

DAY 1 – TUESDAY 5TH DECEMBER 2023

Plenary 1 – Voltigeur 2 (3rd Floor)

PRESIDENT'S ADDRESS

Prof. Adrian Lim, BMUS President

GENOMICS FOR OBSTETRIC SONOGRAPHERS

9.30–11.00 Chairs: Mrs Ellen Dyer, Rosie Hospital, Dr Rita Phillips, University of the West of England

Making genomics accessible to all. Genomics has the potential to revolutionise pregnancy care. This session aims to equip delegates with essential genomics knowledge.

9.30 **Genetic tests explained: NIPT, RP-WES (exome sequencing), karyotype, microarray, qf-PCR, targeted variant testing**, Dr Gemma Chandratillake, Cambridge University Hospitals

10.00 **How genomics has changed fetal medicine**, Dame Lyn Chitty, University College London

10.30 **Revisiting the scan findings of common chromosomal differences**, Dr Trish Chudleigh, Addenbrooke's Hospital, Cambridge University Hospitals

10.50 The impact on second victim obstetric sonographers following a diagnostic error and support mechanisms: An exploration, Elaine Gardiner, Glasgow Caledonian University

UNDERSTANDING TWIN PREGNANCIES

11.30–13.00 Chairs: Dr Trish Chudleigh, Addenbrooke's Hospital, Cambridge University Hospitals, Miss Alison Smith, Guy's & St Thomas' Hospital

Scanning twins is sometimes challenging. This session aims to demystify twins with the help of some expert speakers.

11.30 **Review of twin guidelines – what we all need to know**, Mrs Ellen Dyer, Rosie Hospital

11.50 **Twin tips and tricks: dating, anatomy and growth**, Mrs Kellen Gipson, Rosie Hospital

12.10 **TAPS, TTTS and selective growth restriction – telling the difference**, Prof. Asma Khalil, St George's University Hospitals NHS Foundation Trust

12.40 The effect of an enhanced fetal growth ultrasound protocol on pregnancy outcomes: A retrospective service evaluation within a single UK NHS Centre between 2014–2022, Eleanor Butterfield, Frimley Health NHS Foundation Trust

12.50 **Tips and tricks for performing and interpreting MCA Doppler PSV**, Mrs Sally Holloway, University of Cambridge

OBSTETRIC TEACHING AND RESEARCH

14.00–15.30 Chairs: Dr Trish Chudleigh, Addenbrooke's Hospital, Cambridge University Hospitals, Mrs Ellen Dyer, Rosie Hospital

During this session we will look at why women's reproductive health research is everyone's business and how we can inspire the next generation of obstetric sonographers.

14.00 **NIHR RH&C strategy: Where do sonographers fit in?**, Mr Nigel Simpson, National Institute for Health and Care Research

14.20 **Creating enquiring minds:** Inspiring the next generation of obstetric sonographers, Mrs Famida Sadak, Princess Anne Hospital

14.40 **Obstetric audits: How do we make them more than a box-ticking exercise?**, Mrs Clare Collier, York and Scarborough NHS Trust

15.00 **PROMETHEUS study: Prospective trial of machine learning to help fetal ultrasound scanning**, Dr Thomas Day, King's College London

15.20 What are midwives' and sonographers' understanding and experience of the informed consent process within antenatal screening for fetal anomalies following changes in professional and legal guidance?, Alexandra Drought, London South Bank University

DONALD MACVICAR BROWN LECTURE

16.00–17.00 Chairs: Prof. Adrian Lim, Charing Cross Hospital, Dr Barry Ward, Newcastle upon Tyne Hospitals NHS Foundation Trust

16.00 **Don't mention the P word ... !**, Dr Heather Venables, University of Derby

The theme of the Annual Scientific Meeting this year is “pushing the boundaries of medical imaging”. In this talk, I'll be reflecting on my own ultrasound journey, exploring some of the catalysts for the extraordinary changes I've witnessed and some of the obstacles that needed to be overcome.

