

DAY 2 – WEDNESDAY 11TH DECEMBER 2024

Plenary 1 – Hall 5

EARLY PREGNANCY

8.30 – 10.00 Chairs: Dr Jonathan Gaughran, Croydon University Hospital, Dr Trish Chudleigh, Retired Sonographer

This early pregnancy session includes the ultrasound appearances of non-tubal ectopic pregnancies and considers the pitfalls in the diagnosis of miscarriage. Management and research in recurrent miscarriage clinic will be presented.

8.30 **The Role of the Recurrent Miscarriage Clinic**, Mrs Rachel Small, University Hospitals Birmingham

9.00 **The Ultrasound Appearances of Non-Tubal Ectopics**, Dr Naomi Page, The Hurley Group

9.30 **Pitfalls in Diagnosis of Miscarriage**, Mrs Roxanne Sicklen, Royal Free London NHS Foundation Trust

GYNAE-ONCOLOGY

10.30 – 12.00 Chairs: Dr Naomi Page, The Hurley Group, Mrs Roxanne Sicklen, Royal Free London NHS Foundation Trust

This session aims to enhance sonographers' skills in assessing and managing ovarian and uterine cancer. It will cover recognising common ovarian tumours, discussing the impact of HRT on the postmenopausal uterus, and introducing new techniques for detecting uterine endometrial cancer

10.30 **Ultrasound Characteristics (Pattern Recognition) of Common Ovarian Tumours**, Dr Jonathan Gaughran, Croydon University Hospital

11.10 **The Post Menopausal Uterus and HRT**, Miss Alison Smith, Guy's & St Thomas' NHS Foundation Trust

11.30 **Novel Markers – In the Detection of Endometrial Cancer**, Mr Osama Naji, Guy's & St Thomas' NHS Foundation Trust

SUB-FERTILITY

13.00 – 14.30 Chairs: Dr Trish Chudleigh, Retired Sonographer, Dr Judith Hamilton, Guy's & St Thomas' NHS Foundation Trust

The role of ultrasound in the management of the sub-fertile patient is the focus of this session. Advanced techniques used in IVF will be presented. The uterine and endometrial pathology that impact on sub-fertility and the patient journey will be discussed with the aim of informing practice in this specialism

13.00 **How Advanced Ultrasound Techniques Are Used in Assisted Conception**, Ms Angela Clough, University Hospitals of Plymouth

13.25 **Subfertility – The Patient's Journey**, Ms Cait Jefferson, Guys and St Thomas

13.50 **Uterine and Endometrial Pathology and the Impact on Subfertility**, Dr Mahshid Nickkho-Amiry, The Alexandra Hospital

14.15 Implementation and evaluation of a training package aimed at improving compliance and confidence in imaging and reporting the sliding sign in patients referred for suspected endometriosis, Hania Rytlewska, King's College London

ACUTE GYNAECOLOGY

15.00 – 16.30 Chairs: Dr Jonathan Gaughran, Croydon University Hospital, Mrs Alison Smith, Guy's & St Thomas' NHS Foundation Trust

The final session considers the role of ultrasound and other imaging techniques in the management of the patient attending the emergency gynaecology unit. The diagnosis of pathology will be discussed in addition to tips on report writing when the ultrasound diagnosis may be unclear.

15.00 **How Useful is Ultrasound in the Assessment of Non-Pregnant Patients Presenting with Heavy Vaginal Bleeding?**, Dr Annmarie Coady, Coombe Hospital, Dublin

15.30 **The Role of Ultrasound in Patients Presenting with Acute Pelvic Pain –Ovarian & Adnexal Pathology**, Dr Judith Hamilton, Guy's & St Thomas' NHS Foundation Trust

16.00 **The Role of Interventional Radiology, CT & MRI in Acute Gynaecological Patients**, Dr Sarah Natas, Guy's & St Thomas' NHS Foundation Trust

