cohort study	Chun-Hao Tsai
1.54pm	Are Distal Femoral Valgus Cut Angles Reliable in Clinical Outcomes of Total Knee Arthroplasty?	Derya Akbaba
2.00pm	Combined Therapy of Autologous Protein Solution and Hyaluronic Acid for Knee Osteoarthritis: 1-Year Results	Edmund Zhang
2.06pm	Component Size Discrepancies and Their Influence on Three-Year Outcomes in Simultaneous Bilateral Total Knee Arthroplasty: A Multicenter Prospective Study	Kunal Aneja
2.12pm	<b>DISCUSSION</b>	
2.22pm	Effect Of Dexamethasone On Post-Operative Pain Management In Patients Undergoing Total Knee Arthroplasty	Junaid Khan
2.28pm	Donor site morbidity following arthroscopic anterior cruciate ligament reconstruction using peroneus longus tendon autograft	Kiyana Mirza
2.34pm	Phenotype considered kinematically aligned total knee arthroplasty for windswept-deformity-associated osteoarthritis--surgical strategy and clinical outcome	Kui-Chou Huang
2.40pm	Postoperative full leg radiographs exhibit more valgus alignment compared to intraoperative measurements in robotic arm-assisted partial knee arthroplasty	Haobo Wu
2.46pm	Mid-Term Clinical and Functional Outcomes in Indian Patients Following Simultaneous Bilateral Total Knee Arthroplasty: Assessing the Impact of Body Mass Index	Kunal Aneja
2.52pm	Development and Validation of an Artificial Intelligence Preoperative Planning and Patient-Specific Instrumentation System for Total Knee Arthroplasty	Peilai Liu
2.58pm	Off-lable ultra high dose of tranexamic acid infusion in primary total knee arthroplasty: A randomized multicenter clinical trail	Qiang Huang
3.04pm	<b>DISCUSSION</b>	
3.14pm	Knee Phenotypes in Indian Populations: Insights for Personalized Arthroplasty Using CPAK Classification	Kunal Aneja
3.20pm	Advanced Osteoarthritis of Knee: New Treatment, New Hope	Shahidul Islam
3.26pm	Enhancing Knee Osteoarthritis Progression Prediction with a Novel Multimodal Machine Learning Model	Sik Loo Tan
3.32pm	2 years clinical outcome for Anterior Cruciate Ligament Reconstruction Using Femoral and Tibial Cortical Button Fixation.	tan wei how
3.38pm	Biomechanical Analysis Post-ACLR Comparison With Functional Hop Test Results	Timothy S Whitehead
3.44pm	How do I deal with soft tissue defect in knee arthroplasty	Weijun Wang
3.50pm	<b>DISCUSSION</b>	



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## HAND AND UPPER LIMB ROOM M9

Thursday 10th April 1.30pm - 4.00pm

1.30pm	Enhanced Deep Feature Fusion for the Automated quantification of the fatty infiltration of the Rotator Cuff muscles using MRI	Asma Salhi
1.36pm	All-arthroscopic muscle advancement procedure for massive retracted rotator cuff tears: clinical and radiological outcomes	Kristine Italia
1.42pm	Surgical outcomes and complication rates of arthroscopic-assisted fixation versus open fixation for coronoid fractures: A systematic review and meta-analysis	Leonard Christianto Singjie
1.48pm	The Clinical Course and Outcomes Following Arthroscopic Frozen Shoulder 360 Release	Brandon Ziegenfuss
1.54pm	The RADiCL Procedure: Repair/Augmentation of Dorsal Capsular Ligaments	Greg Couzens
2.00pm	Clinical outcomes of arthroscopic brachial plexus neurolysis for neurogenic thoracic outlet syndrome	Kristine Italia
2.06pm	<b>DISCUSSION</b>	
2.16pm	Modular Approach to Carpal Instability	Greg Couzens
2.22pm	The application of total elbow arthroplasty in rheumatoid arthritis: a 5-year multicenter prospective long-term follow-up study	Hao Xiong
2.28pm	Both intra-articular and intravenous tranexamic acid enhance visual clarity and reduce postoperative pain following arthroscopic rotator cuff repair: Retrospective cohort study	Hyojune Kim
2.34pm	A Novel Classification of Scaphoid Position in Scapholunate Instability	Greg Couzens
2.40pm	Personalised approach to patients with rotator cuff tears through data-driven machine learning for decision-making	Asma Salhi
2.46pm	Validation of Mixed Reality Technology as a Guidance Tool in Shoulder Arthroplasty	Kristine Italia
2.52pm	<b>DISCUSSION</b>	
3.02pm	Comparison in short term results between intra-articular sodium hyaluronate and intralesional corticosteroid injections for tennis elbow.	Nattakorn Mahasupachai
3.08pm	Trustworthy deep learning framework for the detection of abnormalities in shoulder x-ray images	Asma Salhi
3.14pm	Correction of Forearm and Wrist Deformities in Hereditary Multiple Exostoses (HME) Using the Ilizarov Method	Mofakhkharul Bari
3.20pm	Reverse shoulder arthroplasty in acute proximal humeral fractures: the DFER approach	Kristine Ramos Italia
3.26pm	Quantifying the Difference In Glenoid Component Position Between Total Shoulder Arthroplasty And Reverse Shoulder Arthroplasty	Rohit Sane
3.32pm	Radiographic Evaluation of the Humeral Side in Reverse Shoulder Arthroplasty	Shu Yoshizawa
3.38pm	<b>DISCUSSION</b>	



# Free Papers - Podium Presentations

## SPORTS ROOM M8

Thursday 10th April 4.00pm - 5.00pm

4.00pm	Clinical and Functional Outcome of Selective PL Bundle Reconstruction in PTS with Partial ACL Tear; An ACL remnant preserving approach
4.06pm	Clinical outcomes of anterior cruciate ligament reconstruction using quadriceps tendon autograft versus hamstring tendons autograft
4.12pm	Human Dermal Allograft Augmentation in Rotator Cuff Repair: Is there Patch Integration?
4.18pm	Concomitant meniscus repair with ACL reconstruction does not affect short term post operative outcomes clinically
4.24pm	<b>DISCUSSION</b>
4.29pm	Title; Triple Surgical approach in patients with atraumatic recurrent patellar dislocation.
4.35pm	Peroneus longus in ACL reconstructions- comparison with hamstring graft
4.41pm	Arthroscopic 360-capsular release versus intraarticular steroid and hydro-dilatation in the treatment of primary adhesive capsulitis
4.47pm	Relationship between the incidence of little leaguer's elbow and athletic performance in young baseball players
4.53pm	<b>DISCUSSION</b>

