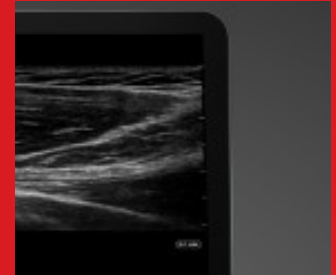




**Emergency
Care Institute**
NEW SOUTH WALES

Ultrasound in ED : Getting it all Together

Dr Lee Blair
Advanced Trainee
Emergency Care Institute



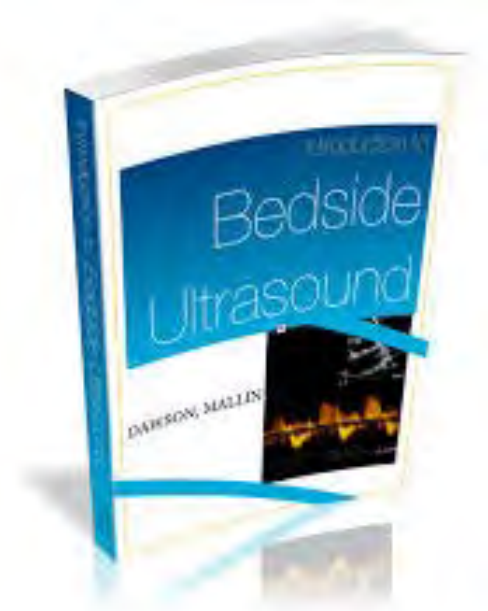
History of Emergency Ultrasound

- Early pregnancy, Trauma
- Ultrasound Machines
 - Smaller / Better / Cheaper
- Increased Availability
- Increased Utility



Point of Care Ultrasound (PoCUS)

- Ultrasound at the Bedside
- Extension of Clinical Examination
 - E-FAST
 - AAA
 - Vascular Access
- Proven Benefits
 - Time to OT
 - Time to Diagnosis
 - Complications



The Problem with PoCUS

- Operator dependent
- Appropriate use
- Required training
- Misinterpretation
- Variation in practice
- Quality

Policies and Guidelines

- Acknowledged by ACEM, ASUM
 - Certificate of Clinician Performed Ultrasound (CCPU)
 - Independent Course Providers
- Recognised by FACEMs and ED Trainees
- International Colleges
 - ACEP / RCEM



Getting it all Together

- Collating the Information
- Support for Trainers and Trainees
- Help with Credentialing
- Provide a Structure
- Regular Peer Review
- Expert Informed