I've always been interested in technology and have spent most of my career trying (with varying degrees of success!) to share some insight into this extraordinary tool that we hold literally at our fingertips. I may be known to most as a physics enthusiast, but it has always been people who have motivated me – both the talented professionals I've worked alongside and the people within our communities who use our services.

As we acknowledge the challenges that we face, we need to think ahead to what those services could look like in future. I'll be sharing my thoughts on why we may need to rethink priorities, why we need to engage with technology developments and the importance of building a workforce that is not only trained but inspired.

Sponsored by Canon Medical Systems



17.00 DRINKS RECEPTION

Plenary 2 – Voltigeur 1 (3rd Floor)

THE USE OF ULTRASOUND IN ACUTE TRAUMA

9.30–11.00 Chairs: Ms Amanda Parry, University Hospitals of Leicester NHS Trust, Mrs Catharine Berry, University Hospitals of Leicester NHS Trust

Ultrasound is becoming an increasingly popular tool in the assessment of acute injury. This session aims to provide an insight into ultrasound diagnosis and guidance for onward management of injuries following trauma. Presentations include Achilles tendon, hand injuries and the distal biceps from experienced speakers in their field.

9.30 **Achilles tendon pathologies: Pearls and pitfalls**, Dr Syed Ali, Lancashire Teaching Hospitals NHS Foundation Trust

10.00 **Ultrasound of distal biceps injuries: Tips, tricks and how to stay out of trouble!**, Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust

10.30 **The role of ultrasound in hand trauma**, Miss Marlies Schreuder, Sherwood Forest Hospitals NHS Trust

ULTRASOUND IN THE MANAGEMENT OF MSK DISEASE PROCESS

11.30–13.00 Chairs: Ms Amanda Parry, University Hospitals of Leicester NHS Trust, Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust

This session aims to highlight the importance of not only ultrasound diagnosis but also its use in the management of complex disease processes such as Rheumatology, sarcoma and more generalised musculoskeletal disease. Highly experienced speakers will give presentations on their area of expertise

11.30 **Ultrasound of soft tissue masses**, Dr Rachel Musson, Sheffield Teaching Hospitals NHS Foundation Trust

12.00 **Rheumatoid arthritis ultrasound – what does the rheumatologist want to know?**, Mrs Kate Smith, Chapel Allerton Hospital

12.30 **Tendons – the requisites!**, Mr James Marcus, University of Leeds

12.50 A clinical case study of an atypical spontaneous hematoma, Reena Tweddle, York and Scarborough Teaching Hospitals

Industry Education Session

13.10 – 13.40	The future is now: AI in obstetric ultrasound , Prof Aris Papageorghiou, Short presentation and live scan	Sharpo Room, Floor 2	GE
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ULTRASOUND IN OTHER SPECIALITIES

14.00–15.30 Chairs: Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust, Ms Amanda Parry, University Hospitals of Leicester NHS Trust

Ultrasound imaging is provided by a number of practitioners, for use as a tool in their own specialities. In this session, we hear from three specialist providers who give insight into the use of ultrasound in their professions, including podiatry, sports medicine and physiotherapy.

14.00 **Ultrasound of the shoulder – beyond the rotator cuff**, Mr John Leddy, Frimley Health NHS Trust

14.30 **The clinical and ultrasound assessment of the central forefoot**, Mr Jai Saxelby, Sheffield Teaching Hospitals NHS Foundation Trust

15.00 **Utilising ultrasound imaging as a health & performance tool in elite football**, Dr Steve McNally, Professional Game Match Officials Ltd

15.20 Small but not insignificant: Ultrasound of the superficial peroneal nerve, Samir Paruthikunnan, York and Scarborough Teaching Hospitals NHS Foundation Trust

Plenary 3 – 4th Floor Box 1

ULTRASOUND-GUIDED INTERVENTION

9.30–11.00 Chairs: Mrs Pam Parker, Hull University Teaching Hospitals NHS Trust, Dr Ben Stenberg, Freeman Hospital

A look at the uses and considerations around ultrasound guided interventional procedures in a range of specialities and how you might go about setting up an interventional service.

