

**ASM**



**MAKING DATA THE SOLUTION**  
13–17 October, Brisbane, Queensland



# Provisional Program



# Michael Johnson

## President

In an era driven by technology and innovation, harnessing the power of data has become paramount in advancing orthopaedic medicine and improving patient outcomes.

The increasing size of databases and the ubiquity of the internet and digital devices is transforming the ease with which digital health information can be collected. Added to this, the increasing sophistication of artificial intelligence, data linkage and predictive analytics will greatly expand the ways this data is used. On top of these changes are the demographic challenges of delivering healthcare to an ageing population.

The combination of these and other factors will mean that the greater use and manipulation of data in future health-care is inevitable. These changes will be innumerable, ranging from intelligent machines – which will likely replace note taking and letter writing, suggest appropriate diagnoses and assist management – to the routine collection of outcome measures. Meanwhile, the battle over what constitutes low-value care will take on new dimensions.

How these changes manifest, who owns the data and who controls the algorithms will be some of the ethical issues of the future. There are so many nuances to the discussion of the use of data in healthcare that we have had to make some decisions about content. The focused program of plenaries and discussions that has resulted will feature a stimulating selection of speakers about an area that is going to have an ever-increasing impact on medical and surgical practice.

Together, let us make data the solution and explore the transformative power of data in orthopaedic healthcare.

I look forward to seeing you in Brisbane.



# Ken Cutbush

## Scientific Secretary



Building on the success of our record-breaking 2023ASM, we're thrilled to invite you to another unforgettable gathering of orthopaedic experts, international guests, and the orthopaedic community at large.

Expect the same exceptional quality and engaging content that made the 2023ASM such a hit.

Our program will feature educational sessions tailored for trainees, junior doctors, and medical students, alongside daily concurrent free papers covering all subspecialties.

Plus, we're enhancing the experience with more:

- case discussions,
- interactive clinical lectures,
- and renowned Australia and International keynote speakers.

Under the theme "Making Data the Solution," we'll delve into the crucial role of data in modern medical and surgical practice—a timely and vital topic for our field and beyond.

Secure your spot now for what promises to be one of the standout events of 2024.

We can't wait to welcome you to Brisbane and explore the future of orthopaedics together!

## HIGHLIGHTS FOR 2024

### EDUCATION SESSIONS

Monday 14 October - Thursday 17 October 2024

7.00am - 8.00am

Hand | Paediatrics | Arthroplasty | Sports Knee

Education Sessions are primarily aimed at trainees however it will be open to all meeting registrants including consultants and non-training registrars. The Education Sessions will take the form of cases and Q&A.

### STATE OF ORTHOPEDIC ORIGIN QUIZ

Monday 14 October 2024

5.30pm - 6.30pm

Get ready for the excitement - It's back! The 2023 Champions are gearing up to defend their title. Don't miss out!

### OWL Soiree

Tuesday 15 October 2024

5.30pm - 6.30pm

Join us for an hour of networking with your colleagues, featuring a keynote presentation by Deborah Lawrie, Australia's first female pilot.

## REGISTER

4 days secure

30 CPD hours



# VENUE

Brisbane Convention & Exhibition Centre is situated in the cultural and entertainment precinct of South Bank, conveniently located near the central business district. Internationally recognised as the world's best convention centre for 2016-2018, Brisbane Convention & Exhibition Centre is Australia's most awarded meetings and events venue and has hosted a collection of local and international conventions, including the 2014 G20 Summit.

Brisbane Convention & Exhibition Centre offers an inspirational learning environment in a marvelously designed space. The relaxing environment encourages open engagement for academic minds, researchers, medical innovators and social theorists.



# SOCIAL FUNCTIONS

## Sunday 13 October 2024

Presidents Reception

Time: 7.00pm - 9.30pm

Venue: Queensland Art Gallery - Watermall

Dress: Smart Casual

(Included in registration, select to attend when registering)

## Monday 14 October 2024

Presidents Dinner

(Invitation only)

## Tuesday 15 October 2024

OWL Soriee

Time: 5.30pm - 6.30pm

Venue: Brisbane Convention & Exhibition Centre

## Wednesday 16 October 2024

Gala Dinner

Time: 7.00pm - midnight

Venue: Tivoli

Theme: Step Back in Time: A 70's Extravaganza - Dress Up and Dance the Night Away!!  
EXCITING NEWS - The triumphant comeback of our esteemed 2023 ASM Gala  
Dinner Band - COVERED UP - will entertain you again!!!

(Register to attend: Cost \$240)

# ASM



# 24

# MAKING DATA THE SOLUTION

13–17 October, Brisbane, Queensland



Sunday  
13 October 2024

Monday  
14 October 2024

Tuesday  
15 October 2024

Wednesday  
16 October 2024

Thursday  
17 October 2024

**Education Sessions**

Hand Paediatrics Arthroplasty Sports Knee

**Free Paper - Concurrent Sessions**

General Trauma Arthroplasty x 2 Paediatrics Arthroplasty x 2 General Arthroplasty x 2 Sports Knee

Morning Tea

Opening Ceremony

ANZORS  
Arthroplasty  
Medico Legal  
Outreach

NJRR Plenary

Arthroplasty - Knee  
General

Lunch

Foot and Ankle  
Hand  
Trauma

Arthroplasty  
APOA  
Limb Reconstruction

Plenary - Making Data  
the Solution

Arthroplasty - Hip  
General - Best Papers |  
Research Foundation | ABC  
Sports Knee

Afternoon Tea

Finish

Registration

Hand  
Spine  
Trauma

Plenary - Paediatrics

AOA Business  
AOA Fellowships &  
Award Ceremony

State of Orthopaedic  
Origin Quiz

OWL Soriee

Presidents Reception

Presidents Dinner  
(Invite only)

Industry Dinners

Gala Dinner

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# Provisional Program

**84th Australian Orthopaedic Association  
Annual Scientific Meeting  
13-17 October 2024**

**Brisbane Convention & Exhibition Centre  
Brisbane, Queensland, Australia**



**AOA**  
AUSTRALIAN  
ORTHOPAEDIC  
ASSOCIATION

**MONDAY 14 October 2024**

## Opening Ceremony 10.00am - 12.00pm

- 10.00am Welcome to Country/Australian National Anthem
- 10.05am Welcome AOA President - Michael Johnson
- 10.10am Welcome AOA Scientific Secretary - Ken Cutbush
- 10.15am Premier Sponsor - DePuy Synthes  
Platinum Sponsors - Smith & Nephew, Stryker, Zimmer Biomet
- 10.20am AOA 21 Review Update - Bryan Ashman, AOA Dean of Education
- 10.30am AOA President Keynote Speaker - Louisa Jorm, Director, Centre for Big Data Research in Health, UNSW
- 11.00am AOA President Keynote Speaker - Simon Kos, Chief Medical Officer, Microsoft Australia New Zealand
- 11.30am AOA President Keynote Speaker - Simon Longstaff, Executive Director, The Ethics Centre