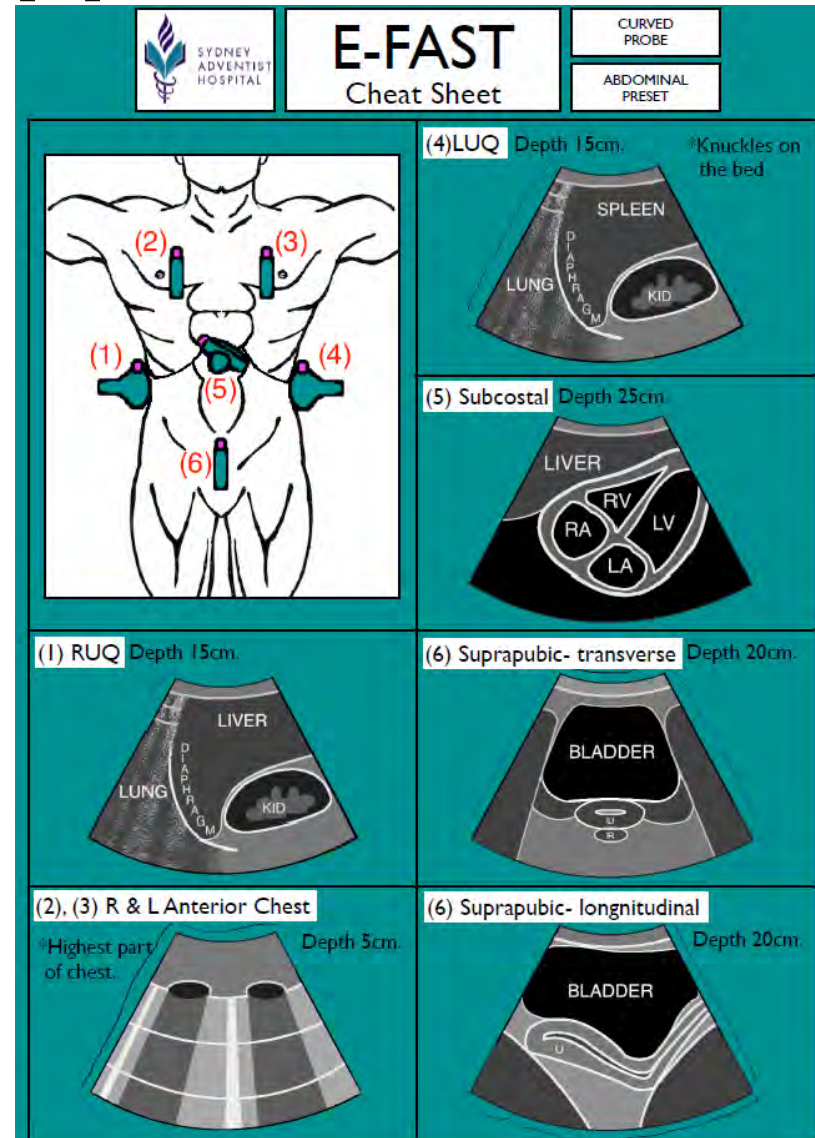


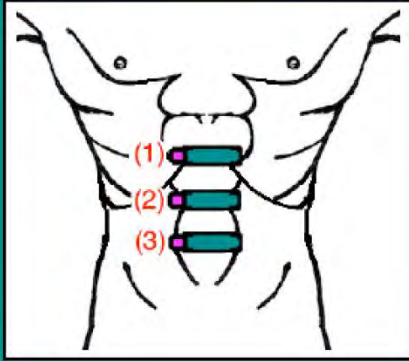
Collating the Information

- One Stop Shop
 - For LHDs
 - For Directors
 - For Trainers
 - For Trainees
- Current Training Options
- Standards for Training
- Running Workshops

Providing Local Support

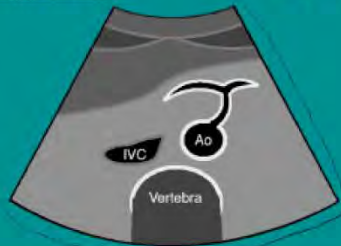
- Cheat Sheets
- Logbooks
- Assessment Templates
- Educational Material





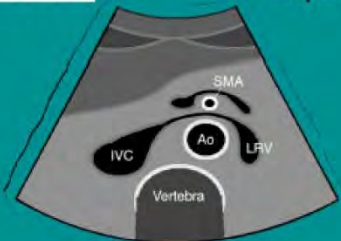
(1) Upper AA

Depth 10 cm.



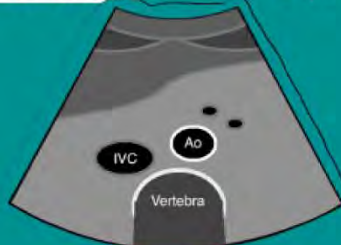
(2) Mid AA

Depth 10 cm.



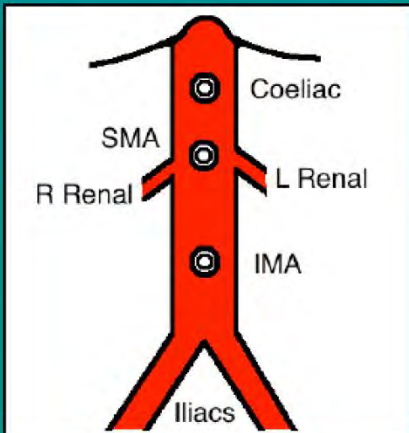
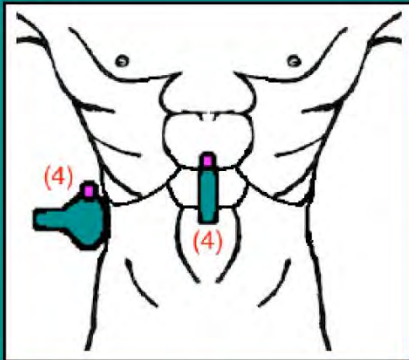
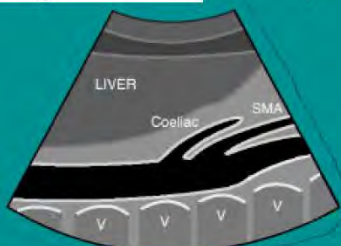
(3) Inferior AA

Depth 10 cm.



(4) Longitudinal AA

Depth 10 cm.



Abdominal Aortic Aneurysm Ultrasound Logbook

Name _____

Contents

AAA Accreditation Requirements

15 Abdominal Aorta Report Records

3 Formative Assessments

1 Summative Assessment

E-AORTA

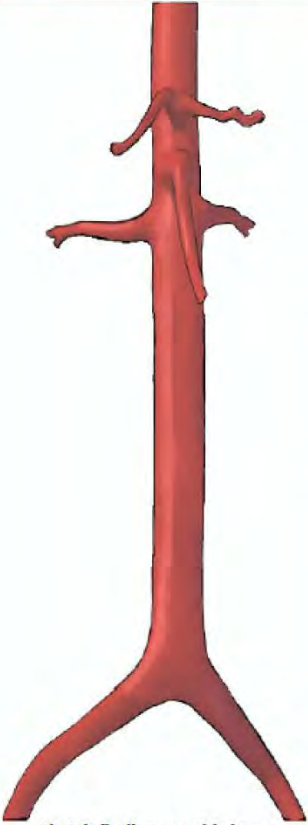




This is a focused abdominal aortic ultrasound. It aims to determine the diameter of the abdominal aorta. Generally it cannot confirm or exclude rupture or any other pathology. Any incidental findings commented on should be independently confirmed by a formal imaging investigation.