09.30 **The principles of superficial intervention**, Ms Amy Barnes, University Hospital of Leicester

9.45 **The principles of prostate intervention**, Mr Joseph Robinson, James Cook University Hospital

10.00 **The principles of MSK intervention**, Miss Alison Hall, The Royal Wolverhampton NHS Trust

10.15 **The principles of abdominal intervention**, Dr Andy McNeill, Freeman Hospital

10.30 **Setting up a new non-medical interventional service**, Mrs Roma Dave, Portsmouth Hospitals University NHS Trust

POCUS 1: HOT TOPICS IN POCUS

11.30–13.00 Chairs: Prof. Bob Jarman, Royal Victoria Infirmary, Dr Anna Colclough, University Hospital Lewisham

PoCUS is increasingly being included in the curricula of many medical specialities and allied professions. As a result, we will need to train many more clinicians, especially in new areas of PoCUS practice. This will be a challenge with current NHS pressures and resources. This session will explore innovations to overcome barriers to training and how we can support great practice in PoCUS.

11.30 **Can general practice be improved with ultrasound?**, Dr Lee Pursglove, The Gables Medical Group

11.43 **Prehospital PoCUS by London's Advanced Paramedic Practitioners in Critical Care**, Mr Nick Brown, London Ambulance Service

11.56 **Developing a bespoke PoCUS PACS and quality-assurance system**, Dr Ashley Matthies, Homerton Healthcare NHS Foundation Trust

12.09 **Ultrasound can be used to add value for all stages of medical school training**, Dr Kate Dulohery, Sunderland University

12.22 **Forget the morphine: Regional ultrasound-guided nerve blocks for acute pain**, Dr Jonathan Womack, Royal Victoria Infirmary

12.35 **Big PoCUS for mini-patients: The role of ultrasound in paediatric acute care**, Dr Zoltan Gyorgyi, Royal Hospital for Children and Young People, Edinburgh

12.48 Development & support of palliative care PoCUS at Marie Curie Hospice, Liverpool, Colin Griffin, University of Salford

POCUS 2: THE PHANTOM IN POCUS

14.00–15.30 Chairs: Prof. Bob Jarman, Royal Victoria Infirmary, Dr Ashley Matthies, Homerton Healthcare NHS Foundation Trust

Many aspects of learning PoCUS skills, especially with regard to practical procedures, can be aided by practising on an ultrasound phantom. However, are you fed up with expensive and low-fidelity models? If so, we hope to change your mind by showcasing some amazing and affordable creations, covering a variety of clinical applications. At the end of this session, you get to decide who is Top Phantom!

14.00 **Why don't you?! Reasons to make your own phantom**, Dr Ashley Matthies, Homerton Healthcare NHS Foundation Trust

14.13 **No need to make your own phantom? Using cadavers for ultrasound-guided procedures**, Dr Jonathan Womack, Royal Victoria Infirmary

14.26 **3D-printing your phantoms – here's how to do it**, Dr Krishan Nandapalan, M3dicube

14.39 **Hocus Pocus. What phantom recipes can you make in your cauldron – a review**, Dr Anna Colclough, University Hospital Lewisham

14.52 **Making a fascia iliaca block regional anaesthesia training phantom you can ultrasound**, Dr Karl Chopra, Imperial College Healthcare NHS Trust

15.05 **Introducing the Bob'o'Lung Mark III! State-of-the-art lung ultrasound simulator?**, Prof. Bob Jarman, Royal Victoria Infirmary

15.18 Ultrasound phantom for PoCUS turbo trainer, Richard Beese, Queen Elizabeth Hospital London

Practical Workshop – Dayjur Suite (2nd Floor)

INTERVENTIONAL WORKSHOP

11.30–13.00 Led by Mrs Catherine Kirkpatrick, United Lincolnshire Hospitals NHS Trust