## FOOT AND ANKLE ROOM M8

Thursday 10th April 5.00pm - 6.00pm

5.00pm	Outcomes in Surgically Treated Foot and Ankle Fractures Sustained in Extreme Sports
5.06pm	An Innovative Method of Closed Reduction and Percutaneous Pinning ( CRPP) for Complex Ankle Fractures Including Pilon Fractures
5.12pm	Impact of Dorsal Closing Wedge Calcaneal Osteotomy on Hindfoot Alignment and Biomechanics in Patients with Insertional Achilles Tendinopathy
5.18pm	Plantar approach to surgical excision of Morton's interdigital neuroma
5.24pm	<b>DISCUSSION</b>
5.29pm	Tibiototalcaneal arthrodesis: Comparison of ipsilateral distal fibular autograft as an intramedullary strut and lateral tibia plating versus intramedullary nail
5.35pm	Should we put a screw in Akin osteotomy?
5.41pm	Relationship between Radiological Parameters and Clinical Outcomes in Surgical Correction of Pes Planus
5.47pm	Bone lengthening by small fixator; an innovative technique
5.53pm	<b>DISCUSSION</b>

Javed Iqbal
Mohd Ammar Aslam
Jonas Fernandez
Kennan Zhi Guang Yeo
Javed Iqbal
Sanjay Yadav
Shuja Auddin
Yoshihiro Kotoura

Alexander Moore
Anilkumar Vidyadharan
Bedri Karaismailoglu
David Fang
Chien Hua Chen
Chun Hsien Huang
Bedri Karaismailoglu
Jabed Jahangir



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## ONCOLOGY ROOM M9

Thursday 10th April 4.00pm - 6.00pm

4.00pm	Core needle biopsy with sampling the cyst wall (curopsy): Solving the enigma of needle biopsy for cystic bone lesions.	Ameya Katariya
4.06pm	3D printed plates in Orthopaedic Oncology reconstruction: are they worth the cost and effort?	Manish Agarwal
4.12pm	Challenges of Suspending the upper limb after total scapulectomy in sarcoma patients: a durable and cheaper option	Masood Umer
4.18pm	Does the addition of fibula, Vascularized or free, improve the outcomes of intercalary reconstructions following ECRT?	Pradeesh Kiswanth Sundarapandian
4.24pm	PET-CT improves the Radiology based grading of chondrosarcomas	Manish Agarwal
4.30pm	<b>DISCUSSION</b>	
4.42pm	Fresh Parental Fibular Allograft reconstruction of skeletal defects after limb salvage surgery in young children	Masood Umer
4.48pm	En bloc excision and autogenous fibular reconstruction with wrist arthrodesis for aggressive giant cell tumor of distal radius	Mohammad Serajus Saleheen
4.54pm	Risk Factors For Local Recurrence After Extended Curettage In The Management Of Giant Cell Tumour - Has Anything Changed? - Retrospective Analysis Of 117 Cases	Raja Bhaskara Rajasekaran
5.00pm	Management of benign tumours of proximal femur: a case series	Masood Umer
5.06pm	<b>DISCUSSION</b>	
5.18pm	Making an affordable world-class Tumor Knee Prosthesis : challenges and solutions	Manish Agarwal
5.24pm	Preventive Approach of Phantom Limb Pain In Lower Limb Ablation Surgery: A Systematic Review	Rafael Marvin Yushan
5.30pm	Functional outcomes of internal hemipelvectomy in pediatric patients with malignant bone tumors: a monocentric case series	Masood Umer
5.36pm	Use of Non-Vascularized Osteo-Articular Fourth Metatarsal Graft for Reconstruction of Campanacci Grade Iii Giant Cell Tumour of Second Metacarpal Head	Rajesh Arora
5.40pm	<b>DISCUSSION</b>	

# Free Papers - Podium Presentations

## FOOT AND ANKLE ROOM M9

Friday 11th April 7.00am - 8.00am

7.00am	A comparative study of radiation exposure between C-arm fluoroscopy and portable X-ray camera	Dongjun Jeon
7.06am	Arthroscopic Microfracture for Osteochondral Lesions of the Talus: Second-Look Arthroscopic and Magnetic Resonance Analysis of Cartilage Repair Tissue Outcomes	Gun-Woo Lee
7.12am	Analysis of Factors of ankle osteoarthritis in Japan	Masataka Kakihana
7.18am	3D volumetric analysis of posterior malleolus fractures: revisiting classification systems	Joash Avneel Kumar
7.24am	Long-Term Results of Subtalar Arthroereisis for Symptomatic Flexible Flatfoot in Pediatrics	Jou Hua Wang
7.30am	Innovative Achilles recovery: elevating non-surgical treatment	Laura Clarke
7.36am	Bone grafting for periprosthetic bone cysts following total ankle arthroplasty	Gun-woo Lee
7.42am	DISCUSSION	



E-Posters can be viewed in the exhibition throughout the duration of the conference.



## PAEDIATRICS ROOM M9

Friday 11th April 8.00am - 9.00am

8.00am	Demographics of Developmental Dysplasia Hip DDH in Pakistan. An evidence based audit of Paediatric Orthopaedic Registry of Pakistan (PORP).	Anisuddin Bhatti
8.06am	Does subtalar arthroereisis augments the effect of combined hemiepiphysiodesis in juvenile hallux valgus?	Chao-Yu Hsu
8.12am	3D Gait analysis of children with treated idiopathic Congenital Talipes Equinovarus following completion of Ponseti method of treatment.	Chasanal Rathod
8.18am	Comparison of Clinical Outcomes, Parental Anxiety and Surgeon Satisfaction During Outpatient Clinic versus Operating Room Setting for Achilles Tenotomy – A Randomized Control Trial	Karthick Rangasamy
8.24am	Novel technique of plastering for radial hemimelia with ponseti like principles and its effects on subsequent surgical management	Rujuta Mehta
8.30am	DISCUSSION	
8.40am	Acute Correction with Simultaneous Hemiepiphysiodesis of Lateral Proximal Tibia Physis; an Option to Prevent Recurrence in Neglected Infantile Blount's Disease	Faisal Miraj
8.46am	Artificial intelligence in the assessment of pediatric fractures using radiological methods: a systematic review	Gregorius Thomas Prasetyo
8.52am	Arthrogram Assisted Closed Reduction of Pediatric Lateral Condyle Humerus Fractures. A Prospective Cohort Study	Karthick Rangasamy
8.58am	Evaluation of Compensatory Rotational Gait Kinematics in Children with Pathological Genu Valgum	Chasanal Rathod
9.04am	Forefoot Supinatus with Metatarsus Primus Elevatus Following Subtalar Arthroereisis for Flexible Flatfoot in Children	Kuang yu Cheng
9.10am	DISCUSSION	
9.20am	Evaluating the Efficacy of ChatGBT in Guiding Paediatric Orthopaedic Urgencies	Muharrem Inan
9.26am	Analysis of Whole Limb Alignment in Pediatric flat foot	Sung-Taek Jung
9.32am	Precision and Aesthetic Optimization in Elbow Deformity Correction: Minimally Invasive Dome Osteotomy with Joystick technique	Sungmin Kim
9.38am	An analysis of psychological morbidity in parents of children with idiopathic congenital talipes equinovarus being treated at the clubfoot clinic of KGMU	Vikas Verma
9.44am	Comparison of Short-term Outcomes of Bernese Periacetabular Osteotomy in Adolescents, Young adults and Middle-aged Adults: A Minimum Two-year Follow-up	Yu-Hung Chen
9.50am	DISCUSSION	

