

DAY 3 – THURSDAY 7TH DECEMBER 2023

Plenary 1 – Voltigeur 2 (3rd Floor)

THE FOCAL LIVER LESION

09.00–10.50 Chairs: Dr Jeanette Kraft, Leeds Teaching Hospital NHS Trust, Dr Peter Cantin, University Hospital Plymouth NHS Trust

This session is intended to assist the ultrasound practitioner in developing strategies for characterising focal abdominal lesions in the adult and child. It will give hints and tips in the ultrasound management of these patients, discuss the role of new ultrasound technologies and look at how findings might be correlated with other imaging modalities.

09.00 **Ultrasound of the focal liver lesion in the adult**, Prof. Adrian Lim, Charing Cross Hospital

09.20 **Ultrasound of the focal liver lesion in the child**, Dr Helen Woodley, Leeds Teaching Hospital NHS Trust

09.40 **Managing uncertainty. A multimodality approach to the focal liver lesion**, Dr Raneem Albazaz, St James's University Hospital, Leeds

10.05 **Treatment of suspected liver malignancy. Current approaches**, Mrs Helen Reeves, Newcastle upon Tyne Hospital NHS Foundation Trust

10.30 Ultrasound in cases abnormal LFTs: quality of referrals and a need for report standardisation, Morag Stout, NHS Education Scotland

10.40 A preliminary experience in the role of new liver tools in the assessment of steatosis, Andrea Mould, Fiona Stanley Hospital

UROLOGY OUT OF THE ORDINARY

11.20–13.10 Chairs: Mrs Ruth Reeve, Portsmouth Hospitals University NHS Trust, Dr Peter Cantin, University Hospital Plymouth NHS Trust

This session intends to highlight how ultrasound is best used in the patient presenting with a urological problem. It will cover testicular, renal and urinary bladder ultrasound together with new ultrasound technologies being used in assessing the prostate gland. This session will also cover contrast-enhanced ultrasound and multi-parametric ultrasound and their use in refining management strategies in patients who have indeterminate ultrasound findings.

11.20 **Equivocal lesions in the adult testis. The role of multiparametric ultrasound**, Dr Timothy Yusuf, King's College London

11.45 **Scrotal ultrasound in children. An overview**, Dr Jeanette Kraft, Leeds Teaching Hospital NHS Trust

12.10 **The problem transplant kidney. Can new ultrasound technologies help?**, Dr Ben Stenberg, Newcastle upon Tyne Hospital NHS Foundation Trust

12.35 **Micro-ultrasound of the prostate gland. What does it offer?** Mrs Pamela Parker, Hull University Teaching Hospitals

12.55 **Contrast Enhanced Ultrasound (CEUS) for indeterminate renal lesions – What are you waiting for?**, Jamie Wild, Sheffield Teaching Hospitals

OUCH IT HURTS – ULTRASOUND IN THE ACUTE SETTING

14.00–16.00 Chairs: Mrs Ruth Reeve, Portsmouth Hospitals University NHS Trust, Dr Jeanette Kraft, Leeds Teaching Hospital NHS Trust

This session is intended to update ultrasound practitioners who may use ultrasound in an acute setting. It will give insight into ultrasound techniques which may be used in patients presenting with an 'acute abdomen'. The session will look at common acute abdominal complaints in the adult, child and pregnant patient, how ultrasound contributes to their management and recognition of 'red flag' ultrasound signs which might indicate the acutely deteriorating patient.

