

Artificial Intelligence, Robotics and Mixed Reality









Dear Friends,

It is my great pleasure to invite you to the 24th Congress of the Asia Pacific Orthopaedic Association in Cairns, Australia from April 9-12, 2025.

APOA 2025 will be held at the newly renovated, awardwinning Cairns Convention Centre, just a ten-minute drive from the international airport. Known for its distinctive environmental design, the Centre is nestled between the breathtaking Great Barrier Reef and ancient tropical rainforests.

The APOA 2025 program has attracted global leaders to participate and exchange expertise and to launch brilliant new ideas together. The scientific program will focus on symposia and instructional lectures given by distinguished speakers from across the world.

This meeting is designed for you to interact with the experts from all over the globe to share and enhance knowledge, and for interaction among peers. Apart from the invigorating scientific program, this meeting will also offer its attendees an unforgettable cultural and travelling experience.

The region of Cairns is home to the iconic Great Barrier Reef and Wet Tropics World Heritage Rainforest, but the city of Cairns itself is also a must-visit. You'll find brilliant cafés, bustling markets and plenty of beaches nearby. Relax by a resort pool; spend your days exploring this tropical oasis, or enjoy an extraordinary diving experience.

I would like to extend my sincere invitation to you all to join me in Cairns. I am sure that this scientific extravaganza will advance orthopaedic knowledge and forge new friendships.

I look forward to meeting you 'down under' in April 2025.

G'Day mate **Jamal Ashraf President - APOA**









Dear Colleagues

The Program is Ready - Time to Register! Get ready for an extraordinary journey!

On behalf of the APOA, I am thrilled to announce that the 24th APOA Congress is now open for registration. Join us from April 9th to 12th, 2025, in the vibrant city of Cairns, the gateway to Queensland's tropical paradise. The conference will take place at the iconic, newly renovated, and award-winning Cairns Convention Centre!

This 4-day event promises an exhilarating program featuring interactive case discussions, instructional lectures, and the latest insights into cutting-edge topics. With sessions led by some of the world's top orthopaedic surgeons, you'll gain invaluable knowledge and explore transformative advancements in artificial intelligence, robotics, and mixed reality-technologies shaping the future of healthcare today.

And there's more! Cairns offers much more than a world-class conference experience. Situated between the stunning Great Barrier Reef and ancient tropical rainforests, it's a hub for natural wonders and cultural discovery. Explore the majestic reef, the Atherton Tablelands, Cape Tribulation, and the Daintree Rainforest. Dive into the rich traditions of the Aboriginal and Torres Strait Islander peoples for an enriching cultural experience.

Don't miss this unique opportunity to expand your professional horizons while immersing yourself in one of the most spectacular locations on Earth. Whether you come solo or bring your family, Cairns promises a memorable blend of scientific innovation and adventure.

Register now and secure your spot for an unforgettable experience! See you in Cairns, where science meets wonder!

Marinis Pirpiris APOA Congress President



Artificial Intelligence Robotics and Mixed Reality







On behalf of the Scientific Committee, I extend a warm welcome to the 24th Congress of the Asia Pacific Orthopaedic Association (APOA), taking place in the vibrant city of Cairns, Australia, from April 9th to 12th, 2025. This gathering marks a significant milestone for our esteemed organization, a testament to the unwavering dedication of orthopaedic surgeons across the Asia Pacific region to advancing the science and art of our field.

Founded in 1962, APOA has evolved into a dynamic and influential force in global orthopaedics, uniting over 70,000 members across 40 countries. Now emerging as one of the largest orthropaedic associations worldwide, our mission is to advance the science and practice of orthopaedic surgery by fostering education and research, promoting professional development, and disseminating cuttingedge knowledge through lectures, workshops, and interactive sessions. Furthermore, we are dedicated to building a strong and collaborative community by fostering open dialogue and collaboration among surgeons, encouraging knowledge sharing, and cultivating a supportive and inclusive environment for professional growth.



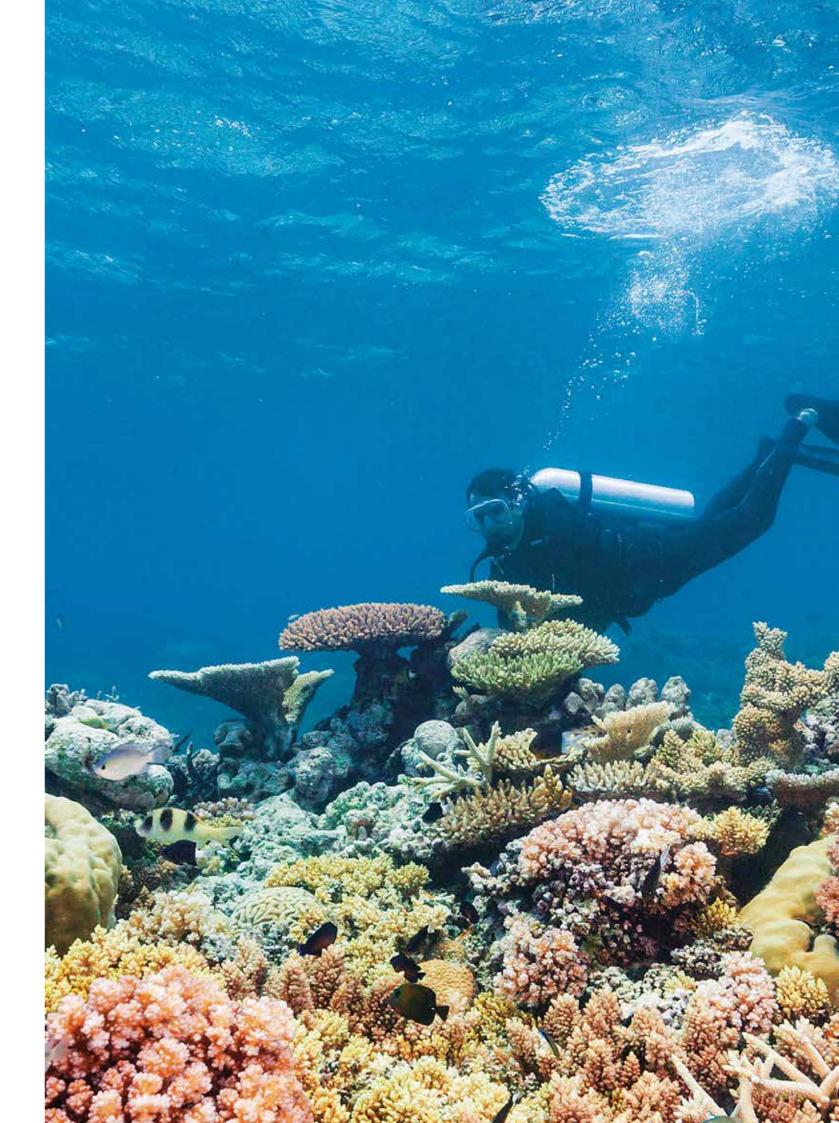
Covering a diverse range of topics encompassing the entire science of

orthopaedic surgery, with a focus on Artificial Intelligence, Robotics, and Mixed Reality, The APOA Cairns 2025 Congress is not to be missed. The Scientific Committee has meticulously curated a program featuring unique and exciting topics within the different sub-specialities. This program will feature world-renowned experts, including Fares Haddad, Florian Gebhard, Mohit Bhandari, Sanjiv Marya, S. Rajasekaran, and Vikas Khanduja, who will share their insights, ensuring all delegates gain the most relevant information on the global orthopaedic stage.

Beyond the enriching scientific program, Cairns itself offers a captivating blend of natural beauty and cultural experiences. Located in the beautifully renovated Cairns Convention Centre, strategically situated on the Marina, attendees can explore the wonders of the Great Barrier Reef, a UNESCO World Heritage Site, delve into the rich cultural heritage of the Aboriginal and Torres Strait Islander peoples, and enjoy the vibrant city life and warm hospitality of Australia.

We invite you to join us in Cairns for an unforgettable experience. Let us come together to learn, collaborate, and celebrate the remarkable achievements of orthopaedic surgery in the Asia Pacific region.

Nicolaas Budhiparama Scientific Chair

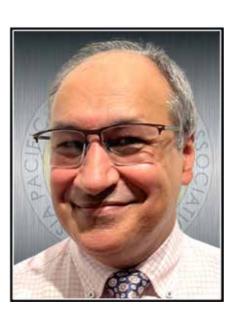




Dear Friends,

It is with great pride and joy that APOA invites you to join its Annual Congress 9-12 April 2025 at Cairns, Australia.

Constructing a Scientific Program for a region as diverse as the Asia Pacific was never going to be easy. Without enthusiasm, innovation and lateral thinking it would be impossible. Fortunately, all these ingredients were present and came together in the right proportions to develop a program for the APOA, Cairns Congress 25. This was made possible with indispensable contributions from the Section heads and members, Reviewers, local, regional and international contributors, faculty and presenters and the Scientific Committee all of whom we welcome and sincerely thank for their efforts. The meeting with its Plenary lectures by world renowned speakers, interactive sessions, case discussions and symposia will no doubt be stimulating, thought provoking, educational and practical. The cutting edge program put together has a varied content which will appeal to one and all.



The Asia Pacific region provides us with diversity in pathology allowing us to be unique and creative in our own milieu. This is the opportunity for us to learn from one another and enhance our knowledge and surgical repertoire.

Pre Congress Workshops, assembled by the Foot and Ankle, Knee and Trauma Sections, promise to deliver Instructional lectures, Surgical techniques and hands on demonstrations which are all unmissable.

APOA strongly believes in nurturing emerging surgeons, accepts and embraces diversity and collaboration - all of which are exemplified in the Young Surgeons forum, Waves and Guest Society sessions.

Use this opportunity to explore Cairns and its surrounds which has two World Heritage sites Great Barrier Reef and the Daintree Tropical Rainforest.

So please register and head down under for what is going to be truly enriching and rewarding experience.

