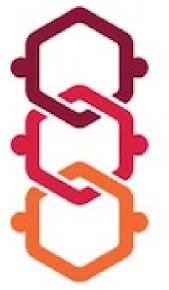
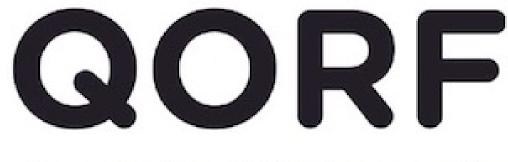
SCIENTIFIC PROGRAM

AOA QLD Branch Registrar Papers Day and QORF MSK Research Meeting







Queensland Orthopaedic Research Fund

22-23 March 2024 Owen J Wordsworth Room, Queensland University of Technology, QLD





Friday 22 March 2024

REGISTRAR FREE PAPERS				
•	Registration			
	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 4:40pm 4:50pm	Non-tuberculous mycobacterial bone and joint infections. Andrew Foster Interhospital transfer of 3B Open Tibia Fractures leads to similar complication rates compared to patients who presented to tertiary trauma centres initially. Hamid Popal Discussion			



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Friday 22 March 2024 (cont)

	REGISTRAR FREE PA
	REGISTRAR FREE PA
4:54pm	The impact of Orthopaedic career information
	Callum Fryer
5:04pm	The Epidemiology of Surgical Intervention for Daniel Brimm
5:14pm	Discussion
5:20pm	Relationship between knee joint morphologica paediatric patients with anterior cruciate ligar
5:30pm	Factors influencing hamstring graft diameter in Darren Hinton
5:40pm	Review of the implementation of Redcliffe Hos 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)





Matt Ballin

NRL Player Manly Sea Eagles Grand Final Winner & QLD State of Origin

NRL Assistant Coach Brisbane Broncos 2021-24 QLD State of Origin 2024

APERS

APERS SESSION (cont) sessions in Far North Queensland High Schools.

Sports and Leisure Related Injuries in Queensland.

al parameters and laxity assessment in quantitative in nent rupture. Alexander Seeto

n paediatric anterior cruciate ligament reconstruction.

spital Newborn Screening Protocol for Developmental



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)
- Objective Measurement in Musculoskeletal Health: The Science Behind VALD's Product Development. 8:10am 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 ProfessorAustralian Institute for Bioengineering and Nanotechnology, University of Queensland)

9:07am Discussion

9:30am HANDANDWRIST INJURIES SESSION.Moderator: Greg Couzens

- Cybathlon: Human digital twin to improve performances of individuals using bionic prostheses. 9:30am 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 QORFUPDATE. 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 LukeKelly

11:05am	Thinking differently about foot function, in the con (Associate Professor, School of Health Sciences a
11:15am	Managing recurrent ankle sprains and chronic ar (Associate Professor, School of Health and Rehal
11:25am	Achilles tendon and dangers returning to sport. Mater Hospital Brisbane).
11:35am	Discussion
11:55am	SHOULDERSESSION. Moderator:NadineFor
11:55am	Shoulder biomechanics - previous and future re Training Centre for Joint Biomechanics, QUT)
12:05pm	QORF GRANT RECIPIENT: CROSS-RSA (Clinical
	Reverse Shoulder Arthroplasty) - Correlation of i functional outcomes. Fiachra O Deasmhunaigh (
12:10pm	What type of exercise and exercise delivery is be Peter Malliaras (Virtual) (<i>Professor and Associate</i>
12:20pm	Current and future: impingement and rotator cu
12:30pm	SELECTED ABSTRACT: Deep Transfer Learning
	Using X-Ray Images. Laith Alzubaidi (Postdoctor BiomedicalTechnologies, School of Mechanical,
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.



Centre for Biomedical Technologies

ontext of pain and performance. Luke Kelly and Social Work, Griffith University). inkle instability in athletes. Michelle Smith bilitation Science, Faculty of Health

James Barnett (Foot and Ankle Clinical Fellow,

ster

esearch. Max Lavaill (Postdoctoral Fellow, ARC

l and Radiographic Outcome Score Study in

implant distalisation and lateralisation with (PHO, Sunshine Coast University Hospital).

est for rotator cuff-related shoulder pain. e Professor at Monash University, VIC)

uff research. Nadine Foster (Professor, University of QLD)

Approach For Shoulder Abnormalities Detection

ral Research Fellow In Machine Learning for , Medical, and Process Engineering, QUT)

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