

# SCIENTIFIC PROGRAM

AOA QLD Branch Registrar Papers Day and  
QORF MSK Research Meeting



# QORF

Queensland Orthopaedic  
Research Fund

22-23 March 2024

Owen J Wordsworth Room,

Queensland University of Technology, QLD



AOA  
AUSTRALIAN  
ORTHOPAEDIC  
ASSOCIATION

## Friday 22 March 2024

### REGISTRAR FREE PAPERS

1:30pm **Registration**

2:00pm Welcome and Acknowledgment to Country. **Michael Lutz**

2:00pm - 6:15pm **REGISTRAR FREE PAPERS SESSION**. Judges: **Ross Crawford, Zhenya Welyczko, Mark Moroney**

2:10pm Improving orthopaedic drilling accuracy with SawBone model practice. **Karn Bal**

2:20pm Analysis of bilateral scaphoid symmetry: volumetric and geometric analysis using computer tomography 0.5mm slice-thickness. **Michael Roberts**

2:30pm The Transformative Impact of AI on Medical Research: A Prospective Outlook. **Aiden Jabur**

2:40pm **Discussion**

2:46pm Disparities of vertebral body and intervertebral disc deformity offer original indicators of progression risk in adolescent idiopathic scoliosis patients. **Fraser Labrom**

2:56pm Target blood pressure ranges following paediatric spinal deformity correction for neuromuscular scoliosis: A Retrospective Review Protocol. **Grace Pulling**

3:06pm Do patients with osteoarthritis lose weight prior to elective joint replacement? **Susie Lee**

3:16pm **Discussion**

3:22pm High Fat Diet Induces Deleterious Macroscopic And Microscopic Changes In The Rabbit Femur. **Hayman Lui**

3:32pm Marijuana Use and Associated Complications after Anterior-Cruciate Ligament Reconstruction in an Adolescent Patient: a Matched Control Study. **Helena Franco**

3:42pm Acute Admission Cost Variance Due to Episodes of Care Changes in Two Acute Orthopaedic Wards. **James Wheeler**

3:52pm **Discussion**

3:58pm **Afternoon Tea**

4:30pm Non-tuberculous mycobacterial bone and joint infections. **Andrew Foster**

4:40pm Interhospital transfer of 3B Open Tibia Fractures leads to similar complication rates compared to patients who presented to tertiary trauma centres initially. **Hamid Popal**

4:50pm **Discussion**

## Friday 22 March 2024 (cont)

### REGISTRAR FREE PAPERS

#### REGISTRAR FREE PAPERS SESSION (cont)

4:54pm The impact of Orthopaedic career information sessions in Far North Queensland High Schools. **Callum Fryer**

5:04pm The Epidemiology of Surgical Intervention for Sports and Leisure Related Injuries in Queensland. **Daniel Brimm**

5:14pm **Discussion**

5:20pm Relationship between knee joint morphological parameters and laxity assessment in quantitative in paediatric patients with anterior cruciate ligament rupture. **Alexander Seeto**

5:30pm Factors influencing hamstring graft diameter in paediatric anterior cruciate ligament reconstruction. **Darren Hinton**

5:40pm Review of the implementation of Redcliffe Hospital Newborn Screening Protocol for Developmental Dysplasia of the Hip. **Racquel Ball**

5:50pm **Discussion**

6:00pm **Session closes**

6:30pm - 8:30pm: Fireside chat. Including Networking Event & ePosters. Moderator: **Tim McMeniman**.  
Panelists: **Matt Hislop (Brisbane Broncos Team Doctor), Luke Anning (Senior Physiotherapist, Brisbane Broncos and QLD State of Origin, and Matt Ballin (Brisbane Broncos Assistant Coach, ex-QLD State of Origin and NRL Premiership Winner)**



**'Returning athletes to play',**  
with Tim McMeniman & special guests...

		
<b>Matt Ballin</b>	<b>Matthew Hislop</b>	<b>Luke Anning</b>
NRL Player Manly Sea Eagles Grand Final Winner & QLD State of Origin	Chief Medical Officer Brisbane Broncos & QLD State of Origin	Head Physiotherapist Brisbane Broncos 2009-present
NRL Assistant Coach Brisbane Broncos 2021-24 QLD State of Origin 2024	2024 Olympics Australian Team Doctor	

### Saturday 23 March 2024

QORF Collaborative Meeting - "Musculoskeletal management of the 'athlete' – weekend warrior to the elite"

7:30am Registration

7:55pm Welcome and Acknowledgment to Country. **Ross Crawford**

**8:00am THE ATHLETES KNEESESSION. Moderator: Tim McMeniman**

8:00am ACL Biomechanics. **David Saxby** (Associate Professor and Senior Lecturer, Griffith University)

8:10am Objective Measurement in Musculoskeletal Health: The Science Behind VALD's Product Development. **Gavin Lenton** (Product Lead (Measurement), Vald and Postdoctoral Research Fellow, Griffith University)

8:20am Hamstring Rehabilitation. **Anthony Shield** (Associate Professor, Faculty of Health, School of Exercise & Nutrition Sciences, QUT).