**OPENING CEREMONY**



**AOA NJRR Plenary 10.00am - 12.00pm Moderator: Paul Smith**

10.00am	Welcome	Paul Smith
10.05am	New Chapter	Michael Mcauliffe
10.15am	Discussion	
10.20am	Knee arthroplasty update	Chris Vertullo/ Peter Lewis
10.30am	Hip arthroplasty update	James Stoney
10.40am	Shoulder arthroplasty update	David Gill
10.50am	Ankle arthroplasty update	Peter Stavrou
10.55am	Discussion	
11.00am	PROMs Programme	Peter Lewis
11.10am	Registry Nested Clinical Studies	Chris Wall
11.20am	ANZHFR	Michael Wyatt
11.25am	Ad hoc data requests and publications	Michael Mcauliffe
11.35am	Knee osteotomy and planned ACL Registry update	Chris Vertullo
11.40am	Registry 2024 and beyond	Paul Smith
11.45am	Discussion	



In an era driven by technology and innovation, harnessing the power of data has become paramount in advancing orthopaedic medicine and improving patient outcomes.

The increasing size of databases and the ubiquity of the internet and digital devices is transforming the ease with which digital health information can be collected. Added to this, the increasing sophistication of artificial intelligence, data linkage and predictive analytics will greatly expand the ways this data is used. On top of these changes are the demographic challenges of delivering healthcare to an ageing population.

**Theme: Making Data the Solution 1.00pm - 3.00pm**

1.00pm	How the value is determined and what value is acceptable Danny Liew - Dean of Medicine and Head of School, Adelaide Medical School, The University of Adelaide
1.25pm	Keeping an eye on AI use and risks in healthcare Fiona Maclean - Pathologists, Franklin AI
1.50pm	Modern mathematical techniques to analyse healthcare datasets Dimetre Perin Associate Professor, School of Computer Science at the Queensland University of Technology
2.15pm	Improving orthopaedic care with data analysis Kevin Bozic- President, American Academy of Orthopaedic Surgeons
2..40pm	Panel discussion

**Michael Johnson**  
AOA President  
Moderator



# MONDAY 14 October 2024

1.00pm - 3.00pm **Foot & Ankle**

Moderators: **Sonja Schleimer & Peter Stavrou**

- 1.00pm Invited Guest Speaker - Jonny Sharr - Management of ankle arthritis in RA : replacements v fusion.**
- 1.20pm **James Barnett** - The use of Membrane Induced Osteogenesis for Bone Defects in the Foot and Ankle
- 1.30pm **Daniel Hill** - What is a tibial Pilon fracture and how should they be acutely managed? A survey of foot and ankle specialists and non-specialist consultant surgeons
- 1.40pm **Daniel Hill** - The acute management of Pilon fractures (ENFORCE) Study: A national evaluation of practice in the United Kingdom.
- 1.50pm **Naveen Mareddy** - Post-operative functional outcomes in patients with retained syndesmosis screws compared to patients who have undergone removal
- 2.00pm **Aarohan Raguragavan** - Lateral plate versus lag screw only fixation of unstable distal fibula ankle fractures: a systematic review
- 2.20pm **Jordy White** - Effectiveness of radiotherapy in the treatment of plantar fibromatosis
- 2.30pm **TBA** - Best registrar / fellow paper 2024AOFAS ASM
- 2.40pm Invited Guest Speaker - Jonny Sharr - Ankle fracture management in 2024 : anything new?**



**Invited Guest Speaker  
Jonny Sharr  
New Zealand**

# MONDAY 14 October 2024

7.00am - 8.00am **Hand**

**Education Sessions Case Discussions Panel: TBA**

1.00pm - 3.00pm **Hand**

**Moderator: TBA**

- 1.00pm Invited Guest Speaker - Martin Caloia**
- 1.20pm **Alex Buxton** - 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
- 1.30pm **Annora Ai-Wei Kumar** - Surgical management of thumb carpometacarpal osteoarthritis: A systematic review, network meta-analysis, and longitudinal analysis of surgical complications.
- 1.40pm **Susie Lee** - Developing a patient-specific surgical cutting guide for iliac crest bone graft harvesting using computer aided design software: proof-of-concept study
- 1.50pm **Greg Couzens** - Pattern of Capsular Ligament Injuries in Scapholunate Ligament Injuries
- 2.00pm **Mark Ross** - Modular Approach to Carpal Instability
- 2.10pm **Michael Sandow** - Carpal Mechanics and the stable central column
- 2.20pm **Greg Bain** - New concepts in the assessment and management of carpal instability
- 2.30pm **Libby Anderson** - TBA
- 2.40pm **Steve Frederiksen** - Ulnar sided wrist pain
- 2.50pm Invited Guest Speaker- Martin Caloia**

3.30pm - 5.30pm **Hand**

**Moderator: TBA**

- 3.30pm Invited Guest Speaker - Martin Caloia**
- 3.50pm **Tanya Burgess** - Dupuytren's disease and role of radiation therapy
- 4.00pm **Greg Couzens** - Intramedullary fixation for metacarpal and phalangeal fractures
- 4.10pm **Steve Frederiksen** - Intramedullary nailing in athletes
- 4.20pm **Greg Bain** - The role of advanced surgical training models in developing wrist surgery
- 4.30pm Invited Guest Speaker- Martin Caloia**
- 4.50pm **Case based discussion - Panel: Martin Caloia, Greg Couzens, Greg Bain, Tanya Burgess and Mark Ross**



**Invited Guest Speaker  
Martin Caloia  
Argentina**

# MONDAY 14 October 2024

8.00am - 9.30am **Trauma Free Paper**

**Moderator: tbc**

- 8.00am **Mark Bowditch** - Keynote speaker - President, British Orthopaedic Association
- 8.30am **Drew Tarrant** - The incidence of unplanned return to the operating room and the natural history of inflammatory marker trends after pelvic and acetabulum fracture surgery
- 8.40am **Kevin Tetsworth** - Group Pile Theory: implications for Optimised Fracture Fixation
- 8.50am **Kevin Tetsworth** - Definitive Treatment Alternatives After First Stage Masquelet: Various Treatment Options and the Clinical Outcomes Associated
- 9.00am **Kevin Tetsworth** - Using Biomimetic Hematoma as an Autologous Carrier for rh-BMP2 Delivery to Potentiate Healing of Complex Bone Injuries: Preliminary Clinical Series to Assess Safety and Efficacy
- 9.10am **Nymke Trouwborst** - 3D fracture assessment is predictive of native hip survivorship after nonoperative treatment of acetabular fractures
- 9.20am **Simon Thwaites** - Conventional PROMs may be unable to discern differences in patient outcomes between tibial nailing approaches: interim results from a pilot RCT comparing suprapatellar versus infrapatellar nailing at 3 years of recruitment and 18 months follow-up

