Plenary lecture IV

Vision Loss, Dental Pain and Sore Throat- Common Ultrasound Diagnoses for HEENT Complaints

時間：2025 年 6 月 28 日(六) 10:30~11:00

會議室：101 會議廳

座長：林韋均醫師(中國附醫)、連琬菁醫師(臺大醫院)

主講人：Beatrice Hoffmann
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課程簡介

Point-of-care ultrasound (POCUS) is an increasingly valuable tool in the evaluation of head, eyes, ears, nose, and throat (HEENT) complaints, particularly in emergency and urgent care settings. This session focuses on the use of ultrasound to evaluate three common and high-stakes presentations: vision loss, facial pain, and suspected peritonsilar abscess. These symptoms are frequently encountered, often vague in presentation, and may be harbingers of serious pathology requiring timely diagnosis and intervention.

For patients presenting with acute vision loss, ocular ultrasound can rapidly identify many etiologies, common pathologies include retinal or vitreous detachment, but also retrobulbar hemorrhage, signs of increased intracranial pressure or orbital fractures, infection. These diagnoses are time-sensitive and often difficult to confirm on initial clinical exam alone. In cases of dental pain or facial swelling, ultrasound can aid in diagnosing superficial infections from dental abscess or salivary gland infection or obstruction, guiding both diagnosis and potential drainage. Lastly, patients presenting with sore throat and odynophagia may harbor a peritonsillar abscesses, which can be rapidly identified with either intraoral or transcutaneous ultrasound techniques.

Throughout this session, participants will review core sonographic anatomy and pathology relevant to each complaint, gain familiarity with scanning techniques, and discuss case-based scenarios to reinforce clinical application. Special attention will be given to common pitfalls, QA review findings, and strategies for incorporating POCUS into HEENT workflows. This interactive format is designed to enhance diagnostic confidence, expedite care, and improve procedural accuracy in patients with complex HEENT symptoms.

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