

Welcome aboard.



WICCEM
World institute of
**CRITICAL CARE &
EMERGENCY MEDICINE**

POCUS FELLOWSHIP IN ACUTE CARE SETTINGS

We look forward to embarking on this exciting journey with you

Module 2:

- **ED pathway**

*30	<ul style="list-style-type: none">• Week 25• March 4• 2026	Lung and Dyspnea in ER	Wesam Ibrahim	17
*31	<ul style="list-style-type: none">• Week 26• March 25• 2026	Chest pain in ER	Islam Noeim	17
32	<ul style="list-style-type: none">• Week 27• April 1• 2026	Shock and hemodynamic strategies in ER	Haitham Khalifa	17
33	<ul style="list-style-type: none">• Week 28• April 8• 2026	Cardiac arrest in ER	Maged El Warraky	17
34	<ul style="list-style-type: none">• Week 29• April 15• 2026	LIVE WEBINAR	Live Webinar – All	17
35	<ul style="list-style-type: none">• Week 30	Acute abdomen (1)	Hesham Temraz/	17



	<ul style="list-style-type: none"> • <u>April 22</u> • <u>2026</u> 		Haitham Khalil	
36	<ul style="list-style-type: none"> • <u>Week 31</u> • <u>April 29</u> • <u>2026</u> 	Acute Abdomen (2)	Hesham Temraz/ Ahmed Al Senousy	17
37	<ul style="list-style-type: none"> • <u>Week 32</u> • <u>May 6</u> • <u>2026</u> 	Pediatric (1)	Mona Sorrow/ Dina Magdy	17
38	<ul style="list-style-type: none"> • <u>Week 33</u> • <u>May 13 2026</u> 	Paediatric (2)	Dina Magdy Mona Sorrow	17
39	<ul style="list-style-type: none"> • <u>Week 34</u> • <u>May 20</u> • <u>2026</u> 	LIVE WEBINAR	Live Webinar – All	17
40	<ul style="list-style-type: none"> • <u>Week 35</u> • <u>May 27</u> • <u>2026</u> 	DVT, PE and vascular Emergency	Mohamed Nasereddin	17
41	<ul style="list-style-type: none"> • <u>Week 36</u> • <u>June 3</u> • <u>2026</u> 	Ocular US and neurological EM	Mohamed Nasereddin	17
42	<ul style="list-style-type: none"> • <u>Week 37</u> • <u>June 10</u> • <u>2026</u> 	Oby & Gyna (Early pregnancy)	Grace Wanjiku	17
43	<ul style="list-style-type: none"> • <u>Week 38</u> • <u>June 17</u> • <u>2026</u> 	Oby & Gyna (Late pregnancy)	Grace Wanjiku	17
44	<ul style="list-style-type: none"> • <u>Week 39</u> • <u>June 24</u> • <u>2026</u> 	LIVE WEBINAR	Live Webinar – All	17
45	<ul style="list-style-type: none"> • <u>Week 40</u> • <u>July 1</u> • <u>2026</u> 	Nerve block US	Ahmed Salman	17
46	<ul style="list-style-type: none"> • <u>Week 41</u> • <u>July 8</u> • <u>2026</u> 	Musculoskeletal and acute trauma	Ahmed Salman	17
47	<ul style="list-style-type: none"> • <u>Week 42</u> • <u>July 15</u> • <u>2026</u> 	Soft tissue ultrasound	Omar Jaradat	17
48	<ul style="list-style-type: none"> • <u>Week 43</u> • <u>July 22</u> • <u>2026</u> 	Emergency Neck US	Amgad Makhour	17
49	<ul style="list-style-type: none"> • <u>Week 44</u> • <u>July 29</u> • <u>2026</u> 	LIVE WEBINAR	Live Webinar – All	17
50	<ul style="list-style-type: none"> • <u>Week 45</u> • <u>Aug 5</u> • <u>2026</u> 	Renal And urological	Wesam Ibrahim	17
51	<ul style="list-style-type: none"> • <u>Week 46</u> • <u>Aug 12</u> • <u>2026</u> 	Oncological US	Haitham Khalifa	17
	<ul style="list-style-type: none"> • <u>Week 47</u> • <u>Aug 19</u> • <u>2026</u> 	Geriatric EM ultrasound	Mohamed Al Abbasy	
52	<ul style="list-style-type: none"> • <u>Week 48</u> • <u>Aug 26</u> • <u>2026</u> 	EXAM		17



Program Structure and Learning Approach

Our fellowship delivers a **rich, asynchronous learning experience**, integrating:

- **Lectures** by esteemed faculty.
- **Multiple-choice assessments** to reinforce knowledge.
- **Journal clubs** to explore the latest research.
- **Clinical case discussions** to enhance practical skills.