GE Healthcare Industry Session – The Boardroom, GE Healthcare Room

12.15 **No IDEA how to diagnose endometriosis? Watch this:**, Dr Susanne Johnson FRCOG, Associate Gynaecologist, Gynaechoice



Plenary 2 – Business Lounge North

TRIALS AND TRIBULATIONS OF SOFT TISSUE MASSES

8.30 – 10.00 Chairs: Ms Amanda Parry, University Hospitals of Leicester NHS Trust, Mr Richard Brindley, Cannock MSKU Department Rheumatology

The assessment of soft tissue masses is always a topical subject in musculoskeletal ultrasound. This session focuses on ultrasound techniques, image interpretation and pitfalls, including how to stay out of trouble! The reporting of soft tissue masses and a specialist insight from the Sarcoma MDT are discussed.

8.30 **Unveiling the Tricks of The Trade: Ultrasound of Soft Tissue Masses**, Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust

9.00 **Management of Soft Tissue Masses – Do You Have a Plan?**, Miss Kaite Simm, Whiston Hospital

9.30 **Ultrasound Triage of Musculoskeletal Tumours: The Good, the Bad and the Ugly**, Prof Rob Ashford, University Hospitals of Leicester NHS Trust

CHALLENGES AND BARRIERS IN MSK ULTRASOUND

10.30 – 12.00 Chairs: Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust, Mr Richard Brindley, Cannock MSKU Department Rheumatology

The increased demand for MSK ultrasound examinations has led to the need for high quality training, education and mentorship. Highly experienced speakers will give their own personal insights into MSK ultrasound training and the importance of a thorough and unequivocal ultrasound report

10.30 **Highlights of The BMUS MSK Travelling Ambassador's Experience**, Ms Amanda Parry, University Hospitals of Leicester NHS Trust

11.00 **To Conclude or Not to Conclude. A Discussion on Producing Quality Ultrasound Reports**, Miss Katie Simm, Whiston Hospital

11.30 **Image Interpretation and Reporting - Advice from an Expert Witness**, Mrs Alison Hall, Independent Sonographer

11.45 **Don't Forget the Bigger Picture**, Lynne Bradley, Cannock Hospital

RHEUMATOLOGY REVISITED

13.00 – 14.30 Chairs: Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust, Ms Amanda Parry, University Hospitals of Leicester NHS Trust

Musculoskeletal ultrasound is becoming increasingly important in the diagnosis and management of Rheumatological conditions. This in-depth session showcases the latest developments in inflammatory arthropathy, highlights some less common ultrasound guided interventions, development of a giant cell arteritis service and how the ultrasound report influences the treatment and management of these patients.

13.00 **GCA Ultrasound Service Provision. A First Year Experience**, Mr Andrew Longmead, Midlands Partnership NHS Foundation Trust

13.15 **The Less Common Ultrasound Guided Interventions in Rheumatology**, Mrs Alison Hall, Independent Sonographer

13.30 **Seronegative Inflammatory Arthritis - Exploring Beyond the Realm of Rheumatoid Arthritis**, Mr Richard Brindley, Cannock MSKU Department Rheumatology

14.00 **How Does USS Influence My Practice as a Rheumatologist In Inflammatory Arthritis?**, Prof Sam Hider, Midlands Partnership NHS Foundation Trust

FROM TOP TO BOTTOM....THE LOWER LIMB EXPLORED!

15.00 – 16.30 Chairs: Mr Mark Charnock, Sheffield Teaching Hospitals NHS Foundation Trust, Ms Amanda Parry, University Hospitals of Leicester NHS Trust

The lower extremity is a plethora of complex anatomy, and understanding this is fundamental before beginning to appreciate the normal ultrasound appearances and disease processes. The aim of this session is to specifically highlight the lower limb nerves, musculature and ankle ligament anatomy in all their glory.