Arvind Puri Scientific Secretary

Wednesday 9 April 2025

Pre-Congress Workshops Foot and Ankle Knee Trauma

Opening Ceremony Keynote Plenary

Thursday

10 April 2025

Concurrent **Scientific Sessions**

APOA YSF Arthroplasty Foot and Ankle Hip How to Publish your work Knee Osteoporosis **Paediatrics** Research Spine Trauma Waves

Free Papers





Friday **11 April 2025**

Keynote Plenary

Concurrent Scientific Sessions

- AO Trauma Foot & Ankle **General Orthopaedics** Invited Collaborating Societies Hand and Upper Limb Hip Infection Osteoporosis Spine Sports
 - **YS** Leadership

Free Papers



Closing Ceremony

Concurrent **Scientific Sessions**

Hip Knee Oncology Spine Sports Trauma

Free Papers

Artificial Intelligence Robotics and Mixed Reality



Organising Committee

President

1st Vice President 2nd Vice President Secretary General Honorary Treasurer **Congress Committee Chairman Congress President 2025**

Foot & Ankle Section Hand & UL Section **Hip Section - APHS** Infection Section - APMIS **Knee Section - APKS Oncology Section Orthopaedic Research - APORS Osteoporosis & Fragility Fracture** Paediatrics Section - APPOS Spine Section - APSS **Sports Section Trauma Section - APTS** Women's Advocacy Section

Jamal Ashraf Nicolaas Budhiparama **Onder Aydingoz** Arif Khan Syed A L Alsagoff Frederic Joseph F. Diyco Marinis Pirpiris

Arvind Puri In Ho Jeon Lewis Chan Syed Shahidul Islam Merter Ozenci Peter Choong Ismail Hadisoebroto Dilogo Rajesh Malhotra Leo Donnan Mun Keong Kwan **Enrique C Pasion** Anup Agrawal Rujuta Mehta

India Indonesia Turkey Pakistan Malaysia Philippines Australia Australia

Korea Hong Kong Bangladesh Turkey Australia Indonesia India Australia Malayisa Philippines India India

Scientific Committee

Scientific Chair	
APOA President	
Congress President 2025	
Scientific Secretary	

Abstract Reviewers

Abdul Satar Abhay Elhence Adel Belen Aditya Menon **Alphonsus Chong** Amin Chinoy Andri Lubis Arvind Puri Asep Santoso **Bhishimpal Singh** Brian Loh **Buland Thapa** Chanalait Cholawish **Charanjeet Singh** Chen Yan Yu Christian Fang Claudia Di Bella Dave Lee Devarani Pancharatn **Dhaval Desai** Erica Kholinne Hakan Kinik Harpal Singh Hideki Shigem Jamal Ashraf Joyce Koh K. C. Wong Kamran Faroo Kate Stannage Ken Ye Ketan Pandey Kris Lundine Kumar Shanta Kunal Aneja Lewis Chan Lia Marliana Margaret Fok Marinis Pirpiris





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- Nicolaas Budhiparama Jamal Ashraf Marinis Pirpiris **Arvind Puri**
- Indonesia India Australia Australia

	Michael Johnson
e	Mojieb
	Myungsun Kim
Sehli	Nathaniel Orillaza Jr
natsu	Nick Russell
	Nilo Paner
	Nusret Kose
	Ricky Hutapea
oque	Rongquillo Jonathan
je	Ruurd Jaarsma
	Soo-Min Cha
Ý	Suresh Sivanthan
	Syed Shahid Noor
anu	Syed Shahidul Islam
	Tang Ha Nam Anh
	Wan Faisham
	Wongthawat Liawru
	Zairin Noor





Welcome to the AO Foundation and AO Trauma.

We welcome this year's guest association, the AO Foundation and AO Trauma. The AO is a global leader in advancing care for patients with musculoskeletal injuries and disorders. Founded in 1958 by a group of visionary Swiss surgeons, the AO has grown into a world-renowned organisation dedicated to improving patients' outcomes through research, education, innovation and community engagement. Its mission is rooted in creating a unified approach to the treatment of trauma, spine, craniomaxillofacial and veterinary conditions.

At the heart of the AO is its commitment to education. It provides cutting edge training programs, hand-on workshops and online learning opportunities for healthcare professionals across all career stages. These educational initiatives, supported by a

global network of expert faculty, ensure that surgeons and healthcare providers have access to the latest techniques and evidence-based practices in musculoskeletal care.

Research is the cornerstone of the AO. Its commitment to scientific discovery has led to significant advancements in surgical techniques, biomaterials, and implant design. Through partnerships with academic institutions and industry leaders, the AO facilitates groundbreaking studies that shape the future of orthopaedic and trauma care.

The AO is structured around five clinical divisions - AO Trauma, AO Spine, CMG (Craniomaxillofacial), AOVET, and AO Recon - each focussing on specific areas of musculoskeletal health. These divisions provide specialised support, resources and training, fostering excellence within their respective fields.

Beyond its scientific and clinical contributions, the AO emphasis collaboration and community building. Its global network of professionals, spanning over 100 countries, fosters knowledge exchange and mentorship, creating a vibrant ecosystem dedicated to improving patient care.

As a pioneer in musculoskeletal care, the AO remains committed to advancing innovation, enhancing education, and uniting healthcare professionals in their shared mission to transform lives.

The recent signing of a memorandum of understanding to collaborate between the AO and the APOA marks a significant milestone in advancing orthopaedic care and education across the Asia-Pacific region. The partnership brings together two esteemed organisations with a shared vision of fostering excellence in orthopaedic research, clinical practice, and training. By leveraging the combined expertise and resources, this collaboration aims to enhance the quality of care, promote innovation and address the unique challenges faced by healthcare professionals and patients in the region. During the APOA Congress of 2025, we will celebrate the memorandum of collaboration, which is a testament to the commitment of both the AO and APOA to improve outcomes and building a sustainable future for orthopaedic care. We look forward to a long and fruitful collaboration between our two wonderful organisations.

Professor Marinis Pirpiris **Congress President**



on and the APOA in Davos Swi Jamal Ashraf, President of the APOA, P the AO Foundation and Dr Wael Taha. Chair of the AO International Board was also present at the event



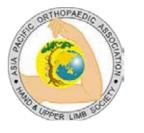
TRAUMA

undation and the APOA in Davos, Switzerland 2024, Pro fessor Nicolaas C. Budhiparama, First Vice President of the APOA, Professo Tim Pohlemann, President of the AO Foundation and Mr Eberhard Denk. Executive Director Community and Governance and Director of AO Trauma and AO Recon





















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Artificial Intelligence, Robotics and Mixed Reality



Endorsed by

















Venue



The 24th Asia Pacific Orthopaedic Association (APOA) Annual Scientific Meeting will take place from April 9-12, 2025, at the world-renowned Cairns Convention Centre.

This state-of-the-art venue, recognized for its outstanding facilities and services, offers an ideal setting for an international event of this magnitude. Located in the heart of Cairns, the convention centre is surrounded by a stunning natural environment, often referred to as "nature's pristine playground."

Delegates will not only benefit from cutting-edge presentations, workshops, and networking opportunities but also have the chance to explore the region's unique attractions, including the Great Barrier Reef, Daintree Rainforest, and vibrant local culture.

With its seamless blend of professional excellence and breathtaking surroundings, the Cairns Convention Centre promises an unforgettable experience for all attendees.





Artificial Intelligence, Robotics and Mixed Reality



Attending an international conference requires planning.

Now is the time for you to commence your preparations to attend APOA25.

For further information on APOA25 and Cairns visit: apoa2025.org

Information & preparation



* Check with your local Australian Embassy to see if you require a visa, if you require a visa letter from APOA2025 to accompany your visa application, you MUST register for the conference and then email info@APOA2025.org requesting a visa letter.

Social

Wednesday 9 April 2025

Welcome Cocktail Party	
Time:	7.00pm - 9.30pm
Venue:	Cairns Convention Centre
Dress:	Smart Casual
(Included i	n registration, select to attend

Thursday 10 April 2025

Presidents Dinner (Invitation only)

Friday 11 April 2025

Congress Dinner	
Time:	7.00pm - midnight
Venue:	Cairns Convention Centre
(Register t	o attend: Cost \$150)



when registering)



Pre-Conference Workshops

Wednesday 9 April 2025

Foot and Ankle Knee Trauma

Foot and Ankle

8.00am	Welcome and Moderator: Arv
8.00am - 10.00am	How I do it - Total Ankle Arthr Moderator and Demonstrator
10.30am -12.30pm	Augmentation of Ligaments ar with Practical Demonstration
1.30pm - 3.30pm	Hindfoot Fusions -Screws, Pla Hands on Workshop - Eric Ch o
4.00pm	Questions and Answers and C Moderator: Arvind Puri
5.00pm	Closing Remarks - Arvind Puri

FACULTY

- Alison Taylor Amber Haseeb Andi Praja Wira Bedri Karaismailoglu Carlo Borbon Chayanin Angthong Danielle Wadley David Lunz Dhaman Jha
- Eric Cher Gow Thevendran Hong-Jeun Jung Kumar Shantanu Maan Taaba Mandeep Dhillon Mark Blackney Moez Ballal Muhammad Farhan

vind Puri

roplasty - Tips and Tricks with Demonstration - Hong-Geun Jung, Maan Taaba, Danielle Wadley

round the ankle - How and when to do - Vinod Panchbhavi, Peter Lamb, Yeok Pin Chua

lates and Nails - Approached, Techniques and er, Yan Yu Chan, Moez Ballal

Case Presentations

Orfan Arafa Peter Lam Rizwan Harron Simon Platt Siu Kwai Ming Yan Yu Chan Yeok Pin Chua

Knee



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9.00am - 10.15am **Meniscus Session**