1.00pm - 3.00pm **Trauma Around the world**

**Moderator: tbc**

- 1.00pm **Emil Schmetisch** - Keynote speaker - Orthopaedic Trauma Association
- 1.30pm **Douglas Lundy** - Keynote speaker - Orthopaedic Trauma Association
- 2.00pm **Len Marais** - Keynote speaker - South African Orthopaedic Association
- 2.30pm Invited Guest Speaker - Frank Liporace, USA**

3.30pm - 5.30pm **AOTrauma International Symposium**

**Moderator: tbc**

- 3.30pm **Pierre Guy** - Keynote speaker - Canadian Orthopaedic Association
- 4.00pm **Marinis Pirpiris** - Data Driven Change in Trauma Outcomes
- 4.30pm **TBA** - Keynote speaker - AO Trauma Asia Pacific
- 5.00pm **Jamal Ashraf** - Keynote speaker - Asia Pacific Orthopaedic Association



**Invited Guest Speaker  
Frank Liporace  
United States**

# MONDAY 14 October 2024

3.30pm - 5.30pm **Spine**

**Moderators: TBA**

TBA





# Monday 14 October 2024

## 8.00am - 9.30am General Free Papers - Shoulder/Elbow

Moderators: TBC

- 8.00am **Christopher Child** - Quantifying The Difference In Glenoid Component Position Between Total Shoulder Arthroplasty And Reverse Shoulder Arthroplasty
- 8.05am **Chaiwat Chuaychoosakoon** - The safe distances in coracoclavicular stabilization of high-grade acromioclavicular joint injury: A cadaveric study
- 8.10am **Filip Cosic** - Predictors of failure of locking plate fixation in proximal humerus fractures
- 8.15am **Ali Kalhor** - Performing Laterjet procedure in lateral decubitus position, improved graft positioning.
- 8.20am **Joseph Latif** - Postoperative Pain and Paresthesia in Labral Repairs of the Shoulder - Location does matter
- 8.25am **Joseph Latif** - Pain, paresthesia, and the rotator cuff: the prevalence and magnitude of shoulder pain and hand numbness and tingling before and after rotator cuff repair
- 8.30am **Ciaran Mc Donald** - Biomechanical evaluation of the double row knotless "Montgolfier" rotator cuff repair
- 8.35am **Roger Pillemer** - Avoiding Unnecessary Shoulder Surgery
- 8.40am **Syed Mohammed Taif Rizvi** - The Prevalence of Arm Paraesthesias in Disorders of the Shoulder
- 8.45am **Hardev Sandhu** - Synthetic PTFE Interposition Patches for Irreparable Rotator Cuff Tears - How Are They Doing?
- 8.50am **Brandon Ziegenfuss** - The clinical course and outcomes following arthroscopic frozen shoulder 360° release
- 8.55am **Jonghoo Sung** - Gunshot Injuries Resulting in Arthroplasty: A Literature Review and Case Report Resulting in a Megaprosthesis
- 9.00am **Madeline Temple** - Glenoid bone grafting in reverse total shoulder arthroplasty with rotating baseplate: A case series
- 9.05am **Benjamin East** - Redefining Shoulder Range of Motion Assessment with AI
- 9.10am **Benjamin Kenny** - Clinical Accuracy of Patient-Specific Humeral and Glenoid Guides in Total Shoulder Arthroplasty
- 9.15am **Benjamin East** - Deciphering anterior shoulder pain after total shoulder arthroplasty: a simulation model for conjoint tendon impingement
- 9.20am **Jashint Maharaj** - Improving data capture using digital health technology to improve patient care and outcomes after shoulder surgery
- 9.25am **Kristine Italia** - Reverse shoulder arthroplasty in acute proximal humeral fractures - the DFER approach.



# Wednesday 16 October 2024

## 8.00am - 9.30am General Free Papers - Shoulder/Elbow/Tumour/General

Moderators: TBC

- 8.00am **Ashish Gupta** - Establishing Discharge Criteria after Shoulder Surgery using Patient Engagement and Data Collection Platform
- 8.05am **Ashish Gupta** - Clinical outcomes after reverse shoulder arthroplasty in patients from regional and metropolitan Australia: the use of digital health technology for equitable healthcare delivery
- 8.10am **Ashish Gupta** - The impact of a digital health platform for enhanced data collection in workers' compensation patients after shoulder
- 8.15am **Laith Alzubaidi** - Personalised approach to patients with rotator cuff tears through data-driven machine learning for decision-making
- 8.20am **Laith Alzubaidi** - Trustworthy deep learning framework for the detection of abnormalities in shoulder x-ray images
- 8.25am **Ignacio Viedma** - Automated segmentation of scapula and humerus using deep learning: a tool for surgical planning
- 8.30am **Laith Alzubaidi** - SSP: Self-supervised pertaining technique for classification of shoulder prostheses in x-ray medical images
- 8.35am **Asma Salhi** - Enhanced deep feature fusion for the automated quantification of the fatty infiltration of the rotator cuff muscles using MRI
- 8.40am **Luke Gilliland** - The use of data analytics for personalized healthcare in shoulder surgery luke@akunah.com
- 8.45am **Liam Fernando-Canavan** - Health economics and cost-effectiveness of 3D-printing in orthopaedic oncology surgery.
- 8.50am **Mason Jong** - The complication profile of metastatic femoral lesions treated with intramedullary nail fixation: A review of 127 cases
- 8.55am **William McNamara** - A 10-year review of over 350 cases using a traditional then altered antibiotic protocol for tumour megaprotheses.
- 9.00am **William Collins** - Surgical planning in pelvic reconstruction: A classification system for pelvic implants
- 9.05am **Huynh Nguyen** - 3D Virtual Tissue Bank for Patient-Specific Allograft Auto Selection
- 9.10am **Suzen Agharia** - The ability of artificial intelligence tools to formulate orthopaedic clinical decisions in comparison to human clinicians: An analysis of ChatGPT 3.5, ChatGPT 4, and Bard
- 9.15am **Anum Awais** - From Bones to Bump: Pregnancy Insights from an Orthopaedic Service Registrar - Navigating the Expectations, Challenges, and Surprises
- 9.20am **Elias Awwad** - Surgical Units Mortality and Morbidity Meetings - Can we do better?
- 9.25am **Joshua Petterwood** - Strong for Surgery: Applying international evidence in an Australian private practice multi-centre pilot



