Stream A

- Concurrent Session 1A: MSK & RHEUMATOLOGY 08:30 - 10:30
  Ultrasound of brachial plexus injuries *Prof Carlo Martinoli*
  Post op shoulders with shearwave assessment *Lisa Hackett*
  Hot topics in musculoskeletal ultrasound *Dr David Lisle*
  Muscle injuries in elite athletes *A/Prof David Connell*
  Inflammatory arthritis *A/Prof Fred Joshua*

- Morning Tea 10:30 - 11:00
  *Trade Hall*

- Concurrent Session 2A: MSK & RHEUMATOLOGY 11:00 - 13:00
  Hamstring injuries *Dr Peter Brukner*
  Calcific tendinosis *Dr David Lisle*
  Ultrasound of the rotator cuff interval and biceps tendon *Prof Carlo Martinoli*
  Ultrasound guided tendon therapies: Options and evidence *Dr David Lisle*
  Q&A

- Lunch 13:00 - 14:00

- Concurrent Session 3A: MSK & RHEUMATOLOGY 14:00 - 15:00
  The enthesial complex and pathology *Craig Cairns*
  The role of imaging in diagnosing and managing tendinopathy *Prof Jill Cook*
  Using ultrasound contrast agents to assess tendon healing *Dr Ronald Adler*
  Ultrasound elastography to assess botulinum Toxin treatment for post-stroke spasticity: A feasibility study *A/Prof Jing Gao*
  The spectrum of sonographic findings with radiographic correlation in patients with shoulder pain at kenyatta national hospital *Dr Callen K Onyambu*

- Afternoon Tea 15:00 - 15:30

- OPENING PLENARY SESSION 15:30 - 17:00

- Welcome Drinks 17:00 - 19:30
Stream B

- **Concurrent Session 1B: CRITICAL CARE** 08:30 - 10:30
  - Haemodynamics and the left ventricle *Dr Yang Yang*
  - Right heart – lung interactions *Dr Sam Orde*
  - Left ventricular diastolic function in the ICU *A/Prof Andrew Hilton*
  - Dynamic left ventricular outflow obstruction *Dr David Clancy*

- **Morning Tea** 10:30 - 11:00
  - *Trade Hall*

- **Concurrent Session 2B: CRITICAL CARE** 11:00 - 13:00
  - General ultrasound examination in the shocked ED patient *Dr James Rippey*
  - Role of a Basic/RACE examination in an overnight emergency *Dr David Clancy*
  - Echocardiography in management of the shocked patient *Prof Anthony McLean*
  - When do I attempt drainage of that pericardial effusion? *A/Prof Andrew Hilton*

- **Lunch** 13:00 - 14:00

- **Concurrent Session 3B: CRITICAL CARE** 14:00 - 15:00
  - State of play in critical care ultrasound certification in Australia/New Zealand *Dr Yang*
  - Implementation of critical care ultrasound in Australian ICUs *Dr Sam Orde*
  - Integration of critical care echo with other noninvasive cardiac imaging techniques *Prof Anthony McLean*

- **Afternoon Tea** 15:00 - 15:30
  - *Trade Hall*

- **OPENING PLENARY SESSION** 15:30 - 17:00

- **Welcome Drinks** 17:00 - 19:30

Stream C

- **Concurrent Session 1C: VASCULAR** 08:30 - 10:30
Concurrent Session 1C: VASCULAR Sonography in ANZ - Past, Present & Future

History of vascular ultrasound in Australasia *A/Prof Doug Cavaye*

Angle-independent blood volume flow *Dr Jonathan M. Rubin*

Qualification of blood flow in 3D Ultrasound - Vascular applications *Prof J. Brian Fowlkes*

Matrix transducers for real-time 3D imaging: From intra-cardiac to trans-cranial applications *Prof Nico de Jong*

The future of vascular ultrasound and clinical practice - Where are we going? *Dr Jason Chuen*

Q&A

- Morning Tea
  - Trade Hall
  - 10:30 - 11:00

Concurrent Session 2C: VASCULAR Aortoiliac & EVAR

AAA screening *Prof Andre van Rij*

Refinements in abdominal aortic aneurysm screening; a new screening tool and incorporation of body surface area correction *Prof Greg Jones*

Let’s get education on EVAR surveillance *Jacqui Robinson*

Small infrarenal Aortic size - what does this imply? *Prof Greg Jones*

Contrast imaging for AAAs? Not that difficult! *Gerry Hill*

- Lunch
  - 13:00 - 14:00

Concurrent Session 3C: VASCULAR Ultrasound Training in ANZ - A New Paradigm?

