

PROVISIONAL 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

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 Lu**

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 Popul**

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 Are all chondrosarcomas secondary? An evaluation of prior imaging and prodromal symptoms in presumed primary lesions. **Julian Pietrzycki**

5:14pm The Epidemiology of Surgical Intervention for Sports and Leisure Related Injuries in Queensland. **Daniel Brimm**

5:24pm **Discussion**

5:30pm Relationship between knee joint morphological parameters and laxity assessment quantitative in paediatric patients with anterior cruciate ligament rupture. **Alexander Seeto**

5:40pm Factors influencing hamstring graft diameter in paediatric anterior cruciate ligament reconstruction. **Darren Hinton**

5:50pm Review of the implementation of Redcliffe Hospital Newborn Screening Protocol for Developmental Dysplasia of the Hip. **TBC**

6:00pm **Discussion**

6:06pm **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)



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 KNEE SESSION. Moderator: Tim McMeniman

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

8:10am TBC. **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 (QTB)).

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, School of Engineering and Built Environment, Griffith University).

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 TBC. **Luke Kelly** (Associate Professor, School of Health Sciences and Social Work, Griffith University).

11:15am TBC. **Michelle Smith** (Associate Professor, School of Health and Rehabilitation Science, Faculty of Health and Behavioural Sciences, University of Queensland).

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

11:35am Discussion

11:55am SHOULDER SESSION. Moderator: Nadine Foster

11:55am Shoulder biomechanics - previous and future research. **Max Lavaill** (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 AND NETWORKING (Owen J Wordsworth Room)

1:30pm Lunch concludes

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



Centre for
Biomedical
Technologies



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