Recognizing the demands of medical professionals across diverse time zones, we provide 24/7 access to all educational materials through our **state-of-the-art Learning Management System (LMS)**. This platform serves as more than just a resource hub—it offers an immersive learning experience, fostering collaboration on complex cases and engaging discussions that push the boundaries of **Point-of-Care Ultrasound (POCUS)**.

A Global, Multidisciplinary Initiative

This fellowship is thoughtfully designed to accommodate professionals beyond critical care and emergency medicine. It is also highly suitable for physicians from other disciplines, including **internal medicine, surgery, and primary care**, particularly in its foundational phase, where the fundamentals of POCUS in routine clinical practice are emphasized.

We are proud to bring together an **internationally renowned faculty**, comprising distinguished experts in research, education, and ultrasound-based clinical practice. Our faculty represents diverse regions, including the **United States, Canada, Europe, the United Kingdom, and the Middle East**, ensuring a broad spectrum of expertise and perspectives.

Two-Tiered Learning Pathway



The fellowship is structured into two distinct **24-week modules**:

1. **Common Pathway Module (First 24 Weeks)**: This module is designed for all participants, covering fundamental and universally applicable POCUS principles.
2. **Specialized Pathway Module (Second 24 Weeks)**: Attendees will choose between **Advanced Critical Care POCUS** or **Advanced Emergency POCUS**, delving into specialized applications tailored to their field of practice.

Live Expert-Led Webinars

Every **four weeks**, participants will have the opportunity to engage in **live, interactive webinars**, featuring direct discussions with leading experts in the field. These sessions are designed to facilitate real-time learning, address participant queries, and provide insights into the latest advancements in **Acute Care ultrasound**.

In Summary

As you embark on this transformative journey, envision the profound impact you will have on patient care and the future of **POCUS**. Our team is committed to supporting you every step of the way, fostering an environment where **innovation, collaboration, and expertise** thrive. Let's push the boundaries of Point-of-Care Ultrasound together!

Faculty

Program Director:

Ashraf Al Tayar

Academic Director:

Emergency section:

Wesam Ibrahim



Speakers:

(Emergency Medicine section)

- 1) Wesam Ibrahim (USA)
- 2) Haitham Khalifa (Egypt)
- 3) Grace Wanjku (USA)
- 4) Maged El Waraky (UK)
- 5) Mohamed Nasreddin (Egypt)
- 6) Hesham Temraz (Egypt)
- 7) Mona Soror (Egypt)
- 8) Dina Magdy (Egypt)
- 9) Ahmed Salman (Egypt)
- 10) Islam Noeim (Egypt)
- 11) Mohamed Abbasy (Canada)
- 12) Mohamad Boulad (Lebanon)
- 13) Amjad Makhour (Lebanon)
- 14) Mohamed Megdadi (Jordan)
- 15) Abdelhamid Noreldine (USA)
- 16) Ahmed El Sinosy (KSA)
- 17) Liqaa Rafee (Jordan)
- 18) Olfa Chakroun (Tunisia)
- 19) Salah Itmiza (Palestinian)
- 20) Haitham Khalil (UAE)
- 21) Omer Jaradat (Turkey)
- 22) Sayuri Enriquez (Peru)

Module 2: Advanced ER POCUS module

1. Week 1

Wesam Ibrahim

Topic: Lung and Dyspnoea in ER

Core Topics:

- ILS: Interstitial lung syndrome and the BLUE protocol for dyspnea
- Right ventricular failure



- Cases
- Journal Club: Review and discussion of relevant research articles on different cases of dyspnea and pulmonary ultrasound.

Learning Objectives:

1. Review and understand the sonographic artifacts of normal and pathologic pulmonary conditions.
2. Learn the BLUE protocol in dyspnea & CLUE protocol for COVID.
3. Apply these findings through case discussions.