14.00 **Acute pelvic pain. Non-gynaecological findings in the adult and child**, Dr Peter Cantin, University Hospital Plymouth NHS Trust

14.25 **The child's acute abdomen**, Dr Emily Holt, Leeds Teaching Hospital NHS Trust

14.55 **Ultrasound in acute right upper quadrant pain**, Dr Andrew Logan, Imperial College London

15.20 **Our experience of transitioning to ultrasound as the first-line investigation for suspected midgut malrotation**, Emma Alison, Great Ormond Street Hospital for Sick Children

15.30 **Ultrasound of the appendix**, Erin Nugent, Alberta Health Services Foothills Medical Centre

15.40 **Ultrasound of the acute abdomen. What does the surgeon need to know?**, Mr John Moir, RVI and Freeman Hospital in Newcastle

Plenary 2 – Voltigeur 1 (3rd Floor)

PROFESSIONAL ISSUES 3: MEDICO LEGAL

9.00–10.50 Chairs: Mrs Pamela Parker, Hull University Teaching Hospital NHS Trust, Prof. Rhodri Evans, Withybush Hospital, Hywel Dda University Health Board

Professional Issues sessions will explore the medico-legal world of ultrasound, but from viewpoints other than the traditional or the obvious. As ultrasound continues to 'push the boundaries of clinical imaging', does that have an impact on practitioners in medico-legal terms? What keeps us and our patients safe? How can our patients help themselves and us? In the emerging field of artificial intelligence (AI), where will the boundaries lie?

09.05 **Reporting – do you need to change your ways?**, Mrs Morag Stout, National US Training Programme, NHS Scotland Academy

09.35 **Towards understanding patient and sonographer experience of diagnostic ultrasound imaging reports**, Charlie Rogers, King's College London

09.50 **Ultrasound and the duty of candour – exploring the grey area?**, Prof. Erika Denton, Norfolk and Norwich University Hospitals NHS Trust

10.20 **Lessons learnt from being an expert witness: protecting ourselves from litigation**, Dr Viv Gibbs, University of West England

AI IN IMAGING

11.20–13.10 Chairs: Prof. Adrian Lim, Charing Cross Hospital, Dr Sian Curtis, St Michael’s Hospital

Are we ready for AI in ultrasound imaging and do we even have a choice?

The last few years have provided a rush of artificial intelligence applications across all walks of life and ultrasound is no exception. Should we be embracing this as the future of ultrasound? Do we even have a choice? Will it improve our performance, including accuracy and better patient outcomes? Or is it a slippery slope to the dumbing down and eventual extinction of the sonographer/sonologist? Would you want a self-driving ultrasound machine doing your ultrasound scan? This BMUS debate will explore how much we should be welcoming AI onto our ultrasound machines and can we/should we be stemming the tide anyway?

11.25 **AI in imaging – reasons to be cheerful**, Prof. Erika Denton, Norfolk and Norwich University Hospitals NHS Trust

11.40 **Adoption challenges of AI in medical imaging & ultrasound**, Mr Graham King, AXREM/Annalise.ai

11.55 **AI in imaging – what’s the problem?**, Dr Trish Chudleigh, Addenbrooke’s Hospital, Cambridge University Hospitals

INDUSTRY EDUCATIONAL SESSION

13.15	Advanced technology in breast ultrasound ’ Sahra Deane, Esaote	Voltigeur 1	Esaote
13.35	Mastering Ultrasound Decontamination - Probe Care for Prolonged Performance , Ellie Wishart, Nanosonics Senior Medical Affairs Manager, EMEA	Voltigeur 1	Nanosonics

PROFESSIONAL ISSUES 4: MANAGEMENT

14.00–16.00 Chairs: Mrs Catherine Kirkpatrick, United Lincolnshire Hospitals NHS Trust, Miss Gill Harrison, Society and College of Radiographers

In the second Professional Issues session of the day: As BMUS looks to support all its members to ‘push the boundaries of clinical imaging’ with best-practice documents and clinical guidance, it also promotes the support that should be afforded to the leaders in the ultrasound world with managerial roles. Hot topics in ultrasound management, strategy and team leadership will be key factors in this session.

