

第十六屆第二次會員大會暨學術研討會

2025 韌性急診 智能決策



Symposium 6

波動十年,展望未來:急診超音波的教育、應用與革新

Echoes of a Decade: Education, Application, and Innovation in Emergency Ultrasound

時間: 2025年6月27日(五)13:30~15:00

會議室:402AB 會議廳

座長:李維鈞醫師(奇美醫院)、林韋均醫師(中國附醫)

13:30~13:50 Emergency Ultrasound in the U.S.: Training, Certification, and the Road Ahead

主講人: Beatrice Hoffmann (Harvard Medical School)

13:50~14:10 Echoes of Progress:台灣急診超音波教育與競賽十年的回聲

Echoes of Progress: A Decade of Emergency Ultrasound Education and

Competition in Taiwan

主講人:林韋均醫師(中國附醫)

14:10~14:30 下肢骨折:神經阻斷術不只是止痛!

Beyond Pain Relief: The Multifaceted Role of Nerve Blocks in Lower Limb Fracture

Management

主講人: 王柏凱醫師(花蓮慈濟醫院疼痛科)

14:30~14:50 TEE 導引復甦術: 從院後走向院前

TEE-Guided Resuscitation: From In-Hospital to Prehospital Care

主講人:朱聖恩醫師(亞東醫院)

14:50~15:00 綜合討論

課程簡介

隨著超音波技術在急診醫療領域中的角色日益關鍵,本次年會超音波專題將聚焦於教育發展、制度建構與臨床應用三大面向。首先,Emergency Ultrasound in the U.S.: Training, Certification, and the Road Ahead 將深入解析美國在急診超音波訓練與認證制度上的演進與未來方向,提供制度建構的重要參考。Echoes of Progress:台灣急診超音波教育與競賽十年的回聲 將系統性回顧本土推動超音波教育、培育種子教師與舉辦競賽的經驗與成果。臨床應用方面,下肢骨折:神經阻斷術不只是止痛!將探討周邊神經阻斷術在急診疼痛管理中的角色與操作策略; TEE 導引復甦術:從院後走向院前 則前瞻性地討論經食道心臟超音波於高階心肺復甦中的實證應用與前景。期盼透過本專題,促進理論與實務之整合,推動台灣急診超音波教育與臨床應用邁向新階段。



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• Emergency Ultrasound in the U.S.: Training, Certification, and the Road Ahead

Emergency ultrasound (EUS) has become an essential skill in modern emergency medicine, enabling rapid, bedside diagnostic and procedural support. Over the past two decades, EUS has been formally incorporated into emergency medicine training, with the Accreditation Council for Graduate Medical Education (ACGME) recognizing it as a core milestone for residency programs. Despite these advancements, there remains significant variability in training quality, credentialing practices, and pathways to certification across institutions in the United States.

This session provides a comprehensive overview of the current state of EUS education, including approaches to residency-based training, the role of dedicated ultrasound fellowships, and national guidance from organizations such as ACEP and the American Board of Emergency Medicine (ABEM). The lecture will also address the practical aspects of credentialing and maintaining competency within hospital systems, with a focus on quality assurance processes, documentation standards, and billing practices.

As the field evolves, new challenges and opportunities are emerging. These include debates around third-party certification, integration of artificial intelligence into image acquisition and interpretation, and disparities in access to ultrasound education in community and rural settings. The session will highlight innovative strategies to address these gaps, including remote training models, simulation, and interdisciplinary collaboration.

Looking forward, the road ahead involves not only standardizing educational and clinical practice but also ensuring that emergency ultrasound continues to advance in a way that is accessible, evidence-based, and aligned with the needs of diverse patient populations.

Attendees will gain a clearer understanding of the current and future landscape of EUS training and certification and come away with actionable insights to support their own practice, training programs, or departmental goals.

● 下肢骨折:神經阻斷術不只是止痛!

Peripheral nerve blocks have long been recognized for their efficacy in managing pain associated with lower limb fractures. Beyond analgesia, these blocks contribute to reduced opioid requirements, facilitating early mobilization and potentially enhancing fracture healing through improved perfusion and attenuated stress responses. The American Academy of Orthopedic Surgeons (AAOS) endorses the integration of peripheral nerve blocks into multimodal pain management protocols for musculoskeletal injuries, highlighting their role in minimizing opioid-related side effects and promoting functional recovery. This presentation delves into the multifaceted benefits of nerve blocks, advocating for their routine incorporation into comprehensive care pathways for trauma patients.



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Name	Beatrice Hoffmann		
Organization	Harvard Medical School, BIDMC, Dept of Emergency Medicine		
Title	M.D. AEMUS		
Current Positions	Associate Professor, Harvard Medical School		
Educational and Career Experiences	 Completed M.D. at the University of Heidelberg Medical School in 1997, followed by doctoral research in human lung innervation Subspecialty training in Pulmonary Medicine (Germany, 1999) and Emergency Medicine (Penn State/York Hospital, 2003) Held progressive academic appointments at Johns Hopkins University School of Medicine (2004–2013), and Harvard Medical School (Associate Professor) Currently serves as Division Director of Emergency Ultrasound at BIDMC in Boston, overseeing research, education, and administrative and clinical operations Recipient of multiple teaching and innovation awards, including the National ACEP Ultrasound Award and honors for research educational leadership Founding Chair of the Academy of Emergency Ultrasound, Chair of the Ultrasound Section for the International Federation of Emergency Medicine and Co-Chair of the Ultrasound Education Taskforce for EUSEM Co-Investigator on NIH-funded research in robotic lung ultrasound for COVID-19 triage; Research awards for simulation research and lung elastography research with extensive publication record in emergency and critical care ultrasound 		

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	2.台灣麻醉醫學會	監事	年資: 3 年
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