2. Week 2 Haitham Khalifa

Topic: Differential Diagnosis of Shock in ER

Core Topics:

- Types of shock (Hemorrhage, cardiac, sepsis, obstructive)
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of shock management.

Learning Objectives:

1. Provide a sequenced approach to ultrasound in shock patients.
2. Demonstrate the surface landmarks and transducer positions for evaluation.
3. Review causes and potential responses (FALLS protocol).

1. Week 3 chest pain Islam Noeim

Topic: Acute chest pain POCUS approach

Core Topics:

- Myocardial ischemia and hypo-perfusion approach
- Cases



- **Journal Club:** Review and discussion of relevant research articles on different cases of systolic and diastolic dysfunction.

Learning Objectives:

1. Demonstrate landmarks and measurements for cardiac output.
2. Understand ultrasound findings for diastolic and systolic heart failure.
3. Integrate case-based learning for application.

Week 4 Cardiac arrest

Maged Al Warraky

Topic: Ultrasound Uses in Cardiac Arrest

Core Topics:

- PREM Pseudo PEA and PRES True PEA
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of ultrasound use in cardiac arrest.

2. Week 5

Topic: Live Webinar (Put it all together)

3. Week 6

Hesham Temraz/ Haitham Khalil

Topic: Differential Diagnosis of Acute Abdomen in Adults

Core Topics:

- Vascular and shock ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of abdominal ultrasound.

Learning Objectives:

1. Understand the sonographic appearance of the Celiac trunk, mesenteric, and Aorta.



2. Learn transducer choices and scanning protocols for vascular GIT exams.
3. Detect pathology such as ileus, pneumoperitoneum, l.

4. Week 7 **Hesham Temraz & Ahmed El Sinousy**

Topic: Differential Diagnosis of Acute Abdomen in Adults

Core Topics:

- Gastrointestinal ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of abdominal ultrasound.

Learning Objectives:

1. Understand the sonographic appearance of the stomach, bowel, and pancreas.
2. Learn transducer choices and scanning protocols for GI exams.
3. Detect pathology such as appendicitis, and hernias.

Week 8 **Mona Sorrow/ Dina Magdy**

Topic: Paediatric Ultrasound (Respiratory and Shock)

Core Topics:

- **Pediatric imaging techniques**
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of pediatric ultrasound.

Learning Objectives:

1. Recognize pediatric ultrasound applications beyond adult imaging.
2. Learn transducer choices and scanning protocols.
3. Apply pediatric ultrasound techniques with tips and tricks.



Week 9 **Dina Magdy/ Mona Sorrow**

Topic: Pediatric Ultrasound (Acute abdomen and genitourinary)

Core Topics:

- Testicular and ovarian ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of genital ultrasound.

Learning Objectives:

1. Differentiate testicular torsion vs. epididymitis.
2. Recognize ovarian torsion vs. oophoritis.

5. Week 10 **Topic: Live Webinar (Put it all**

6. Week 11 Mohamed Nasereddin

Topic: DVT, Pulmonary Embolism and Vascular EM.

Core topic:

Advanced vascular ultrasound and compressibility test.

Clinical cases

- Journal Club: Review and discussion of relevant research articles on different cases of vascular ultrasound.

Learning Objectives:

1. Understand how sonography can detect vascular pathology.
2. Recognize normal ultrasound anatomy of the femoral, poplitealveins.
3. Select the correct probe and perform vascular ultrasound safely.
4. Identify conditions like DVT, pulmonary embolism and pseudo aneurysm.

7. Week 12 Mohamed Nasereddin

Topic : Eye ball and neurological Ultrasound

Core topics: Ocular ultrasound & Trans-cranial Doppler.

Clinical cases

- Journal Club: Review and discussion of relevant research articles on different cases of ocular ultrasound.

Learning Objectives:



5. Understand how sonography can reveal eye pathology.
6. Recognize normal ultrasound anatomy of the eye: cornea, lens, posterior chamber, retina, and macula.
7. Select the correct probe and perform ocular ultrasound safely.
8. Identify conditions like retinal detachment, posterior vitreous haemorrhage, and lens dislocation.

Week 13

Grace Wanjiku

Topic: 1st Trimester and Differential Diagnosis of Intra- vs. Extra-Uterine Pregnancy

Core Topics:

- Obstetric ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of 1st-trimester pregnancy assessment.