8:30am ACL Registries - Children's. **David Bade** (Orthopaedic Surgeon and Adjunct Associate Professor, Griffith University, QLD).

8:40am **SELECTED ABSTRACT:** Can 3D Surface Scanning increase accuracy of meniscal allograft tissue sizing? A virtual library at Queensland Tissue Bank (QTB). **Huynh Nguyen** (Research and Development Officer, Queensland Tissue Bank (OTB)).

8:47am Meniscal Repair - current research. **Peter Myers** (Orthopaedic Surgeon and Clinical Associate Professor, Department of Surgery and Adjunct Professor, Department of Human Movement and Nutrition Sciences, University of Queensland).

8:57am Synthetic meniscus. **Justin Cooper-White** (Head of School, School of Chemical Engineering, Faculty of Engineering, Architecture and Information Technology and Professor Australian Institute for Bioengineering and Nanotechnology, University of Queensland)

9:07am Discussion

**9:30am HAND AND WRIST INJURIES SESSION. Moderator: Greg Couzens**

9:30am Cybathlon: Human digital twin to improve performances of individuals using bionic prostheses. **Laurent Frossard** (Professor, Menzies Health Institute - GCORE, Griffith University, QLD).

9:40am NX Nail Product Development. **Michael Maurer** (Vice President, Technology at Field Orthopaedics and Physiotherapist, University of Queensland).

9:50am **SELECTED ABSTRACT:** The Epidemiology of Surgical Intervention for Sports and Leisure Related Injuries in Queensland. **Daniel Brimm** (Orthopaedic PHO, GCUH/Jaimeson Trauma Institute, QLD)

9:57am **QORF GRANT RECIPIENT:** Biomechanical Analysis of Ridged Dorsal Wrist Backslabs. **Alexander Mitrichev** (PHO, Princess Alexandra Hospital Orthopaedic Department, Brisbane).

10:20am MORNING TEA AND EPOSTERS

**10:50am QORF UPDATE. Moderator: Phil Dalton**

10:50am QORF Update: 2024 Grants and QLD MSK Research Network. **Phil Dalton** (Orthopaedic Surgeon and General Director, QORF).

11:00am Discussion

### Saturday 23 March 2024 (cont)

Collaborative Meeting - "Musculoskeletal management of the 'athlete' – weekend warrior to the elite"

**11:05am FOOT AND ANKLE SESSION. Moderators: Michael Lutz and Luke Kelly**

11:05am Thinking differently about foot function, in the context of pain and performance. **Luke Kelly** (Associate Professor, School of Health Sciences and Social Work, Griffith University).

11:15am Managing recurrent ankle sprains and chronic ankle instability in athletes. **Michelle Smith** (Associate Professor, School of Health and Rehabilitation Science, Faculty of Health)

11:25am Achilles tendon and dangers returning to sport. **James Barnett** (Foot and Ankle Clinical Fellow, Mater Hospital Brisbane).

11:35am Discussion

**11:55am SHOULDERSESSION. Moderator: Nadine Foster**

11:55am Shoulder biomechanics - previous and future research. **Max Lavail** (Postdoctoral Fellow, ARC Training Centre for Joint Biomechanics, QUT)

12:05pm **QORF GRANT RECIPIENT:** CROSS-RSA (Clinical and Radiographic Outcome Score Study in Reverse Shoulder Arthroplasty) - Correlation of implant distalisation and lateralisation with functional outcomes. **Fiachra O Deasmhunaigh** (PHO, Sunshine Coast University Hospital).

12:10pm What type of exercise and exercise delivery is best for rotator cuff-related shoulder pain. **Peter Malliaras (Virtual)** (Professor and Associate Professor at Monash University, VIC)

12:20pm Current and future: impingement and rotator cuff research. **Nadine Foster** (Professor, University of QLD)

12:30pm **SELECTED ABSTRACT:** Deep Transfer Learning Approach For Shoulder Abnormalities Detection Using X-Ray Images. **Laith Alzubaidi** (Postdoctoral Research Fellow In Machine Learning for Biomedical Technologies, School of Mechanical, Medical, and Process Engineering, QUT)

12:37pm Discussion

12:55pm Meeting Close

**1:00pm LUNCH AND EPOSTERS NETWORKING SESSION. (Owen J Wordsworth Room)**

1:30pm Lunch concludes

Thank you to the Centre of Biomedical Sciences, Queensland University of Technology for hosting the meeting.

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