Stream A

- Concurrent Session 13A: MSK & RHEUMATOLOGY 08:30 - 10:30
  Ergonomic improvements to reduce work-related MSK disorders among sonographers
  Dr Yusef Sayeed
  Ultrasound in pain management Dr Colin Chun Wai Chong
  Spondylarthrosis A/Prof Fred Joshua
  Ultrasound-guided spine interventions Dr Yusef Sayeed
  Vasculitis Dr Helen Keen
  The role of musculoskeletal ultrasound in psoriatic arthritis Dr Anita Lee

- Morning Tea 10:30 - 11:00

- Concurrent Session 14A: MSK & RHEUMATOLOGY 11:00 - 13:00
  Calf Injuries Dr Peter Brukner
  Fascicles of the achilles tendon Greg Lammers
  Quadriceps Injuries Dr Peter Brukner
  Ultrasound of Myositis Dr Helen Keen
  US Guided Regenerative Medicine Procedures for MSK Disorders Dr Yusef Sayeed
  Ultrasound-guided percutaneous drainage of psoas abscess by using trans-iliac muscle approach: A three-year experience Dong-Ho Ha
  Q&A

- Lunch 13:00 - 14:00

- Concurrent Session 15A: MSK & RHEUMATOLOGY 14:00 - 15:30
  Scanning the wrist for ligament injuries Le-Anne Grimshaw
  Ulnar Sided Wrist Pain Jan Mulholland
  Advanced palmar fascia Greg Lammers
  What the rheumatologist wants from the bilateral hand and wrist referral A/Prof Fred Joshua
  Q&A

- Afternoon Tea 15:30 - 16:00
Stream B

- Concurrent Session 13B: PoCUS- Abdomen 08:30 - 10:30
  - Trauma in obstetrics *Dr Jorge Rabat*
  - Paediatric trauma *Dr Jorge Rabat*
  - Advances in trauma ultrasound *Prof Paul Sidhu*
  - Should chest US supersede the supine CXR in trauma? *Dr Amaali Lokuge*
  - CEUS in gunshot wound of the liver - first experience in military mission *Christian Richter*
  - BUCKLED: Bedside ultrasound conducted in kids with distal upper limb fractures in the emergency department (observational trial) *Dr Peter Snelling*
  - Q&A

- Morning Tea 10:30 - 11:00

- Concurrent Session 14B: PoCUS- Abdomen 11:00 - 13:00
  - Ileus and obstruction *Prof Dieter Nuernberg*
  - Bowel pathology
  - Free gas *Prof Dieter Nuernberg*
  - The utility of Point-Of-Care Ultrasound (POCUS) in emergency department; an observational study *Dr Pourya Pouryahya*
  - GI cases for discussion *Dr Leanne Hartnett, Prof Dieter Nuernberg, Anil Asthana*

- Lunch 13:00 - 14:00

- Concurrent Session 15B: PoCUS - Abdomen 14:00 - 15:30
  - RUQ - not the usual stones *Dr Leanne Hartnett*
  - RIF pain *Dr James Rippey*
  - Appendix techniques *Dr Wan-Ching Lien*

- Afternoon Tea 15:30 - 16:00

- CLOSING PLENARY CEREMONY 16:00 - 17:30
  
  *Location: Plenary Level 2*
Stream C

- Concurrent Session 13C: CARDIAC- Valves 08:30 - 10:30
  Aortic stenosis Ada Lo
  Mitral regurgitation Dr Helen Thomson
  Aortic regurgitation Ada Lo
  Transoesophageal echocardiography for percutaneous valve interventions Dr John Gelman
  Global challenge of early detection of RHD Dr Gillian Whalley
  Q&A Panel Dr Gillian Whalley, Ada Lo, Dr Helen Thomson, Dr John Gelman

- Morning Tea 10:30 - 11:00

- Concurrent Session 14C: CARDIAC- Focus on the LV function assessment 11:00 - 13:00
  Improving LVEF assessment – contrast and 3D A/Prof Stuart Moir
  Strain imaging in clinical practice: practical tips for sonographers
  Quantification of blood flow in 3D ultrasound - cardiac applications Prof J. Brian Fowlkes
  Left atrial metrics for assessment of diastolic function: is this the future? Prof Liza Thomas
  Evaluation of the effect of hemodialysis on left ventricular longitudinal strain function of myocardium in patients with uremia by velocity vector imaging Yang Li
  Reference ranges for fetal cardiac measurements from two-dimensional echocardiography in Taiwanese Population Prof Ming-Ren Chen
  Assessment of left ventricular systolic function and synchronicity in patients after coronary artery bypass using layer-specific strain technology Prof Lianzhong Zhang

- Lunch 13:00 - 14:00

- Concurrent Session 15C: CARDIAC POCUS 14:00 - 15:30
  Training in POCUS echocardiography for intensivists Dr Vinodh B. Nanjyaya
  Echo by ED physicians – Case vignettes Dr Ash Mukherjee
  Technology steps towards portable 3D ultrasound Prof J. Brian Fowlkes
  Ensuring quality in point of care echocardiography
Stream D

