

The logo for the British Medical Ultrasound Society (BMUS) features the letters 'BMUS' in a dark blue, serif font. To the right of the text is a stylized icon consisting of two curved lines that resemble a pair of parentheses or a smile, also in dark blue.

Online Conference

52nd Annual Scientific Meeting of the
British Medical Ultrasound Society

29th November-10th December 2021

The background of the entire page is a complex, abstract graphic. It features a light blue and white background with a grid pattern. Overlaid on this are several geometric shapes, including a large teal triangle on the left and a large blue triangle on the right. The blue triangle contains a grid and a white sine wave. There are also several thin, parallel lines in teal and blue that create a sense of depth and movement. The overall aesthetic is clean, modern, and scientific.

Ultrasound 2021
Striving for Excellence

Call for Papers and Preliminary Programme
Abstract submission deadline – 31st July 2021

52nd Annual Scientific Meeting of the British Medical Ultrasound Society



I am delighted to be the chair of the scientific organising committee for the 2021 ASM which will be held as an online conference.

These are challenging times in the NHS and it is with this in mind that the theme for the meeting will be 'Striving for Excellence'. Guidance on leading edge clinical practice and maintenance of the highest possible standards will inform our work, in order to deliver the best service to our patients.

- This year the prize for the winner of the BMUS Young Investigator session will go forward to represent the UK at the EUROSON / WFUMB 2022 Congress in Timisoara, Romania in May.
- There will once again be the student stream, this is an ideal forum to present MSc projects, audits or unusual cases.
- Nominations for the 2021 Sonographer of the Year can now be made via the BMUS website. This award celebrates outstanding contributions by ultrasound practitioners. If you have a colleague who champions the profession, promotes excellence and goes the extra mile then why not nominate them!

My thanks must go to **Peter Cantin, Trish Chudleigh, Nick Dudley, Alison Hall, Catherine Kirkpatrick, Pam Parker, Rita Phillips, Alison Smith, Gail ter Haar, Emma Waldegrave and Barry Ward** for their help in putting together the 2021 Scientific Programme.

I very much look forward to welcoming you all to our online conference.

Terry Humphrey

Abstract Submission Timeline

31st July – Submission Deadline

This date is the deadline for Abstracts and Sonographer of the Year. Both should be submitted via the BMUS website.

31st August – Abstract Judging

All stream leads will have completed their assessments of each submitted abstract.

7th September – Author Notification

We aim to notify all abstract authors by this date should they have been successful.

30th September – Early Bird Registration Closes

15th October – Author Registration Deadline

All successful Authors of abstracts selected to take part/be published require to have registered online their attendance by this date.

The successful primary contact on the abstract submission will be offered a discounted fee, this will be equal to a day's education (i.e. 6hrs of sessions).

Please note that in order for abstracts selected to be presented online / published the primary contact (or a named author) will need to register and pay to attend the online conference (the fee will cover a minimum of 6 hours of educational material). Not able to attend? Alternatively, successful authors can opt to pay a presentation fee to have their research published, please contact the BMUS office for further details.

A full abstract guidance document can be found on the BMUS website or contact: emma@bmus.org

The programme will feature presentations and sessions covering all areas of Ultrasound. Each collection of sessions will embody the theme of “Striving for Excellence”. The online conference will feature sessions on the following areas

GENERAL MEDICAL AND PAEDIATRICS

Organised by Peter Cantin and Terry Humphrey
Ultrasound in Primary Hepatobiliary Cancer

Ultrasound is a common investigation in the detection and assessment of primary hepatobiliary cancers. This session is intended to give an up-to-date overview on the use of ultrasound in liver/biliary cancers, the use of other imaging modalities, the pathophysiology and treatment options for adult and paediatric patients who have this disease.

Primary Renal Cancer

Ultrasound is a commonly requested first line imaging investigation in suspected renal disease. This session looks in detail at the pathophysiology of renal cancer. The use of ultrasound in the evaluation and staging of the small and large renal mass together with the medical and surgical treatment options in the adult and child.

Ultrasound in Organ Transplantation

An increase in the number of transplanted organs is expected with new laws around presumed consent being introduced in 2020. Requests for ultrasound assessment of organ transplants are therefore likely to increase.

This session focuses on the ultrasound technique, together with normal and abnormal appearances of organ transplants on ultrasound. The use of other imaging modalities will also be discussed.

PROFESSIONAL ISSUES

Organised by Catherine Kirkpatrick
Challenges and Opportunities

How we deal with challenges within ultrasound can have decidedly significant effects on both a local everyday level and on a wider national scale.

All ultrasound practitioners have a role to play in identifying the challenges and solutions. We look to effective leadership at all levels and how strategic visions can be supported in the long term. Are there opportunities within adversity to develop services and staff effectively?