Moderators: Tang Ha Nam Anh, Young Mo Kim

- 9.00am Meniscus anatomy and imaging Isa An Nagib
- 9.10am Meniscal tears, repair: Technique Charanjeet Singh
- 9.20am Meniscus Root Avulsion: Technique Tang Ha Nam Anh
- 9.30am Ramp lesion repair: Technique Young Mo Kim
- 9.40am Back to sports after meniscus repair Kukuh Dwiputra Hernugrahanto
- 9.50am Discussion

10.15am - 11.40am **ACL Session:**

Moderators: Tim Whitehead, Merter Ozenci

10.15am ACL injury diagnosis (imaging clinical and arthroscopic) - Kunal Aneja

10.25am Graft options in ACL reconstruction - Nick Russell

10.35am ACL reconstruction technique with remnant preservation - Jose Antonio"Toni" San Juan

10.45am Anatomic ACL reconstruction: My technique - Tim Whitehead

10.55am ACL Avulsion injuries: Technique - Merter Ozenci

- 11.05am Tips and tricks for a successful ACL reconstruction Hayden Morris
- 11.15am Revision ACL reconstruction: my algorithm Justin Roe
- 11.25am Discussion

11.40am - 1.50pm **Patella Instability Session** Moderators: Asep Santoso, Tak Man Wong

11.40am Patella instability evaluation (radiologic, clinical) - Kunal Aneja 11.50am First time patellar dislocation: Surgery or rehabilitation - Jae-Ang Sim 12.00pm Tracheoplasty in trochlear dysplasia - Sinan Karaoglu 12.10pm MPFL reconstruction: Technique - Asep Santoso 12.20pm MPFL reconstruction with guadriceps tendon - Rich Pasion 12.30pm Distal alignment procedures: when they are needed - Tak Man Wong 12.40pm Discussion

1.50pm - 3.05pm Osteotomy

Moderators: Yukio Akasaki, Jong-Keun Seon

1.50pm Deformity correction-pre-op assessment - Charanjeet Singh

2.00pm Around knee osteotomy: basic science to clinic - Yukio Akasaki

2.10pm HTO technique in varus alignment - Jong-Keun Seon

2.20pm DFO technique in valgus alignment - Asep Santoso

- 2.30pm Double osteotomy: when it is necessary Tim Whitehead
- 2.40pm Osteotomy complications intraoperatively Yukio Akasaki
- 2.50pm Discussion

3.05pm - 4.40pm Primary TKR

Moderators: Peter McEwen. Hideo Matsumoto

3.05pm Primary TKR pre-op assessment and planning - Cüneyd Günay

- 3.15pm Analytical total knee arthroplasty Yixin Zhou
- 3.25pm Advantages and disadvantages of kinematic alignment Shuichi Matsuda
- 3.35pm Minimal invasive technique in TKA Hideo Matsumoto

3.45pm Stress-shielding in TKA: influence of design and material on post-op BMD - Yukihide Minoda

- 3.55pm Staying out of trouble with kinematic TKA Peter McEwen
- 4.05pm Robotic TKA and UKA: Evidence based outcome Ravi Teia Rudraraiu
- 4.15pm Bone loss in primary TKA can be challenging Syed Shahid Noor

4.25pm Discussion

4.40pm - 5.00pm Current concepts in managing ACL injuries. Keynote Speaker: Justin Roe

9.00am - 10.30am

Lower Limb Periprosthetic Fractures Moderators: Roger Bingham, Cameron Cooke, Tomovuki Noda 9.00am Welcome - Jamal Ashraf, Cameron Cooke, Marinis Pirpiris 9.10am Periprosthetic acetabular fractures in THR- Wael Taha 9.20am Periprosthetic femoral fractures in THR - Jamal Ashraf 9.30am Periprosthetic femoral fractures in TKR - Roger Bingham 9.40am Periprosthetic tibial fractures in TKR - Ji Wan Kim 9.50am Intra-operative Femoral fractures - JP Leung 10.00am Proximal femoral Replacements in trauma - Cameron Cooke

10.10am Infected periprosthetic femoral fractures in THR - Dhanjay Gupta 10.20am Discussion

10.30am - 11.20am **AO** milestones and Innovations

Moderators: Simon Matthews and Andrew Oppy 10.30am Mixed Reality in Trauma Education - Florian Gebhard 10.40am AO Milestone- an innovative concept for structured learning and training in Orthopedics. - Marc Stal 10.50am Innovations in AO Mentorship - Jaimie Quintero 11.00am The AO and the APOA - Innovations and collaborations - Tim Pohlemann 11.10am Innovations in Trauma, what is coming next? - Michael Schuetz

11.20am- 12.00pm

Violation of principles and solutions Moderators: Harpal Singh Sehli and Sunil Kulkarni

11.20am Acetabular Fractures - Sameer Agarway 11.30am Proximal femur fractures - Seth Tarrant

- 11.40am Tibial Plateau Fractures Francois Tudour 11.50am Tibial Shaft Fractures - Chris Morrey

12.00pm - 1.00pm Peri implant Infection

Moderators: Adel Belen and Cameron Cooke 12.00pm Approach to Infected Femoral fixation of the proximal femur - JK Oh 12.10pm Approach to infected femoral fixation of the distal femur - Diarmud Murphy 12.20pm Approach to infected femoral fixation of the shaft of the femur - Frankie Leung 12.30pm Infected tibial trauma in the elderly - Peter Giannoudis 12.40pm Infected proximal femur fractures in the elderly - John Mukhopadaya 12.50pm Discussion

2.00pm - 3.30pm

Upper Limb a Periprostetic Issues and Periprosthetic fractures **Moderators: Christian Farng and Andy Yeo**

2.00pm Periprosthetic Scapula Fractures in Total Shoulder Replacements - Christian Farng 2.10pm Periprosthetic Humeral Fractures in Total Shoulder Replacement - Dhaval Desai 2.20pm Periprosthetic Humeral Fractures in Total Elbow Replacements - Denis Yee 2.30pm Periprosthetic Ulnar Fractures in Total Elbow Replacements - Randy Bindra 2.40pm Intra-operative Fractures in the Humerus - Minoo Patel 2.50pm Discussion

3.30pm - 5.00pm Lower Limb Management Challenges Moderators: Lia Marliana, Mandeep Dhillon, Khairul Mohammed 3.30pm Open Femoral Shaft Fractures with segmental deficit - Zsolt Balogh 3.40pm Open Tibial Shaft Fractures with segmental deficits - Rajesh Gandhi 3.50pm Open Knee Injuries - Apipop Kritsaneephailboon 4.00pm Open tibial fractures with segmental deficit - Kevin Tetsworth 4.10pm Knee Fractures and concomitant ligament injuries - Yi Sheng Chan 4.20pm Ankle Fractures and concomitant ligament injuries - Mandeep Dhillon 4.30pm Comminuted Talus Fractures - Khairul Mohammed 4.40pm Comminuted Calcaneal Fractures - Keen Wai Chong 4.50pm Complex Midfoot Fractures - Andrew Oppy 5.00pm Discussion

Trauma



Thursday 10 April 2025

Opening Ceremony Keynote Plenary

Concurrent **Scientific Sessions**

APOA YSF Arthroplasty Foot and Ankle Hip How to Publish your work Knee Osteoporosis **Paediatrics** Research Spine Trauma Waves

Free Papers

PROVISIONAL

PROGRAM

Artificial Intelligence, Robotics and Mixed Reality



Friday 11 April 2025

Keynote Plenary

Concurrent **Scientific Sessions**

- AO Trauma Foot & Ankle **General Orthopaedics** Invited Collaborating Societies Hand and Upper Limb Hip Infection Osteoporosis Spine Sports **YS** Leadership
 - Free Papers

Saturday **12 April 2025**

Closing Ceremony

Concurrent **Scientific Sessions**

Hip Knee Oncology Spine **Sports** Trauma

Free Papers

THURSDAY - 10 April 2025







APOA YSF

Arthroplasty	
Foot and Ankle	
How to Publish Y	our Work
Knee	
Osteoporosis	
Paediatrics	
Research	
Spine	
Trauma	
Waves	
	Refer to follow

10.30am - 10.35am	Congress President's Welcome Address
	Marinis Pirpiris
10.35am - 10.45am	President's Address
	Jamal Ashraf
10.45am - 10.50am	Guest Society President's Address
	Tim Pohlemann
10.50am - 11.00am	Award Presentation
	Jamal Ashraf, Nico Budhiparama & Arif Khan

O P E

N I N G

C E R E M

O N Y

11.00am - 11.30am	Technology and Outcomes in Robotic Surgery - what
	is all the hype? - Fares Haddad
11.30am - 12.00pm	Imaging, artificial intelligence and orthopaedics
	Florian Gebhard
12.00pm - 12.30pm	Arthur Ralph Hodgson Memorial Lecture
	Artificial Intelligence and Medical Education
	Rajasekaran Shanmuganathan

Artificial Intelligence, Robotics and Mixed Reality



4pm - 6pm

2pm - 6pm

8am - 9.30am | 1.30pm - 3.30pm

1.30pm - 3.15pm

8am - 2pm

4pm - 6pm

8am - 10am

8am - 10am | 1.30pm - 3.30pm

8am - 9.30am | 1.30pm - 5.30pm

8am - 10am | 1.30pm - 5.30pm

4.00pm - 6.00pm

Refer to following pages for concurrent session programs Page 27 @ 26 January 2025

THURSDAY - 10 April 2025

Concurrent Session Programs

APOA YSF Thursday - 10 April 2025

4.00pm 6.00pm

Generation Z as our future orthopaedic surgeons; the benefit and the challenges Moderator: Yudha Mathan Sakti and Nicholas Jorgensen

