

# Your Pocus Cards For Your Every Day Scanning

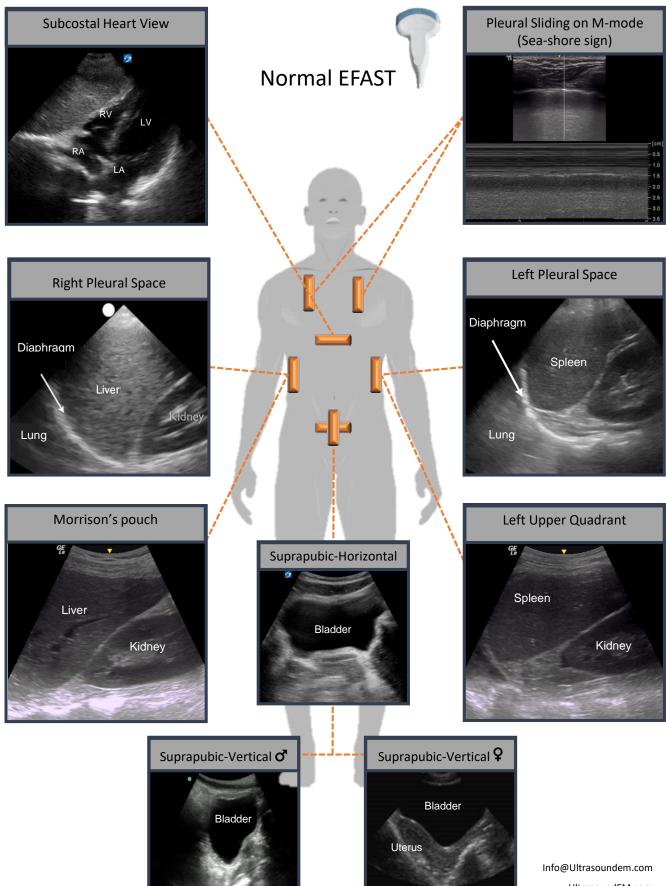


www.UltrasoundEM.com

### E-FAST

# Itrasound

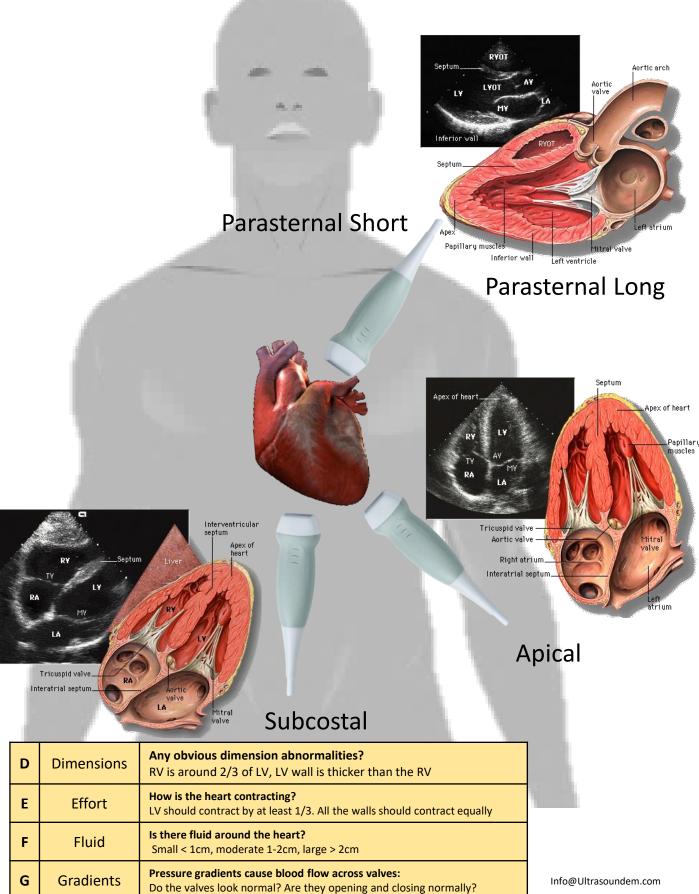
#### Extended Focused Assessment by Sonography in Trauma



