

Stream A

- Concurrent Session 1A: MSK & RHEUMATOLOGY 08:30 - 10:30
 - Ultrasound of brachial plexus injuries
 - Post op shoulders with shearwave assessment *Lisa Hackett*
 - Hot topics in musculoskeletal ultrasound *Dr David Lisle*
 - Muscle injuries in elite athletes
 - 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
 - Calcific tendinosis *Dr David Lisle*
 - Ultrasound of the rotator cuff interval and biceps tendon
 - 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 Ron Adler*

- 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
 - 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* 08:30 - 10:30
Dynamic left ventricular outflow obstruction *Dr David Clancy*
Ability of diagnostic lung ultrasound to predict duration of ventilation in the critically ill patient (ASUM Research Grant Winner) *Dr George Ntoumenopoulos*

■ 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 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 Australia
Qualification of blood flow in 3D ultrasound

Matrix transducers for real-time 3D imaging: From intra-cardiac to trans-cranial applications	08:30 - 10:30
Dual frequency ultrasound angiography	
<ul style="list-style-type: none"> ■ Morning Tea <i>Trade Hall</i>	10:30 - 11:00
<ul style="list-style-type: none"> ■ Concurrent Session 2C: VASCULAR Aortoiliac & EVAR AAA screening Let's get education on EVAR surveillance Small infrarenal Aortic size - what does this imply? <i>Prof Greg Jones</i>	11:00 - 13:00
<ul style="list-style-type: none"> ■ Lunch 	13:00 - 14:00
<ul style="list-style-type: none"> ■ Concurrent Session 3C: VASCULAR Ultrasound Training in ANZ - A New Paradigm? How do vascular surgeons learn vascular ultrasound? <i>Jason Chuen</i> Dual frequency ultrasound angiography <i>Prof F. Stuart Foster</i> Ultrasound in medical education, evidence, expert consensus and current status Necessary elements for ultrasound integration into medical school curriculum <i>A/Prof Harvey Nisenbaum</i>	14:00 - 15:00
<ul style="list-style-type: none"> ■ Afternoon Tea <i>Trade Hall</i>	15:00 - 15:30
<ul style="list-style-type: none"> ■ OPENING PLENARY SESSION 	15:30 - 17:00
<ul style="list-style-type: none"> ■ Welcome Drinks 	17:00 - 19:30

Stream D

- Concurrent Session 1D: To Be Announced
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

Point-of-care ultrasound a new option for early quantitative diagnosis of pulmonary edema <i>Xihua Lian</i>	08:30 - 10:30
High-volume peritendinous injections in the management of Achilles tendinopathy <i>Dr Daniel Walkley</i>	
■ Morning Tea <i>Trade Hall</i>	10:30 - 11:00
■ Concurrent Session 2D: WORKSHOPS - General Live Scanning: Practical CEUS & Portal Hypertension Workshop 1: Portal Hypertension <i>Marilyn Zelesco</i> Workshop 2: Hepatic shearwave elastography - how to? <i>Dr Giovanna Ferraioli</i> Workshop 3: Practical contrast ultrasound - how to & cases <i>Jane Keating and Prof Robert Gibson</i>	11:00 - 13:00
■ Lunch	13:00 - 14:00
■ Concurrent Session 3D: WORKSHOP General Live Scanning: Bowel	14:00 - 15:00
■ Afternoon Tea <i>Trade Hall</i>	15:00 - 15:30
■ OPENING PLENARY SESSION	15:30 - 17:00
■ Welcome Drinks	17:00 - 19:30

Stream E

■ Concurrent Session 1E: OBSTETRICS Combined screening for Down syndrome in the NIPT era <i>Dr Andrew McLennan</i> Update on NIPT <i>Dr Lisa Hui</i> Pre-eclampsia screening <i>A/Prof Fabricio Costa</i> Pre-eclampsia prevention <i>Dr Daniel Lorber Rolnik</i> 1st trimester screening for gestational diabetes <i>Prof Jon Hyett</i> Debate <i>Dr Andrew McLennan, Dr Lisa Hui, A/Prof Fabricio Costa, Prof Jon Hyett</i>	08:30 - 10:30
■ Morning Tea	