- 4.00pm AI and VR application and technological advancement in the AP region Syed Akmal Sultan
- 4.10pm Work and Life Balance as a Young Orthopaedic Surgeon Yudha Mathan Sakti
- 4.30pm The Australian Perspective Nicholas Jorgensen
- 4.40pm Discussion
- 4.50pm Leadership role and challenges to become a successful senior Orthopaedic Surgeon Vinit Yadav
- 5.00pm My pitfalls and obstacles in applying new surgical technology as a young surgeon Eiji Takasawa
- 5.10pm Becoming a manager as an orthopaedic surgeon Jaber Alkhyell
- 5.20pm Incorporating new technologies in residency education Janus Wong
- 5.30pm Discussion
- 6.00pm Closing remarks Yudha Mathan Sakti

Arthroplasty Thursday - 10 April 2025

Knee Section - Knee and patella femoral osteoarthritis Moderator: Peter Myers, Xialong Zang, Yukihide Minoda

2.00pm - 4.00pm 2.00pm Medial osteoarthritis in active young patient: UKA or HTO - Sharan Patil 2.10pm Navigation system vs robotic TKA: evidence based comparison - Yukihide Minoda 2.20pm Isolated patella femoral arthrosis: What is the ideal solution? - Kandiah Raveendran 2.30pm Modern implant designs in TKA: Does it make a difference? - David Choon 2.40pm The effect of knee kinematics on symptoms and function after TK - Theofilos Karachalios 2.50pm Polyethylene and tibial bearing surfaces of TKA: How much difference can we predict? - Peter McEwen 3.00pm Discussion

3.10pm The Place of Registries in the Management of PJI - Richard de Steiger 3.30pm The Role of Research in solving PJI - Guruva Reddy 3.50pm Discussion

3.55pm Closure - Merter Ozenci

4.00pm-6.00pm Hip Section - Primary and Complex THA: Basics to the Current Concepts Moderators: Lewis Chan and Bogdan Solomon

4.00pm Introduction & Welcome - Lewis Chan Lecture

4.05pm Update in Hip Presentation Surgery - Sohail Hafeez 4.13pm Choice of Cementless Femoral Stem: What is the current evidence? - Yoshi Pratama Djaja 4.21pm Why are you still cementing stems in 2025? - David Choon 4.29pm Spinopelvic Kinematics: Practical Workforce for Surgeons with Case Illustrations - Abhay Elhence 4.37pm Discussion

Surgical Techniques & Tips

4.45pm Video I: Conversion of Fused Hip to THA - Rajkumar Natesan 4.53pm Video II: THA in Dysplastic Hip - Yasuhiro Homma 5.01pm Video III: THA after Failure of Hip Fracture Fixation - Darren Tay 5.09pm Discussion

Debate : Dual Mobility

5.15pm Dual Mobility Should be Considered for Every Patient - Syed Shahid Noor 5.20pm Dual Mobility is Designed for the Faint Hearted Surgeon - Sunil Reddy 5.25pm Crossfire & Discussion - Fares Haddad, Yasuhiro Homma, Yoshi Pratama Djaja **Case Presentation**

5.33pm Complex Primary THA cases - Fahri Erdogan Discussion Panellists - Fares Haddad, Abhay Elhence, Syed Shahid Noor, Yoshi Pratama Diaja, Yasuhiro Homma, Rajkumar Natesan, Sunil Reddy

5.50pm Take Home Message - Lewis Chan



Artificial Intelligence, Robotics and Mixed Reality

Foot and Ankle Thursday - 10 April 2025

8.00am - 9.30am Welcome to Congress and Foot and Ankle Section **Moderator: Arvind Puri**

8.00am Welcome - Arvind Puri

8.10am Foot and Ankle and Technology- Quo Vadis? - Arvind Puri 8.20am 3D Printing for your Foot and Ankle Case: A Do It Yourself Guide- Bedri Karaismailoglu 8.30am Is there any role of Robotic Assisted Surgery in Foot and Ankle? - Muhammad Farhan 8.40am Augmented Reality and Training- can it improve and enhance skills? - Yan Yu Chan 8.50am Artificial Intelligence- Practical Application or just another New Toy? - Amber Haseeb 9.00am Open Discussion- How I embraced New Technology to Solve a Surgical Problem Case Presentations with Panelists. Moderator: Orfan Arafa

1.30pm - 3.30pm How do I do it- Instructional Videos and Talks Moderator: Hong Geun Jung, Alison Taylor

1.30pm Arthroscopic Lateral Ankle Ligament Stabilisation- TBA

1.40pm MIS Hallux Valgus/ Lesser Toes Correction - Peter Lam

1.50pm Tightrope for Lisfranc Injuries - YP Chua

2.00pm Fibular Nail Fixation for Unstable Ankle Fractures - Neshat Anjum

2.10pm Blood, Sweat and Tears- My Difficult Cases and what I did.

Carlo Borbon - Trauma, Elective, Diabetic with panelists Simon Platt, Kumar Shantanu, Moez Ballal

2.45pm Albatross Around My Neck- How I Managed my Nightmare Complications

Mark Blackney - Clinical cases with panelists - Orfan Arafa, Muhammad Farhan, Bedri Karaismailoglu 3.30pm Closure

How to Publish Your work Thursday - 10 April 2025

1.30pm-3.15pm How to Publish your work **Moderators: Nicolaas Budhiparama and Lalit Maini** 1.30pm Welcome - Nicolaas Budhiparama 1.35pm Importance of Research and evidence based medicine - Frankie Leung 1.45pm How to build a high impact research program - Anil Jain 1.55pm Understanding research methods - CONSORT, STROBE, PRISMA - Daisuke Sakai 2.05pm Writing a good manuscript and abstract - Fares Haddad 2.20pm Maximising the reach and impact of your published research - Peter Giannoudis 2.35pm Keynote Speaker - Becoming literate in the Al - Mohit Bhandari 2.55pm Discussion





THURSDAY - 10 April 2025

Concurrent Session Programs

Knee Thursday - 10 April 2025

8.00am - 9.10am	Complex TKA Management
	Moderators: John Bartlett and Sachin Tapasvi
8.00am TKA in varu	us deformity: Assessment and management - Kukuh Dwiputra Hernugrahanto
8.10am TKA in valg	gus deformity:achieving ligament balance - Justin Roe
8.20am Replacing a	a knee with extra-articular deformity - Yixin Zhou
8.30am Considerat	tions for outpatient TKA in Asians - Aree Tanavalee
8.40am Periprosthe	etic fracture following TKA: Fix or replace - Syed Shahid Noor
8.50am Detecting a	and correcting patella maltracking during TKA - Simon Talbot
9.00am Discussion	1
0.40	
9.10am - 9.30am	The future of Knee Arthroplasty Surgery is Here: How Asia Pacific is Embracing
	New Technologies
	Keynote Speaker: Nicolaas Budhiparama Moderator: John Bartlett
	Moderator: John Bartlett
12.30pm-1.30pm	Fast Track Surgery in Hip and Knee Arthroplasty: New Standards
	Moderators: Scott Fletcher and Nicolaas Budiparama (LUNCH TIME SEMINAR)
12.30pm Introduction	on - Nanne Kort
Topic: Evo	olution of Fast-track and Healthcare Challenges
Objective:	: Raising awareness of the pressing challenges and the urgent need to optimise care
12.36pm Preoperati	ive Phase - Trifon Totlis
Discuss th	ne importance of thorough preoperative preparation and its impact on Fast-track success
	ne importance of thorough preoperative preparation and its impact on Fast-track success tive Phase - Fares Haddad
12.42pm Perioperat	
12.42pm Perioperat Highlight k	tive Phase - Fares Haddad
12.42pm Perioperat Highlight k 12.48pm Postoperat	tive Phase - Fares Haddad key strategies for maintaining patient stability and efficiency during the operation.
12.42pm Perioperat Highlight k 12.48pm Postoperat The postop	tive Phase - Fares Haddad key strategies for maintaining patient stability and efficiency during the operation. tive phase - David Liu
12.42pm Perioperat Highlight k 12.48pm Postoperat The postop 12.54pm Our Future	tive Phase - Fares Haddad key strategies for maintaining patient stability and efficiency during the operation. tive phase - David Liu operative care and protocols to ensure patient safety and recovery
12.42pm Perioperat Highlight k 12.48pm Postoperat The postop 12.54pm Our Future	tive Phase - Fares Haddad key strategies for maintaining patient stability and efficiency during the operation. tive phase - David Liu operative care and protocols to ensure patient safety and recovery e Vision - Nicolaas Budhiparama ative and forward-thinking perspective

1.30pm - 2.00pm **Opening Speeches** **Moderator: John Bartlett**

APKS opening speeches - Merter Ozenci - APKS President The Professor Koshino Tribute Lecture - Tomoyuki Saito



Osteoporosis Thursday - 10 April 2025

4.00pm	Welcome - Rajesh Malhotra
4.05pm	Screening for fragility in practice - JK Lee
4.15pm	Obesity, Bone and Sarcopenia - Are they interlinked ?
4.30pm	Fall Prevention - Importance and Strategies - Amin Ch
4.45pm	Burden of fragility fractures - Urgent need for Interve
5.00pm	Prevention of further bone fractures in elderly patient
5.15pm	Secondary prevention of fractures and FLS - Onder A
5.30pm	Panel Cases of Atypical Fragility Fractures - Andy Yeo
	Panel: JK Lee, Ester Brigante, Joyce Koh, Onder Aydir
5 15pm	Closure - Rajesh Malhotra

Thursday - 10 April 2025

8.00am - 8.20am Cerebral Palsy What's In what's out: current concepts Moderators: Abhay Khot, Muharrem Inan 8.00am Proactive and reactive management of orthopaedic problems in CP-Role of surveillance and service delivery - Erich Rutz

8.10am Lever arm surgeries and role of gait analysis in decision making - Abhay Khot

8.20am - 9.00am Upper Limb Trauma

8.20am Both bones forearm fractures in children diagnosis and management - Ayesha Saeed 8.30am Supra condylar fractures in Children-concepts and how do I get best outcome? - Emel Gonen 8.40am How not to miss a fracture Monteggia? Current concepts and management of late

presentations - Suresh Chand

8.50am Lateral condyle -dilemmas, pitfalls and solutions for a good outcome. - John Mukhopadhyay

9.00am - 9.25am Spot light on the Hip **Moderator: Rujuta Mehta** 9.00am Keynote Lecture - Japanese perspective on PAO for adolescents with hip dysplasia - Yasuharu Nakashima 9.15am Decoding Septic Hip - Rujuta Mehta

9.25am - 9.55am The paediatric Knee: Getting it right the first time.