- Concurrent Session 13D: GENERAL - MEN'S HEALTH
  - The ESUR guidelines for ultrasound assessment of varicoceles *Prof Paul Sidhu*
  - ARFI and shear wave imaging of the prostate to delineate clinically-significant cancers *Dr Mark Palmeri*
  - Prostate brachytherapy *Dr Sylvia van Dyk*
  - Penile Ultrasound *Stephen Bird*

- Morning Tea

- Concurrent Session 14D: GENERAL - MEN'S HEALTH - SCROTAL
  - Ultrasound of acute scrotum *Dr Leandro Fernandez*
  - Shear Wave Elastography in the acute scrotum *Steven Abbott*
  - Testicular ultrasound in male fertility *Dr Leandro Fernandez*
  - Nutcracker syndrome: diagnosis with Doppler ultrasound *Prof Seung Hyup Kim*
  - Assessment of the scrotum for pain, masses and fertility *Stephen Bird*
  - Usefulness of evaluating testicular heterogeneity in cases of testicular torsion *Dr Phua Hwee Tang*

- Lunch

- Concurrent Session 15D: Prostate Fusion

- Afternoon Tea

- CLOSING PLENARY CEREMONY
  - Location: Plenary Level 2

Stream E

- Concurrent Session 13E: GYNAECOLOGY
  - PCOS: An international consensus
Common presentations in paediatric and adolescent gynaecology Dr Kate Stone
Assessing ovarian reserve: AFC versus AMH?
Uterine anomalies found on a baseline fertility scan: are they significant?
How I would conduct a baseline fertility scan Dr Davina Tai
Enhanced myometrial vascularity following delivery or early pregnancy loss: is it RPOC, AVMs or a physiological finding? Dr Michael Bethune

- Morning Tea
  10:30 - 11:00
- Concurrent Session 14E: OBSTETRICS
  11:00 - 13:00
  Intergrowth-21st: Findings from longer term follow up and implementation
    Prof Aris Papageorghiou
  What is the best chart to predict perinatal outcome? Prof Sue Walker
  Critical analysis of CPR Prof Sailesh Kumar
  New ideas about fetal Doppler Dr Teresa MacDonald
  FGR - Optimising the timing of delivery Dr Julia Unterscheider
  Q&A Prof Aris Papageorghiou, Prof Sue Walker, Prof Sailesh Kumar, Dr Teresa MacDonald and Dr Julia Unterscheider

- Lunch
  13:00 - 14:00
- Concurrent Session 15E: OBSTETRICS Fetal Therapy
  14:00 - 15:30
  Update on laser for TTTS Dr Mark Teoh
  Therapeutic ultrasound treatment for TTTS Prof Gail ter Haar
  Spina bifida in-utero repair Dr Glenn Gardener
  Ballon for diaphragmatic hernia: The TOTAL trial Dr Glenn Gardener
  Q&A Dr Mark Teoh, Prof Gail ter Haar and Dr Glenn Gardener

- Afternoon Tea
  15:30 - 16:00
- CLOSING PLENARY CEREMONY
  16:00 - 17:30

Stream F
- Concurrent Session 13F: WORKSHOPS - OBSTETRICS Live Scanning
  Live scanning 1: Morphology Angel Lee and Kate Guskich
Live Scanning 2: Fetal Heart *Angel Lee and Kate Guskich*  
08:30 - 10:30

Live Scanning 3: Fetal Growth *Angel Lee and Kate Guskich*

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

- **Concurrent Session 14F: WORKSHOPS MSK Live Scanning: Foot**  
  11:00 - 13:00

  Live scanning workshop – Foot *Stephen Bird*

  Clinical Scenario Quiz *Stephen Bird*

  MSK Live Scanning: Foot and Rheumatology *Dr Colin Chun Wai Chong*

  Rheumatology Workshop *Dr Colin Chun Wai Chong*

  Quiz *Dr Colin Chun Wai Chong*

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

- **Concurrent Session 15F: WORKSHOP MSK Live Scanning**  
  14:00 - 15:30

  Live Scanning Workshop - Elbow *Stephen Bird*

  Quiz *Stephen Bird*

- **Afternoon Tea**  
  15:30 - 16:00

- **CLOSING PLENARY CEREMONY**  
  16:00 - 17:30

  *Location: Plenary Level 2*

**Stream G**

- **Concurrent Session 13G: GENERAL - HEAD & NECK Thyroid**  
  08:30 - 10:30

  Current concepts and management of the enigmatic thyroid nodule *Dr Christopher Low*

  Thyroid classification: Where have we been and where are we going? *Martin Necas*

  Post-operative thyroid US evaluation *Dr Maria Cristina Chammas*

  Neural Network Thyroid Ultrasound *Dr Rachael Bentall*

  Debate: Thyroid classification systems *Martin Necas, Dr Maria Cristina Chammas, Dr Christopher Low, Prof Yung-Liang Wan, Moderator: Dr Daren Gibson*

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

- **Concurrent Session 14G: GENERAL - HEAD & NECK**  
  10:30 - 11:00

  Radiofrequency ablation of thyroid nodules *Dr Woojin Cho*
Ultrasonography and ultrasound guided intervention of salivary gland masses  
Prof Yung-Liang Wan