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### Heart Ultrasound



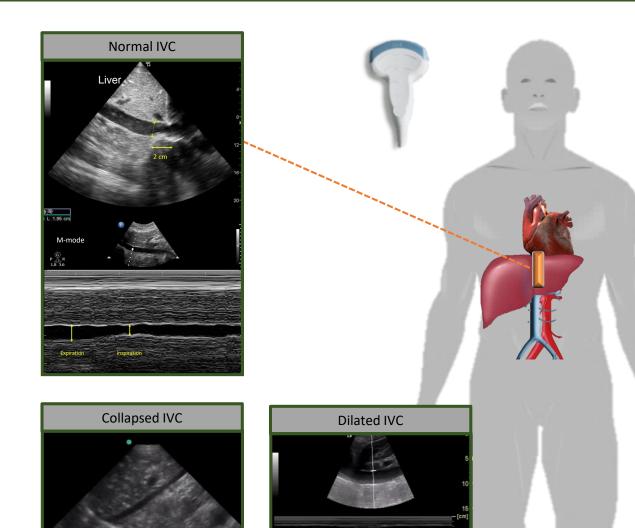


Images courtesy C. Carl Jaffe, MD, and Patrick Lynch, Yale University

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### IVC assessment

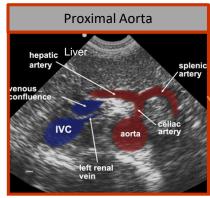




Small <1.5cm	Collapsing completely	Tank is empty	Fluids should be given
Large >2.5cm	Minimally collapsing	Tank is probably not empty	Fluids may not help  Look for non-hypovolemic causes of shock

### Abdominal Aorta







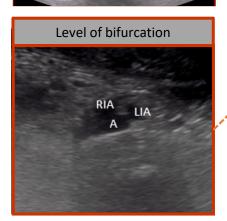
Normal Aorta= 3cm

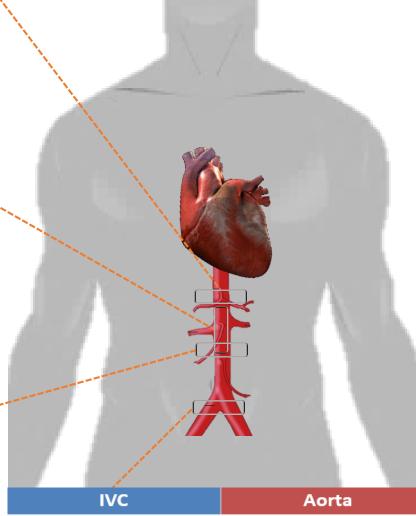
Normal Iliac arteries < 1.5cm

#### Longitudinal view









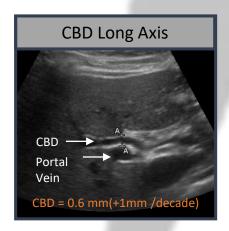
On patient's right	On patient's left
Compressible	Non-compressible
Thinner walls	Thick walls
Not pulsatile (or displays 'double-pulsatile swing' = transmitting the cardiac atrial and ventricular pressure wave)	Pulsatile (simple)
Usually larger (can depend on hydration status)	Usually smaller (unless AAA)