9.25am Vietnamese perspective on Patella Dislocations - Nguyen Ngoc Hung 9.35am Paediatric Sports Injuries - Brian Loh 9.45am Growth Modulation -boon or bane - Chasanal Rathod

Wall

Ronald Wong inoy ntion - Syed Shahidul Islam s - Ester Brigante /dingoz goz, Yasuhisa Ueda

Moderator: Ayesha Saeed

Moderator: Ravi Mittal

THURSDAY - 10 April 2025

Concurrent Session Programs

Research Thursday - 10 April 2025

 8.00am - 8.50am Mechanics vs Biologics in Bone Healing Moderators: Ismail Hadisoebroto Dilogo and Joyce Koh
 8.00am Mechanics is the most important factor in bone healing - Geoff Richards
 8.15am Biology is the key factor for fracture healing - Tunku Kamarul Zaman
 8.25am Mechanobiology is compulsory for fracture healing - Michael Schuetz
 8.35am Discussion

8.50am - 10.00am Biologic agents' role in fracture healing Moderators: Sureshan Sivananthan and Tunku Kamarul Zaman

8.50am Cellular Implantation is the solution for issues with fracture healing - Phedy

9.00am Non cellular metabolite is the preferred intervention for issues with fracture healing - Francis Wong

9.10am Growth factor rhBMP2 is the cutting edge solution to solving fracture healing problems - JK Oh

9.20am Discussion All faculty

9.30am Keynote: Non-union tissue - What we know and what we do not know - Peter Giannoudis9.50am Discussion

1.30pm - 2.20pmThe differences in issues between fracture non union and bone defectsModerators: Francis Wong and Kevin Tetsworth

1.30pm What is the difference in treating fracture non-union and bone defects - Nathaniel Orillaza

1.40pm The basic scientific principle and the approach is the same - Joyce Koh

1.50pm The basic scientific principle and the approach is totally different - Dhaval Desai

2.00pm Which cells, stem cells metabolites, extracellular vesicle and BMP to treat bone healing problems?

Ismail Hadisoebroto Dilogo

2.10pm Discussion

2.20pm - 3.00pm How to deal with critical size bone defects Moderators: JK Oh and Peter Giannoudis

2.20pm The use of combined distraction osteogenesis and orthobiologic treatment for critical sized bone defects - Kevin Tetsworth

2.30pm Two stage Masquelet procedure with orthobiologic to treat critical sized bone defects - Takashi Miyamoto

2.40pm Free vascularised grafting is the ideal management for critical sized defects - Heri Suroto

2.50pm Discussion

3.00pm-3.30pm Keynote: How does multi trauma affect bone healing - Zsolt Balogh



Spine

Thursday - 10 April 2025

8.00am	- 9.30am Case Discussions
	Moderators: Mun-Keong Kwan, B
8.00am	Welcome and Introduction - Mun-Keong Kwan
8.05am	CASE A: L4-5 Degen Spondy, Leg Pain 8/10, Bac
	Degen Scoliosis - Rajasekaran Shanmuganathan
8.10am	Decompression Only - Endoscopic Decompression
8.15am	Decompression Only - UBE - Torphong Bunmapr
8.20am	Decompression Only - Open Decompression, The
8.25am	Discussion
8.40am	CASE B: L4-5 Degen Spondy, Leg Pain 0/10, Bac
	Degen Scoliosis - Brian Hsu
8.45am	MIS Fusion, Posterior Only - Varun Agarwal
8.50am	Open Fusion, Posterior Only - Kenny Kwan
8.55am	Anterior and Posterior Fusion - Dato Siva
9.00am	Discussion
9.15am	CASE C: L4-5 Degen Spondy, Leg Pain 8/10, Bac
	Degen Scoliosis - Mun-Keong Kwan
1.30pm	- 3.00pm Case Presentations
	Moderators: Arif Khan, Varun Aga
1.30pm	Case Presentation - Kamran Farooque
1.35pm	All Posterior Fusion - Shah Alam
1.45pm	Anterior and Posterior Fusion - Daisuke Sakai
1.55pm	Anterior Only Fusion - Kenneth Chung
2.05pm	Discussion - All Faculty
2.20pm	Case Discussions - ASD Arif Khan, Jason Cheung
4.00pm	- 5.30pm High-Grade Spondylolisthesis
	Moderators: Shah Alam, Kenneth
4.00pm	Case Presentation and Literature Review - Yudha
4.10pm	All posterior, minimal reduction - MK Kwan
4.20pm	All posterior, TLIF - Jason Cheung
4.30pm	Anterior and Posterior - Wong Yat Wa
4.40pm	Discussion
5.00pm	Case Discussions Daisuke Sakai, Kamran Farooq



Brian Hsu and Ming Hsiao Hu

ck Pain 0/10, L4-S1 Lumbar Lordosis 5°, 15° n on - **Yudha Mathan Sakti** r**asert** ne Current Gold Standard - **Arif Khan**

ck pain 8/10, L4-S1 Lumbar Lordosis 5°, 15°

ck pain 8/10, L4-S1 Lumbar Lordosis 5°, 15°

rwal and Cheng-Hung Lee

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Chung and Ming Hsien Hu a Mathan Sakti

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Trauma

8.00am - 10.00am Panel Discussion Surgical Walk Through the Upper Limb - Panel
Moderators: Frankie Leung and Margaret Fok
8.00am Proximal Humeral Fractures - Nailing or plating Panel Coordinator Frankie Leung
Panel: Simon Matthews, Ismail Haridoebroto, Adel Belen
8.15am Proximal Humeral Fractures - Fixation or Shoulder Replacement Panel Coordinator Christian Farng
Panel: Joyce Koh, Saeed Al Thami, Lia Marliana
8.30am Distal Humeral Fractures - Fixation or Replacement Panel Coordinator Randy Bindra
Panel: Ajeet Tiwari, InHo Jeon, Sudhir Kumar, Chuji Terada
8.45am Distal Radial Fractures - Fixation or Dorsal bridging Panel Coordinator Kim Latendresse
Panel: Greg Bain; Greg Couzens; Margaret Fok
9.00am The Mangled Upper Limb Amputate or Salvage Panel Coordinator: S Rajasekeran;
Panel: Randy Bindra, Roohi Ahmed, Sarah Ahmed
9.30am - 10.00am AO Special Lectures
Moderators: Cameron Cooke and Anup Agrawal
9.30am Trauma Special Lecture The AO and ARI Geoff Richards
9.45am Trauma Special Lecture The development of the AO Mentorship Program Jaimie Quintero
1.30pm - 3.30pm Ask the Expert Surgical Walk Through the Lower Limb
Moderators: Roger Bingham and Sushrut Babhulkar
1.30pm Open Reduction of complex femoral neck fractures Panel Host Tim Pohlemann
Panel: Ram Prabhoo, Roger Bingham, Dhaval Desai
1.50pm Complex Distal Femoral Fractures with Hoffa components Panel Host Peter Giannoudis;
Panel: Sushrut Babhulkar, Seth Tarrant, Richard Diyco
2.10pm Complex Proximal Tibial Fractures Panel Host: Francois Tudour
Panel: Adelwisa Bilen, Bogdan Solomon, Harpal Singh Sehli, Tomoyuki Noda
2.30pm Complex Distal Tibial Fractures Panel Host: Mandeep Dhillon
Panel: Andrew Oppy, Lalit Maini, Chua Yeok Pin
2.50pm Complex Foot and Ankle Fractures: Panel Host Khairul Mohammed
Panel: Arvind Puri, David Lunz, Keen Wai Chong, Yuzuru Sakakibara
3.10pm Tibial Infected Non Unions: Panel Host Kevin Tetsworth
Panel: John Mukhopadaya; JK Oh; Anup Agrawal
4.00pm - 6.00pm Lower Limb Debates
Moderators: Anup Agrawal and Florian Gebhard
4.00pm Dual Implants for Distal Femoral Fractures - JP Leung vs John Mukhopadaya
4.00pm Dual Implants - JP Leung
4.05pm Single Implants - John Mukhopadaya
4.10pm Discussion
airns, Australia
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Trauma (Continued)

5.00pm	- 5.30pm	Panel Discussion	Ν
4.55pm	Discussion		
	4.50pm Tigh	trope is best - David Lunz	
	4.45pm Scre	w Stabilisation is best - Wael Taha	
4.45pm	Screw Stabilis	sation vs Tightrope for managing an an	ık
4.40pm	Discussion		
	4.35pm Free	Hand is best - Ismail Hadisoebroto	
	4.30pm Imag	ge Guided is best - Apipop Kritsaneepl	าส
	Ismail Hadiso	ebroto	
4.30pm	Free hand vs	Image guided SI screws in acute pelvic	: i
4.25pm	Discussion		
	4.20pm Con	ntinuous Monitoring is not required - Z	S
	4.15pm Con	ntinuous Monitoring is required - Tim F) C
4.15pm	Continuous N	Monitoring for detecting compartment	S

5.30pm Closure - Anup Agrawal

Waves Thursday - 10 April 2025

4.00pm-4.25pm	Women's Bor	ne Health M
		demic - overview - Kerin F
	-	
	ssues and Man	agement - Roohi Ahmed
4.20pm Discussion		
4.25pm - 5.05pm	Symposium:	Fostering Equity and Inclu
	Gaining Equa	l Opportunities
	Moderators:	Margaret Fok and Kathe
	Leads:	Lia Marliana and Emel G
	Faculty:	Tunku Sara Ahmad, Chas
		Melanie Amarsooriya
5.05pm - 5.25pm	Keynote Lect	ure M
	Use of AI for I	ODH screening with USG -
	a nation - Ruj	uta Mehta
5.25pm - 5.40pm	Celebrating D	iversity in the Host Natior
	Moderator: S	
5.40pm - 6.00pm	AGM	
3.40pm - 0.00pm		