# Thursday 17 October 2024

## 10.00am - 12.00pm General Free Papers

Moderators:

- 10.00am **Lawrence Baartz** - Gold standard or fool's gold? A critique on a sentinel randomized control trial investigating use of intravenous versus oral antibiotics in bone and joint infection based on 2010 CONSORT criteria and clinical biostatistical analysis
- 10.05am **Daniel Brimm** - The Epidemiology of Surgical Intervention for Sports Related Injuries in Queensland
- 10.10am **Anthony Cadden** - Exploring Large Language Models in Orthopaedics : How do we effectively work with a black box?
- 10.15am **Meghan Dares** - Patient satisfaction with a integrative multi-disciplinary model of patient care
- 10.20am **Clara Freeman** - Barriers and facilitators for female practitioners in orthopaedic surgical training: a scoping review
- 10.25am **Bree Gardoll** - Optimisation of telehealth for accessible rural orthopaedic care
- 10.30am **Aiden Jabur** - Impact of opioid-free analgesia on pain severity and patient satisfaction after discharge from surgery: multispecialty, prospective cohort study in 25 countries
- 10.35am **Liu Yu** - Florid Recurrent Synovial Chondromatosis in the Knee
- 10.40am **Joe Lynch** - Automated assessment of lower-limb alignment from long-leg x-rays using machine learning
- 10.45am **Benjamin McElwee** - Connected Care: Implementing 6 week post-arthroplasty discharge followed by routine telehealth follow-up
- 10.50am **Thomas O'Donnell** - Outcomes of Group A Streptococcal musculoskeletal infections in patients presenting to an Australian tertiary hospital from 2019 to 2023: A Retrospective Observational Review
- 10.55am **Takahisa Ogawa** - Effect modification by BMI between general versus spinal anaesthesia and in-hospital mortality after hip fracture surgery
- 11.00am **Munjed Al Muderis** - Role of 3D modelling in an accurate deformity assessment and correction
- 11.05am **Jennifer Green** - Sex And Gender Bias In Orthopaedic Research And Mitigating Strategies
- 11.10am **Munjed Al Muderis** - Osseointegration for diabetic patients: the risk of Infection versus the reward of mobility
- 11.15am **Naomi Pinto** - Domestic violence injuries in Australian orthopaedic clinics Uncommon, Under-Reported or Under-Recognised?
- 11.20am **Antony Rapisarda** - Validation of a novel genomic-based host response assay, Synvichor, for Discriminating septic from aseptic joint pain.
- 11.25am **John Cunningham** - Effect of humidified warmed air on the surgical incision during spinal surgery: an animal model of bacterial load
- 11.30am **Joseph Baker** - The delivery of humidified, warmed air to the surgical site during spinal surgery: findings from a first in human clinical trial
- 11.35am **Joseph Baker** - Effect of humidified warmed air on the surgical incision during spinal surgery: an animal model on tissue health
- 11.40am **Ryan Ting** - REAM IT (REsilience, Activity and MIndseT): A survey of doctors from different generations and specialities
- 11.45am **Phong Tran** - Williamstown On-Time Start Project: A Systematic Approach
- 11.50am **Peter Walker** - How to Develop and Protect an Invention
- 11.55am Finish

## 1.00pm - 3.00pm

Best State Papers | Reserach Foundation Papers | ABC

Moderator: Ken Cutbush





# Tuesday 15 October 2024

**7.00am-8.00am Paediatrics Education Sessions - Cases Panel:**

**8.00am 9.30am Paediatrics Free Paper Session Moderator**

8.00am **Joe Baker** - Cervical spine canal dimensions in children: CT analysis and impact of ethnicity from a New Zealand cohort  
 8.10am **Michael Dan** - Absorbable Sutures Repair Without Meniscopexy, Results in Superior Outcomes for Discoid Lateral Meniscus With Meniscocapsular Anterior Detachment in Children  
 8.20am **Michael Dan** - Asymmetric Deficit of Knee Flexion: An Occasional Symptom of Discoid Lateral Meniscus in Children  
 8.30am **Helena Franco** - Trends in open versus arthroscopic hip surgery: an analysis of a national database  
 8.40am **Helena Franco** - Trends in surgery for Slipped Capital Femoral Epiphysis: an analysis of a national database  
 8.50am **Lachlan McMillan** - A Paediatric Orthopaedic Curriculum for Medical Students: The Australian Consensus  
 9.00am **Alexander Seeto** - The influence of knee-joint morphology on medial/lateral meniscal tears in paediatric patients with anterior cruciate ligament (ACL) rupture.  
 9.10am **Alexander Seeto** - Tibial slope as a predictor of intraoperative pivot shift grade in paediatric patients with anterior cruciate ligament rupture  
 9.20am Session Finish

**3.30pm - 5.30pm Paediatric Orthopaedic Plenary Moderator: Sheanna Maine**

3.30pm DDH Management  
 5.00pm SCFE Management  
 4.30pm Paediatric ACL management.  
 5.00pm Paediatric Tumour Workup.



# Tuesday 15 October 2024

**10.00am - 12.00pm ANZORS Moderator: Martina Barzan**

10.00am **Michael Schuetz**- Queensland University of Technology - Ingredients to improve orthopaedic clinical care through translational research – What to consider  
 10.20am **Paige Little** - Queensland University of Technology - TBA  
 10.40am **Christopher Carty** - Griffith University - Implementation of computational modelling into paediatric orthopaedic clinical practice  
 11.00am **Nathalie Bock** - Queensland University of Technology - TBA  
 11.20am Discussion



# Tuesday 15 October 2024

**10.00am - 12.00pm Medico Legal Society Moderator: Drew Dixon**

10.00am **David Morgan** - Ruminations of a Medicolegal Mind  
 10.20am **Gauguin Gamboa** -Arthroplasty update  
 10.40am **Simon Journeaux** - Causation  
 11.00am **Garry Grossbard** - The Third Injury  
 11.20am **Stephen Milgate** - ASOS Medicolegal Update  
 11.40am Medicolegal Society Annual General Meeting  
 12.00pm ASOS Annual General Meeting