# Free Papers - Podium Presentations

## TRAUMA ROOM M8

Friday 11th April 7.00am - 10.00am

7.00am	Role of tranexamic acid apropos major orthopedic trauma surgery	Arun Kumar Sharma
7.06am	Development and Initial Validation of AI Generated Topological Heatmap of Femoral Outline on Fluoroscopy for Rotational Alignment during IM Nailing	Benson Chang
7.12am	Use of Staffordshire Orthopedic Reduction Machine (STORM) in reduction and stabilization of tibial fractures	Buland Thapa
7.18am	Different Types of Apple-bite fractures: A Case Series and our surgery algorithm sharing.	Chin Jung Hsu
7.24am	Comparison of the Cement Augmentation Nailing to Non-cement Augmentation Nailing in Proximal Femur fracture by Radiographic and Clinical Outcomes: one-year follow-up.	Chin Ping Lin
7.30am	Short Versus Long Proximal Femur Nail for Treatment of Intertrochanteric Femur Fractures	Devendra Acharya
7.36am	Nailing in segmental fractures of tibia shaft- Analysis of determinants of union	Divit Singh
7.42am	Arthroscopy-Assisted vs Traditional Open Reduction Internal Fixation for Shoulder Posterior Fracture-Dislocation: A Comparative Study of Clinical Outcomes	Hao Wei Chang
7.48am	Comparison of clinical efficacy between Reconstruction of the Superior Acromioclavicular Ligament with Acellular Dermal Allografts and Clavicular Hook plate in Acromioclavicular Dislocations	Hyojune Kim
7.54am	<b>DISCUSSION</b>	
8.02am	A retrospective cohort study: comparison of arthroscopy-assisted reduction and internal fixation (ARIF) versus open reduction and internal fixation (ORIF) and our surgery algorithm for glenoid fractures.	I-Hao Lin
8.08am	Management of Fracture- dislocation proximal humerus in the young patient: Lesson learned	Jabed Jahangir
8.14am	Outcome of Ilizarov External fixator for the treatment of gap non-uniting mid shaft Tibia-fibula fractures: Our experience	Mohammad Kamruzzaman
8.20am	Effects of Displaced Lesser Trochanteric Fracture on Performance and Functional Outcomes in Elderly Patients with Intertrochanteric Fractures: A Retro-Pro prospective Cohort Study	Napol Ratanasermsub
8.26am	Outcomes in Femoral Neck Fracture Patients Managed with Surgical Fixation Over 85 Years of Age	Justin Prendeville
8.32am	Neglected Trauma, Flap Coverage and Ilizarov: Limb salvage - A Revolution	Md Abdul Gani Gani Mollah
8.38am	Effecton of Digital orthopedic technology assisted MIPPO in the treatment of proximal tibiofibular fracture	Meng Li
8.44am	Pattern of Casualties Attending In The Casualty Department of Mymensingh Medical College Hospital, Mymensingh, Bangladesh	Mohammad Kamruzzaman
8.50am	<b>DISCUSSION</b>	
8.58am	Evaluation of fragility fractures of the pelvis combined with proximal femoral fractures.	Jun-ya Kondo
9,04am	Comparison Of Traction Versus No Traction In Intertrochanteric Femur Fractures Pre-Operatively In Terms Of Pain Score	Junaid Khan
9.10am	Hip Strength in Elderly Hip Fractures: Intertrochanteric Versus Femoral Neck Fracture Patients - A Retrospective Study	Napol Ratanasermsub



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## TRAUMA (continued) ROOM M8

Friday 11th April 7.00am - 10.00am

9.16am	Enhancing patient care through structured assessment of Supracondylar fractures: a quality improvement project at Holy Family Hospital, Rawalpindi Medical University	Rahman Rasool Akhtar
9.22am	Novel Combitherapy For The Management Of Soft Tissue Component In Open Injuries -The Stanley Protocol For Compound Injuries	Sathish
9.28am	Functional Outcome of Neglected Tibia Plateau Fracture Fixation: Our Experience from Tertiary Care Hospital in Low Socioeconomic Country	Syed Akmal Sultan
9.34am	Customized Method of Closed Reduction and Percutaneous Pinning for Intra-Articular Fractures Distal Radius for Early Return to Livelihood	Vidyadharan Anilkumar
9.40am	Efficacy and Safety of recombinant human Bone Morphogenetic Protein-2 (rhBMP-2) combined with Autologous Bone for the Treatment of Long Bone Nonunion: A Report of a Prospective Case Series.	Wonseok Choi
9.46am	Minimizing Missed Diagnoses of Tibial Plateau Fractures: The Role of AI in Radiographic Evaluation	Yu-Chieh Hung
9.52am	<b>DISCUSSION</b>	



# Free Papers - Podium Presentations

## SPINE ROOM M8

Friday 11th April 1.30pm - 3.30pm

1.30pm	Global reconstruction in post tubercular kyphotic deformity: An analysis of 607 cases	Shah Alam
1.36pm	Evaluation of Traversing Nerve Root Injuries During Endoscopic Transforaminal Lumbar Interbody Fusion: Observation of traversing root via an accessory portal	Chun Tseng
1.42pm	Assessing Neurological Complications in Thoracic Three-Column Osteotomy: A Clinical Application of a Novel MRI-Based Classification Approach	Chen-Wei Yeh
1.48pm	Were the post-operative Halo-femoral traction and pre-operative Halo-gravity traction effective and safe for severe kyphoscoliosis with Type 3 spinal cord shape at apex	Cheng-Hung Chiang
1.54pm	Spinal endoscopic decompression versus Interspinous process device for lumbar spinal stenosis: mid-term results of a comparison study	Chiayu Lin
<b>2.00pm</b>	<b>DISCUSSION</b>	
2.08pm	Transformative Surgical Solutions for Adolescent Idiopathic Scoliosis: Achieving Optimal Outcomes with minimal instrumentation	Shah Alam
2.14pm	Comparing outcomes of conventional vs. muscle-preserving laminoplasty for cervical myelopathy in a 5-year follow-up study	Howard, Hao-wen Hao Chen
2.20pm	Spine Virtual Fracture Clinics	Julia Liew
2.26pm	Assessing Canal Clearance by Partial Corpectomy in Case of Thoracolumbar Burst Fractures Using a Novel Ct Based Area Metho	Kamran Farooque
2.32pm	Predicting Postoperative Improvement in JOABPEQ for Lumbar Spine Surgery Using Deep Learning	Koki Hosozawa
<b>2.38pm</b>	<b>DISCUSSION</b>	
2.46pm	The Impact of MRI-Measurable Muscle Parameters on Postoperative Outcomes in Spine Surgery	Kuang-Ting Yeh
2.52pm	Objective Functional Evaluations Following Endoscopic Spine Surgery: The Prospective Use of Smart Wearable Technology	Muhammad Rifki Alfajri
2.58pm	Accuracy of thoracolumbar pedicle screw insertion with routine intraoperative navigation: A 15-year case series	Pirateb Sundaram
3.04pm	Effect Of Vitamin-D Supplementation In Adults Presenting With Chronic Lower Back Pain	Rahman Rasool Akhtar
3.10pm	360 Fusion or Posterior Only Fusion in Degenrative Spondylolisthesis: A Comparative Study	Vinit Yadav
3.16pm	New surgical strategy for adult degenerative scoliosis: treat the driver, not the major curve	Yen-Jen Chen
<b>3.22pm</b>	<b>DISCUSSION</b>	