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- syndrome Tim Pohlemann vs Zsolt Balogh ohlemann olt Balogh
- injuries Apipop Kritsaneephailboon vs
- aiboon
- de diastasis injury Wael Taha vs David Lunz
- **Moderator: Aamir Bin Sabir**

- **Noderators: Joyce Koh and Adel Belen** Fielding
- usion: Overcoming Microaggressions and
- erine Ganal Antonio Gonen asanal Rathod, Claudia Di Bella, Annette Holian,
- **Ioderators: Alzina Abbas, Amber Haseeb** -applications and impact on Care pathway for
- on Kate Stannage (OWL Chair)



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AO Trauma

Foot and Ankle

General Orthopaedics
Invited Collaborating Societies
Hand and Upper Limb
Hip
Infection
Osteoporosis
Spine
Sports

YS Leadership

10.30am - 11.00am	Isaharu Miki Memorial Lecture
	Leadership & Governance : Pillars of Strength For the
	APOA - Ellewellyn Pasion
11.00am - 11.30am	Ian Philip Torode Memorial Lecture
	Technology, Surgery and Rehabilitation in early
	recovery in orthopaedics - Vikas Khanduja
11.30am - 12.00pm	Joint Replacement Surgery and Robotics - is this the
	future ? - SKS Marya



Artificial Intelligence, Robotics and Mixed Reality



8.00am - 9.30am

4.00pm - 6.00pm

1.30pm - 3.30pm

8am - 10am | 1.30pm - 6pm

4.00pm - 6.00pm

1.30pm - 5.45pm

8am - 10am | 1.30pm - 3.30pm

8am - 9.30am

8am - 10am | 1pm - 4pm

8am - 10am | 4pm - 5.30pm

Refer to following pages for concurrent session programs

AO Trauma

Moderators: Cameron Cooke and Roger Bingham 1.30pm Welcome Mandeep Dhillon 1.35pm AO Incubator Programs and Projects -State of the Art in the management of open fractures - Michael Schuetz 1.50pm Technology assisted pelvic fixation - Tim Pohlemann 2.05pm Proximal Humeral Augmentation - tips and tricks - Florian Gebhard
 1.35pm AO Incubator Programs and Projects -State of the Art in the management of open fractures - Michael Schuetz 1.50pm Technology assisted pelvic fixation - Tim Pohlemann 2.05pm Proximal Humeral Augmentation - tips and tricks - Florian Gebhard
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2.05pm Proximal Humeral Augmentation - tips and tricks - Florian Gebhard
2.20pm Management of post-traumatic bone defects - Peter Giannoudis
2.35pm Innovations in prosthetic related infections - Geoff Richards
2.50pm Advances in Stability of Femoral Nailing - Wael Taha
3.30pm-6.00pm AO Trauma Seminar - Updates in Complex Fracture Management
Moderators: Tim Pohlemann, Simon Matthews
3.30pm Infected femoral non unions: Panel Coordinator: Andrew Oppy
Panel: Andrej Trampuz, Kevin Tetsworth and Nick Jorgensen
3.50pm Infected tibial non unions: Panel Coordinator Peter Giannoudis
Panel: Chris Morrey, Dhaval Desai, Wael Taha
4.10pm Post-traumatic defects in open femoral fractures: Panel Coordinator Michael Schuetz
Panel: Anup Agrawal, JP Leung, JK Oh
4.30pm Post-traumatic defects in open tibial fracture - JK Oh Panel Coordinator Kevin Tetsworth
Panel: Sameer Agarwal, Richie Diyco and Ismail Hadisoebroto
4.50pm Open Ankle Fractures in elderly patients: Panel Coordinator: Mandeep Dhillon
Panel Khairul Mohammed, Keen Wai Chong and Ram Prabhoo
5.10pm Complex Pelvic Ring Fractures Panel Coordinator: Vivek Trikha
Panel: Chris Morrey, Sameer Agarwal, Michael Schuetz
5.25pm Smashed Acetabular Fractures Panel Coordinator: Cameron Cooke
Panel Apipop Kritsaneephalboon, Cameron Cooke, Peter Giannoudis
5.40pm Complex combined ring and acetabular fractures Panel Coordinator: Apipop Kritsaneephalboon
Panel: Dhaval Desai, Abhay Elhence, Tim Pohlemann

Foot and Ankle Friday - 11 April 2025

8.00am - 8.30am

Debate FREE for ALL!

Moderator: Gow Thevandran & Vinod Panchbhavi

8.00am Al Robotics will improve Foot and Ankle Surgery - Bedri Karaismailoglu & Amber Haseeb 8.10am Diabetic Infections - no more can be done - Simon Platt & Andri Primadi

8.20am Open versus arthroscopic lateral ligament stabilisation - Carlo Borbon

8.30am - 9.30am **Case Presentations**

Moderator: Amy Touzell

8.30am When the eyes cannot see what the mind does not know- Missed or Mismanaged Cases that I had to deal with! - Mandeep Dhillon and Shun-Ping Wang with Panelists

9.00am Wow! What a case- interesting cases that taught me and I taught my trainees **TBA** with Panelists

General Orthopaedics Friday - 11 April 2025

4.00pm-6.00		6.00pm From Fragility to Stability - The rol patients Moderators: Onder Aydingoz, Jack
	4.00pm	The role of FFN in managing sarcopenia, fraility
	4.20pm	A new, simplified nutritional care pathway for hi
	4.40pm	The scientific basis of nutrition and exercise for
		Rajesh Malhotra
	5.00pm	Implementation of nutritional care: Whose respo
	5.20pm	Bone Protection in the older patient when, when
	5.50pm	Discussion

Invited Collaborating Societies Friday - 11 April 2025

1.30pm - 3.30pm	Invited Collaborating Societies P
	Moderators: Nicolaas Budhipara
1.30am Welcome	

1.35pm SICOT Connecting in order to reduce social inequities in health care 1.45pm FEMECOT Collaborating to improve patient outcomes 1.55pm AOA Transforming and connecting in the 21st Century 2.05pm Discussion

- 2.15pm EFORT Theofilos Karachalios
- 2.35pm FENECOT The biggest hurdles for FEMECOT
- 2.35pm AOA Overcoming the challenges of distance
- 2.45pm Discussion
- 2.55pm SICOT Young Development and Leadership Programs
- 3.05pm FEMECOT Mentorship and Diversity Program

3.15pm Discussion







ole of nutrition in the management of older

ck Bell, Chris Wall

y and osteoporsis - Onder Aydingoz nip fracture patients - Jack Bell optimising the older orthopaedic patient

ponsibility? - Jack Bell ere, why and by whom ? - Ester Brigante

Perspectives ama and Onder Aydingoz

Hip Friday - 11 April 2025

4.00pm - 6.00pm

Hip Section II: Revision THA: How to Build up your Key techniques in **Revision THA?** Moderators: Darren Tay, Rami Sorial

Lecture

4.00pm Primary Mechanical Stability of the Cup in Revision THA - Dermot Collopy 4.08pm Role of Acetabular Augment in Revision THA - Lewis Chan 4:16pm How to Manage Pelvic Discontinuity- Rajesh Malhotra 4.24pm How to Manage Pelvic Discontinuity - Rami Sorial 4.32pm Discussion

Surgical Technique & Tips

4.40pm Video I: Jumbo Cup - Marcelino Cadag 4.48pm Video II: Femoral IBG - Bogdan Solomon 4.56pm Video III: Acetabular IBG - Hwa Sen Chua 5.04pm Discussion

Debate: Acetabular Reconstruction in Revision THA

5.12pm Acetabular Cages is my Workhorse in Managing Major Acetabular Defect - Zeeshan Khan 5.17pm Acetabular Cages should be Abandoned & Replaced by Porous Metal - Boopalan Ramasamy 5.22pm Crossfire & Discussion - Fares Haddad, Hwa Sen Chua, Dermot Collopy

Case Presentation

5.30pm Revision THA Cases - Tang Ha Nam Anh Discussion Panellists - Fares Haddad, Dermot Collopy, Rajesh Malhotra, Hwa Sen Chua, **Boopalan Ramasamy, Marcelino Cadag**

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5.50pm Take-Home Message - Darren Tay

Hand and Upper Limb Friday - 11 April 2025

8.00am - 8.30am **Proximal Humeral Fractures**

Moderators: Ted Mah, Jonathan Ronguillo

8.00am Proximal Humeral Fractures Conservative vs ORIF - Basel Mastri 8.10am When a reverse is better & Getting it Right The First Time - Kerem Bilsel 8.20am Discussion

8.30am - 9.00am Instability

Moderator : Yoshikazu Kida

8.30am Soft Tissue Procedures DASS/New Techniques - Chi-Hao Chiu 8.40am Bony Procedures - Kevin Eng 8.50am Discussion

Hand and Upper Limb (Continued)

Moderator: Richard Page 9.00am - 10.00am Arthroplasty 9.00am RTSA/RSA in Young Active Individuals - Ken Cutbush 9.10am Is it a Panacea? Limitations of the RTSA - Tak Man Wong 9.20am Discussion

1.30pm - 2.00pm **Moderator: Raymar Sibonga** Trauma 1.30pm Distal Radial Fractures in the Elderly - When to Fix - Raymar Sibonga 1.40pm TFCC/Ligament Instability in Distal Radial Fractures - Greg Couzens 1.50pm Discussion

2.00pm - 2.30pm Scapholunate Instability

2.00pm New Concepts in Managing Scapholunate Instability - Roohi Ahmad 2.10pm Case Discussions - Greg Bain and Greg Couzens