The Professional Issues sessions will be exploring the Challenges and Opportunities which may present to us in Professional Development, Clinical Development and Career Progression. Striving for Excellence is a key theme and how to get there strategically, clinically, locally and nationally.

Striving for Excellence - How Do You Get What You Deserve?
Challenges and Opportunities in Career Progression.

ULTRASOUND PHYSICS

Organised by Barry Ward
New Beamforming Technologies for Medical Ultrasound Applications

Modern high-end ultrasound equipment often uses sophisticated new beamforming technologies to deliver improved clinical performance.

This session explores some of these new technologies, and explains how to make use of them in your daily practice.

The Ever-improving Performance of Modern Ultrasound Scanners

Over the last few years, several new imaging technologies have been introduced by the manufacturers to improve the usefulness of B-mode and Doppler ultrasound across a range of clinical applications. This session looks at how these technologies work, and how they can improve the diagnostic information you provide to your clinical colleagues.

New Techniques for Quality Assurance in Medical Ultrasound Imaging

With the ever-wider adoption of the Quality Standard for Imaging by clinical departments across the country, the regular quality assurance testing of ultrasound scanners by sonographers and physicists is becoming increasingly important. This session examines some of the new and established quality assurance techniques that are available today, and shows how they can be effectively implemented in busy imaging departments.

TRAINING STREAM

Organised by Rita Phillips

The aim of BMUS training focused sessions is to enhance the students', trainees' and newly qualified sonographers' knowledge and understanding of the professional issues surrounding ultrasound practice to prepare them for their careers in the rapidly changing landscape of ultrasound.

The sessions will cover topics such as transition into practice, resilience, communication for unexpected news, reporting and decision making. The objectives are to highlight challenges and solutions and provide useful guidance to improve practice and standards.

Call for Papers

As a student or trainee you may have been involved with some interesting initiatives of clinical application or professional issues regarding sonography. These can include contemporary advances, an MSc project, an audit or service evaluation or some unusual cases. The BMUS Training Stream is an ideal forum for you to present your work and share good practice with your peers. This is also a very good opportunity to develop and enhance your presentation skills in a safe and supportive environment. Supervisors and mentors are asked to actively encourage and support their students and trainees to proffer papers for this conference. We look forward to receiving your proffered papers. Please use the Abstract Submission on the BMUS Conference website, where you will be able to choose for your abstract to be included in the Focused Training Stream.

OBSTETRICS

Organised by Trish Chudleigh

Moving on from 'Are you having dating or combined screening?'

This session will cover

- Introducing a 1st trimester anomaly scan
- Is measuring the NT still worth it?
- Getting the discussion right with twins

Reassessing the routine anomaly scan

This session will cover

- The HC and TCD sections revisited
- What difference has 3VT training made 5 years on?
- Is your department's bowel as echogenic as mine?

'IS ROUTINE SCREENING DESTROYING OBSTETRIC ULTRASOUND?'

Organised by Catherine Kirkpatrick and Trish Chudleigh

It's time for a debate. Two sides of the question posed will be presented by a panel and then discussion opened up to the debating chamber delegates. It's time to have your say, be heard and offer opinions based on your experiences. Obstetric Ultrasound Practitioners have always faced continuing professional dilemmas but during recent times, with the added pressures of Saving Babies Lives V² and new COVID-19 systems of work, have these dilemmas and vulnerabilities been more crudely exposed?

Towards implementing 3rd Trimester best practice

This session will cover

- Why is the accuracy of EFW so variable?
- 'Doing a Doppler' – what the BMUS 3rd Trimester Guidelines recommend.
- Screening for abnormalities during a growth scan - where do our responsibilities lie?

MUSCULOSKELETAL

Organised by Alison Hall

Pain Management

The session is aimed at practitioners who undertake ultrasound for patients with pain related to musculoskeletal conditions. It will provide an insight into the management of this group of patients from a clinical perspective and review the place of ultrasound within the patient pathway.

Diagnostic Challenges

This session is aimed at practitioners who undertake musculoskeletal ultrasound and will concentrate on diagnostic challenges which may arise. The speakers will provide helpful ultrasound and management tips with case studies for illustration.

Quality of Service Provision

Musculoskeletal ultrasound is increasingly performed by different professionals in primary/secondary care and in the private sector. This change in service provision is not always well accepted for many reasons including a lack of understanding and concerns over professional boundaries and quality of training/service.

This education session invites speakers from the different professional groups to share their unique experience with an emphasis on 'maintaining high standards' e.g., scope of practice, training/development, audit/review, reporting and medicolegal issues.

The session will be followed by questions from the audience to the panel of speakers and an opportunity for discussion.