# Tuesday 15 October 2024

**10.00am - 12.00pm Outreach Moderator: TBA**

10.00am **Areta Samuelu** - Management of Congenital Pseudarthrosis of the Tibia in Children: A Case Series Utilizing Rush Nails in Samoa  
 10.08am **Clay Siosi** - Epidemiology of hand and wrist trauma in Solomon Islands  
 10.16am **Des Soares** - Pacific islands Orthopaedic Association - transitioning to a Pacific leadership in training, development, and funding. Challenges and opportunities.  
 10.24am **Nariyoshi Miyata** - Telehealth Fracture Clinic: Evaluating the Cost-Effectiveness of Telehealth for Fracture Management in Rural and Remote Settings  
 10.32am **Peter Brazel** - My experience in outreach visits to Fiji since 2009. The success's, failures and looking to the future “  
 10.40am **Peter Scougall** - Hand Surgery Training in Vietnam  
 10.48am **Ton Tran** - How to do more with less - Lessons learned from 10 years in Vietnam  
 10.56am **Nilton Do Carmo Da Silva** - Traditional Bonesetter vs Conventional Intervention. (Six months' study for patients who left against medical advice in ED – HNGV).  
 11.04am Discussion  
 11.15am Outreach Annual General Meeting



# Tuesday 15 October 2024

**1.00pm - 3.00pm ALLARS (Limb Reconstruction) Moderator: Kevin Tetsworth**

**1.00pm Keynote Speaker - Len Marais (President of the South African Orthopaedic Association) - Clinical Cases Demonstrating the Value of the New Classification Scheme for FRI**  
 1.30pm **Munjed Al Muderis** - Osseointegration outcomes following amputee lengthening  
 1.40pm Discussion  
 1.50pm Panel debate/discussion of complex limb reconstruction cases - “Complex Limb Reconstruction Case Series: Our Expert Panel Discussing How They Would Take on the Challenge - Moderator - Minoos Patel



# Tuesday 15 October 2024

**1.00pm-3.00pm APOA Topic: Building the Future Orthopaedic Workforce in the Asia Pacific region**

**ASM 24 MAKING DATA THE SOLUTION**  
 13–17 October, Brisbane, Queensland



## 8.00am - 9.30am Arthroplasty Free Papers - ERAS and patient outcome improvement Moderator: Al Burns

- 8.00am **Ahmed Kandil** - Project Zero: Improving Length of Stay for Arthroplasty Patients in Regional WA
- 8.08am **Richard de Steiger** - Stakeholder Perspectives on short- stay joint replacement
- 8.16am **Phong Tran** - Implementation of a universal ERAS+ Program: Impact on Length of Stay, Readmission Rates, and Costs in a Tertiary Hospital Serving a CALD Community
- 8.24am **Lorenzo Calabro** - Bladder catheterisation strategy does not impact patient reported urinary symptoms following lower limb arthroplasty: A prospective cohort study
- 8.32am **Margot Aalders** - Influence of Preoperative Anxiety and Depression on Subjective Function, Pain and Revisions after Total Knee Arthroplasty.
- 8.40am **Christopher Wilson** - A multi-disciplinary program for opioid sparse arthroplasty results in reduced long-term opioid consumption: a four year prospective study
- 8.48am **Chris Wall** - Do patients with osteoarthritis lose weight prior to elective joint replacement?
- 8.56am **Margot Aalders** - Role of Pain Catastrophizing on Functional Outcomes, Pain and Quality Of Life after Total Hip Arthroplasty
- 9.04am **Stephen Gill** - Monitoring patients following primary hip and knee joint replacement surgery – evaluating a remote questionnaire-based model at a large regional hospital
- 9.12am **Phong Tran** - Development of a Digital Health Intervention to Support Patients on a Waitlist for Orthopedic Specialist Care: Co-Design Study
- 9.20am **Tom Ward** - “Best practice pathway for knee osteoarthritis (OA)”: Efficiencies for patients and surgeons when advanced practice physiotherapy screening is implemented.
- 9.28am Session Finish

## 8.00am - 9.30am Arthroplasty Free Papers - Alignment Moderator: David Liu

- 8.00am **Keran Sundaraj** - Changes In Coronal Plane Alignment of the Knee Phenotypes After Total Knee Replacement With Robotic Systems
- 8.08am **David Liu** - Assessment of Coronal Joint Laxity and the Coronal Alignment of the Knee (CPAK) Classification System
- 8.16am **Dermot Collopy** - Is the Native Patellofemoral Track Restored in Total Knee Arthroplasty? Mechanical vs Kinematic Alignment.
- 8.24am **Gavin Clark** - Tibial Components Placed in Constitutional Varus Following TKA: A Minimum 5-year Survivorship Analysis.
- 8.32am **Faseeh Zaidi** - The Impact of Coronal Plane Alignment of the Knee (CPAK) Classification on Early Functional Outcomes after Primary Total Knee Arthroplasty
- 8.40am **Jay Jefferies** - Recreating constitutional alignment in TKR by referencing and reproducing the posterior condyle anatomy – New Technique using ROSA software planning and implementation.
- 8.48am **Rami Sorial** - “Impact of CPAK change on Outcome of Robot Assist TKA with MA alignment – Retrospective analysis
- 8.56am **Gavin Clark** - A prospective, double-blinded randomised controlled trial comparing outcomes after functionally aligned total knee arthroplasty and mechanically aligned total knee arthroplasty.
- 9.04am **Tom Ward** - CT based preoperative models used to predict hip range of motion neglect the effect of soft tissue impingement, resulting in significant errors.
- 9.12am Session Finish

## 10.00am - 12.00pm Arthroplasty - Prosthetic Joint Infection Moderator: Dave Dewar

- 10.00am **David Campbell** - Survivorship following Debridement, Antibiotics and Implant Retention (DAIR) in 4693 infected total knee arthroplasties; long-term survival and repeat revision risks.
- 10.08am **David Campbell** - Excess Mortality associated with Hip Arthroplasty Revisions for infections persists beyond 10-years: a registry analysis
- 10.16am **David Dewar** - Comparison of DAIR and 2-stage Revision for Hip and Knee Periprosthetic Joint Infections using The Desirability of Outcome Ranking
- 10.24am **Edward O’Byrne** - Timing Of Arthroplasty Revision Is Associated With Subsequent Infection: A Registry Analysis
- 10.32am **Sarah Ellis** - To sonicate or not to sonicate?
- 10.40am **Christopher Jones** - Use of topical vancomycin powder in total joint arthroplasty: Why the current literature is inconsistent?
- 10.48am **Ryan Ting** - Kiwi Procedure Versus Two-Stage Revision for the Management of Periprosthetic Hip Joint Infection
- 10.56am **Saeed Asadollahi** - The outcome of early debridement, antibiotics, and implant retention in the management of prosthetic joint infection following unicompartmental knee replacement
- 11.04am **Lucian Bogdan Solomon** - Diagnosis and Treatment influence Hospital Costs of Revision Total Hip Arthroplasty: A Systematic Review and Meta-analysis
- 11.12am Invited Guest Speaker - Peter Sculco - Infection**