2.30pm - 3.00pm Arthritis

2.30pm Thumb Base OA - Interposition - Jeremy Loveridge 2.40pm CMCJ Replacements - Greg Bain 2.50pm Discussion

4.00pm - 4.30pm Distal Humeral Articular Fractures Moderator - In-Ho Jeon 4.00pm The fixation of Distal Humeral Fractures - Simon MacLean 4.10pm Arthroplasty in the management of distal humeral fractures - In-Ho Jeon 4.20pm Discussion

4.30pm - 5.00pm **Chronic Issues**

- 4.30pm Severe Cubital Tunnel Syndrome Decompression Only vs Transposition vs Supercharge Nerve Transfer Margaret Fok 4.40pm Refractory Lateral Epicondylitis - it is Conservative vs Surgery - Angela Alder
- 4.50pm Discussion

Elbow Dislocation 5.00pm - 5.30pm

- 5.00pm Best Protocols for Conservative Management of elbow dislocations Ken Lee Puah
- 5.10pm When Operative Management is Required in elbow dislocations Oscar Brumby-Rendell,
- 5.20pm Discussion
- 5.30pm The Management of Terrible Triad Injuries of the Elbow What, When, Why? Greg Bain 5.50pm Discussion





Moderator: Margaret Fok

Moderartor: Kim Latendresse

Moderator: Cholawish Chanlalit

Moderator: Greg Bain

Infection Friday - 11 April 2025

1.30pm	- 3.30pm Moderators: Nusrat Kose, Kazi Shamim Uzzama
1.30pm	Welcome and Introduction - Syed Shahidul Islam
1.35pm	Keynote: Amputation and Osteointegration After TKA PJI Kevin Tetsworth
1.55pm	Spinal Infection: Treatment and Controversies - Syed Shahidul Islam
2.10pm	Implant Management in Early Fracture-Related Infections: Evaluating Retention vs. Removal
	Strategies - Nilo Paner
2.25pm	Infected Non- Union: Tips and Tricks - Mustafa Kavak
2.40pm	Unusual surgical site tubercular infection in Orthopaedic practice - Shah Alam
2.55pm	The role of local antibiotics in infections - William Steadman
3.10pm	Laboratory Diagnosis of Bone, Joint and Spine TB - Anil Jain
4.00pm	- 5.45pm Moderators: Syed Shahidul Islam & Michael Schuetz
4.00pm	To DAIR or not to DAIR in Early PJI: Current Guidelines - Harpal Singh Sehli
4.15pm	Reducing Prosthetic Joint Infection in Total Knee Arthroplasty: Advancements in Intraosseous
	Regional Prophylactic Antibiotics - Ben Parkinson
4.30pm	Revolutionizing Periprosthetic Joint Infection Management: Unveiling a Novel Knee Spacer
	Solution - Yuhan Chang
4.45pm	Local Antibiotic Delivery Options: What, When and How - Nusrat Kose
5.00pm	Advancing Orthopaedic Oncology: Insights from the PARITY Trial on Antibiotic Prophylaxis
	and its clinical impact - Raja Bhaskar

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5.15pm Post Arthroscopy Infections: Navigating Effective Treatment Guidelines and Optimising Management Protocols Aditya Menon

5.30pm Orthopaedic Infections - innovations and advances in clinical management Andrew Foster

Osteoporosis Friday - 11 April 2025

8.00am	- 10.00am	Moderators: Rajesh Malhotra and
8.00am	Pathways for	the management of Hip Fractures a
	Irewin Tabu	
8.15am	Tackling comp	plicated pertrochanteric fractures in
8.30am	Osteoporotic	vertebral fractures - Management
8.45am	Periprostheti	c fractures around the hip and knee
	elderly - Yew	Lok Woo
9.00am	Distal femora	I fractures - are they any less seriou
9.15am	Osteoporotic	humeral fractures - Ketan Pande
9.25am	Fragility fract	ures of the distal radius - Buland Th
9.40am	The evidence	for osteoposis drugs preoperatively
9.55am	Discussion	
1.30pm	- 3.30pm	Moderators: Rajesh Malhotra, Irev
1.30pm	Principles of	orthogeriatrics: Importance of coma
1.45pm	Perioperative	optimisation of elderly patients be
2.00pm	The evidence	for osteoporosis/anabolic drugs in
2.15pm	Case - Neck of	of femur fracture - Rajesh Mahotra
2.25pm	Pertrochante	ric fracture - Ketan Pande
2.35pm	Treatment fai	lure after a fracture- could it be wo
2.45pm	Summary	
2.55pm	Fragility fract	ures the orthopaedic solution - Ch
3.10pm	The detection	of those at risk for Fragility Fractures

3.25pm Discussion



Artificial Intelligence, Robotics and Mixed Reality

d Chris Wall

and quality indicators for hip fracture care

n the elderly - tips and tricks - Rajesh Malhotra t principles - Zairin Noor Helmi e implants - Fix vs Replace in the

ous? - Seth Tarrant

hapa ly to promote bone healing - Esther Brigante

win Tabu and Sonali Pande

anagement and early surgery - Irewin Tabu efore surgery - Ketan Pande delayed/nonunion - Ester Brigante

orse? - Seth Tarrant

nris Wall

and their medical management - Ester Brigante

Spine Friday - 11 April 2025

8.00am - 9.30am **AIS Case Discussions** 8.00am Case A: AIS 20°, Peak Height Velocity 8.05am Bracing - Wong Yat Wa 8.15am Tether - Jason Cheung 8.25am Discussion

8.35am CASE B: AIS 40° at Peak Height Velocity 8.40am Non-fusion - Michael To 8.50am Fusion Done - Gune Chang 9.00am Discussion

9.10am CASE C: AIS Lenke 1C Panel discussion of Case(s) All Panel Moderators: MK Kwan and Jason Cheung

Moderators: MK Kwan and Jason Cheung

Moderators: MK Kwan and Michael To

Sports Friday - 11 April 2025

8.00am	- 9.30am All About the Knee Moderators: Er
8.00am	Welcome remarks - Enrique Leonardo C. Pasion
8.05am	Choices and harvesting techniques – Carlo Arada
8.10am	ACLR - Dilbert Monicit
8.15am	ACL Repair – Tang Ha Nam Anh
8.20am	Revision ACLR - Andri Lubis
8.25am	LET/ALL - Tim Whitehead
8.30am	PCL/PLC - Lia Marliana
8.35am	MCL - Sonali Pande
8.45am	Multi-ligaments - Tony San Juan
8.50am	Return to Play post ACLR - Enrique Leonardo C Pa
8.55am	Panel discussion

9.05am Keynote Presentation: Anatomy of ITB in relation to LEAT or Evolution of ACL Reconstruction Through the Years - Hayden Morris

1.00pm – 3.15pm Joint Preservation

1.00pm	Meniscus	Moderators: To
1.00pm	Management of meniscus tears? -	Kiki Novito
1.15pm	How to increase success rate of me	eniscal repair –Is
1.30pm	Techniques on root repair and ramp	o lesion – Timot l
1.45pm	Bucket handle tear – Ricky Edwin I	Pandapotan Hut

2.00pm	Cartilage Mo	derator: Fra
2.00pm	Tissue engineering: conventional scaffo	ld or 3D prin
2.15pm	Cell therapy: stem cell: which one is the	e best? - Ba
2.30pm	Growth factor: autologous PRP or fibrir	ogen plus H
2.45pm	Cartilage repair surgery: Where we are?	' – Francis V
3.00pm	Growth factor for Cartilage Regeneration	on – Rizal Re



Artificial Intelligence, Robotics and Mixed Reality



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YS Leadership Friday - 11 April 2025

8.00am - 10.00am **YSF Leadership Session Moderator: Yudha Mathan Sakti** 8.00am Welcome - Yudha Mathon Sakti 8.05am The importance of the YSF in the APOA - Jamal Ashraf 8.15am How to action your ideas in the APOA - David Choon 8.25am The importance of an APOA Mentor - Onder Aydingoz 8.35am Discussion 8.45am The importance of the YSF in attracting young people to the APOA - Nicolaas Budhiparama 8.55am How to publish in the APOA newsletter - Raja Bhaskar 9.05am How I joined the Board of the APOA - Frederic Joseph Diyco 9.15am How to get involved with the APOA26 Congress program - Sachin Tapasvi 9.25am Discussion 9.35am Why is the AO strengthening it relationship with the APOA - Tim Pohlemann 9.45am Which programs does AO Access provide? - Florian Gebhard 9.55am Discussion

4.00pm - 5.30pm

YSF LEADERSHIP PROGRAM

Young Ambassadors speak about Orthoapedics in their country

Moderator: Yudha Mathan Sakti

4.00pm Welcome - Yudha Mathan Sakti 4.05pm Australia - Nicholas Jorgensen 4.10pm Bangladesh - Abdullah Al Mamun Choudhury 4.15pm China - Houyi Sun 4.20pm Hong Kong - Janus Wong Siu Him 4.15pm Discussion 4.25pm India - Rashid Anjum 4.30pm Indonesia - Imelda Ola 4.35pm Japan - Tanaka Keisuke 4.40pm Pakistan - Syed Akmal Sultan 4.45pm Discussion 4.55pm Korea - Jong Ho Kim 5.00pm Malaysia - Amber Haseeb 5.05pm Nepal - Sunil Thapa 5.10pm Pakistan - Osama Bin Saeed 5.15pm Philippines - Abigail Rivera Tud 5.20pm Discussion 5.30pm Saudi Arabia - Aisha Mousa 5.35pm Singapore - Lynn Thwin 5.40pm Taiwan - Chih Kai Hong 5.45pm Turkey - Muhammed Yusuf Afacan 5.50pm Discussion and Closing Comments







