

DAY 1 – TUESDAY 10TH DECEMBER 2024

Plenary 1 – Hall 5

PRESIDENT'S ADDRESS

9.15 Prof Adrian Lim, BMUS President

GENERAL MEDICAL AND PAEDIATRICS

The general medical stream this year will follow the usual principles of lecture-based education delivered by established experts in their subject matter as well as proffered papers highlighting new research, innovations and case studies. The general strapline of the conference 'working together for better services' highlights the multi-disciplinary nature of healthcare and diagnostics. To this end, this stream will be directed at both the specifics of diagnostic ultrasound alongside how these fit into the wider patient journey.

BOWEL ULTRASOUND FOR THE GENERALIST

9.30–11.00 Chairs: Dr Peter Cantin, University Hospitals Plymouth NHS Trust, Dr Pamela Parker, Hull University Teaching Hospitals

9.30 **Bowel Ultrasound Technique and Anatomy**, Dr Ruth Reeve, Portsmouth Hospitals University NHS Trust

9.55 **Paediatric Bowel in the Acute Setting**, Dr Jeannette Kraft, Leeds Children's Hospital

10.20 **A generalists' guide to bowel pathology**, Dr Nigel Grunshaw, Furness General Hospital

10.50 **Utilising Ultrasound for Perianal Fistula Disease**, Laura Jones, Cardiff University

RENAL SESSION

11.30 – 13.00 Chairs: Dr Jeanette Kraft, Leeds Children's Hospital, Prof Adrain Lim, Imperial College Healthcare NHS Trust

11.30 **Vascular flow patterns Assessment and Application in the renal transplant**, Dr Peter Cantin, University Hospitals Plymouth NHS Trust

11.55 **Scanning of the paediatric kidney: Congenital disease**, Dr Louise Hattingh, Bradford Teaching Hospitals NHS Foundation Trust

12.20 **Sonographic assessment of urinary tract tumours**, Mr James Burn, Imperial College London

12.50 **Enhancing Accessibility: Evaluating the Integration and Demand for British Sign Language (BSL) in Ultrasound**, Saraaz Khalil Bradford NHS Hospitals Trusts

ULTRASOUND IN CANCER SESSION

14.00 – 15.30 Chairs: Dr Simon Freeman, University Hospitals Plymouth NHS Trust, Prof Adrian Lim, Imperial College Healthcare NHS Trust

14.00 **Ultrasound Screening for Hepatocellular Carcinoma: An Update**, Dr Benjamin Stenberg, Freeman Hospital

14.25 **The paediatric abdominal mass**, Dr Tom Watson, Great Ormond Street Hospital

14.50 **Management of Serious and Unexpected findings**, Dr Adam Aboalkaz, University Hospital Wales

15.10 Handheld and traditional high frequency ultrasound for Photodynamic Therapy (PDT) and skin radiotherapy – The Christie experience, Colin Swift, Christie NHS Foundation Trust

DONALD MACVICAR BROWN LECTURE

16.00–17.00 Chairs: Prof. Adrian Lim, Charing Cross Hospital, Miss Shaunna Smith, Hull University Teaching Hospitals

16.00 **Let it Flow**, Dr Colin Deane, PhD, FIPEM, Kings College Hospital

Dr Colin Deane is a Clinical Scientist and Honorary Senior Lecturer at King's College, London UK. After initially studying engineering at Southampton, he completed a PhD in Medical Engineering and Physics at King's College London. He undertook further postdoctoral training at the Department of Radiology in Thomas Jefferson University Hospital, Philadelphia. He specialised in vascular ultrasound for over 30 years in clinical practice and research at the Vascular Laboratory at King's. He is actively involved with education and training in medical ultrasound and has taught and led on the KCL MSc in Medical Ultrasound Programme. He has written on ultrasound and its use in vascular diagnosis particularly on neurovascular, renovascular and peripheral vascular applications. He retired from King's in 2022, having spent the last six years as Director for the MEP care group. From 2010 to 2012 he was President of the British Medical Ultrasound Society. He still enjoys his clinical work and continues to teach the theory and application of medical ultrasound to anyone who'll listen with a degree of self-interest as he gradually moves from provider to recipient of medical services.

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Canon Industry Education Session – Canon Stand, Exhibition Hall

13.30 **Sonographer burnout**, Dr Judith Johnson, University of Manchester and Manchester University NHS Foundation Trust



Plenary 2 – Business Lounge North

HEAD AND NECK

The Head and Neck session will embrace the conference theme of working in collaboration and how it benefits the patients. It will explore the more unusual pathologies and cover topics that enhance the everyday practice of ultrasound practitioners.