How do vascular surgeons learn vascular ultrasound?

Sonographer and the road travelled in education and training *Jacqui Robinson*

Teaching POCUS for medical students *A/Prof David Canty*

Panel discussion: Future of US training *Jacqui Robinson, A/Prof David Canty*

- Afternoon Tea
  - Trade Hall
  - 15:00 - 15:30

OPENING PLENARY SESSION
Welcome Drinks

Stream D

Concurrent Session 1D: Young Investigators Session

Addition of reliability measurement index to point shear wave elastography: Prospective validation via diagnostic performance and reproducibility Dr Hyo-Jin Kang

High Frequency Ultrasound in Aesthetic dermatology novel research for the use of 18 MHz shearwave elastography for pre and post therapy assessment. Pre clinical trials of collagen fillers within the dermal and subdermal layers of the skin Kathryn Malherbe

Computer-aided diagnosis system for breast ultrasound images using deep learning Hiroki Tanaka

Grading fatty liver and detecting liver pathological features - Is there consensus between sonographers and radiologists? David Sheng-Liang Yang

2D Shear Wave Elastography in risk prediction of indeterminate thyroid nodules compared to histological findings Pedro P Moraes

Comparison of the diagnostic performance of CT angiography and contrast-enhanced US in hepatic artery occlusion after liver transplantation Dr Jin Sil Kim

Improving ultrasound education in the Pacific Region Raymond Keshwan

2D-Shear Wave Elastography of the spleen - A noninvasive marker for predicting high risk varices in patients with compensated liver cirrhosis Felix Bende

A prediction model for assessing the response after neoadjuvant chemotherapy in patients with breast cancer: combination on contrast enhanced ultrasound and clinical pathological parameters Yunxia Huang

Point-of-care ultrasound a new option for early quantitative diagnosis of pulmonary edema Xihua Lian

A novel method for assessing analgesic effects during nerve block using ultrasonography: an experimental study in a canine model Dr Emiko Chiba

High-volume peritendinous injections in the management of Achilles tendinopathy Dr Daniel Walkley

Morning Tea

Trade Hall
Concurrent Session 2D: WORKSHOPS - General Live Scanning: Practical CEUS & Portal Hypertension

Workshop 1: Portal Hypertension Marilyn Zelesco

Workshop 2: Hepatic shearwave elastography - how to? Dr Giovanna Ferraioli

Workshop 3: Practical contrast ultrasound - how to & cases Prof Robert Gibson and Jane Keating

Lunch

Concurrent Session 3D: WORKSHOP General Live Scanning: Bowel

Workshop 1: Bowel Martin Necas

Workshop 2: Mesenteric arteries - How I scan them Claire O'Reilly

Afternoon Tea

Trade Hall

OPENING PLENARY SESSION

Welcome Drinks

Stream E

Concurrent Session 1E: OBSTETRICS

Combined screening for Down syndrome in the NIPT era Dr Andrew McLennan

Update on NIPT Dr Lisa Hui

Pre-eclampsia screening Prof Fabricio Costa

Pre-eclampsia prevention Dr Daniel Rolnik

1st trimester screening for gestational diabetes Prof Jon Hyett

Rare autosomal trisomies: Important and not so rare Dr Fergus Scott

Q&A

Morning Tea

Concurrent Session 2E - OBSTETRICS

What to do when NT is ≥ 3.5mm Prof Jon Hyett

First trimester diagnosis of heart malformations: Are we ready? Dr Simon Meagher
Screening for spina bifida Dr Jayshree Ramkrishna
CNS malformations detectable in the 1st trim Dr Simon Meagher
Frontiers of ultrasound: Malformations detected at 8-10 weeks Dr Simon Meagher
Q&A Prof Jon Hyett, Dr Simon Meagher and Dr Jayshree Ramkrishna

