

Cranial and Basic Echo Cardiography Ultrasound Courses



Enhancing Diagnostic Confidence in
Neonatal Brain and Heart Imaging



09-10
October 2026



Sofitel Abu Dhabi
Corniche, UAE



Evidence-Based
Learning



Hands-On
Training



Expert-Led
Sessions



CME
Accredited



Welcome Message



Dr. Akuma Oti Akuma



Dr. Velmurugan Ramalingam

Dear Colleagues,

It is our pleasure to invite you to the **Cranial and Basic Echocardiography Ultrasound Courses**, taking place on **09–10 October 2026 at Sofitel Abu Dhabi Corniche, UAE**. These specialized courses are designed to provide healthcare professionals with practical, evidence-based training in neonatal ultrasound imaging, empowering participants to enhance diagnostic confidence and improve patient care through hands-on learning and expert guidance.

Ultrasound has become an indispensable tool in modern neonatal and paediatric practice, offering rapid, accurate, and non-invasive assessment of neurological and cardiovascular conditions at the bedside. As the role of clinician-performed ultrasound continues to expand, the need for structured training and competency-based education has never been greater.

The **Cranial Ultrasound Course on 09 October 2026** will focus on a systematic approach to neonatal neuroimaging, covering normal anatomy, scanning techniques, and the recognition of common and complex neonatal brain pathologies. Participants will gain the knowledge and skills required to confidently perform and interpret cranial ultrasound examinations in daily clinical practice.

The **Basic Echocardiography Ultrasound Course on 10 October 2026** will provide a practical introduction to neonatal echocardiography and bedside cardiac assessment. Through expert-led teaching and hands-on workshops, participants will learn standard echocardiographic views, image acquisition techniques, and the assessment of common neonatal cardiovascular conditions, including patent ductus arteriosus and persistent pulmonary hypertension of the newborn.

A key strength of these courses is the emphasis on **small-group practical training**, allowing participants to develop scanning skills under the supervision of experienced faculty. Interactive case discussions, real-world clinical examples, and opportunities for direct faculty engagement will ensure a highly relevant and rewarding learning experience.

We are committed to advancing neonatal care through education, collaboration, and the dissemination of best practices. Whether you are beginning your ultrasound journey or seeking to strengthen existing skills, we hope these courses will provide valuable knowledge, practical expertise, and lasting professional connections.

We look forward to welcoming you to Abu Dhabi for what promises to be an engaging and enriching educational experience.

Best regards,

Akuma Oti Akuma

Dr. Akuma Oti Akuma
Chair of Neonatology
Corniche Hospital, Abu Dhabi, UAE

Velmurugan Ramalingam

Dr. Velmurugan Ramalingam
Consultant Neonatologist,
Corniche Hospital, Abu Dhabi, UAE



Cranial Ultrasound Course Highlights

The **Cranial Ultrasound Course (Basic + Advanced Combined)** equips participants with the knowledge and practical skills required to confidently perform and interpret neonatal cranial ultrasound examinations.

- Comprehensive coverage of basic and advanced neonatal cranial ultrasound techniques.
- Systematic approach to image acquisition, interpretation, and reporting.
- Recognition of common and complex neonatal brain pathologies, including GMH-IVH, white matter injury and congenital anomalies.
- Interactive case-based discussions and prognostic counselling.
- Hands-on scanning workshops in small groups with expert faculty guidance.
- Practical, evidence-based content directly applicable to neonatal clinical practice.



Course Directors



Dr. Akuma Oti Akuma
Chair of Neonatology
Corniche Hospital,
Abu Dhabi, UAE



Dr. Velmurugan Ramalingam
Consultant Neonatologist,
Corniche Hospital,
Abu Dhabi, UAE

Learning Outcomes

By the end of the course, participants will be able to:

- Perform a structured neonatal cranial ultrasound examination.
- Identify normal cranial ultrasound anatomy and anatomical landmarks.
- Recognize common haemorrhagic and white matter brain lesions.
- Identify important congenital brain abnormalities.
- Integrate ultrasound findings into clinical decision-making and family counselling.

Who Should Attend?

- Neonatologists
- Paediatricians
- Neonatal and Paediatric Trainees
- Neonatal Nurse Practitioners
- Advanced Practice Providers
- Clinicians with an interest in neonatal neuroimaging and point-of-care ultrasound (POCUS)

CME Accreditation

CME accreditation has been applied for and is currently under review. Participants will receive a certificate of attendance upon completion of the course



Cranial Ultrasound Course

(Basic + Advanced Combined)

October 09, 2026 | Friday
Sofitel Abu Dhabi Corniche

| TIME | TOPIC |
|--|---|
| 08:30 – 09:00 | Registration & Pre-test |
| Part 1: Basic Ultrasound Foundations | |
| 09:00 – 09:30 | Ultrasound Physics Including Doppler |
| 09:30 – 10:00 | Know Your Machine & Standard Views |
| 10:00 – 10:30 | Basic Cranial Anatomy |
| 10:30 – 10:45 | Coffee Break |
| Part 2: Basic Cranial Ultrasound | |
| 10:45 – 11:30 | Haemorrhagic Lesions in Preterm Infants (GMH-IVH) |
| 11:30 – 12:15 | White Matter Lesions (PVL / WMI) |
| 12:15 – 13:00 | Lunch Break |
| Part 3: Advanced Cranial Ultrasound | |
| 13:30 – 13:50 | Neonatal Encephalopathy Patterns |
| 13:50 – 14:15 | Congenital Brain Anomalies |
| 14:15 – 14:30 | Antenatal Counselling |
| 14:30 – 14:45 | Coffee Break |
| Part 4: Case-based + Prognostic Discussions | |
| 14:45 – 15:30 | Case Discussions |
| 15:30 – 16:15 | Prognostic Counselling |
| 16:15 – 17:00 | Q&A |
| 17:00 | End of Course |