Evaluation of cervical lymph nodes (duplex scan and color Doppler)  
Dr Maria Cristina Chammas

Vascular curiousities in the head and neck region  
Martin Necas

Contrast enhanced ultrasound in head and neck lymph nodes  
Steven Abbott

HPV in the head and neck region  
Jo McCann

Lunch

Concurrent Session 15G: GENERAL - HEAD & NECK

Intra-oral ultrasound  
Dr Daren Gibson

Advanced ultrasound applications in head and neck surgery  
Dr Christopher Low

Establishing a "One stop head and neck clinic"- the Fiona Stanley experience  
Steven Abbott

Ultrasonographic prediction of the location of the proximal submandibular stones relative to the lingual nerve for the strategic transoral surgery  
Prof Jeong Kyu Kim

Development of radiofrequency ablation devices with neuromonitoring system to detect recurrent laryngeal nerve in thyroid nodule  
Byung-Joo Lee

Ultrasound radimoics nomogram for predicting lymph node metastasis in papillary thyroid carcinoma  
Dr Shi-Chong Zhou

Afternoon Tea

CLOSING PLENARY CEREMONY

Location: Plenary Level 2

Stream H

Concurrent Session 13H: WFUMB EDUCATION
The importance of WFUMB Education  Prof Odd Helge Gilja  08:30 - 10:30
WFUMB plans and activities of e-learning  Dr Adrian Goudie
Overview and challenges of WFUMB CoEs  Prof Dieter Nurnberg
How to excel in running a CoE  Prof Sudhir Vinayak
Improving ultrasound education in the Pacific Region  Raymond Keshwan

Morning Tea  10:30 - 11:00

Concurrent Session 14H: Professional Issues for ALL Ultrasound Providers  11:00 - 13:00
Ultrasound education in Bangladesh  Prof Kanu Bala
Portfolios and practices for lifelong learning in ultrasound education  Dr Jillian Clarke
Point of Care Ultrasound Training for medical students: Is it beneficial?  Dr Yuyang Tan
How we create sound for ultrasound imaging is changing - will these changes improve patient care?  Kevin Rooker
Understanding the processes that contribute to a sonographers professional identity and role in communication in obstetric ultrasound  Samantha Thomas
Time to establish pillars in Point of Care Ultrasound  Carolynne J Cormack
Australian sonographer skill teaching practices survey: An inaugural report of the instructional approaches used to teach psychomotor skills required for clinical practice  Delwyn Nicholls
Panel Discussion:  Prof Kanu Bala, Dr Jillian Clarke, Yuyang Tan, Kevin Rooker, Samantha Thomas and Carolynne J Cormack

Lunch  13:00 - 14:00

Concurrent Session 15H: WFUMB Centres of Education
Introduction - the idea of WFUMB COEs  Prof Dieter Nurnberg
15 years US education in a large and poor country - a drop in the ocean?  Prof Kanu Bala - Bangladesh
US education in Africa – only possible with the help of (non-doctors) sonographer  Michael Kawooya - Uganda
An East-Europe COE on the way to a real excellence centre  Prof Ioan Sporea - Romania
US education in spite of long distances and problems with foreign languages  Erdenebileg Bavuujav - Mongolia
Infection diseases – a big problem in Sudan and the role of US Dr Suzan Elhakim - Sudan
Situation in South America – more to do for WFUMB? Dr Ramon Bataglia - Paraguay
Discussion A/Prof Sue Westerway

- Afternoon Tea
- CLOSING PLENARY CEREMONY
  
  **Location: Plenary Level 2**

**Stream I**

- Concurrent Session 13I: PAEDIATRICS - Advanced Techniques
  
  CEUS – what is it? Theory and technique Peter Burns
  
  CEUS in paediatric hepatic lesions Prof. Dr. Christoph F Dietrich
  
  Liver transplant US; how and when? Tania Griffiths
  
  Elastography in the child. Normal values for different tissues Prof. Dr. Christoph F Dietrich

- Morning Tea

- Concurrent Session 14I: GENERAL - PAEDIATRICS Body
  
  Thoracic US – Technique and pathology Prof. Dr. Christoph F Dietrich
  
  Blueberries vs Melons - Paediatric and adolescent breast ultrasound Sara Kernick
  
  AI augmented 3D ultrasound for hip dysplasia Dr Jeevesh Kapur
  
  US evaluation of the child and adolescent with gynaecological problems Dr Kate Stone

- Lunch

- Concurrent Session 15I: GENERAL - PAEDIATRICS - Abdomen
  
  US in appendicitis Lino Piotto
  
  Pyloric Stenosis: The Patient's Journey Joanne Tang
  
  Super-califragilistic-hyperbili-rubin-aemia! Clinical and sonographic presentation of biliary atresia Chelsea Russell and Sara Kernick
  
  The role of ultrasound and MRI in adolescent and paediatric gynaecology Dr Kate Stone and Dr Natalie Yang
Afternoon Tea  

- CLOSING PLENARY CEREMONY
  
  *Location: Plenary Level 2*