- Lunch

- Concurrent Session 3E - GYNAECOLOGY Managing ovarian masses: how to classify them using IOTA terminology
  How to describe an adnexal mass: IOTA terms and definitions Dr Wouter Froyman
  What are IOTA easy descriptors and simple rules: How to use them Dr Wouter Froyman
  Understanding the IOTA ADNEX model: What are the variables? Dr Wouter Froyman

- Afternoon Tea

- OPENING PLENARY SESSION

- Welcome Drinks

Stream F

- Concurrent Session 1F: WORKSHOPS - MSK Live Scanning: Finger & Wrist
  Live Scanning Workshop – Finger Greg Lammers
  Clinical Scenario Quiz Greg Lammers
  Live Scanning Workshop - Wrist Jan Mulholland
  Clinical Scenario Quiz Jan Mulholland

- Morning Tea
  Trade Hall

- Concurrent Session 2F: WORKSHOPS

- Concurrent Session 2F: WORKSHOPS - MSK Live Scanning: Ankle & Hamstring
  Live Scanning Workshop – Ankle Mark Smyth
  Clinical Scenario Quiz Mark Smyth
  Live Scanning Workshop – Hamstring Martine Chadwick
  Clinical Scenario Quiz Martine Chadwick
**Concurrent Session 3F: WORKSHOPS - MSK Live Scanning: Knee**

Live Scanning Workshop – The knee - load induced tendinopathies and impingement syndromes *Dr Daniel Walkley*

Clinical Scenario Quiz *Dr Daniel Walkley*

Q&A *Dr Daniel Walkley*

**Afternoon Tea**

*Trade Hall*

**OPENING PLENARY SESSION**

**Welcome Drinks**

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**Stream G**

**Concurrent Session 1G: GENERAL - NEONATAL**

Lung ultrasound basics: Fun physics and ultrasound of the normal lung *Dr Trish Woods*

Vascular access: How to do it *Dr Adam O’Brien*

Lung ultrasound advanced *Dr Trish Woods*

**Morning Tea**

*Trade Hall*

**Concurrent Session 2G: GENERAL - NEONATAL WORKSHOP Lung, vascular access & cardiac function scanning PPHN**

Point of care functional cardiac scanning *A/Prof Koert deWaal*

Six concurrent simulator workshops:

2 x Lung ultrasound simulation stations *Dr Trish Woods, Dr Archana Priyadarshi*

2 x Vascular access simulation stations *Dr Adam O’Brien*

2 x Simulator cardiac stations *A/Prof Koert deWaal, Dr Adam Hoellering*

**Lunch**
**Concurrent Session 3G: GENERAL - NEONATAL** All things neonatal 13:00 - 14:00

- Posterior fossa and cerebellar haemorrhages. Imaging technique and long term outcome  
  *Adam Hoellering*

- Necrotising enterocolitis and point of care neonatal abdominal USS  
  *Dr Archana Priyadarshi*

- HMD lung USS and research with USS in neonatal transition  
  *Dr Douglas Blank*

**Afternoon Tea** 15:00 - 15:30

*Trade Hall*

**OPENING PLENARY SESSION** 15:30 - 17:00

**Welcome Drinks** 17:00 - 19:30

**Stream H**

**Concurrent Session 1H: HISTORY, MYSTERY & THE PRESENT** AI, Innovation, therapy and more 08:30 - 10:30

- 50 years real-time electronic sector scanning  
  *Jan Somer*

- Photoacoustic microscopy for cells in a 3D microenvironment: systems and applications  
  *Prof Pai-Chi Li*

- High Frequency Ultrasound in Aesthetic dermatology: Novel research for the use of 18 MHz shearwave elastography for pre and post therapy assessment. Pre clinical trials of collagen fillers within the dermal and subdermal layers of the skin  
  *Kathryn K Malherbe*

- Therapy ultrasound – current status and future potential  
  *Prof Gail ter Haar*

- Recent advances in micro-ultrasound  
  *Prof. F. Stuart Foster*

- A comparative study of microwave ablation and surgical resection for primary hyperparathyroidism  
  *Prof Ping Liang*