14.05 BSc (Hons) Medical Ultrasound, direct entry undergraduate education for Sonographers, Anushka Sumra, Birmingham City University

14.20 Addressing challenges of recruitment of non-CASE-accredited practitioners, Mrs Pamela Parker, Hull University Teaching Hospitals

14.50 Developing the next generation of sonography leaders, Catherine Rienzo, Society of Diagnostic Medical Sonography

15.05 Impact on sonographer vetting with implementation of a decision algorithm, Rina Pindora, London North West University Hospital Trust

15.20 Introduction to the BMUS Preceptorship Endorsement Scheme, Mrs Catherine Kirkpatrick, United Lincolnshire Hospitals NHS Trust

15.45 Taking part in the BMUS Preceptorship Endorsement Scheme pilot, Sharon Watty, Guy's and St Thomas' Hospital

Plenary 3 – 4th Floor Box 1

ULTRASOUND PHYSICS 1

09.00–10.50 Chairs: Prof. Peter Hoskins, University of Dundee, Dr Prashant Verma, Sheffield Teaching Hospitals

This session will cover technology developments available commercially and relevant to today's clinical practice

09.00 Commercial ultrasound imaging systems: Established and emerging technologies, Prof. Sandy Cochran, University of Glasgow

09.30 Ultrasound Computed Tomography: Current status and future challenges, Dr Luca Forte, University of Dundee

10.00 Assessment of thermal index compliance in clinical ultrasound examinations, Sam Butler, University Hospitals of North Midlands NHS Trust

10.10 Automated image processing of ultrasound quality assurance (USQA) images, Madalina Negoita, Guy's and St Thomas' NHS Foundation Trust

10.20 Know your limits – predicting AI performance on diverse ultrasound hardware, Dr Laurence Still, Intelligent Ultrasound

ULTRASOUND PHYSICS 2

11.20–13.10 Chairs: Prof. Peter Hoskins, University of Dundee, Dr Prashant Verma, Sheffield Teaching Hospitals

This session will cover technology developments which are either in development or have become recently available commercially.

11.20 High-speed adaptive beam-forming, processing and applications, Prof. Steven Freear, University of Leeds

11.50 Microvascular structure and flow imaging using super-resolution ultrasound localisation microscopy – from benchside to bedside, Prof. Mengxing Tang, Imperial College London

12.20 The effect of dead transducer elements on pulsed Doppler and imaging performance, Daniel Wyatt, Multi-Medix

12.30 7 years of ultrasound probe failures from a monthly QA programme, Jasmin Lister, Sheffield Teaching Hospitals NHS Foundation Trust

12.40 Photoacoustic Imaging – Technical validation and emerging applications, Dr James Joseph, University of Dundee

ULTRASOUND PHYSICS 3

14.00–16.00 Chairs: Prof. Peter Hoskins, University of Dundee, Mr Barry Ward, Newcastle upon Tyne Hospitals NHS Foundation Trust

This session will cover issues relevant to the practice of ultrasound.

14.00 Progress in the development of phase-insensitive pyroelectric sensors for quantitative imaging of breast tissue composition, Dr Dan Sarno, National Physical Laboratory, Teddington

14.30 Harmonisation of international ultrasound safety standards, Dr Prashant Verma, Sheffield Teaching Hospitals

15.00 Exploring phantom types: An overview and recent advances, Dr Simone Ambrogio, Guy's and St Thomas' NHS Foundation Trust

15.30 Quality assurance update, Dr Alban Killingback, St George's NHS Trust

Practical Workshop – Dayjur Suite (2nd Floor)

VASCULAR CAROTID PRACTICAL

09.00–10.50 Led by Tanyah Ewen, North West Anglia NHS Foundation Trust

Ms Jodie Baker, Royal Sussex County Hospital

Mr Michael Lucas, Independent Vascular Services

Mrs Anna Rengel, Bristol Royal Infirmary

Miss Felicity Woodgate, Royal United Hospital Bath

Mr Antonio Sassano, North Bristol NHS Trust

Mr Simon Ward, Newcastle upon Tyne University Hospitals Trust

Mr Ben Warner-Michel, Salford Royal NHS Foundation Trust

VASCULAR UPPER LIMB PRACTICAL

11.20–13.10 Led by Tanyah Ewen, North West Anglia NHS Foundation Trust

Ms Jodie Baker, Royal Sussex County Hospital

Mr Michael Lucas, Independent Vascular Services

Mrs Anna Rengel, Bristol Royal Infirmary

Miss Felicity Woodgate, Royal United Hospital Bath

Mr Antonio Sassano, North Bristol NHS Trust

Mr Simon Ward, Newcastle upon Tyne University Hospitals Trust
Mr Ben Warner-Michel, Salford Royal NHS Foundation Trust