## 1.00pm - 3.00pm Arthroplasty - Robotic Surgery Moderator: Dermot Collopy

- 1.00pm **Peter McEwen** - Using Stressed HKA for alignment in Varus Knees show signs of improved early recovery.
- 1.08pm **Justin Roe** - Accuracy Testing of a Mixed Reality Headset for Femoral Cut Block Alignment During Total Knee Arthroplasty
- 1.16pm **Joshua Petterwood** - The impact of change in mL DFA on short term post-operative outcome in TKR patients.
- 1.24pm **Jonathan Bigwood** - Robotic-assisted surgery provides equivalent procedure duration and incidence of adverse events at 90 days to computer-navigated and instrumented methods for total knee arthroplasty in a public hospital setting: A comparative cohort observational study
- 1.32pm **Dermot Collopy** - Manipulation under Anaesthetic: Rates, outcomes, and risk factors following robotic-assisted Total knee arthroplasty
- 1.40pm **Peter McEwen** - Association between knee compartmental Laxity on Post-Operative Gait Quantity and Quality
- 1.48pm **Tom Ward** - A novel method to stabilise the femur in flexion when balancing during total knee replacement surgery
- 1.56pm **Faseeh Zaidi** - High in-vivo accuracy of a novel robotic-arm-assisted system for total knee arthroplasty: a retrospective cohort study
- 2.04pm **Matt Lyons** - Robotic-Assisted Total Knee Arthroplasty Improves Accuracy and Reproducibility of the Polyethylene Insert Thickness Compared to Manual Instrumentation or Navigation
- 2.12pm **Simon Coffey** - How Does Balance Profile Vary between Manual and Robotically Assessed Gaps in Total Knee Arthroplasty? A Comparative Study
- 2.20pm **Fabio Mancino** - A prospective randomized controlled trial comparing CT-based planning with conventional total hip arthroplasty versus robotic arm-assisted total hip arthroplasty

**2.28pm Invited Guest Speaker - Peter Sculco - Robotic surgery**

## 7.00am-8.00am Arthroplasty Educations - Panel Case Discussions

### 8.00am - 9.30am Arthroplasty Free Papers Moderator: Chris Wilson

- 8.00am **Edward O’Byrne** - A comparison of small sized uncemented femoral stem performance in the AOANJRR
- 8.08am **Christopher Wilson** - What is the Long-Term Wear of a 5 Megarad Cross-Linked Polyethylene Liner? A 14- year RSA Study
- 8.16am **Benjamin Murphy** - Secondary patella resurfacing is associated with a higher risk of subsequent revision when compared to primary tricompartmental total knee replacements. This is predominantly due to increased rates of second revision for infection, loosening and pain after secondary patella resurfacing.
- 8.24am **Christopher Wilson** - Increased late periprosthetic fracture rates in large Corail stems: Are collared Corail stems a better alternative?
- 8.32am **Edward O’Byrne** - The Morbidity Of Revising Un-Resurfaced Patellae: An AOANJRR analysis
- 8.40am **Marco Schneider** - Novel AI performs accurate hip-spine assessments in under a second
- 8.48am **Koki Abe** - Spinal deformity and spinal stiffness are related to each other.
- 8.56am **Jonathan Baré** - Increased risk of flexion impingement and posterior instability following Total Hip Arthroplasty
- 9.04am **Christopher Jones** - Spine sagittal curvature measurement using smart phone
- 9.12am **David Shen** - Patients with anterior pelvic rotation from standing to flexed seated are more likely to experience squeaking following ceramic-on-ceramic hip resurfacing.
- 9.20am **Linden Bromwich** - Relaxed-seated radiographs are a poor surrogate for flexed-seated when assessing spinopelvic mobility risks in THA
- 9.28am Finish

### 8.00am - 9.30am Arthroplasty Free Papers Moderator: Matt Lyons

- 8.00am **David Liu** - Femoral head offset effects on abductor muscle function vary between total hip arthroplasty patients
- 8.08am **Andrea Aebischer** - Outcomes of proximal femoral replacement for non-oncologic indications in Australia
- 8.16am **Joshua Twiggs** - Sensitivity of Range of Motion to Impingement to 3-Dimensional Head Centre Recreation
- 8.24am **Fabio Mancino** - The Clinical Frailty Scale is a Strong Predictor of 1-Year Mortality in Surgically Managed Hip Periprosthetic Fracture: An Analysis From a High-Volume Institution
- 8.32am **Ella Tassarolo** - Femoral strain distribution in hip resurfacing arthroplasty and total hip arthroplasty: a Sawbone study using the KOBRA robotic arm
- 8.40am **Boopalan Ramasamy** - Total hip arthroplasty for acute acetabular fractures through the 'replace-in-situ' philosophy: clinical results
- 8.48am **Mohammad Darwish** - Ceramic-on-Ceramic Total Hip Arthroplasty Using a Double Tapered, Proximally Coated Stem: 15 to 24-year Clinical and Radiologic Follow-up
- 8.56am **David Liu** - Effects of acetabular cup medialization on muscle function vary between total hip arthroplasty patients
- 9.04am **Conor O’Driscoll** - 10 Year Review of Revision Hip Arthroplasty Following Previous ASR Metal on Metal Hip Procedures
- 9.12am **Michael O’Sullivan** - Metal Ion Blood Levels 2 years after Total Hip Arthroplasty with a Dual Mobility Prosthesis
- 9.20am Session Finish

## 8.00am - 9.30am Arthroplasty Free Papers Moderator: Al Burns

- 8.00am **Sang Hyun Kang** - Trends in Knee Arthroscopy, arthroplasty, subsequent Arthroplasty and revision Arthroplasty in Queensland Population a retrospective cohort Study
- 8.08am **Daniel Hill** - What is the clinical value of SPECT-CT in the evaluation of patients with an unexplained aseptic problematic cemented primary Total Knee Replacement?
- 8.16am **Lachlan Arthur** - Mid-term Outcomes of the Fixed Bearing Lateral Oxford Unicompartmental Knee Replacement
- 8.24am **Lilian Lim** - AI segmentation in clinically relevant complex orthopedic cases: a targeted study on developmental dysplasia of the hip
- 8.32am **Moreica Pabbruwe** - Quantification of Polyethylene Wear in Fixed-bearing Unicompartmental Knee Arthroplasty: Insights from Retrieval Analysis
- 8.40am **Lachlan Arthur** - Early Tibial Component Subsidence of the Cementless Oxford Unicompartmental Knee Replacement Does Not Compromise 5-Year Clinical Outcomes
- 8.48am **Lilian Lim** - AI segmentation of hip CTs in a clinical population is robust to severity of osteoarthritis
- 8.56am **Simon Coffey** - Predicting TKA Pain Outcomes with Patient Profile and Intraoperative Robotics Data using Machine Learning
- 9.04am **Alexander Nicholls** - What is the Hip and Knee Arthroplasty Caseload of Senior Orthopaedic Trainees and Surgeons During their First Decade of Practice?
- 9.12am Questions