YOUNG INVESTIGATOR 2021

Organised by Carmel Moran and Terry Humphrey

During this session short-listed proffered oral papers from submitters under the age of 39 will battle it out to win the title of BMUS Young Investigator 2021 and the prize of representing the UK at the the WFUMB 2022 Congress in conjunction with EUROSON 2022 Congress in Timisoara, Romania during May 2022. Further details can be found on the awards page.

ULTRASOUND IN THE PATIENT PATHWAY

Organised by Pam Parker

Imaging in the Acute Pathway

The use of ultrasound as a first line diagnostic tool is now common place. High quality examinations can influence patient management early in the patient pathway thereby reducing unnecessary delays for treatment or onward referral.

This session will address the use of ultrasound in the common acute pathways. The following will be reviewed:

- Why ultrasound?
- When should this be done (and when considering overnight ultrasound, by whom)?
- Who should do scan?
- Ultrasound diagnostic features?
- Alternative imaging?

The sessions in this education stream will be of benefit to sonographers, radiology registrars faced with acute presentations and our non-radiology colleagues undertaking imaging as part of their pathway of care.

ThUNDDAR

Organised by Gail ter Haar

A meeting of the Therapy Ultrasound Network for Drug Delivery and Ablation Research. Proffered Papers are invited for this session.

GYNAECOLOGY AND EARLY PREGNANCY

Organised by Alison Smith

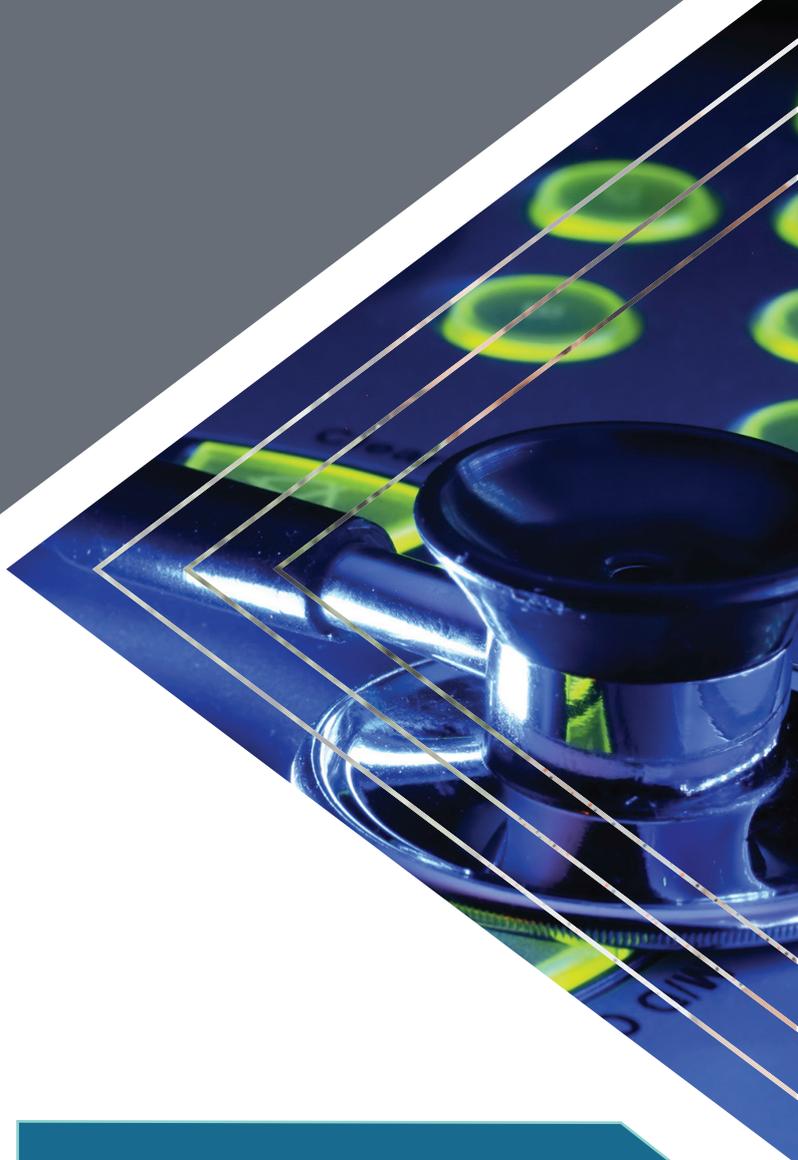
Retained Products – A Master Class

- Reconsidering ultrasound appearances of 'RPCs'.
- Correlating the process of miscarriage with ultrasound findings.
- Does it matter if we get it wrong – the clinical implications of misreporting.

A Second Master Class – Ovarian Masses

- Simple rules explained.
- Is it a dermoid? Why is it an endometrioma? It's an ovarian cyst!





2021 – Towards Implementing Excellence

- Reframing what we are taught and why – making gynae scans fit for purpose.
- The impact of image review on clinically relevant reporting.
- TA versus TV – the argument for and against.
- Is the time right for new practical ultrasound guidelines?