Basic Echocardiography Course Highlights

The **Basic Echocardiography Ultrasound Course** provides a structured introduction to neonatal/paediatric echocardiography, combining foundational principles, hands-on image acquisition, congenital heart disease screening, and practical bedside applications. Designed for clinicians caring for newborn infants, the course emphasizes a systematic approach to cardiac assessment, helping participants develop confidence in image acquisition, interpretation, and clinical decision-making.



- Master the fundamentals of neonatal echocardiography.
- Learn standard echocardiographic views and image acquisition techniques.
- Understand segmental cardiac assessment and sequential scanning.
- Screen for common congenital heart defects, PDA, and PPHN.
- Participate in hands-on scanning workshops with expert faculty.
- Apply best practices in reporting, patient safety, and referral pathways.
- Gain practical skills directly applicable to neonatal intensive care and newborn medicine.

Course Directors



Dr. Akuma Oti Akuma
Chair of Neonatology
Corniche Hospital,
Abu Dhabi, UAE



Dr. Velmurugan Ramalingam
Consultant Neonatologist,
Corniche Hospital,
Abu Dhabi, UAE

Learning Outcomes

By the end of the course, participants will be able to:

- Obtain standard neonatal echocardiographic views.
- Perform a structured neonatal cardiac assessment.
- Recognize common congenital heart abnormalities requiring specialist referral.
- Assess patent ductus arteriosus and screen for persistent pulmonary hypertension of the newborn.
- Understand the limitations of basic echocardiography and know when to seek expert cardiology review.
- Document findings using a structured reporting approach.

Who Should Attend?

- Neonatologists
- Paediatricians
- PICU Physicians
- Neonatal and Paediatric Trainees
- Advanced Neonatal Practitioners
- Clinicians interested in neonatal echocardiography and point-of-care ultrasound (POCUS)

CME Accreditation

CME accreditation has been applied for and is currently under review. Participants will receive a certificate of attendance upon completion of the course



Basic Neonatal Echocardiography Ultrasound Course

October 10, 2026 | Saturday
Sofitel Abu Dhabi Corniche

| TIME | TOPIC |
|--|--------------------------------------|
| 08:30 – 09:00 | Registration & Pre-test |
| Part 1: Principles | |
| 09:00 – 09:30 | Ultrasound Physics Including Doppler |
| 09:30 – 10:00 | Knobology & Machine Setup |
| 10:00 – 10:20 | Standard Sequential Views |
| 10:20 – 10:30 | Coffee Break |
| Part 2: Basic CHD & Hemodynamic Screening | |
| 10:30 – 11:15 | Common Heart Defects |
| 11:15 – 11:45 | PDA Assessment |
| 11:45 – 12:30 | PPHN Screening |
| 12:30 – 13:15 | Lunch Break |
| Part 3: Hands-On Views | |
| 13:15 – 13:45 | Situs & Subcostal Views |
| 13:45 – 14:15 | Apical Views |
| 14:15 – 14:30 | Coffee Break |
| 14:30 – 15:00 | Parasternal Views |
| 15:00 – 15:30 | High Parasternal Views |
| Part 4: Safety & Application | |
| 15:30 – 15:45 | What NOT to Do in Basic Echo |
| 15:45 – 16:00 | Referral Criteria |
| 16:00 – 16:15 | Reporting Template |
| 16:15 – 16:30 | Mini-OSCE + Closing |
| 16:30 | End of Course |



Cranial and Basic Echocardiography Ultrasound Courses

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October 2026

Sofitel Abu Dhabi
Corniche, UAE

HOW TO REGISTER

Tel.: +971 2 4919888

Personal Details

Full Name:

Job Title:

Place of Work:

City:

Mobile:

Tel (work):

Email:

Fax:

Yes, I would like to receive information on future events by e-mail. I do not want my address to appear on the delegates list.

Registration Fees

Please select the conference that is relevant to your speciality.

| Category | Registration Fee |
|---|------------------|
| <input type="checkbox"/> Cranial Ultrasound Course | AED 1,500 |
| <input type="checkbox"/> Basic Echocardiography Ultrasound Course | AED 2,000 |

A confirmation email will be sent upon receipt of your registration form. Please note that full payment must be received prior to the event. Payment can be made via Online, Credit card, Cheque, Bank drafts in AED. ***Additional 5% VAT will be Applicable on all Fees**

Payments

Please choose one of the following mode of payment.

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Cancellation / Substitution Policy

If you are unable to attend, a substitute delegate will be very welcome in your place. If this is not suitable, a 20% administration fee will apply. Registrations cancelled less than one week before the event are non refundable.

Event Venue

Sofitel Abu Dhabi, Corniche, UAE

The organizing committee reserves the right to make any modifications to the programme in occurrence of any unforeseen circumstances.

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