



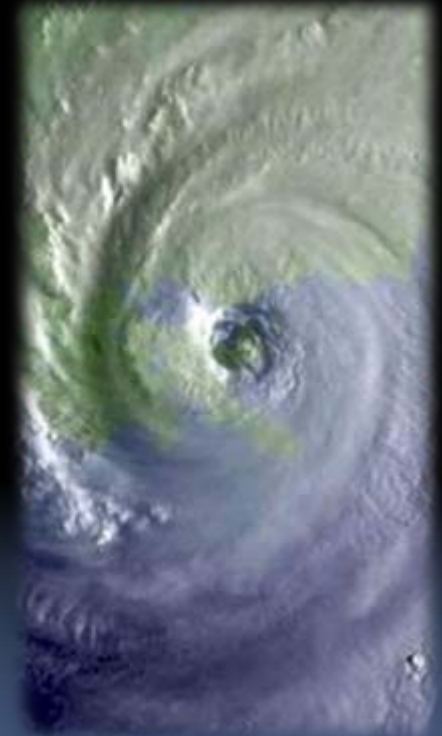
THE USE OF REAL-TIME ULTRASOUND IN THE DMAT ENVIRONMENT

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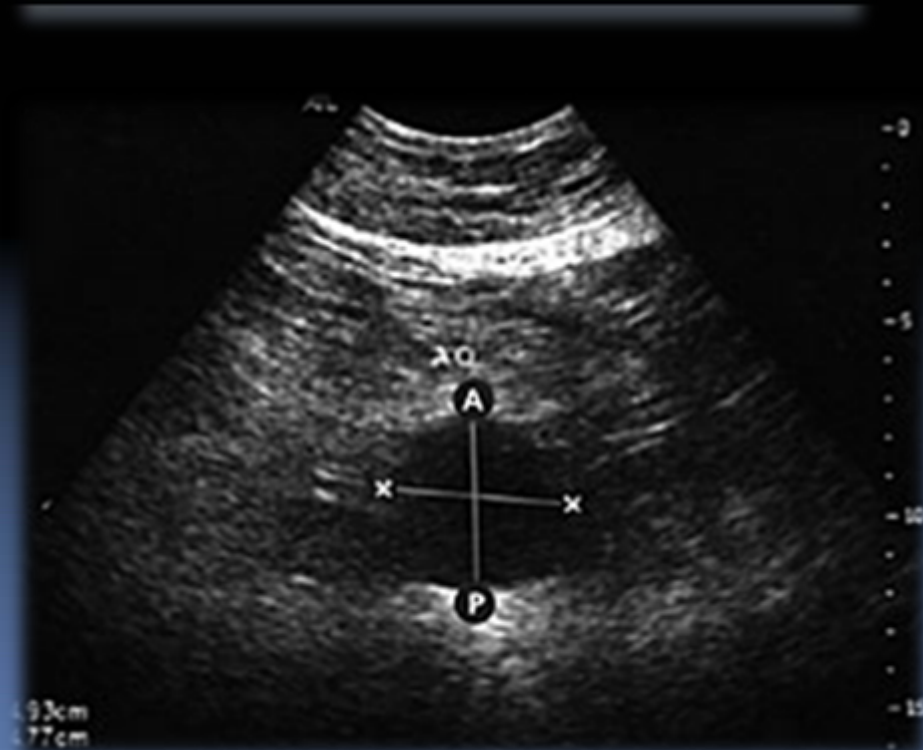
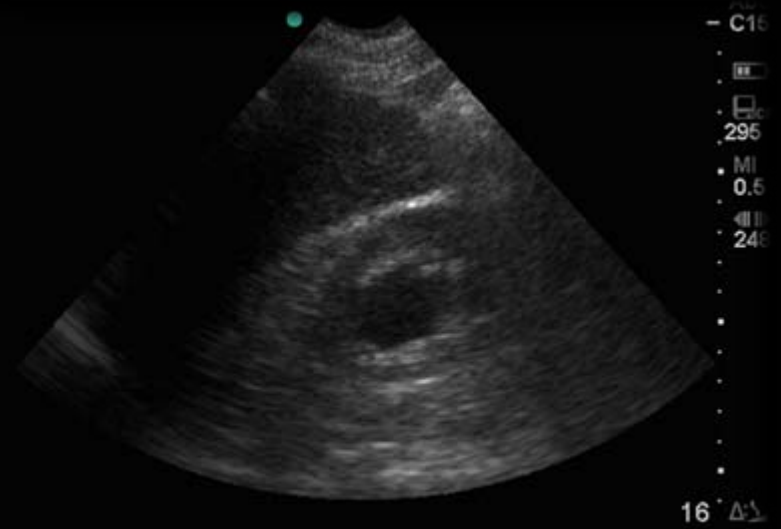


Illustrative Case 1

- In the aftermath of a Category IV Hurricane which struck Louisiana, you are working a 12 hour shift in a DMAT tent outside a community hospital which is running on auxilliary power with skeleton crew, no functioning OR.
- A 65 yo man enters the triage tent with complaint of right flank pain, acute onset.
- BP 105/50, HR 110, afebrile. Moderately obese, no abdominal mass, good pulses.
- Do you
 - A. Call for the Blackhawk to transport to Baton Rouge?
 - B. Send into the beleaguered hospital?
 - C. Treat with NSAID's/ opiates, observe?



With US,
Answer in 5
minutes!



Illustrative Case 2

- 26 yo female presents to your DMAT tent 2 weeks post partum with acute dyspnea. HR 140, BP 85/60, Temp 100.5
- Lung sounds clear with good air movement, heart sounds distant.
- Disposition/ Management?

Answer:
transfer/ critical care





US can meet the Challenges for the Disaster

■ Multiple critical patients, limited resources Environment:

- Bedside US can facilitate triage
 - F.A.S.T Plus exam (Focused Abdominal Sonogram for Trauma Plus)
 - Exclusion of pneumothorax
 - Evaluation of intravascular volume
 - Pericardial effusion
 - Etiology/reversal of PEA arrest
 - Confirmation of bilateral lung expansion after intubation

US in the Disaster Environment


- Overwhelmed medical facilities
 - Can potentially decrease number of patients referred to local facilities
 - GB disease, ureteral stones, fetal wellbeing/ fetal age, confirm IUP.
 - Limit referrals for radiologic evaluation in some cases

US in the Disaster Environment

- Bedside (cot-side) Procedural guidance
 - Central line access
 - Difficult peripheral venous access
 - Joint aspiration
 - Evaluation of abscess size
 - Paracentesis/thoracentesis fluid localization
 - Bladder evaluation/ Bladder tap
 - Lumbar puncture landmarks
 - Foreign body localization and removal



Who are we?

- Melissa Costello, MD
 - University of Alabama, Mobile
 - AL₃ DMAT
 - Steven J. White, MD
 - Vanderbilt University Medical Center
 - TN₁ DMAT
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Disclaimer:



- *This Ultrasound Workshop is an introductory training course on screening sonography in the clinical setting. This workshop is not a certification, credentialing, privileging, or validation process. Individual hospitals, healthcare systems, and residency programs have modified professional societies' recommendations to meet the needs of their patients and assure quality care. Hospital systems may not accept the NDMS, or any other, US course as the prerequisite for their privileging. The NDMS Chief Medical Officer (CMO) is in the process of reviewing current standards and will develop a formal procedure for ultrasound privileging in NDMS.*