SATURDAY - 12 April 2025







12.30pm	APOA Australia Chapter Chair - Sue Liew	
12.35pm	APOA Incoming President - Nicolaas Budhiparama	
12.40pm	APOA25 Congress President - Marinis Pirpiris	
12.45pm	APOA26Congress President - Ram Chaddha	
12.50pm	Presentation of Paper Prizes	
1.00pm	Acknowledgement of Sponsors	

Hip	8
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Oncology	8
Spine	8
Sports	8
Trauma	8

Refer to following pages for concurrent session programs



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8am - 12.30pm

8am - **12.30**pm

8am - 12.30pm

am - 10am | 10.30am - 12.30pm

am - 10am | 10.30am - 12.30pm

Hip Saturday - 12 April 2025

8.00am -10.30am

Hip Section III : Perioperative Management & Complications in THA Moderators: Abhay Elhence, Boopalan Ramasamy

Lecture

8.00am ERAS protocol in THA: Basic and the Update - Sol Qurashi 8.08am Are Hip precautions still necessary after THA - Simon Coffey What is the Update in the Prevention and Diagnosis of PJI - Yuhan Chang 8.16am Periprosthetic Fracture Management: What is the Update ? - Amin Chinoy 8.24am 9.02am Discussion

Surgical Technique & Tips

9.10am Video I : How to do a DAIR in infected THA - Minjae Lee

- 9.18am Video II: How to Make Antibiotic-Loaded Spacer in THA Cheng-Fong Chen 9.26am Video III: How to revise Vancouver B3 Fractures in THA - Rajeev Sharma
- 9.34am Discussion

Debate: Revision in Infected THA

9.42am One Stage PJI Revision should be considered for Everyone - David Campbell 9.47am Two Stage PJI Revision should be the norm for Everyone - Faith Kucukdurmaz

9.52am Crossfire & Discussion - Fares Haddad, Dario Garin, Yuhan Chang

Case Presentation

10.00am Complications in THA - Kyung-Soon Park Discussion Panellists: Fares Haddad, Cheng-Fong Chen, Minjae Lee, Rajeev Sharma, Faith Kucukdurmaz, David Campbell, Yuhan Chang, Minjae Lee, Simon Coffey 10.20am Take-Home Message - Abhay Elhence

10.30am - 12.30pm Hip Section IV :Cutting-Edge Technologies in THA -What will be the future ? Moderators: Lewis Chan, Dermot Collopy

- 10.30am Navigation in THA Josh Petterwood
- 10.38am 3D printing in THA Michael Wyatt
- 10.46am Wearable Technology in THA Bogdan Solomon
- 10.54am AR/VR/MR technology in THA Dermot Collopy
- 11.02am Artificial Intelligence in THA Lawrence Lau
- 11.10am Telemedicine in THA Peter McEwen
- 11.18am Robotic-assisted technology in THA Dirk van Bavel
- 11:26am Robot Revolution : What's the recent trend in China ? Tang Hao
- 11.34am Green Orthopaedics Amy Cheung
- 11.42am Panel Discussion What technologies are going to stay All speakers

11.50am Keynote Lecture: What will be the future of THA ?- Fares Haddad

12.20pm Discussion & Closure - Lewis Chan



Knee Saturday - 12 April 2025

8.00am - 9.00am **Cartilage Management: Current Concepts** Moderators: Denny Lie, Young-Mo Kim, Cheng-Fong Chen

8.00am Cartilage defect: Assessment (radiological and clinical) Classification- Ricky Hutapea 8.10am Surgical strategies for cartilage defects-Denny Lie 8.20am Microfracture, drilling, mozaicplasty-Sinan Karaoglu 8.30am Techniques based on chondrocyte implantation-Young-Mo Kim 8.40am Mesenchymal stem cell induced chondrogenesis (MCIC)- Abhishek Vaish 8.50am Discussion

9.00am - 10.00am **Case discussions on Osteotomy/UKA** Moderator: Peter McEwen

10.30am - 12.20pm Revision TKA Session

Moderators Peter McEwan, Jae-Ang Sim, Pei Yang 10.30am Early revision: What is the real value of DAIR (Indications and limits)- Nicolaas Budhiparama 10.40am Management of bone deficit in revision TKA - K.M. Ponnanna 10.50am Exposure and component removal in revision - Supreet Bajwa 11.00am Soft tissue management in severe deformity - Jae-Ang Sim 11.10am Implant selection in revision TKA - Jong-Keun Seon 11.20am Conversion of failed UKA to TKA: Tips and tricks - Adarsh Reddy 11.30am Infection after TKA: One or two stage revision - Ricky Hutapea 11.40am Discussion

12.20pm Closure - Nicolaas Budhiparama

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SATURDAY - 12 April 2025

Oncology Saturday - 12 April 2025

8.00am - 9.10am	Approach to commonly encountered lesions in everyday orthopaedic practices Tips from the specialists - Case based discussion of lesions seen in common
	orthopaedic practice Moderator: Manish Agarwal
	Faculty: Peter Choong, Peter Steadman, Shekhar Kumta, Claudia Di Bella,
	Ashish Gulia, Masood Umer, Wan Faisham, Zeeshan Khan

9.25am - 10.35am Digital technology for productivity Moderators: Neeraj Bijlani and Ashok Shyam

- 9.25am Welcome and overview of Al's role in orthopedics. Neeraj Bijlani and Ashok Shyam
- 9.30am AI in Clinical Practice. Uses of ChatGPT for documentation, patient education, and decision support. Ethical considerations and limitations. TBA
- 9.40 am Al in Research Literature review, data analysis, and image interpretation. TBA
- 9.50 am Presentation of OrthoAI Key features and live demo. Applications in surgical planning and outcome tracking. TBA
- 10.00am Conclusion and Recap TBA
- 10.05am Discussion and audience interaction
- 10.25am Lecture: Functioning muscle transfer TBA

10.50am - 12.00pm Pelvic 3D Printed Prosthesis

Moderator: Peter Choong

- 10.50am Use of 3D printed prostheses. Things to consider. Peter Choong
- 11.00am A new classification of pelvic resections. Considering pelvic prostheses. Richard Boyle
- 11.10am The place of industry in supporting surgical advancement. Bethany Oates
- 11.20am What are the alternatives. Toru Akiyama
- 11.30am Panel Discussion

Spine Saturday - 12 April 2025

8.00am	- 10.00am	AO Spine Seminar	Moderator		
8.00am	Providing Sp	inal care to the North f	rom the South of Au		
8.10am Enabling Technology for Paediatric Spinal Surgery De					
	Jason Cheun	g, Ashish Diwan, Grace	e Zhang		
8.20am	Spinal Sports	Injuries in Children +	How to manage the		
8.30am	Discussion				
8.50am	Regeneration	n of the Disc ; Asia Pac	will Lead - Daisuke		
9.00am	Spinal Tumor	s New developments -	- Case Series- Mitcl		
9.10am	Spinal deform	nities in MPS - Nicole	Williams		
9.20am	Discussion				
10.200	10.000	Technique \/ideaa	Madavatav		

10.30am -12.20pm Technique Videos 10.30am Jason Cheung 10.50am Kamran Faroque 10.20am Daisuke Sakai 11.40am Dong-Gune Chang 12.00pm Yudha Mathan Sakti

12.20pm Closure MK Kwan and Brian Hsu

Sports

Saturday - 12 April 2025

8.00am - 10.00am Patellofemoral Instability

8.00am Algorithm to manage PFI - Mohammad Kazim Rahim 8.15am 1st time dislocator - Đỗ Văn Lợi 8.30am Isolated MPFLR - Carmelo Braganza 8.45am TTO - Charanjeet Singh 9.00am High grade trochlear dysplasia - Simon Tan 9.15am Discussion

10.30am - 12.15pm Others

Moderators: Parminder Singh, Arvind Puri, 10.30am The Bakers Cyst. Discussion and Treatment - Hayden Morris

- 10.45am Overused injuries of the elbow Wen-Yi Chou 11.00am Hip arthroscopy - Parminder Singh
- 11.15am Clinical and radiological signs of FAI En Rung Chiang
- 11.30am Updates of hip arthroscopy for labral repair and FAI Yi-Sheng Chan 11.45am Achilles tendon tendinopathy to ruptures: Management (conservative to surgical) - Arvind Puri
- 12.00pm Haglund's deformity and its management Carlo Borbon



Artificial Intelligence Robotics and Mixed Reality



r: Michael To

Australia Logistics and Case series – Aaron Stevenson loying real AI for monitoring and follow up -

e TV News Media – **Meenu Shanmugum**

e Sakai and Ashish Diwan chell Hansen and Catherine Cartwright

Moderators: Jason Cheung and Brian Hsu

Moderators: Charanjeet Singh and Simon Tan

Trauma

8.00am - 10.00am Tips and Tricks Upper Limb **Moderators Christian Farng and Adel Belen** 8.00am 3D Printing in the fixation of upper limb fractures - Christian Farng

- 8.20am Proximal Humeral Fractures Saeed Al Thani
- 8.40am Humeral Shaft Fractures Luis Padila
- 9.00am Distal Humeral Fractures Ajeet Tiwari
- 9.20am Terrible Triad Injuries Minoo Patel
- 9.40am Distal Radial Fractures Melanie Amarsuriya
- 9.50am Discussion

10.30am - 12.30pm Tips and Tricks

Moderators: Anup Agrawal, Lia Marliana and Chun-Hao Tsai

- 10.30am Nailing for Subtrochanteric Fractures Diarmud Murphy
- 10.45am Suprapatellar Nailing of the Tibia Peter Giannoudis
- 11.00am MIPO Plating of Tibial Metaphyseal Fractures & Nailing of Tibial Metaphyseal Fractures Ram Prabhoo
- 11.15am Combined Nail-Plating of Tibial Fractures Richie Diyco
- 11.30am Plating of Tibial Plafond Fractures Harpal Singh Sehli
- 11.45pm Complex Malunions of the ankle Siddartha Sharma
- 12.00pm Complex Midfoot Fractures Gow Thevendran
- 12.15pm Closure Anup Agrawal









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