Satellite Session – 4th Floor Box 11

VETERINARY 1

09.00–10.50 Chairs: Mrs Angie Lloyd-Jones, Aspire UCS Ltd, Dr Naomi Earley, Wear Referrals Veterinary Specialist and Emergency Hospital

The Veterinary session will once again include a variety of interesting topics and case studies to enable vets and non-vet trained ultrasound operators working within the veterinary profession to promote the safe and effective use of diagnostic ultrasound.

We seek to promote high standards of clinical ultrasound practice and diagnostic confidence by inviting thought-provoking speakers from a multitude of clinical veterinary ultrasound backgrounds, including expert veterinary specialists, to share their experiences and invaluable clinical knowledge.

We hope to empower multi-disciplinary professionals from both the Veterinary and Medical professions to come together to improve the quality and standards of small animal ultrasound practice.

09.00 **Welcome and introduction from the Chair and Co-chair**, Mrs Angie Lloyd-Jones, Aspire UCS Ltd, Dr Naomi Earley, Wear Referrals Veterinary Specialist and Emergency Hospital

09.05 **Top tips for ultrasound-guided needle procedures**, Dr Petra Agthe, Anderson Moores Veterinary Specialists

09.45 **Primary care ultrasound in a Dubai setting!**, Dr Omer Kutubi, Vet Village LLC, Dubai

10.20 **Why NOW is the time for RVNs and Diagnostic Medical Sonographers to support veterinary specialist referral ultrasound services**, Mrs Julie Burnage, Aspire UCS Ltd

VETERINARY 2

11.20–13.10 Chairs: Mrs Angie Lloyd-Jones, Aspire UCS Ltd, Dr Naomi Earley, Wear Referrals Veterinary Specialist and Emergency Hospital

11.20 **Ultrasound of the eye**, Dr John Beel, Clinical Services Director, Medivet

12.00 **Interesting cardiac case studies**, Ms Gaynor Jones, Medical and Veterinary Cardiac Physiologist

12.30 **Old dog ... New tricks**, Mr Ibrahima Barry, Mindray Animals

12.50 **RVN role extension: PoCUS and beyond – Ultrasound encounters of an OOH Vet Nurse!**, Ms Carrissa Gray, Vets Now Ltd

VETERINARY 3

13.45–16.00 Chairs: Mrs Angie Lloyd-Jones, Aspire UCS Ltd, Dr Naomi Earley, Wear Referrals Veterinary Specialist and Emergency Hospital

13.45 **The use of ultrasound in the management of GIT diseases**, Dr Rebecca Littler, Northwest Veterinary Specialists

14.25 **How to find the pancreas and adrenal glands – Practical demonstration**, Mrs Angie Lloyd-Jones, Aspire UCS Ltd

15.05 **How on-going ultrasound training and mentorship can support primary care practice**, Dr Anna McCosh, Westway Veterinary Group, Newcastle

15.35 **Debate: Isn't the time now for a stand-alone, competency-based veterinary ultrasound certificate?** Mrs Angie Lloyd-Jones, Aspire UCS Ltd, Mrs Julie Burnage, Aspire UCS Ltd, Dr Naomi Early, Wear Referrals Veterinary Specialist and Emergency Hospital, Dr Anna McCosh, Westway Veterinary Group, Newcastle

15.55 **Final Question and Answers**, Mrs Angie Lloyd-Jones, Aspire UCS Ltd, Mrs Julie Burnage, Aspire UCS Ltd