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. Nanjayya
  - 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
Afternoon Tea 15:30 - 16:00

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

Stream D

- Concurrent Session 13D: GENERAL - MEN’S HEALTH 08:30 - 10:30
  The ESUR guidelines for ultrasound assessment of varicoles 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 10:30 - 11:00

- Concurrent Session 14D: GENERAL - MEN’S HEALTH - SCROTAL 11:00 - 13:00
  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 13:00 - 14:00

- Concurrent Session 15D: Prostate Fusion 14:00 - 15:30
- Afternoon Tea 15:30 - 16:00
- CLOSING PLENARY CEREMONY 16:00 - 17:30
  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 11:00 - 13:00
  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 Bavujjav - 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*