# Biliary Ultrasound

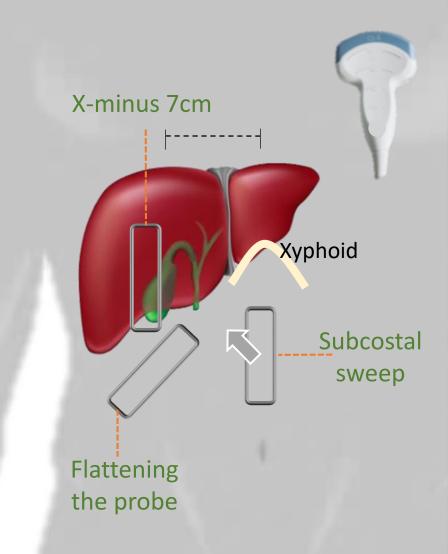


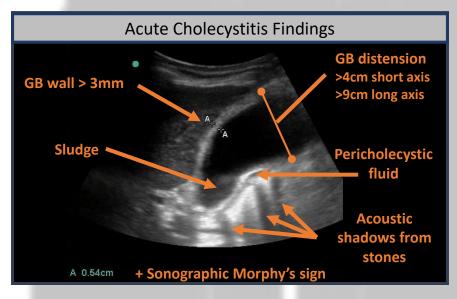






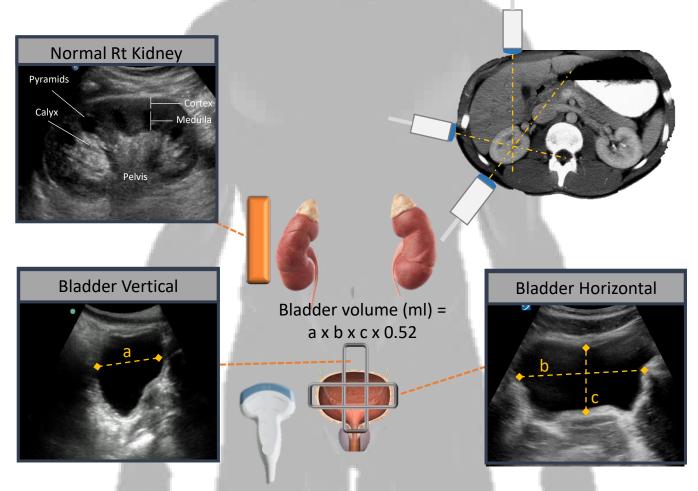


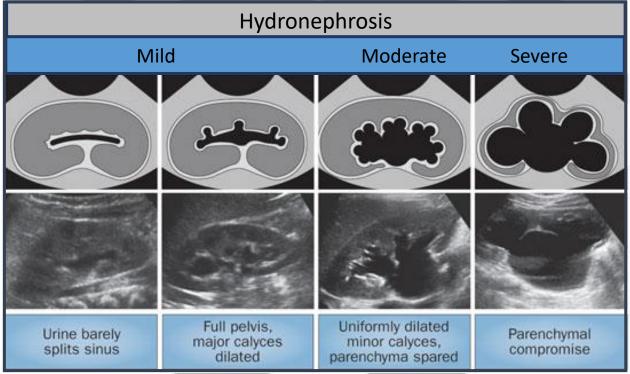




## Renal Ultrasound



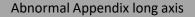


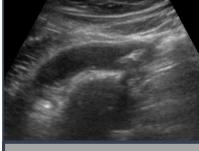


#### **Bowel Ultrasound**





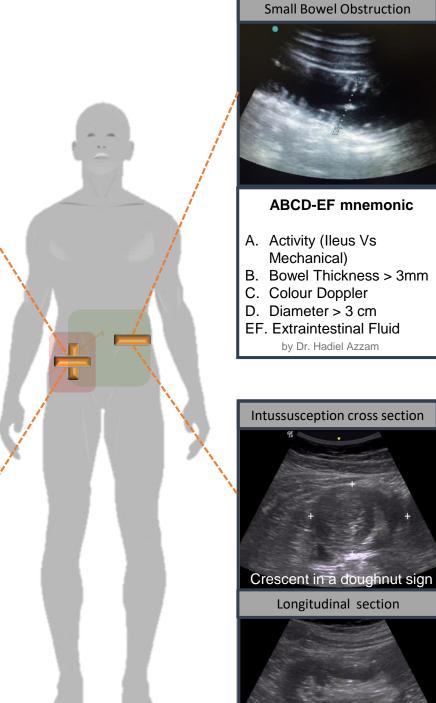




Abnormal Appendix short axis



- Outer Diameter > 6mm
- Non-compressible
- No peristalsis
- Appendicolith
- Target sign in short axis
- Increased vascularity with Color Flow Doppler
- Periappendiceal Fluid Collection