15.00 **Around the Thigh in 20 Mins? In Search of Neglected Muscles; Hamstrings, Adductor Magnus, Sartorius and Gracilis. Anatomy, Function, and Sonographic Appearances**, Mr Mark Maybury, University Hospitals Birmingham Foundation Trust

15.30 **Cutaneous innervation of the lower limb**, Mrs Nikki Delves, Queen Victoria Hospital NHS Foundation Trust

16.00 **Ankle Ligaments: The overlooked support act**, Mr James Dent, Kings College Hospital

Plenary 3 – Hall 4

YOUNG INVESTIGATORS

08.30–10.00 Chairs: Prof. Carmel Moran, University of Edinburgh, Prof Adrian Lim, Charing Cross Hospital, Dr Sian Curtis, University Hospitals Bristol and Weston NHS Foundation Trust

During this session, 5 short-listed oral papers from submitters under the age of 39 will battle it out to win the title of BMUS Young Investigator 2024 and the prize of representing the UK at the EUROSON 2026 Congress in Lublin, Poland. Further details can be found on the awards page.

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

08.45 Implementation and evaluation of a training package aimed at improving compliance and confidence in imaging and reporting the sliding sign in patients referred for suspected endometriosis, Hania Rytlevska, King's College London

09.00 Evaluation of the BMUS Preceptorship and Capability Development Framework for Sonographers: A realist approach, Holly Spencer, AECC University College

09.15 Investigating HCC Ultrasound surveillance service delivery in the UK, Ruth Reeve, Portsmouth Hospitals University NHS Trust

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

AXREM: HOW ULTRASOUND CHANGES LIVES – A GLOBAL PERSPECTIVE

10.30 – 12.00 Chairs: Mr Roy Tappin, GE Healthcare

10.30am **Overview of AXREM and the Special Focus Group including recent activities**, Mr Roy Tappin, GE Healthcare

10.35am **Ultrasound in the developing world - multiple challenges; complex solutions**, Dr Paul Dubbins, Consultant Radiologists

This presentation will analyse international health inequalities and worldwide disease prevalence. It will address the potential role of ultrasound in contributing to better management of disease. It will examine how, in particular it could improve neonatal and infant mortality. This will be presented in the context of the many and varied obstacles to the delivery of health care and, in particular, diagnostic services.

10.55am **Question and Answer**, Dr Paul Dubbins and Mr Roy Tappin

11.00am **Life-saving ultrasound: Reducing Maternal & Neonatal Deaths in Africa**, Emma Polgar, Clinical Applications Specialist at Mindray

Sub-Saharan Africa has the highest burden of maternal and neonatal mortality in the world. Until Oct this year, free antenatal care in Kenya consisted of blood tests and midwifery appointments only. No ultrasound! The majority of women go into labour without having had any ultrasound scans, therefore unaware of the risks they may carry.

11.20am **Question and Answer**, Emma Polgar and Mr Roy Tappin

11.25am **A World of Difference**, Dr Ian Spillman, Kisiizi Hospital Uganda

We live in a world of difference... A world of marked inequalities... e.g. infant mortality rate; availability of PPE; imaging Contrast illustration – local and western economies ...but we can make a world of difference. The presentation will cover Kisiizi Hospital overview and context range and scope of holistic services offered including the first community health insurance scheme in Uganda now having 43,000 beneficiaries in 234 groups up to 60km from Kisiizi providing “Affordable access to quality healthcare.

11.45am **Question and Answer**, Dr Ian Spillman and Mr Roy Tappin

11.50pm **Panel Session led by AXREM representative**

12.00pm **Session Summary**, Mr Roy Tappin, GE Healthcare

VASCULAR ULTRASOUND

The session will explore vascular ultrasound’s role in evaluating renal patients, giant cell arteritis and paediatric transcranial duplex for sickle cell disease.