<ul style="list-style-type: none"> ■ Concurrent Session 2E - OBSTETRICS 	<p>10:00 - 13:00</p>
<p>What to do when NT is $\geq 3.5\text{mm}$ <i>Prof Jon Hyett</i></p> <p>First trimester diagnosis of heart malformations: Are we ready? <i>Dr Simon Meagher</i></p> <p>Screening for spina bifida</p> <p>CNS malformations detectable in the 1st trim <i>Dr Simon Meagher</i></p> <p>Frontiers of ultrasound: Malformations detected at 8-10 weeks <i>Dr Simon Meagher</i></p> <p>Debate <i>Prof Jon Hyett, Dr Simon Meagher</i></p>	
<ul style="list-style-type: none"> ■ Lunch 	<p>13:00 - 14:00</p>
<ul style="list-style-type: none"> ■ Concurrent Session 3E - GYNAECOLOGY 	<p>14:00 - 15:00</p>
<p>Managing ovarian masses: how to classify them using IOTA terminology</p> <p>How to describe an adnexal mass: IOTA terms and definitions</p> <p>What are IOTA easy descriptors and simple rules: How to use them</p> <p>Understanding the IOTA ADNEX model: What are the variables?</p>	
<ul style="list-style-type: none"> ■ Afternoon Tea 	<p>15:00 - 15:30</p>
<ul style="list-style-type: none"> ■ OPENING PLENARY SESSION 	<p>15:30 - 17:00</p>
<ul style="list-style-type: none"> ■ Welcome Drinks 	<p>17:00 - 19:30</p>

Stream F

<ul style="list-style-type: none"> ■ Concurrent Session 1F: WORKSHOPS MSK 	<p>08:30 - 10:30</p>
<p>Live Scanning Workshop – Finger <i>Greg Lammers</i></p> <p>Clinical Scenario Quiz <i>Greg Lammers</i></p> <p>Live Scanning Workshop - Wrist</p> <p>Clinical Scenario Quiz</p>	
<ul style="list-style-type: none"> ■ Morning Tea 	<p>10:30 - 11:00</p>
<p><i>Trade Hall</i></p>	
<ul style="list-style-type: none"> ■ Concurrent Session 2F: WORKSHOPS 	<p>11:00 - 13:00</p>
<ul style="list-style-type: none"> ■ Concurrent Session 2F: WORKSHOPS - MSK Live Scanning: Ankle & Hamstring 	
<p>Live Scanning Workshop – Ankle <i>Mark Smyth</i></p>	

Clinical Scenario Quiz *Mark Smyth* 11:00 - 13:00

Live Scanning Workshop – Hamstring *Martine Chadwick*

Clinical Scenario Quiz *Martine Chadwick*

■ Lunch 13:00 - 14:00

■ Concurrent Session 3F: WORKSHOPS - MSK Live Scanning: Knee 14:00 - 15:00

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

Clinical Scenario Quiz *Daniel Walkley*

Q&A *Daniel Walkley*

■ Afternoon Tea 15:00 - 15:30

Trade Hall

■ OPENING PLENARY SESSION 15:30 - 17:00

■ Welcome Drinks 17:00 - 19:30

Stream G

■ Concurrent Session 1G: GENERAL - NEONATAL 08:30 - 10:30

■ Concurrent Session 1G: GENERAL - NEONATAL 08:30 - 10:30

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

Vascular access: How to do it

Lung ultrasound advanced *Dr Trish Woods*

■ Morning Tea 10:30 - 11:00

Trade Hall

■ Concurrent Session 2G: GENERAL - NEONATAL WORKSHOP

Point of care functional cardiac scanning *A/Prof Koert deWaal* 11:00 - 13:00

Nine concurrent simulator workshops:

3 x Lung ultrasound *Dr Trish Woods, Dr Sheryle Rogerson*

3 x Vascular access

3 x Cardiac *A/Prof Koert deWaal*

■ Lunch 13:00 - 14:00

■ Concurrent Session 3G: GENERAL - NEONATAL All things neonatal 14:00 - 15:00

Posterior fossa and cerebellar haemorrhages. Imaging technique and long term outcome

Necrotising enterocolitis and point of care neonatal abdominal USS

Hip screening and scanning

■ 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 08:30 - 10:30

and more

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

Photoacoustic microscopy for cells in a 3D microenvironment: systems and applications

Prof Pai-Chi Li

Therapy ultrasound – current status and future potential

Artificial intelligence and the future of point of care ultrasound

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

■ Morning Tea 10:30 - 11:00

Trade Hall

■

Concurrent Session 2H: HISTROY, MYSTERY & THE PRESENT AI, Innovation, therapy and more	11:00 - 13:00
Immune stimulation by therapeutic ultrasound	
Dual frequency ultrasound angiography <i>Prof F. Stuart Foster</i>	
Brainstem morphology and movement disorders <i>A/Prof Gabrielle Todd</i>	
Tumour radiosensitisation by therapy ultrasound	
Shear wave elasticity imaging for studying mechanical interactions of cells <i>Prof Pai-Chi Li</i>	
An evaluation of correlation and variability of 2D Pulsed Waved Doppler (PWD)-derived indices at varying flow rates: A Phantom Study <i>Dr Ana Elizabeth Gomes de Melo Tavares Ferreira</i>	
■ Lunch	13:00 - 14:00
■ Concurrent Session 3H: HISTORY, MYSTERY & THE PRESENT	14:00 - 15:00
Bioeffects of ultrasound with long pulse duration during administration of contrast agents.	
From coloured stars to colour flow imaging – or when is ‘Doppler’ not Doppler?	
Measurement of sound velocity change due to ultrasonic heating.	
■ Afternoon Tea	15:00 - 15:30
<i>Trade Hall</i>	
■ OPENING PLENARY SESSION	15:30 - 17:00
■ Welcome Drinks	17:00 - 19:30

Stream I

- Concurrent Session 1I: GENERAL Inflammatory Bowel Disease
- Ultrasound in functional GI disorders *Prof Odd Helga 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

<p>& liver disease <i>Dr Suzan Elhakeim</i></p> <p>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 Gastroentrolgy & Hepatology in Sudan during the last 10 years <i>Dr Susan Elhakeim</i></p>	08:30 - 10:30
<p>Appendicitis and its mimics</p> <p>The abnormal bowel: A sonographic pictorial <i>Martin Necas</i></p>	
<p>■ Morning Tea</p> <p><i>Trade Hall</i></p>	10:30 - 11:00
<p>■ Concurrent Session 2I: GENERAL - Bowel</p> <p>Ultrasound in functional GI disorders</p> <p>Endorectal ultrasound and perineal ultrasound: A new guideline and expert recommendations from EFSUMB</p> <p>TRUS applications in anal and rectal diseases</p> <p>Identifying and defining the abnormal appendix</p> <p>The abnormal bowel: A sonographic pictorial</p>	11:00 - 13:00
<p>■ Lunch</p>	13:00 - 14:00
<p>■ Concurrent Session 3I: GENERAL - Pancreas</p> <p>Cystic pancreatic lesions - an (endoscopic) ultrasound based management algorithm</p> <p>Elastography and contrast-enhanced ultrasound for focal pancreatic lesions: Does it help?</p> <p>Small solid pancreatic lesions - the role of endoscopic ultrasound</p> <p>Interventional ultrasound for drainage of pancreatic fluid collections: External or internal?</p>	14:00 - 15:00
<p>■ Afternoon Tea</p> <p><i>Trade Hall</i></p>	15:00 - 15:30
<p>■ OPENING PLENARY SESSION</p>	15:30 - 17:00
<p>■ Welcome Drinks</p>	17:00 - 19:30