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## HIP (continued) ROOM M9

Friday 11th April 1.30pm - 3.30pm

1.30pm	Assessment of vascularity of femoral head after different methods of fixation of intracapsular neck femur fracture by DSA	Snejuti Dipali Bera
1.36pm	The effect of implant, surgical and patient factors on the long-term wear of highly cross-linked polyethylene liners	Stuart Callary
1.42pm	Characterization of rapidly destructive coxopathy in its early stage	Tadashi Yasuda
1.48pm	Direct anterior versus anterolateral and posterolateral approaches to total hip replacement: comparative accuracy of acetabular implant placement and early clinical outcomes	Ying-Lin Chen
1.54pm	The Increasing Burden of Revision Arthroplasty on a Tertiary Referral Centre: Implications for resources, theatre and bed allocation	Bogdan Solomon
<b>2.00pm</b>	<b>DISCUSSION</b>	
2.10pm	Neurovascular Deviations and Factors in Fused Hips: Implications for Hip Arthroplasty	Kyung-Soon Park
2.16pm	Infection vs Aseptic: A Cost-Analysis of Revision THA at a Tertiary Referral Centre	Lucian Bogdan Solomon
2.22pm	Total Hip Replacement in Sickle Cell Disease Patients with Avascular Necrosis of Head of Femur: A Retrospective Observational Study	Mohammed Lafi Al-Otaibi
2.28pm	Adopting Robotic Assisted Arthroplasty – a surgeon's journey	Nick Russell
2.32pm	Open triradiate cartilage: how young is too young for periacetabular osteotomy in dysplastic hip	Xiaodong Chen
<b>2.40pm</b>	<b>DISCUSSION</b>	
2.50pm	Reliability Analysis and Mid-term Follow-up Validation of Acetabular Bone Defect Classification Based on Key Point Fixation	Zanjing Zhai
2.56pm	Learning curve and short-term clinical outcomes of Mako robotic-assisted direct anterior approach total hip arthroplasty	Qi Wang
<b>3.02pm</b>	<b>DISCUSSION</b>	

# Free Papers - Podium Presentations

## RESEARCH, REGISTRIES OR GUIDELINES ROOM M8

Friday 11th April 4.00pm - 6.00pm

4.00pm	Accuracy of Augmented Reality Head Mounted Device Assisted Pedicle Screw Placement in Lumbar Vertebrae of Goat Spine	Dhruv Maini
4.06pm	Enhancing Radiation Safety Culture: Investigating the Mediating Role of Awareness Among Orthopedic Doctors and Operation Theatre Assistants	Junaid Khan
4.12pm	Immersive Virtual Reality Simulation Training in Total Knee Arthroplasty and Transfer of Skills to Cadaver Dissection	Khairul Anwar Ayob
4.18pm	Enhanced Chemotaxis, Phagocytic and Osteoclast Precursor Characteristics of CD14++CD16- Monocytes in Response to Human Arthroplasty Revision Tissue: In vitro and In vivo Study	Krishnamurithy Genasan
4.24pm	<b>DISCUSSION</b>	
4.34pm	Adherence to clinical care standards is associated with reduced mortality following hip fracture	Lara A Harvey
4.40pm	Extended Reality in Orthopedic Surgery: Where Are We Now? – A Systematic Review and Meta-Analysis of Randomized Controlled Trial	Leonard Christianto Singjie
4.46pm	Factors associated with poorer outcomes after hip fracture in patients with cognitive impairment	Morag E Taylor
4.52pm	A Novel Tilted-Plane Ergometer for Target-Specific Rehabilitation: Modifying Muscle Recruitment and Joint Dynamics	Seonghyun Kang
4.58pm	Epidural PRP Injection: An Alternative Treatment of Spinal Pain	Shahidul Islam
5.04pm	<b>DISCUSSION</b>	
5.14pm	Effect of COVID 19 pandemic induced lockdown on the epidemiology of paediatric orthopaedic trauma patients admitted to the trauma centre of KGMU	Vikas Verma
5.20pm	Development of novel local drug delivery system for prevention and treatment of osteomyelitis	Wei-Hsun Wang
5.26pm	Development and Validation of a Deep-Learning Model to Predict Total Hip Replacement on Radiographs	Yi Xu
5.32pm	Intra-articular injection of platelet-rich plasma attenuated anterior cruciate ligament transection-induced experimental osteoarthritis and nociception in rats	Yi-Chi Jean
5.38pm	<b>DISCUSSION</b>	



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## FOOT AND ANKLE (continued) ROOM M9

Friday 11th April 4.00pm - 6.00pm

4.00pm	Fourth-generation bunionectomy learning effect	Meghan Dares
4.06pm	Radiological and functional outcome of talus fracture in local population: Our experience in govt tertiary care trauma center	Vickash Kumar
4.12pm	Use of Strut Allografts in Distal Tibial Oblique Osteotomy for Varus Ankle Osteoarthritis	Meng-Chun Tsai
4.18pm	Ilizarov Method in the Management of Peripheral Vascular Disease (PVD), Raynaud's Phenomenon and Diabetic foot ulcer: Exploring a Novel Approach for Treatment	Mofakhkharul Bari
4.24pm	Ankle fractures with Chaput fragment: A new classification system with insights into morphology, classification and Surgical management	Sandeep Patel
4.30pm	<b>DISCUSSION</b>	
4.40pm	Ilizarov in Charcot Arthropathy and Management of Diabetic Foot Ulcer (DFU) using Tibial Transverse Technique (TTT), Bangladesh Experience	Mofakhkharul Bari
4.46pm	Integrative multi-disciplinary model of care: a patient satisfaction perspective	Meghan Dares
4.52pm	Talar neck malunions – evaluation of kinematics, pedobarographic changes and patient reported outcome measures	Siddhartha Sharma
4.58pm	Clinical Outcomes of the Zadek Calcaneal Osteotomy for Insertional Achilles Tendinopathy in a Resource-Constrained Setting: A Case Series	Rizwan Haroon Rashid
5.04pm	Ankle Fusion Using the Ilizarov Method	Mofakhkharul Bari
5.10pm	<b>DISCUSSION</b>	
5.20pm	Clinical and radiological outcomes of Modified Mitchell osteotomy using three-point fixation and Akin osteotomy for Hallux Valgus	Sheng Pin Lo
5.26pm	Functional Outcome of Heel Pad Degloving Injuries	Rajesh Arora
5.32pm	What Do We Know About the Pathoanatomy of Talar Neck Malunions? Results From a 3D Morphometric Analysis	Siddhartha Sharma
5.38pm	Which surgical technique is more suitable for spear plate to correct hallux valgus ? comparative study between metatarsal shaft and distal metatarsal osteotomy.	Tzu Cheng Yang
5.44pm	Arthroscopic Approach for Talocalcaneal Coalitions with Meniscus Allograft Interpositional Arthroplasty: Case Series and Clinical Outcomes	Yu-Wen Huang
5.50pm	<b>DISCUSSION</b>	