Learning Objectives:

1. Use OB POCUS for diagnosing vaginal bleeding and gestational dating.
2. Recognize intra-uterine pregnancy & 1st-trimester findings: gestational sac, yolk sac, and foetal pole.

8. Week 14

Grace Wanjiku

Topic: 2nd & 3rd Trimester: Placenta and Obstetric Haemorrhage

Core Topics:

- Obstetric ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of 2nd & 3rd trimester assessment.

Learning Objectives:

1. Use OB POCUS to diagnose vaginal bleeding in later pregnancy.



2. Measure foetal cardiac activity and
3. Assess placental location in the 2nd & 3rd trimester.

9. Week 15 **Topic: Live Webinar (Put it all together)**

Week 16 **Ahmed Salman**

Topic: Introduction to Nerve Anatomy and Nerve Block Procedures

Core Topics:

- Peripheral nerve block ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of ultrasound-guided nerve blocks.

Learning Objectives:

1. Explain the physiology and anatomy of nerve blocks (e.g., brachial plexus, axillary, femoral).
2. Identify factors affecting success and complications.
3. Demonstrate approaches for peripheral nerve blocks in upper and lower extremities.
4. Perform peripheral nerve block simulations using ultrasound guidance.

10. Week 17. **Ahmed Salman** **Topic: Musculoskeletal Ultrasound (Bone**

Fracture and Joint Dislocation Ultrasound)

Core Topics:

- Musculoskeletal-shoulder ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of bone fractures and dislocations.

Learning Objectives:



1. Understand the indications for shoulder ultrasound (e.g., rotator cuff tears, bursitis).
2. Recognize clinical presentations such as chronic shoulder pain and movement restriction.
3. Scan the biceps tendon, subscapularis, supraspinatus, and infraspinatus tendons.
4. Identify pitfalls like angulation drop-out and shadowing effects.
5. Diagnose fractures and dislocations.

11. Week 18 Omar Jaradat

Topic: Soft Tissue Ultrasound

Differential Diagnosis of Cellulitis vs. Abscess

Core Topics:

- Musculoskeletal ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of musculoskeletal ultrasound.

Learning Objectives:

1. Compare diagnostic musculoskeletal ultrasound to other imaging modalities.
2. Identify various tissue appearances on ultrasound.
3. Apply ultrasound techniques to visualize musculoskeletal structures.
4. Perform musculoskeletal ultrasound on different upper and lower limb structures.

12. Week 19 Amgad Makhour

Topic: Neck Ultrasound



Transverse and Longitudinal Neck Ultrasound

Core Topics:

- Airway ultrasound
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of airway ultrasound.

Learning Objectives:

1. Describe ultrasound techniques to detect upper airway anatomy and guide correct ETT placement.

Learn how to perform ultrasound-guided cricothyroidotomy

13. Week 20

Topic: Live Webinar (Put it all together)

14. Week 21.

Wesam Ibrahim

Topic: POCUS In kidney and Urology

Core Topics:

- Advanced ultrasound in Kidney and Urology.
- Hydronephrosis
- Stone kidney
- Ureteric jets
- **Journal Club:** Review and discussion of relevant research articles on different cases of POCUS protocols.

Learning Objectives:

1. Understand the role of POCUS in clinical examination.
2. Learn different ultrasound-based protocols and their applications.
3. How to calculate bladder volume

15. Week 22.

Haitham Khalifa



Topic: Oncology Ultrasound

Core Topics:

- Advanced ultrasound findings in oncology patients and fluid assessment.
- **Journal Club:** Review and discussion of relevant research articles on different cases of POCUS protocols.

Learning Objectives:

4. Understand the role of POCUS in clinical examination.
5. Learn different ultrasound-based protocols and their applications.

16. Week 23. Mohamed Abbasy

Topic: POCUS In Geriatric and Fifth pillar of clinical examination

Core Topics:

- Advanced ultrasound protocols (POCUS, FALLS, CLUE, RUSH, CASA, HI MAP, PRES, PROM, BLUE)
- Cases
- **Journal Club:** Review and discussion of relevant research articles on different cases of POCUS protocols.

Learning Objectives:

6. Understand the role of POCUS in clinical examination.
7. Learn different ultrasound-based protocols and their applications.

17. Week 24. Dr. Ashraf Al- Tayar, Wesam Ibrahim and Haitham Khalifa.

Contact us:

For administration:

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