VASCULAR

Organised by Emma Waldegrave

Cerebrovascular Assessment

Our first vascular session will look at the role of cerebrovascular assessment in TIA, CVA, pre-op screening before CABG, intra-operative monitoring of cerebral perfusion during high-risk procedures and post-operative assessment of the carotid arteries following carotid endarterectomy. This session will cover the practical application of undertaking carotid and vertebral artery ultrasounds, guidance and examination protocols from the SVT, tips for grading disease and reporting to high standards. Transcranial doppler ultrasound will be explored and its applications in cerebrovascular assessment explained.

We will hear up to date guidance for the provision of rapid access TIA services and the treatment of acute stroke from a hyper acute stroke unit consultant.

Surveillance Scanning in Managing the Vascular Patient

Our second session will look at the role of vascular ultrasound in monitoring and following up patients with aneurysmal disease including aortic, iliac, mesenteric and popliteal artery aneurysms. Best practice guidance for the surveillance of aneurysms and the surveillance of post-operative EVAR patients.

Sonographer of the Year Award 2021

BMUS are delighted to be continuing the Sonographer of the Year Award for 2021. The award is to celebrate the outstanding contributions made by Sonographers to the field of Medical Ultrasound, and BMUS asks for nominations for those who deserve to be recognised for making a difference in their profession. Submissions should be made via the BMUS website, the deadline for nominations is 31st August. Suitable candidates should:

- Champion quality care and patient safety placing it at the heart of service delivery .
- Share and develop visions of excellence in the field of ultrasound.
- Support peers and colleagues with positivity, empathy and enthusiasm.
- An inspirational member of the team, with commitment to Sonography and ultrasound, and Continuing Professional Development.

The winner will be announced at the Society's Annual General Meeting being held during the online conference.

Reasons for Presenting your Research at Ultrasound 2021

- Successful paper/poster abstracts will be published as an online supplement with the Ultrasound journal and will be listed in PubMed Central.
- The opportunity to win awards and prizes for the best poster or oral presentation.
- Highly discounted delegate fees to attend Ultrasound 2021 are offered to successful presenters.
- Presenters will have the opportunity to have their research published in full in the BMUS journal, Ultrasound.
- Oral presentations from presenters under 39 years of age will be automatically considered for the prestigious BMUS Young Investigator Session.
- Each presenter will receive a certificate from BMUS stating that their research, poster or case study was presented at the meeting.



Guidelines to Writing an Abstract

- The abstract should be structured with Objective/Aim, Method, Results and Conclusion.
- The text of the abstract should be no more than 300 words.
- The abstract text should be submitted through the online form and not uploaded as a written document.
- Only supporting documents should be uploaded with the abstract i.e. images, graphs, tables, reference list.
- The abstract process is anonymous, please ensure that any supporting documents attached do NOT identify the authors.
- Ask a colleague to check over your abstract for typos and spelling errors. What you write for your abstract is what will be published.
- Ensure all authors are accurately entered including their institution in full.

Abstracts not following these guidelines maybe declined.

BMUS AWARDS 2021

We are delighted to call for abstract submissions to be presented as a Poster, Oral or Case Study at Ultrasound 2021.

Successful submissions will be automatically entered for our prestigious awards.

Best Oral Presentation

Accepted paper presentations are judged in terms of both scientific content and quality of presentation. The aim of the award is to support activities in the field of medical ultrasound, which advance the work or personal development of the winner.

The winning presenters will be encouraged to submit their work for publication in the BMUS journal, Ultrasound, and to provide a short report showing how the award was used.

The awards are decided once the conference has been concluded, winners will be advised in January 2022 and will be announced in the BMUS Newsletter 2022.

1st Prize

£200 plus complimentary BMUS 2022 membership.

Runner up

£50 plus complimentary BMUS 2022 membership.

Poster Awards

The Poster Awards are presented to the best Poster in the categories of:

- Scientific Poster
- Case Report Poster
- Clinical Poster

Judged by the 2021 Scientific Organising Committee on both content and presentation style. The winner will be announced during the Society's Annual General Meeting being held during the online conference.

1st Prize

£100 plus complimentary BMUS 2022 membership for each category.

BMUS Young Investigator Award

Chosen Oral submissions from presenters under 39yrs of age on the 26th May 2022, will be invited to take part in this session.

The winning presentation, selected by an esteemed panel of judges, will be awarded the prestigious title of 'BMUS Young Investigator 2021'. The winner will be announced during the Society's Annual General Meeting being held during the online conference.

Prize

The winner will represent the UK at the WFUMB 2022 Congress in conjunction with EUROSON 2022 Congress in Timisoara, Romania during May 2022 with the opportunity to win the 'European Young Investigator' title and one of the two possible cash prizes totalling €3000.