# Free Papers - Short Oral Presentations

## THURSDAY 10TH APRIL 12.30 - 1.30PM EXHIBITION AREA

12.32pm	Evaluation of Management of Traumatic Subtrochanteric Femoral Fracture by Long Proximal Femoral Nail	A S M Nurul Alam Siddique
12.34pm	Cross sectional study to assess knee deformities in pediatric outpatients and its correlation with nutritional status and regulators of bone metabolism	Akash Ramshankar Vishwakarma
12.36pm	Tibial tubercle osteotomy for the exposure of complex primary and revision TKR- our 21 years of experience	Ameya Ajit Katariya
12.38pm	Outcome Of Hip Abduction Bracing (HAB) and Closed Reduction Casting In Developmental Dysplastic Hips (DDH). A Comparative Early And Long Term Follow-up Outcome	Anisuddin Bhatti
12.40pm	Femur Nailing Post-Fat Embolism Syndrome: Advancing Femur Fracture Management in Polytrauma Cases	Apoorva Praveen Kabra
12.42pm	Three in one procedure for habitual dislocation of patella	arun kumar sharma
12.44pm	Research on Determining Bony Landmarks for Accurate Tibiofibular Syndesmotic Fixation: Cadaveric Validity and Safety Analysis of Angle Bisector Method	Bedri Karaismailoglu
12.46pm	Functional Outcome of Acetabular Fracture Using Majeed Score: A Single-center Retrospective Study	Bintang Soetjahjo
12.48pm	Acetabular fracture and central hip dislocation in osteogenesis imperfecta child treated surgically with bone grafts augmented by recombinant human bone morphogenetic protein-2: A rare case report	Bintang Soetjahjo
12.50pm	Prediction of Joint Moments from Kinematics Using Machine Learning in Children with Congenital Talipes Equino Varus and Typically Developing Peers	Chasanal Rathod
12.52pm	Assessing the Necessity of Treating Distal Radius Fractures in Extremely Old Patients with Concurrent Ulnar Styloid Fractures	Chen Lin-Mu
12.54pm	Novel Stabilized Method with Absorbable Suture Loop and Knotless Suture Anchor in Augmentation of Medial and Lateral Collateral Ligament Helps Accelerate Early Rehabilitation in Acute Unstable Posterior Elbow Dislocation	Chien Ming Chen
12.56pm	A Computer-Assisted Diagnostic Method for Classification of Iliac Wing Fractures	Chun-Hao Tsai
12.58pm	Radiologic and clinical outcome comparison between expandable and static cages in open TLIF surgery: Two years retrospective cohort study	Chun-Yi Li
1.00pm	Thickness of simple calcaneal tuberosity avulsion fractures influences the optimal fixation method employed	Chunliang Wang
1.02pm	The Association Between Upper Extremity Fragility Fractures and Lower Extremity Fractures in Elderly Patients: A Retrospective Analysis	Derya Akbaba
1.04pm	Finger-pointing to the wrong conclusion? Pilot study into the validity of common method of assessing for integrity of Flexor Digitorum Superficialis by blocking Flexor Digitorum Profundus function	Dr Shyan Goh
1.06pm	Concurrent Pes Anserine Bursitis in patients referred for symptomatic knee osteoarthritis and its implications for Australian Commission on Safety And Quality In Health Care Osteoarthritis of the Knee Clinical Care Standard	Dr Shyan Goh



## THURSDAY 10TH APRIL 3.30 - 4.00PM EXHIBITION AREA

3.32pm	Improvements in RA peri-fracture care have offset increased mortality	Owen Taylor-Williams
3.34pm	Management Outcome of Knee Septic Arthritis in Neonates and Infants : A Systematic Review	Paramita Ayu Saraswati
3.36pm	Transforaminal Epidural Steroid Injection in the Treatment of Pain in Foraminal and Extraforaminal Lumbar Disc Herniations	Petrea Iftimie Iftimie
3.38pm	Nailing in segmental fractures of femur shaft- Analysis of determinants of union	Prasiddh Hegde
3.40pm	Comparison of Epidural Analgesia vs Intraoperative Peri-Articular Injection for Pain Management Following Total Knee Arthroplasty	Rahman Rasool Akhtar
3.42pm	Effect of Pre-Operative Serum Vitamin-D Levels on Post-Operative Outcome in Total Knee Arthroplasty	Rahman Rasool Akhtar
3.44pm	Use of tibialization of fibula and contralateral non-vascularized fibula for reconstruction of malignant/benign aggressive tumours of distal-mid tibia	Rajesh Arora
3.46pm	Age-wise comparative analysis of patients undergoing total knee arthroplasty: A multicenter indigenous experience	Ravi Teja Rudraraju
3.48pm	Effect of intravenous dexamethasone as an adjuvant to Bupivacaine in USG guided Supraclavicular Brachial Plexus Block for postoperative analgesia after upper limb surgery	Reetu Verma
3.50pm	Role of percutaneous plantar fascia release in Ponseti serial casting of delayed presented clubfoot	Salik Kashif
3.52pm	Flat Foot and Knee Pain, Is it often Overlooked? A Scoping Review	Samuel Andi Kusuma
3.54pm	Prospective Randomized Study To Evaluate The Therapeutic Effect Of High Volume V/S Low Volume Caudal Epidural Injections In Lumbar PIVD	Sanjiv Kumar
3.56pm	A Radiological Effectiveness of Fixed-Angle C-arm Tomosynthesis Image to Ensure Proper Screw Position at Scaphoid Fracture Models	SeongJu Choi
3.58pm	Treatment of Avascular Necrosis of Femoral Head with Preserving Natural Joint by Laser Augmented PRP	Shahidul Islam