## 8.00am - 9.30am Arthroplasty Free Papers Moderator: Jon Bare

- 8.00am **Christopher Jones** - Automatic Pre-operative Femoral Stem Diaphyseal Fit for Total Hip Arthroplasty Using Machine Learning Method
- 8.08am **Richard Boyle** - Implications of Functional vs Anatomic Femoral Anteversion on Combined Alignment Theories in THA
- 8.16am **Michael O’Sullivan** - Association of Acetabular Cup Uncoverage with Groin Pain Following Total Hip Arthroplasty
- 8.24am **Mevlüt Sungu** - Assessing Predictive Accuracy Of Ct-Based Planning In Hip Arthroplasty For Implant Alignment And Leg Length
- 8.32am **Daniel Hill** - SPECT-CT may aid in determining which side of a stemmed implant problematic Total Knee Replacement is loose when planning revision surgery.
- 8.40am **Mevlüt Sungu** - Evaluation Of Implant Alignment Versus Final Rasp Position In Hip Arthroplasty: An Intraoperative Study Utilizing C-Arm Imaging
- 8.48am **Chris Roberts** - Development and Validation of 2D Video-Based Gait Analysis for Planning and Evaluation in Total Hip Arthroplasty
- 8.56am **Christopher Jones** - Balancing Act: Exploring Hip Joint Dynamics Through Virtual Simulation
- 9.04am **Gregory Keene** - Cementless TKA: the Relationship between Interference Fit and Early Micromotion of the Tibial Tray.
- 9.12am **Thomas M Grupp** - Reduction Of Metal Ion Release In Cemented Hip Stems By A Zirconium Nitride Multilayer Coating – Simulating A Severe Stem Debonding Condition
- 9.20am Questions



# Thursday 17 October 2024 (Continued)

## 10.00am - 12.00pm Arthroplasty - Knee

Moderator: David Liu

- 10.00am **Gavin Clark** - What is the survivorship of simultaneous and sequential multiple partial knee replacement procedures?
- 10.08am **Joshua Twiggs** - Is Lateral Femoral Condylar Hypoplasia Truly Present in Valgus Knees?
- 10.16am **David Liu** - Cementless tibial fixation results in slower recovery but equivalent outcome at 12 months in primary total knee arthroplasty
- 10.24am **Manu Mathew** - Comparison of clinical outcomes of Revision UKR and primary UKR with primary TKR a retrospective cohort study
- 10.32am **David Morris** - The use of isolated polyethylene insert exchange at first time revision TKR to address wear is favourable but should be avoided in other indications. A registry based analysis.
- 10.40am **Joshua Twiggs** - Anatomical Tibial Rotational References and Outcomes in Total Knee Arthroplasty
- 10.48am **Brian Rui Kye Chee** - Does Ultra-Early Physical Therapy After Total Knee Arthroplasty Lead To A Shorter Length Of Stay And Better Functional Outcomes?
- 10.56am **Daniel Hill** - Defining the incidence of Complex Regional Pain Syndrome following Total Knee Arthroplasty: A prospective multicentre observational study of 1026 patients with no cases of identified according to the Budapest criteria.
- 11.04am **James Liu** - An interlimb analysis of symmetry in bilateral total knee arthroplasty
- 11.12am **Conor Gouk** - What is the Surgeon Opinion Regarding Metal Allergy Prior to Arthroplasty? A survey of Orthopaedic Specialists.
- 11.20am **Camdon Fary** - Patient recovery following Total Knee Replacement is Multi-factorial: A Retrospective Analysis

11.28am **Keynote Speaker - Peter Sculco**

## 1.00pm - 3.00pm Arthroplasty - Hip

Moderator: Bill Walter

- 1.00pm **Jonathan Baré** - Recreation of the native centre of rotation reduces high offset femoral constructs in THA
- 1.08pm **Christopher Wilson** - The Effect of Stem size on Peri-prosthetic Femoral Fracture risk of the Exeter V40 Femoral hip stem
- 1.16pm **Philippot Remi** - Post-Operative Dislocation Rates in a Large Prospective Continuous Series of Primary Total Hip Arthroplasties Using a Modern Dual Mobility Cup
- 1.24pm **Boopalan Ramasamy** - Abductor reconstruction with vastus lateralis to gluteus medius transfer
- 1.32pm **John Abrahams** - Total hip arthroplasty for acute acetabular fractures through the 'replace-in-situ' philosophy: Radiographic Outcomes.
- 1.40pm **Philippot Remi** - 10 to 15y Outcome of Monoblock Uncemented Dual Mobility Cup : Excellent survival rate and outcome in primary Total Hip Arthroplasty.
- 1.48pm **Michael O'Sullivan** - Patient-Reported Outcome Measures and Accuracy in Total Hip Arthroplasty: Is Near Enough Good Enough?
- 1.56pm **Bryn Gilbertson** - What are normal ranges of motion before impingement after total hip replacement?
- 2.04pm **Bogdan Solomon** - Hip Implants with Evidence of Phased Introduction have Improved Survivorship at Long-Term Follow-up
- 2.12pm **Andrew Hardidge** - Robotic Orthopaedic Surgery: An Outcome and Cost Analysis Comparison of Robotic and Non-Robotic Hip and Knee Replacements in an Australian Public Hospital - Austin Health

2.20pm **Invited Guest Speaker - Peter Sculco**



**Invited Guest Speaker**  
**Peter Sculco**  
**United States**



# Thursday 17 October 2024

## 7.00am-8.00am Sports Knee Education Sessions - Case Discussions

Panel: tba

## 8.00am-9.30am Sports Knee Free Papers Tibial Slope

Moderator: Justin Roe

- 8.00am **Cindy Zeng** - Posterior Tibial Slope, Meniscal Slope, and Lateral Meniscal-Bone Angle are Risk Factors for ACL Injury: A Systematic Review
- 8.10am **Cindy Zeng** - Lateral and Medial Posterior Tibial Slope are Risk Factors for ACLR Graft Failure: A Systematic Review and Meta-Analysis
- 8.20am **Peter McEwen** - Posterior Tibial Slope in Failed ACL Reconstruction Utilising Patellar Tendon Autograft
- 8.30am Discussion
- 8.40am **Raoulis Vasileios** - Surgical Implications of the Arterial Anatomy around the Knee: A Cadaveric Pictorial Essay
- 8.50am **Michael Dan** - Radiographic Investigation of Coronal Plane and Patellar Height and Changes Following Tibial Deflection Osteotomy for Correction of Tibial Slope in Combination With ACL
- 9.00am **Peter McEwen** - Anterior Closing Wedge HTO to Correct Aberrant Tibial Slope in ACL Injury and Re-injury
- 9.10am **Sam Shales** - POSARI STUDY: Does the difference in lateral and medial posterior tibial slope in the ACL deficient knee contribute to high grade rotational instability?
- 9.20am Discussion