**Morning Tea** 10:30 - 11:00

*Trade Hall*

**Concurrent Session 2H: HISTORY, MYSTERY & THE PRESENT** AI, Innovation, therapy and more 10:30 - 12:00

- Immune stimulation by therapeutic ultrasound  
  *Prof Gail ter Haar*
Dual frequency ultrasound angiography *Prof F. Stuart Foster*  
Brainstem morphology and movement disorders *A/Prof Gabrielle Todd*  
Tumour radiosensitisation by therapy ultrasound *Prof Gail ter Haar*  
Shear wave elasticity imaging for studying mechanical interactions of cells *Prof Pai-Chi Li*  
An evaluation of correlation and variability of 2D Pulsed Waved Doppler (PWD)-derived indices at varying flow rates: A Phantom Study *Dr Ana Elizabeth Gomes de Melo Tavares Ferreira*  
Q&A

- **Lunch** 13:00 - 14:00

- **Concurrent Session 3H: HISTORY, MYSTERY & THE PRESENT AI, Innovation, therapy and more** 14:00 - 15:00
  - Bioeffects of ultrasound with long pulse duration during administration of contrast agents *Dr Iwaki Akiyama*
  - From coloured stars to colour flow imaging – or when is 'Doppler' not Doppler? *Prof David Evans*
  - Measurement of sound velocity change due to ultrasonic heating *Dr Iwaki Akiyama*
  - Addition of Reliability Measurement Index to Point Shear Wave Elastography: Prospective validation via diagnostic performance and reproducibility *Dr Hyo-Jin Kang*

- **Afternoon Tea** 15:00 - 15:30
  - *Trade Hall*

- **OPENING PLENARY SESSION** 15:30 - 17:00
  - **Welcome Drinks** 17:00 - 19:30

**Stream I**

- **Concurrent Session 1I: GENERAL Inflammatory Bowel Disease**
  - New guidelines on gastrointestinal ultrasound (GIUS) *Prof Odd Helge Gilja*
  - Assessment of inflammatory bowel disease (IBD) activity in perspective *A/Prof Miles Sparrow*
  - MRE vs small bowel ultrasound for Crohn’s/inflammatory bowel *Dr Antony Friedman*
Tips and tricks for bowel imaging *Dr Anil Asthana*  
08:30 - 10:30

Contrast-enhanced US in Crohn's disease *Prof Odd Helge Gilja*

Non-IBD findings in intestinal ultrasound *Dr Kirstin Taylor*

Panel discussion: Role of US in IBD in 2019 *(Chair: Prof Miles Sparrow)*  
*Dr Kirsten Taylor, Prof Odd Helga Gilja, Dr Anil Asthana, Dr Antony Friedman*

- **Morning Tea**  
  *Trade Hall*

- **Concurrent Session 2I: GENERAL - Bowel**  
  11:00 - 13:00
  
  Ultrasound in functional GI disorders *Prof Odd Helge Gilja*
  
  Endorectal ultrasound and perineal ultrasound: A new guideline and expert recommendations from EFSUMB *Prof Adrian Saftoiu*
  
  TRUS applications in anal and rectal diseases *A/Prof Christian Nolsoe*
  
  Evaluation of a closer ultrasonographic vision to peritoneal cavity as a powerful tool in the diagnosis of abdominal Tuberculosis. 2015-2018, National Centre of Gastrointestinal & liver disease *Dr Suzan Elhakeim*
  
  Pattern of gall stone (GS) size & number in 1263 otherwise normal Sudanese subjects & their impact in the development of gall bladder disease & complications at the National Centre of Gastroentrology & Hepatology in Sudan during the last 10 years *Dr Susan Elhakeim*
  
  Appendicitis and its mimics *Dr Melanie Seale*
  
  The abnormal bowel: A sonographic pictorial *Martin Necas*

- **Lunch**  
  13:00 - 14:00

- **Concurrent Session 3I: GENERAL - Pancreas**  
  14:00 - 15:00
  
  Cystic pancreatic lesions - an (endoscopic) ultrasound based management algorithm *Dr Christian Jenssen*
  
  Elastography and contrast-enhanced ultrasound for focal pancreatic lesions: Does it help? *Prof Adrian Saftoiu*
  
  Small solid pancreatic lesions - the role of endoscopic ultrasound *Dr Christian Jenssen*
  
  Interventional ultrasound for drainage of pancreatic fluid collections: External or internal? *Prof Adrian Saftoiu*
- Afternoon Tea
  Trade Hall
  15:00 - 15:30

- OPENING PLENARY SESSION
  15:30 - 17:00

- Welcome Drinks
  17:00 - 19:30