# Free Papers - Short Oral Presentations

## FRIDAY 11TH APRIL 12.30 - 1.30PM EXHIBITION AREA

12.32pm	Conversion of the Sagittal Functional Safe Zone to the Coronal Plane Using a Mathematical Algorithm The Reason for Failure of the Lewinnek Safe Zone	Hao Tang
12.34pm	Residual Deformity and Outcome in Non-Surgically Treated Tibial Shaft Fractures in Adolescents	Josiah Paolo Montales Mutia
12.36pm	Novel Patient Specific Coronoid Reconstruction using 3D-Metal Printing for Comminuted Coronoid Process Fracture: A Prospective Cadaveric Study with Clinical Applications	Myung-Sun Kim
12.38pm	Comparison of Short and Long Proximal Femoral Nail in the Management of Intertrochanteric Femur Fractures in Terms of Mean Operative Time and Per-operative Blood Loss	Junaid Khan
12.40pm	Short-term outcomes of meniscus repair are not clinically worse than arthroscopic partial meniscectomy: A retrospective cohort study of 219 patients.	Kamaraj Thirukumaran
12.42pm	Disparity in clinical and radiological responses to denosumab in Giant cell tumor: A Comparative analysis	Lalit Maini
12.44pm	How useful is Navigation with automatic registration using a 3D C-arm?	Manish Agarwal
12.46pm	Coverage of fingertip amputation in lesser digits with volar advancement flap	Marvin Man Ting Chung
12.48pm	Clinico radiological outcome of Postero-medial fixation in Tibial Plateau Fractures	Mayank Mahendra
12.50pm	Comparative Outcomes of MIS TLIF and MIDLIF in the Treatment of Spondylolisthesis: A Retrospective Study	Ming-Hsien Hu
12.52pm	Treatment of the deformities due to metabolic disease	Mofakhhkharul Bari
12.54pm	Western-designed total knee implants mismatch Saudi patient knees	Mohammed Lafi Al-Otaibi
12.56pm	Diagnostic Accuracy of Lever Sign Test in Acute and Chronic ACL Injuries	mohd ammar aslam
12.58pm	Outcome of Fixation of Posterior Column of Acetabulum Through Stoppa Approach with Newer Technique: A Retrospective Study	Dharmendra Kumar
1.00pm	Risk factors for the severity of heterotopic ossification in patients with cerebral palsy	Muharrem Inan
1.02pm	Early Result of arthroscopic lateral collateral ligament imbrication in atraumatic posterolateral rotatory instability	Nattakorn Mahasupachai
1.04pm	Efficacy of Topical Tranexamic acid in Total Knee Arthroplasty- a prospective study	Nitish Khosla



## FRIDAY 11TH APRIL 3.30 - 4.00PM EXHIBITION AREA

3.32pm	Additional cement augmentation reduces cage subsidence and improves clinical outcomes in oblique lumbar interbody fusion combined with anterolateral screw fixation: A retrospective cohort study	Shih-Feng Hung
3.34pm	Modified IJS elbow for acute & chronic elbow dislocation in developing countries	Shuja Uddin
3.36pm	Migration patterns of acetabular cups: a systematic review and meta-analysis of RSA studies	Stuart Callary
3.38pm	Comparative Analysis of Lower-Limb Open Fractures: Impact of Arterial Injury on Clinical Outcomes - A Retrospective Cohort Study	Syed Akmal Sultan
3.40pm	Evaluation of Acetabular Fracture Fixation: Clinical and Functional Outcomes Assessed with the Modified Harris Hip Score - Insights from a Single Trauma Center Experience	Syed Akmal Sultan
3.42pm	Peroneal Nerve Injury Followed by Proximal Fibular Osteotomy: The Impact of Osteotomy Level	Tim Chang
3.44pm	The Outcomes of the Ilizarov Technique as a Limb Salvage Procedure for Critical Bone Defects In Neglected or Open Lower Extremity Fractures: Experience from a Tertiary Care Trauma Centre	Vickash Kumar
3.46pm	An analysis of factors associated with the carrying angle of human elbow in paediatric age group	Vikas Verma
3.48pm	An Innovative Method of CRPP for the Treatment of Type III & IV Supracondylar Fractures Humerus in Children Without Fear of Conventional Complications	Visyadharan Anulkumar
3.50pm	A Novel method of Closed Reduction Percutaneous Pinning for Bicondylar Tibial Plateau Fractures with impending soft tissue complication	Visyadharan Anulkumar
3.52pm	Decrease the complication with Modified Pavlik Harness brace in treating DDH	Wei-Hsun Wang
3.54pm	Short-term outcomes of distal metatarsal osteotomy for mild to moderate and severe hallux valgus.	Yuzuru Sakakibara
3.56pm	Quality of Life in Patients with Failed Back Syndrome after Surgery for Lumbar Spinal Stenosis: A Single Center Retrospective Study	Zairin Noor

# E-Posters

## FOOT AND ANKLE

Complex Total Ankle Replacement in Ankle Osteoarthritis, its Challenges and how to Rectify.

Effects and Safety of Intra-Articular Sodium Hyaluronate Injection for the Treatment of Ankle Osteoarthritis

Treatment of Soft Tissue Defects after Minimally Invasive Plate Osteosynthesis in Fractures of the Distal Tibia: Clinical Results after Reverse Sural Artery Flap

A Novel Treatment of Adult Hallux Rigidus with Hyaluronic Acid Scaffold Interposition with Platelet-Rich Plasma Injection, Post-Cheilectomy, First Metatarsophalangeal Joint: A Case Report

Clinical Diagnosis And Incidence Of Hypermobility Of First Ray In Patients With Hallux Valgus Versus No Hallux Valgus, Using A Novel Clinical Sign

Biomechanical Comparisons of Different Modes of Intramedullary Screws Fixation for Jones Fractures

Radiographic Transverse Tarsometatarsal Instability of Metatarsus Adductus in Hallux Valgus

Impact of Implementing an Orthopaedic Stream in a Metropolitan Tertiary High-Risk Foot Service

Dhivakaran Gengatharan

Gun-Woo Lee

Hyojun Lee

Nathania Mercado  
Pineda-Obias

Seng Juong Wong

Shun-Ping Wang

Shun-Ping Wang

Ton Tran

## HAND AND UPPER LIMB

Effectiveness of Different Classification Systems in Surgical Planning and Decision-Making for Distal Radius Fractures: A Retrospective Analysis

A Machine Learning-Based Approach for Predicting Clinical Improvement after Surgical Treatment of Idiopathic Cubital Tunnel Syndrome

Clinical and Radiographic Results of Locking Plate with Medial Support Screw in Proximal Humerus Fracture – The more, the better?