VASCULAR SESSION 1

13.00 – 14.30 Chairs: Mrs Tanyah Ewen, Peterborough City Hospital, Ms Jo Walker, University Hospitals of Leicester NHS Trust

13.00 **Carotid Artery Duplex: Technique and Pitfalls**, Mr Jack Wilson, NHS Scotland

13.20 **Assessment of Dialysis Access**, Mrs Tanyah Ewen, Peterborough City Hospital

13.40 **Posat RFA Appearance**, Miss Siobhan Trochowski, Oxford University Hospitals

14.00 **Exercise Programmes**, Mr Philip Stather, Norfolk & Norwich University Hospital

VASCULAR SESSION 2

15.00 – 16.30 Chairs: Mrs Tanyah Ewen, Peterborough City Hospital, Ms Jo Walker, University Hospitals of Leicester NHS Trust

15.00 **Sickle Cell Transcranial Doppler**, Ms Jo Walker, University Hospitals of Leicester NHS Trust

15.20 **GCA Duplex**, Ms Nazia Saeed, London Northwest University Hospitals

15.40 **Diagnosing TOS during Upper Limb DVT Scan**, Mr James Sidlow, North West Anglia Foundation Trust

16.00 **Vascular Surgery in the Forces**, Mr Michael Robinson, TBC

Satellite Session - Midea Lounge

POCUS EN-LIGHTENING SESSION 1 - POCUS FOR ABDOMINAL PAIN

08.30 – 09.00 Chairs: Prof Bob Jarman, Teesside University, Dr Ashley Matthies, Homerton Healthcare NHS Foundation Trust

8.30 **Pocus for Urological Causes of Abdominal Pain**, Prof Bob Jarman, Teesside University,

8.43 **Pocus for Biliary Causes of Abdominal Pain**, Mr Simon Richards, Teesside University,

8.56 **Pocus for Gastrointestinal Causes of Abdominal Pain**, Dr Anna Colclough, University Hospital Lewisham

9.09 **Pocus for Gynaecological Causes of Abdominal Pain**, Dr Phil Dowson, Sunderland Royal Hospital

9.22 **The Abdominal Black Box - A Systematic Approach to The Undifferentiated Patient**, Dr Ashley Matties, Homerton Healthcare NHS Foundation Trust

9.35 **Utility of Multiorgan Point of Care Ultrasound in Older Hospitalised Patients Reviewed by Geriatric Teams**, Salman Arain, Leeds General Infirmary

9.48 **Panel discussion**

POCUS EN-LIGHTENING SESSION 2 - HOW IS POCUS DEVELOPING

10.30 – 12.00 Chairs: Prof Bob Jarman, Teesside University, Dr Anna Colclough, University Hospital Lewisham

10.30 **International PoCUS Club**, Dr Chris Yap, Northern General Hospital

10.45 **PoCUS Research - Quantity Over Quality?**, Dr Kal Murali, Queen Elizabeth Hospital

11.00 **Community PoCUS**, Dr Sarb Clare, Sandwell & West Birmingham Hospitals NHS Trust

11.15 **Developing PoCUS Transoesophageal Echo**, Dr Marcus Peck, Frimley Park

11.30 **What Clinical Practice Guidelines Exist for Pocus - A Systematic Review**, Dr Ashley Matthies, Homerton Healthcare NHS Foundation Trust

11.45 **Panel Discussion**

THERAPY IN ULTRASOUND NETWORK FOR DRUG DELIVERY AND ABALATION RESEARCH 1

13.00 – 14.30 Chairs: James McLaughlan, University of Leeds Carmel Moran, Edinburgh University

13.00 **Trial Update on Image Guided Histotripsy of Liver (#Hope4Liver) and Renal (CAIN) Cancers**, Prof. Tze Wah, Leeds Institute of Medical Research, University of Leeds

13.30 **The Effects of Ultrasound-stimulated Microbubbles Combined with Radiotherapy in Cancer Models**, Hannah Bargh Dawson, The Institute of Cancer Research

13.50 **Biomarker Visualisation in Photoacoustic Imaging**, Amirhossein Pourali, University of Dundee

14.10 **Diagnostic Accuracy, Clinical Applications and Technical Performance of Photoacoustic Imaging in Prostate Cancer: A systematic review and meta-analysis**, Muteb Alrashidi - University of Dundee:

THERAPY IN ULTRASOUND NETWORK FOR DRUG DELIVERY AND ABALATION RESEARCH

15.00 – 16.30 Chairs: Prof. Gail ter Haar, The Institute of Cancer Research, Dr Prashant Verma. Sheffield Teaching Hospitals NHS Trust

15.00 **Adaptive Focusing for Deep Brain Ultrasound Stimulation: Application to psychiatric disorders**, Mr Jean-Francois Aubry, Physics for Medicine, Paris

15.30 **Can Blood Vessels and Blood Perfusion Influence the HIFU-induced Lesions in Perfused Porcine Liver?** Feng Wu, University of Oxford

15.50 **AI for USgHIFU: 3D ultrasound reconstruction, treatment planning, and real-time guidance**, Lewis Howell and Manisha Waterston, University of Leeds

16.10 **Ultrasound Therapy in Fetal Medicine – Treatment of twin-twin transfusion syndrome**, Prof. Gail ter Haar, The Institute of Cancer Research

Practical Workshop – Dhillon’s Lounge

INTERVENTIONAL

08.30 – 10.00 Led by Mr Steve Savage, Yeovil District Hospital

Introduction to intervention covering the basic principals, FNA, Core biopsies, drainage. The biopsies will include superficial and liver.

Mr Kieran Walker, University Hospitals Bristol and Weston NHS Foundation Trust

Mrs Kerry Green, University Hospitals Plymouth NHS Trust

Mr Steve Klarich, Walsall Healthcare NHS Trust

Mrs Catherine Kirkpatrick, United Lincolnshire Hospitals NHS Trust

Ms Catherine Lee, Royal Devon University Healthcare NHS Foundation Trust

Mrs Claire Lindsay, National Education for Scotland NHS Scotland Academy

Mrs Helen McLean, Somerset Foundation Trust

BREAKING BAD NEWS

10.30 – 12.00 Led by SANDS and SOFT UK

Interactive breaking bad news session. With role play and advice on breaking bad news well. This session will be led by our Partners SANDS and SOFT UK.

Una McFadden, SOFT UK

Kate Stanton, SANDS

PERFECTING LIVER AND DOPPLER IMAGING TECHNIQUES

13.00 – 14.30 Led by Dr Pamela Parker, Hull University Teaching Hospitals NHS Trust

The ability to undertake ultrasound of the liver and Doppler techniques is an invaluable skill for the general ultrasound practitioner. This practical session is intended to provide hands-on guidance of segmental liver anatomy imaging, use of liver Doppler techniques, and skills for proficiency in liver ultrasound. Updates related to HCC screening will be delivered by the faculty experts. It is hoped that delegates will feel more confident to try out these techniques in their own institutions after attendance at this workshop.

Mr Colin Griffin, Royal Liverpool University Hospital

Mrs Catherine Kirkpatrick, United Lincolnshire Teaching Hospitals NHS Trust

Mr Gerry Johnson, Tameside Hospital

Dr Peter Cantin, University Hospitals Plymouth NHS Trust

Miss Shaunna Smith, University Hospitals Plymouth NHS Trust

Dr Ruth Reeve, Portsmouth Hospitals University NHS Trust

POCUS

15.00 – 16.30 Led by Dr Bob Jarman, Teesside University.

This session will offer a top-class selection of POCUS hands-on masterclasses delivered by our expert faculty and led by Prof Bob Jarman

Dr Ashley Matthies, Homerton Healthcare NHS Foundation Trust
Dr Chris Yap, Northern General Hospital
Dr Anna Colclough, University Hospital Lewisham
Mr Simon Richards, Teesside University,
Dr Phil Dowson, Sunderland Royal Hospital
Dr Kal Murali, Queen Elizabeth Hospital, Birmingham
Dr Sarb Clare, Sandwell & West Birmingham Hospitals NHS Trust
Dr Marcus Peck, Hampshire Hospitals NHS Trust