Dr Ben Stenberg, Freeman Hospital

Ms Amy Barnes, United Lincolnshire Hospitals NHS Trust

Mr Joseph Robinson, James Cook University Hospital

Dr Tim Hoare, Newcastle upon Tyne Hospitals

Dr Andy McNeill, Freeman Hospital

Dr Alasdair Mackie, Newcastle Upon Tyne Hospitals

BOWEL ULTRASOUND PRACTICAL

14.00–15.30 Led by Mrs Ruth Reeve, Portsmouth Hospitals University NHS Trust

Dr Richard Beable, Portsmouth Hospitals University NHS Trust
Dr Alasdair Mackie, Newcastle Upon Tyne Hospitals
Dr Tim Hoare, Newcastle Upon Tyne Hospitals
Dr Anmol Gangi-Burton, Nottingham University NHS Trust
Dr Chris Ball, Portsmouth Hospitals University NHS Trust
Dr James A. Stephenson, University Hospitals of Leicester NHS Trust

Satellite Session – 4th Floor Box 11

TECHNOLOGY – REVISITED

9.30–11.00 Chairs: Miss Shaunna Smith, Hull University Teaching Hospitals NHS Trust, Dr Piero Miloro, National Physical Laboratory

This session will provide insights into emerging ultrasound technology developments and their clinical uses including AI. It will also aim to clarify and demystify Doppler technology to enable practitioners to use it effectively.

9.30 **Dreams and Reality: Future possibilities in ultrasound**, Prof. Sandy Cochran, University of Glasgow

9.50 **Doppler for the rookie – a Doppler masterclass**, Dr Barry Ward, Newcastle upon Tyne Hospitals NHS Foundation Trust

10.10 **Multiparametric ultrasound**, Prof Adrian Lim, Charing Cross Hospital

10.30 **Ultrasound users in non-traditional ultrasound departments: An insight into those who use ultrasound for diagnostic purposes within a clinical setting**, Sahra Deane, King's College London

10.40 **Initial operator experiences using a prototype ultrasound system for cavitation-enhanced drug delivery to solid tumours**, Jessica Thorne, Oxford University Hospitals NHS Foundation Trust

PROFESSIONAL AND CLINICAL ISSUES

11.30–13.00 Chairs: Dr Rita Phillips, University of the West of England, Miss Shaunna Smith, Hull University Teaching Hospitals NHS Trust

This session will provide tips to enable practitioners to develop their professional and clinical skills. This includes getting published, improving measurement accuracy and preceptorships

11.30 **Academic writing and becoming published**, Mr Colin Griffin, Liverpool University Hospitals NHS

11.50 **Calliper placement in obstetrics – is accuracy important?**, Dr Nick Dudley, United Lincolnshire Hospitals

12.10 **Making a preceptorship work for you (top tips for how to maximise your preceptorship as the preceptee)**, Mrs Emma Sanderson, Hull University Teaching Hospitals NHS Trust

12.30 **Image quality in renal scanning and identification of perinephric fat stranding for early detection of chronic kidney disease**, Chelsea Scott, King's College University London

12.40 **Nephrocalcinosis: A review of how we assess and report it on ultrasound**, Mayurun Ramadas, Great Ormond Street Hospital for Children

12.50 **Developmental dysplasia of infant hips (DDH): Is there any correlation between high birthweight in females and incidence of DDH identified in ultrasound screening?**, Innocent Onu, Maidstone and Tunbridge Wells Hospital NHS Trust

SURVIVING UNDER PRESSURE

14.00–15.30 Chairs: Dr Rita Phillips, University of the West of England, Miss Shaunna Smith, Hull University Teaching Hospitals NHS Trust

This session will consider strategies for practitioners to cope with the demands of delivering ultrasound services in the current climate.

14.00 **Decision Making – interactive (case scenarios)**, Dr Rita Phillips, University of the West of England, Miss Shaunna Smith, Hull University Teaching Hospitals NHS Trust

14.20 **Feeling like a fraud? Overcoming the imposter phenomenon**, Miss Gill Harrison, The Society and College of Radiographers

14.40 **Reporting do you need to change your ways**, Mrs Morag Stout, National Ultrasound Training programme, NHS Scotland Academy

15.00 Considering the needs of the trans community attending their pelvic scan, Dr Roxanne Sicklen, Royal Free London NHS Trust

15.20 Brain tissue motion in acute ischaemic stroke, Jennifer Nicholls, University of Leicester