Prevalence and Characteristics by Age and Sex in Pediatric Trigger Digits: South Korea Nationwide Analysis Using Korea Health Insurance Dataset

Uncommon Failure Mode of Well Repaired Rotator Cuff Tear: Finding at Revision Surgery

Surgical Treatment and Short-term Outcome for a Refractory Case of Medial Clavicle Osteitis Condensans: A Case Report

Ilizarov Frame in Forearm

Detection of Little Leaguer's Elbow by Ultrasonography with Deep Learning

Regenerative Medicine for Regaining Function: Comparing HA and PRP Injections in Managing Periarthritis Shoulder

Comparison of Outcomes Between Primary Total Elbow Arthroplasty and Plate Osteosynthesis in Distal Humerus Fractures with Concomitant Osteoporosis

Outcome Of The Scaphoid Non Union Using Open Reduction Internal Fixation With Iliac Crest Bone Graft (Fisk-Fernandez Technique)

Analysis of Shoulder Pain Based on Above-Elbow Splint Versus Below-Elbow Splint After Distal Radius Fracture Surgery

Impingement of Torn TFCC in the Sagittal Plane and its Relation with DRUJ Instability

The Differences of the Shoulder Injuries Between Right- and Left-Handed Young Baseball Players

Derya Akbaba

Jun-Hyuk Lim

Myung-Sun Kim

Jun-Ku Lee

Junkyung Hwang

Liandro Reuben Junio  
Dolojan

Mofakhkharul Bari

Ryota Kojima

Sumit Banerjee

Myung-Sun Kim

Swagat Mahapatra

Uk Hur

Uk Hur

Yoshihiro Kotoura



## HIP

Total Hip Arthroplasty Combined With Subtrochanteric Shortening Osteotomy for Dislocated Hip - Comparison with Outcomes Between Cementless Stem and Cemented Stem

Total Hip Arthroplasty for Acute Acetabular Fractures Through the 'Replace in Situ' Philosophy: Radiographic Assessment of Cup Stability

Variations in Surgical Technique-Related Cost Amongst Hip Arthroplasty Surgeons Using Direct Anterior Approach in Victoria and Tasmania and its Financial Implications.

Prior Lumbar Fusion with Intervertebral Vacuum Phenomenon Can Increase Dislocation Risk in Primary THR

Satomi Abe

Stuart Callary

Ton Tran

Yu-tsung Lin

## INFECTION

Co-relation Between 18F-FDG Labeled Leucocyte (WBC) PET/CT & Intra-Operative Findings in Osteoarticular Infections (OAI): Early Impressions

Limb Salvage Surgery with ILLIZAROVE In Trauma and Infection

Effectiveness of Antibiotic Coated Nail and Beads in Infection Eradication in Chronic Osteomyelitis and Infected Non Union of Long Bones

The Challenges Involved in Managing Infected Non-Union of the Tibia: A Series of 12 Patients

Outcomes of Traumatic Lower Limb Amputations After Primary and Delayed Primary Stump Closure

Ameya Ajit Katariya

Muhammad Shoaib Khan

Muhammad Shoaib Khan

Uttam Chand Saini

Uttam Chand Saini

## KNEE

Anterior Cruciate Ligament reconstruction: Quadriceps tendon graft compared with Semitendinosus tendon graft: A Retrospective Study

Patellar Tendon Reconstruction by Modified Lotke Procedure - Surgical Technique and Case Report

Effect Of Pre-Operative Serum Vitamin-D Levels On Post Operative Outcome In Total Knee Arthroplasty

Comparison Between Single-Stage Bilateral and Unilateral Medial Unicompartmental Knee Arthroplasty With Respect to Complications, Clinical Outcomes, and Costs

Devised a UKA Surgical Technique Using the One-Peg Method that Allows Readjustment of the Flexion Gap After the Final Trial.

Kinematic and Kinetic Differences in Paediatric and Adolescent Recurrent Patellofemoral Dislocators Using a Subject-Specific Gait Analysis Model

The Validity and Accuracy of 3D-printed Patient-Specific Instruments for High Tibial Osteotomy

Decoding Patellofemoral Pain: An Analysis of the Lower-Limb Biomechanics

Non-Invasive Method of Removing Tethered Surgical Drains Using Kirschner Wire with Ultrasound Guidance: An In-Vitro Experimental Study

Complex Tibial Plateau Malunion: Arthroscopy-Assisted Combined with 3D-PSI Surgery: From Laboratory to Clinical Application

Ashish Kumar

Dibakar Sarkar

Junaid Khan

Kaochang Tu

Ko Suzuki

Angel Aulakh

Peilai Liu

Sumit Banerjee

Vanea Bernardo  
Uyvico-Lim

Yi-Sheng Chan

E-Posters will be viewable in the exhibition area during the conference



# E-Posters

## ONCOLOGY

Atypical Pediatric Aneurysmal Bone Cyst	Dhruv Maini
Bony Swelling in Medial End of Clavicle in an Adolescent Male	Dhruv Maini
Giant Cell Tumour Of Patella: A Diagnostic Dilemma	Dhruv Maini
Patient Specific Distal Tibia Prosthesis for Reconstruction in a Case of Recurrent Giant Cell Tumor	Lalit Maini
Resection and Re-implantation of Liquid Nitrogen Treated Bone in Diaphyseal Tibial Giant Cell Tumor	Lalit Maini
Limb Salvage of Pediatric Bone Sarcoma	Mohammad Serajus Saleheen
Chondroblastoma Causing Expansile Lytic Lesion In Middle Phalanx: A Rare Presentation With Good Clinical Results	Rajesh Arora
Use of Multiple Ray Resection for Hand Salvage in Secondary Chondrosarcoma of Metacarpal in HME	Rajesh Arora
Langerhans Cell Histiocytosis in Lumber Spine - A Rare Case Report	Shahidul Islam
Aggressive Aneurysmal Bone Cyst of Transverse process and Body of Lumbar Spine	Vineet Kumar
Osteochonroma of Proximal Fibula as a Cause for Proximal Tibio-Fibular Synostosis: A Case Report	Vineet Kumar

## OSTEOPOROSIS, FRAGILITY, FRAILTY

A case of osteopolikilosis discovered following hip pain.	Katsuhisa Ishii
Tumor Induced Osteomalacia : Challenges in Diagnosis & Management	Pulak Sharma
Reliability Of Singh's Index As A Screening Tool Of Osteoporosis In Current Times	Rajesh Arora

## PAEDIATRICS

outcome of Mlni open Innominate Osteotomy In the cases of Exstrophy Bladder	Anurag Baghel
Bow Legs & Blount's Disease - Mind-boggling Deformities and How to Tackle Them	Mofakhkharul Bari
Bone and Joint Involvement in Beta Thalassemic Patients: A Cross Sectional Study	Nitish Khosla