HEAD AND NECK - MULTIDISCIPLINARY TEAM IN ACTION, WORKING TOGETHER FOR A BETTER SERVICE

9.30 – 11.00 Chairs: Mrs Catherine Kirkpatrick, Lincoln County Hospital, Dr Christopher Greenall, Cwm Taf Morgannwg University Health Board

9.30 **Thyroid Imaging - Is it all about ultrasound?**, Dr Sobana Battison, University Hospital Southampton NHS Foundation Trust

9.50 **Imaging of the parathyroids - should it be all about ultrasound?**, Mr Colin Griffin, Liverpool University Hospitals NHS Foundation Trust

10.10 **What the parathyroid/thyroid surgeon needs from radiology**, Dr Sheila Fraser, Leeds Teaching Hospitals NHS Trust

10.30 **Developing Multi-Disciplinary Head and Neck Services – A Careers Worth of Experience!**, Dr Ram Vaidhyanath, University Hospitals of Leicester NHS Trust

ADVANCED HEAD AND NECK ULTRASOUND/IMAGING

11.30 – 13.00 Chairs: Mrs Catherine Kirkpatrick, Lincoln County Hospital, Dr Ram Vaidhyanath, University Hospitals of Leicester NHS Trust

11.30 **Neck Lumps in Patients with Otalgia**, Dr Christopher Greenall, Cwm Taf Morgannwg University Health Board

11.50 **Cross sectional Head and Neck imaging: a guide for sonographers**, Mrs Amy Barnes, University Hospitals of Leicester NHS Trust

12.10 **Ultrasound of head and neck nerves - seeing beyond the obvious!**, Dr Alexander Loizides, Medical University Innsbruck Department of Radiology

12.50 Q&A

TRANSFORMING ULTRASOUND EDUCATION AND THE FOUR PILLARS OF PRACTICE

14.00 – 15.30 Chairs: Dr Pamela Parker, Hull University Teaching Hospitals, Miss Shaunna Smith, Hull University Teaching Hospitals

Ultrasound education has developed considerably over the past decade, with alternative routes, methods of training and trainers. This session will look at how we can become more creative with education delivery and what we can do to support individuals beyond qualification. The domain of education and research is discussed.

14.00 **Entry into ultrasound education, an update for clinical departments**, Dr Trudy Sevens, South Yorkshire Acute Federation

14.30 **The pillar of Education and its role in advancing practice within the ultrasound**, Ms Farrah Elsaghir, AECC University College

14.55 **Going beyond advanced clinical practice into expert practice**, Dr Pamela Parker, Hull University Teaching Hospitals

Plenary 3 – Hall 4

ULTRASOUND PHYSICS 1

9.30 – 11.00 Chair: Prof Pete Hoskins, Edinburgh University, Dr Sian Curtis, University Hospitals Bristol and Weston NHS Foundation Trust

This session will cover the development of ultrasound techniques for clinical and preclinical applications.

9.30 **Ultrasound Elastography: what are you measuring?**, Dr Kumar Ramnarine, Guy's and St Thomas' NHS Foundation Trust

10.00 **The NPL's Initiatives to Increase Confidence in Elastography as a Quantitative Diagnostic Tool**, Dr Andre Alvarenga, National Physical Laboratory

10.30 **Feasibility of using super-resolution ultrasound imaging for prostate cancer**, Vassilis Sboros, Heriott Watt University

10.40 **Eight Year Longitudinal Study of Acoustic Properties of IEC Agar-Based Tissue-Mimicking Material**, Raphaela Baesso, National Physical Laboratory

10.50 **Can 3-D cranial ultrasound be used to successfully reconstruct a 2-D image without compromising on image quality in a neonatal population?**, Sian Curtis, University Hospitals Bristol and Weston NHS Foundation Trust

ULTRASOUND PHYSICS 2

11.30 – 13.00 Chair: Prof Pete Hoskins, Edinburgh University, Dr Sian Curtis, University Hospitals Bristol and Weston NHS Foundation Trust

This session will cover recent advances in technology and applications of technology for diagnosis and therapy.

11.30 **Ultrasound-mediated chemoradiation therapy for muscle-invasive bladder cancer**, Dr Jialing Ruan, University of Oxford

12.00 **The curious case of the contrast microbubble (Part 2): Science or fiction**, Dr Vassilis Sboros, Heriott Watt University

12.30 **Non-invasive microsurgery using focused ultrasound and acoustic particles**, Dr James Choi, Imperial College London

ULTRASOUND PHYSICS 3

14.00 – 15.30 Chair: Prof Pete Hoskins, Edinburgh University, Dr Sian Curtis, University Hospitals Bristol and Weston NHS Foundation Trust

This session will cover ultrasound metrology

14.00 **A programme of work from the National Physical Laboratory for the safety, efficacy, and compliance of ultrasound in medical applications**, Dr Srinath Rajagopal, National Physical Laboratory

14.30 **Challenges associated with quantifying modern medical ultrasonic fields**, Dr Andrew Hurrell, Precision Acoustics Ltd

15.00 **Measurement and modelling for novel therapeutic applications of ultrasound**, Dr Rui Xi, University College London

Satellite Session - Midea Lounge

WORKING SMARTER: ALIGNING TECHNOLOGY WITH HEALTHCARE.

9.30 – 11.00 Chairs: Dr Rita Phillips, University of West England, Mr Antonio Sassano, University of West England

This session will provide insights into contemporary ultrasound technology including AI -- both educational and clinical use.