Patient details

History

Pulse

BP

Normal Abdominal Aorta	Normal Views	Findings				
 <p>Sketch findings on this image</p> <p><small>Copyright Rippey and Erleve 2009</small></p>	Upper Abdominal Aorta TS Coeliac Axis 	Basic Report	Abdominal Aorta Transverse	Normal < 3 cm throughout	Inadequate views	Transverse section Maximal diameter ____ cm
	Upper Abdominal Aorta TS SMA 		Abdominal Aorta Longitudinal	Normal < 3 cm throughout	Inadequate views	Longitudinal section Maximal diameter ____ cm
	Mid Abdominal Aorta TS 	Evidence of Rupture	Retroperitoneal Haematoma	None	Inadequate views	Present
			Free Fluid	None	Inadequate views	Small Moderate Large
	Abdominal Aorta LS 	Advanced	Renal Arteries	Normal (Not involved)	Inadequate views	Aneurysm involves origin of Renal Arteries
			Left Iliac Artery	Normal (Not involved)	Inadequate views	Aneurysm involves Left Iliac Artery
			Right Iliac Artery	Normal (Not involved)	Inadequate views	Aneurysm involves Right Iliac Artery

Conclusions (Note: E-AORTA findings must be consistent with clinical suspicion; integrate history, examination, investigations and E-AORTA findings to reach a conclusion. Seek urgent formal USS or CT if uncertainty remains)

Clinician

Signature

Date

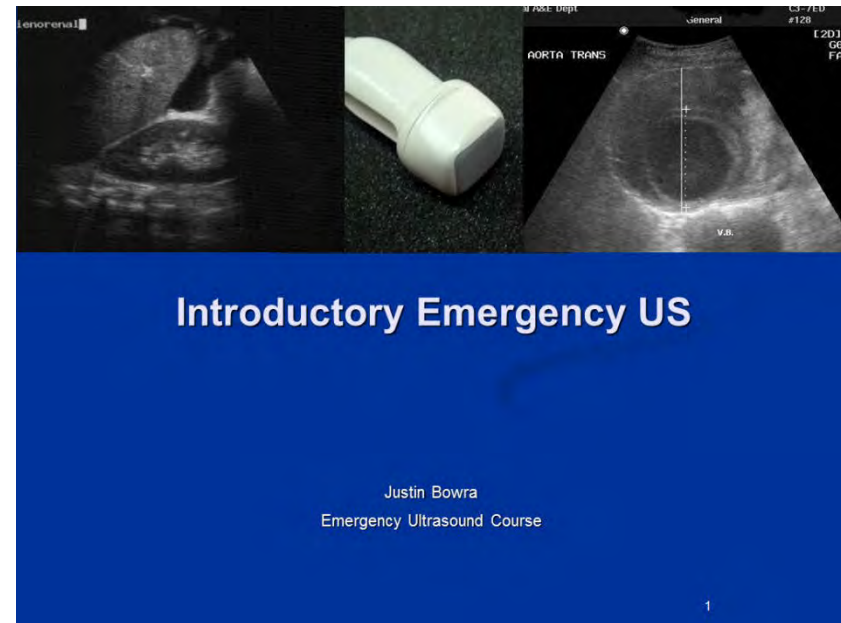
Empowering Local Programmes

■ Downloadable Workshop Structure

- Programme
- PowerPoint Presentations
- Requirements
- Recommended Patients / Phantoms
- MCQs
- ACEM Accredited

■ UTEC

- Ultrasound Training for Emergency Clinicians



UTEC

- Robust Freely Accessible e-learning Platform
- Incorporate Workshops Developed by ECI
- Online Portal
- Certificate of Completion
- Quality Framework and Re-credentialing
- Support for Rural Hospitals

UTEC FAST: Focused Assessment with Sonography for Trauma

Show Menu | References | Help | Exit

FAST part 1 - Right Upper Quadrant: Orientation

RUI View Close

FAST AAA 2010Jul21 10:50
Gen THI
S MB

Abd C60
67%
MI 0.7
TIS 0.1
4BP 206
A
B Div

Click Close to continue.

Click the Continue button to proceed.

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NSW Health

Getting it all Together

- Collating the Information
- Support for Trainers and Trainees
- Help with Credentialing
- Provide a Structure
- UTEC
- Peer Reviewed
- Expert Informed





*Emergency
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Thank You

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