## 1.00pm - 2.05pm Sports Knee ACL

Moderator: David Parker

- 1.00pm **Invited Guest Speaker - Dan Wascher - How I assess and manage Multiligament knee injuries-from assessment in A&E to dealing with complications -**
- 1.10pm **Dibakar Sarkar** - Combined reconstruction of the medial collateral ligament and anterior cruciate ligament using ipsilateral semitendinosus tendon and opposite semitendinosus with ipsilateral gracilis tendon: A Minimum one-Year Follow-up
- 1.16pm **Jon Anderson** - Predicting Anterior Cruciate Ligament Reconstruction Revision Risk using an Enhanced Machine Learning Analysis of the Danish Knee Ligament Reconstruction Registry
- 1.22pm **Dhruv Praveen** - Predictive Factors of Graft Rupture following Anterior Cruciate Ligament Reconstruction: A Systematic Review and Meta-Analysis
- 1.28pm **Pei-Wei Chi** - Can athletic footwear design features reduce anterior cruciate ligament loads during single-limb landing in young females?
- 1.34pm **Stefan Mogos** - Superior rotational stability and lower re-ruptures rate after combined ALL and ACLR compared to isolated ACLR
- 1.40pm **Invited Guest Speaker - Francois Kelberine - Mucoïd Degeneration of the ACL**
- 1.50pm Discussion

## 2.05pm - 3.00pm Sports Knee Paediatric and Meniscus Section

Moderator: Peter McEwen

- 2.05pm **Justin Roe** - Intercondylar Notch Morphology Changes After Transphyseal Anterior Cruciate Ligament Reconstruction in Skeletally Immature Knees.
- 2.11pm **Sarthak Chopra** - Children Are More Confident And Recover Quadriceps Strength Faster Than Adults In Functional Limb Testing Measured At 9 Months Post Acl Reconstruction.
- 2.17pm **Marlena Urvater** - Risk factors for paediatric meniscal pathology concomitant to anterior cruciate ligament rupture
- 2.23pm **Karl Eriksson** - Meniscus substitution using autologous semitendinosus tendon graft. Technique and available results
- 2.29pm **Rahul Kakria** - Comparison of suture versus bony fixation in meniscal allograft transplantation (MAT) outcomes: A meta-analysis
- 2.35pm **Gilbert Moatshe** - Meniscal root tears
- 2.41pm Discussion

## Invited Guest Speakers



**Francois Kelberine**  
**France**



**Dan Wascher**  
**United States**



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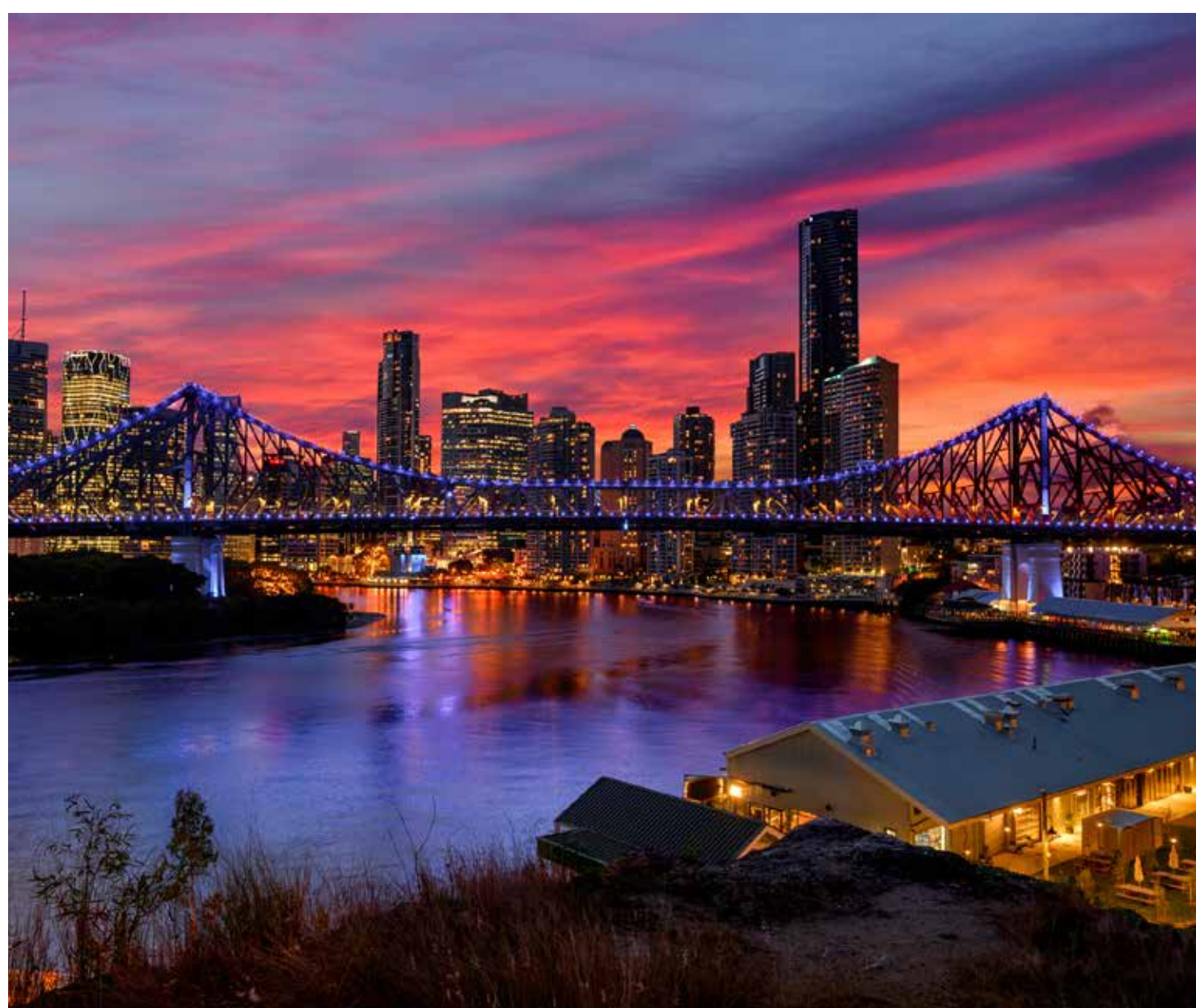
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