## RESEARCH, REGISTRIES OR GUIDELINES

Recombinant Human Bone Morphogenetic Protein-2 Derived From Genetically-Modified Adipose-Derived Mesenchymal Stem Cells as a Novel Treatment Modality for Critical-Sized Bone Defects: A Preclinical Study in Sprague-Dawley Rats	Anissa Feby Canintika
Deep Learning Model to Predict Bone Penetration from Force Sensing	Hirotsu Imai
Impact Of COVID Pandemic On The Mental Well-Being Of Orthopaedic Patients: A Single-Centre Study	Junaid Khan
Unveiling the Health Nexus: Exploring Factors Influencing Future Health Risks Among Orthopedic Surgeons	Paramita Ayu Saraswati
Outcome of Formative OSCE with Immediate Feedback on the Performance of Surgical Clerks in the Clerkship Exam	Rahman Rasool Akhtar
Association of Neutrophil-to-Lymphocyte Ratio with Knee Osteoarthritis: a Meta-Analysis	Tzu-I Yang
Development of Novel Local Drug Delivery System for Prevention and Treatment of Osteomyelitis	Wei-Hsun Wang
Integrating Artificial Intelligence and Wearable IoT System in Long-Term Care Environments	Wei-Hsun Wang
Betulin Accelerated the Functional Recovery of Injured Muscle in a Mouse Model of Muscle Contusion	Yueh-Hsiu Lu



## SPINE

Surgical Outcomes in Oblique Lumbar Interbody Fusion in Patients Aged Over 75 years old: Comparison with Patients Aged 65-74 Years Old and Under 65 Years Old	Cheng-Hung Lee
Robotic-Assisted Minimally Invasive Lumbopelvic Fixation for High-Energy Traumatic Sacral Fractures	Cheng-Min Shih
Establishment of the Minimal Clinically Important Difference for the Scoliosis Research Society-22r Questionnaire in Japanese Adolescent Idiopathic Scoliosis Patients: A Study Using the Coplanar Surgical Method	Junya Katayanagi
FRAX Without BMD Predicts Postoperative Proximal Junctional Kyphosis and Vertebral Fracture in Adult Spinal Deformity Surgery	Junya Katayanagi
Correlations Between Cervical Spine Sagittal Alignment and Spinopelvic Parameters: Implications for Musculoskeletal Health in Independent Elderly Women	Kuang-Ting Yeh
Comparative Study Between the Results of Micro-Lumbar Discectomy and Open Discectomy	Md. Anowarul Islam
Outcome of Single Stage Vertebral Column Resection (VCR) and Reconstruction for Three Column Correction in Kypho-Scoliotic Deformity	Md. Anowarul Islam
Multifactorial Genetic Analysis as A Prospective Predictor of Adolescent Idiopathic Scoliosis Development: Ladybird Homeobox 1 (LBX1) And Estrogen Receptor (ESR) mRNA Expression	Muhammad Rifki Alfajri
Deformity Angular Ratio and its Correlation with Complications Rate	Muhammad Hanif Mian
Caudal Epidural Injections Can Avoid Surgical Intervention in Patients with Chronic Sciatica	Petrea Iftimie Iftimie
The Potency of Platelet-Rich Plasma for Chronic Low Back Pain: A Systematic Review and Meta-analysis of Randomized Controlled Trial	Samuel Andi Kusuma
Diagnostic Dilemma between Telangiectatic Osteosarcoma (TOS) & Aneurysmal Bone Cyst	Shahidul Islam
A Comparison Between Deep Learning-Based Artificial Intelligence and Human Doctors for Detection and Analysis of Vertebral Fracture	Sung-Kyu Kim
The Treatment Outcome and Strategy for Acute Postoperative Infection After Anterior Cervical Spine Surgery	Sung-Kyu Kim
Prevalence and Severity of Restless Leg Syndrome in Patients With Spinal Cord Injuries	Syed Faraz Ul Hassan Shah Gillani
Pilot Comparative Trial of Enriched Peripheral Blood Mononuclear Cells in Treating Degenerative Disc Disease	Yuhuan Chung
The Combination of Platelet-Rich Plasma and Cotton-Like $\beta$ -Tricalcium Phosphate/Poly(lactic-Co-Glycolic Acid) Fibers Promote Bone Repair in Osteoporotic Vertebral Defects in Rat Models via Macrophages.	Yuichi Shimizu

## SPORTS

Comparative Study on the Functional Outcomes of Adults who Underwent Arthroscopic Anterior Cruciate Ligament Reconstruction with Bone-Patellar Tendon-Bone and Hamstring Tendon Autografts	Ernesto Carlo Buensuceso Arada
Meniscus Injury Requiring Surgery During ACL Reconstruction Has Worse Pre- and Post-Operative Outcomes	Kamaraj Thirukumaran
Concomitant Meniscus Injury Has Higher Likelihood Of Achieving Minimal Clinically Important Difference After Anterior Cruciate Ligament Reconstruction Compared to Isolated ACL Injury	Kennan Yeo
Effects of Placing Anterior Cruciate Ligament Grafts in Vancomycin Powder Reduces Infection Rate	Muhammad Amir Sohail
Extra-articular Endoscopic Dorsal Wrist Ganglion Excision: A New Approach and Preliminary Results	Yang-Yi Wang

# E-Posters

## TRAUMA

Outcome of Sexual Dysfunction in the Cases of Fracture Sacrum Treated with Conservative and Operatively: A Retrospective Study

Anurag Baghel

A Case Report of Lower Limb Replantation and Reconstruction Using Ilizarov Method

Atsushi Sugita

Outcome of Complex Tibial Plateau Fractures with Ilizarov

Md Abdul Gani Gani

Mollah

Clinical Validation of Enhanced CT Imaging for Distal Radius Fractures Through Conditional Generative Adversarial Networks (cGAN)

Hyojune Kim

Influential Factors for Elbow Stiffness after Displaced Radial Head

Jiho Lee

Analysis of Fracture Morphology of the Isolated Greater Tuberosity Fracture Associated with Shoulder Instability

Jiho Lee

Surgical Fixation of Hip Fractures – A Novel Technique For Pre-Operative Planning

Kamaraj Thirukumaran

Biomechanical Effect of the Design Parameters of the Screw Hole on Polyaxial Locking Strength at Different Screw Angulations

Kun-Jhih Lin

Evaluation of Fixation for Distal Humeral Diaphyseal Fracture by Locking Compression Plate

Mohammad

Kamruzzaman

Evolution of a Trauma Orthopedic department in a Multilevel Trauma Centre: A 5-Year Experience of Progress, Burden and Challenges in a Budget-Constrained Healthcare System

Syed Akmal Sultan

Cotton-Shaped Artificial Bone Grafting Combined with TFNA Cement Augmentation System in the Revision Surgery of Proximal Femur

Takahiro Toriyama

Treatment of the Distal Forearm Fracture by Volar Dual Window Approach

WeiTing Wang

Efficacy of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) as a Bone Graft Material in Tibial Nonunion Patients

Wonseok Choi



**E-Posters can be viewed in the exhibition throughout the duration of the conference.**