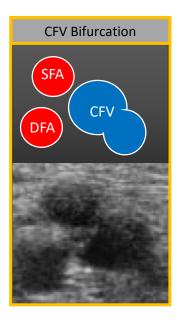


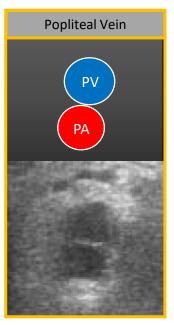
Pseudokidney sign

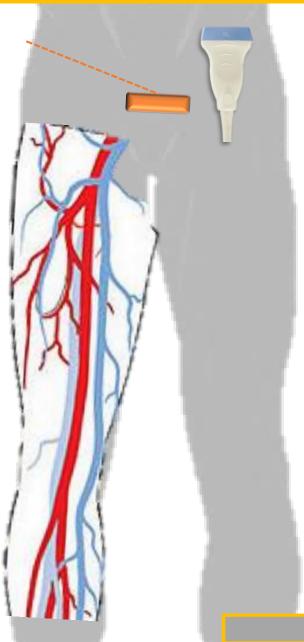
### **DVT** Assessment

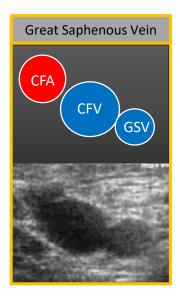




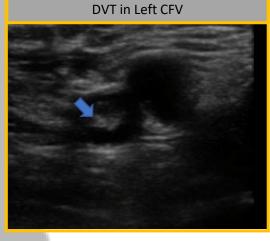












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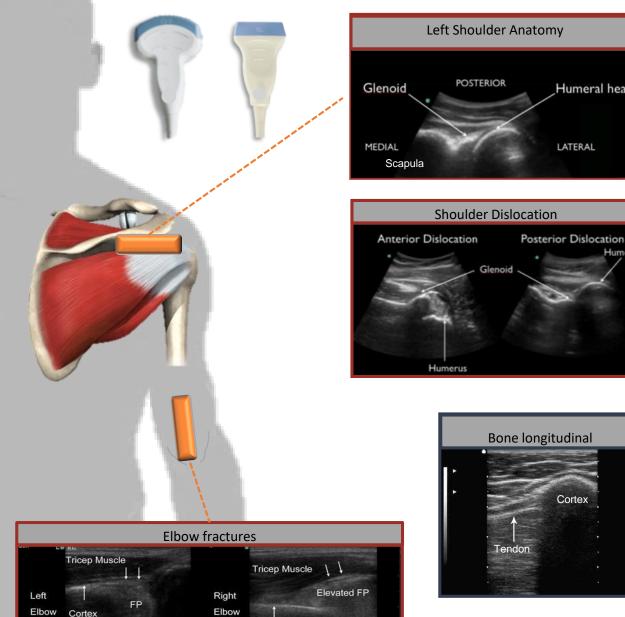
#### Musculoskeletal US

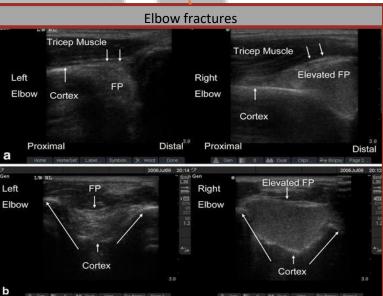
Fractures and Dislocations



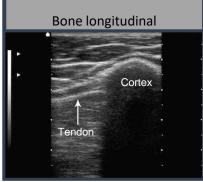
Humeral head

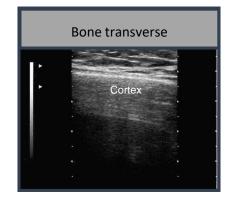
LATERAL









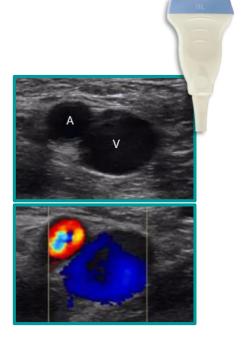


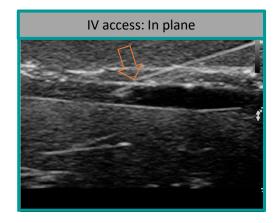
#### **IV** Access

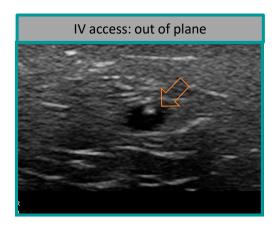


#### Differences between artery and vein

Artery	Vein
Smaller diameter	Larger diameter
Thicker walls (although difficult to appreciate by US)	Thinner walls
Pulsatile (pulses seen clearly and are sustained)	Can transmit pulses (pulses are more wavy may not be sustained)
Color Doppler: pulsatile flow	Flow may not be seen in smaller veins, and can be enhanced by squeezing calf muscles









#### **Soft Tissue Scan**

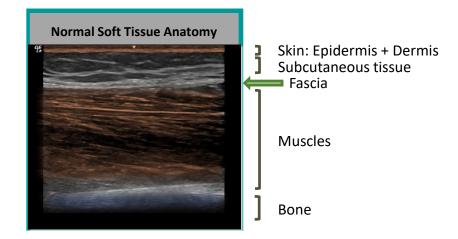
#### **Foreign Bodies and Infections**

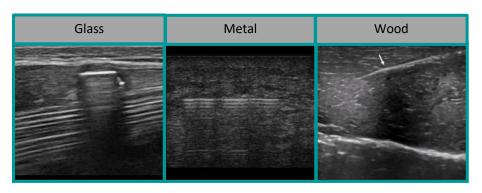


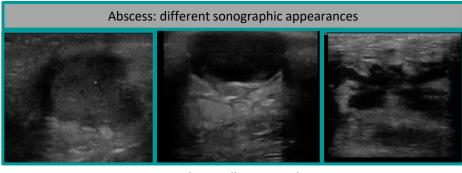


#### <u>Tips</u>

- Scan from normal to normal area
- Apply Doppler when needed



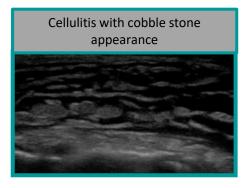




Hypoechoic collection

Anechoic collection with posterior acoustic enhancement

Diffuse collection





Images courtesy of Josef Minardi

Subcutaneous thickening Air shadowing

Fascial disruption & Sub-Fascial fluid