9.30 **AI in clinical Practice**, Dr Ben Stenberg, Newcastle upon Tyne NHS Foundation Trust

9.50 **Using simulation technology in teaching and learning**, Mrs Catriona Hynes, Sheffield Hallam University

10.10 **AI - taking Ultrasound to the next level**, Mr Hasnian Ahmed, GE

10.30 Accuracy of Transvaginal Duplex Ultrasound Compared to Catheter Venography for the Identification of Pelvic Vein Incompetence in Patients with Chronic Pelvic Pain, Daxina Bhatt, Manchester University NHS Foundation Trust

10.40 Balancing Cost, Detection Rates, and Acceptability: The Role of Synchronous & Asynchronous Teleultrasound in Obstetric Ultrasound, Hafsa Elmi, King's College London

10.50 An evaluation on the accuracy of CEUS at characterising focal liver lesions compared to cross-sectional imaging and how CEUS can be implemented into an ultrasound department, Chris McManus, University of Cumbria

11.00 Contrast-enhanced ultrasound guided biopsies of liver lesions not visualized on standard B-mode ultrasound - A case study, Barbie Giri, Kings College Hospital

WORKING BEYOND THE DIAGNOSIS: ADVANCE THROUGH RESEARCH

11.30 – 13.00 Chairs: Mr Antonio Sassano, University of West England, Mrs Catriona Hynes, Sheffield Hallam University

This session will provide tips to enable practitioners to broaden their horizons to develop transferable skills.

11.30 **AI to help learn and research**, Mr Ben Potts, University Hospital Southampton NHS Foundation Trust

11.50 **How to secure grants /funding for research**, Dr Ruth Reeve, Portsmouth Hospitals University NHS Trust

123.10 **Publishing your research (dos and don'ts)**, Mr Colin Griffin, Liverpool University Hospitals NHS Foundation Trust

12.30 Ultrasound Guided Thyroid Fine Needle Aspiration: Radiologist or Sonographer, Does it Matter? Alison Everett, Glasgow Caledonian University

12.40 Exploring healthcare professionals' perspectives and current practice around reporting pelvic congestion in women using ultrasound, Lauren Lewis, City, University of London

12.50 A Clinical Audit to Determine Compliance with the Ultrasound Reporting Guidelines for Haemorrhagic Ovarian Cysts at Mid Yorkshire Hospitals NHS Teaching Trust, Emily Waldron, Mid Yorkshire Hospitals NHS Teaching Trust

13.00 The use of contrast enhanced ultrasound for thyroid nodule classification: A literature review, Hannah Grocutt, Royal Cornwall Hospitals NHS Trust

WORKING FROM WITHIN: UNLOCKING THE POWER OF SELF

14.00 – 15.00 Chairs: Chairs: Dr Rita Phillips, University of West England, Mr Colin Griffin, Liverpool University Hospitals NHS Foundation Trust

This session will consider strategies for practitioners to work towards promoting inner well being

14.00 **The Second Victim Phenomenon**, Mrs Elaine Gardiner, Glasgow Caledonian University

14.20 Sonographers' perspectives towards the increase in medico-legal litigation: An exploratory qualitative study, Megan Watkin-Bennett, Birmingham City University

14.30 Scanning after a missed diagnosis: exploring the aftermath of practicing after an undetected fetal condition for an undetected fetal condition for NHS obstetric sonographers, Alessandra Rocca, City, University of London

14.40 From Benign Cyst to Pseudomyxoma Peritonei: Ultrasound's Pivotal Role in Diagnosing an Elusive malignancy, Elisa Pace, Kings College London

14.45 A case of Small Bowel Mesenteric Cyst presenting as an early ovarian Cyst - a case report, Angharad Elmi, Glasgow Royal Infirmary

14.50 **Prevention of Work-related Musculoskeletal Disorders for Sonographers**, Dr Viv Gibbs, University of West England

15.10 **Seated and Standing Yoga Stretches for sonographer**, Miss Charlotte Bower, Body Flow Yoga

Practical Workshop – Dhillon’s Lounge

MSK UPPER LIMB

11.30 – 13.00 Led by Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust

Practical workshops are aimed at beginner and intermediate MSK sonographers who require top tips and tricks to ensure optimal imaging. Each station will have an experienced sonographer to help delegates practice and build on patient positions, ultrasound techniques and recognise complex anatomy.

Ms Amanda Parry, University Hospitals of Leicester NHS Trust
Mr Richard Brindley, Cannock MSKU Department Rheumatology
Mrs Nikki Delves, Queen Victoria Hospital NHS Foundation Trust
Miss Katie Simm Whiston Hospital
Miss Lynn Bradley, Cannock Hospital
Mr Andrew Longmead, Midlands Partnership NHS Foundation Trust
Mr Mark Maybury, University Hospitals Birmingham Foundation Trust

MSK LOWER LIMB

14.00 – 15.30 Led by Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust

Practical workshops are aimed at beginner and intermediate MSK sonographers who require top tips and tricks to ensure optimal imaging. Each station will have an experienced sonographer to help delegates practice and build on patient positions, ultrasound techniques and recognise complex anatomy.

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