

VIRGINIA ROBINSON OCTOBER 2021

POCUS FOR THE OFFICE

Game changing ultrasound findings for the office.

DISCLOSURE

Speaking honorariums from RccBC, UBC, EK Divisions, and Clarius



AMERICAN ACADEMY OF
FAMILY PHYSICIANS

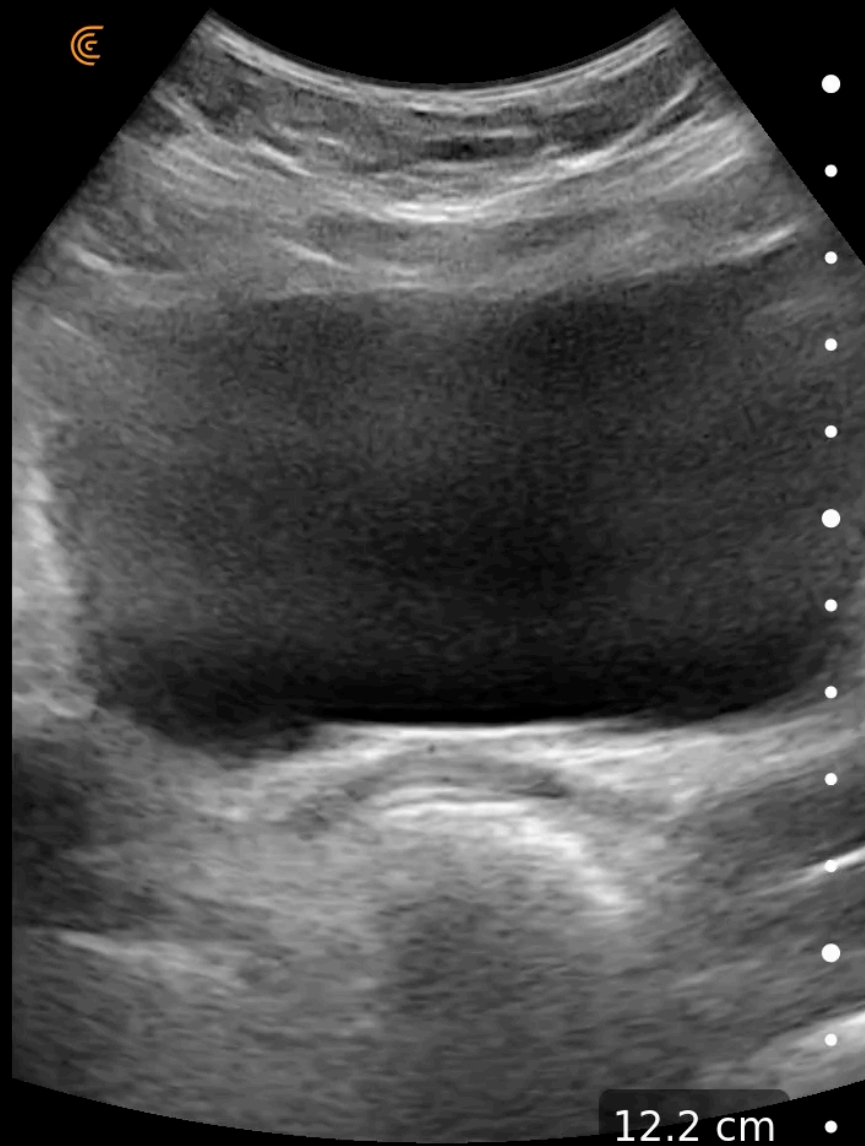
AAFP Reprint No. 290D

Recommended Curriculum Guidelines for Family Medicine Residents

Point of Care Ultrasound

This document is endorsed by the American Academy of Family Physicians (AAFP).





12.2 cm

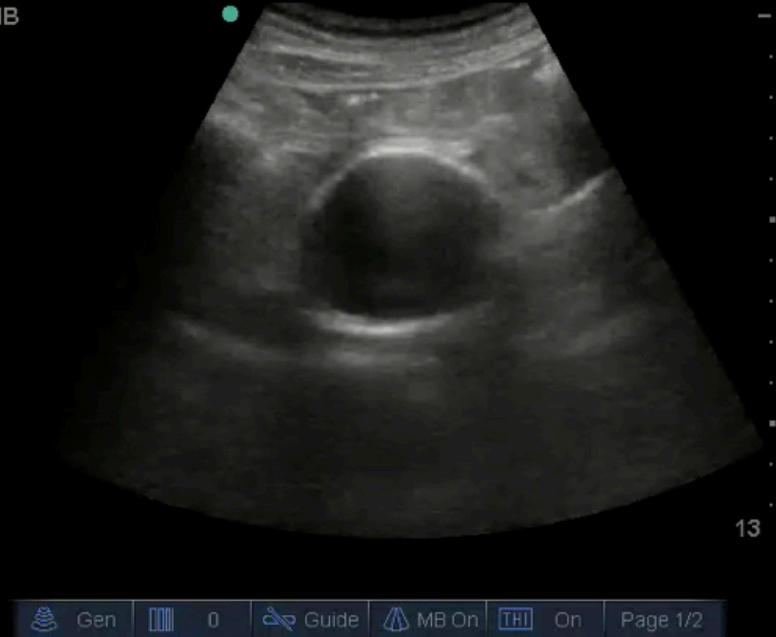
LEARNING OBJECTIVES:

- Learn how you can incorporate POCUS into your office practice.
- Review cases in the following 3 scenarios:
 - IUP
 - lung US: r/o pneumonia
 - aortic aneurysm

IUP?



AAA?



CASE 1

65 yo male comedian with intermittent non-specific lower abdominal pain. Maybe it gets worse after a meal, particularly a large meal. Radiates to the back. He has no chest pain, no epigastric pain, and no other abdominal symptoms.

Ex-smoker. Smoked from age 14 to 55 but quit when his older brother died of lung cancer

BP: 160/88







15 cm



CASE 2

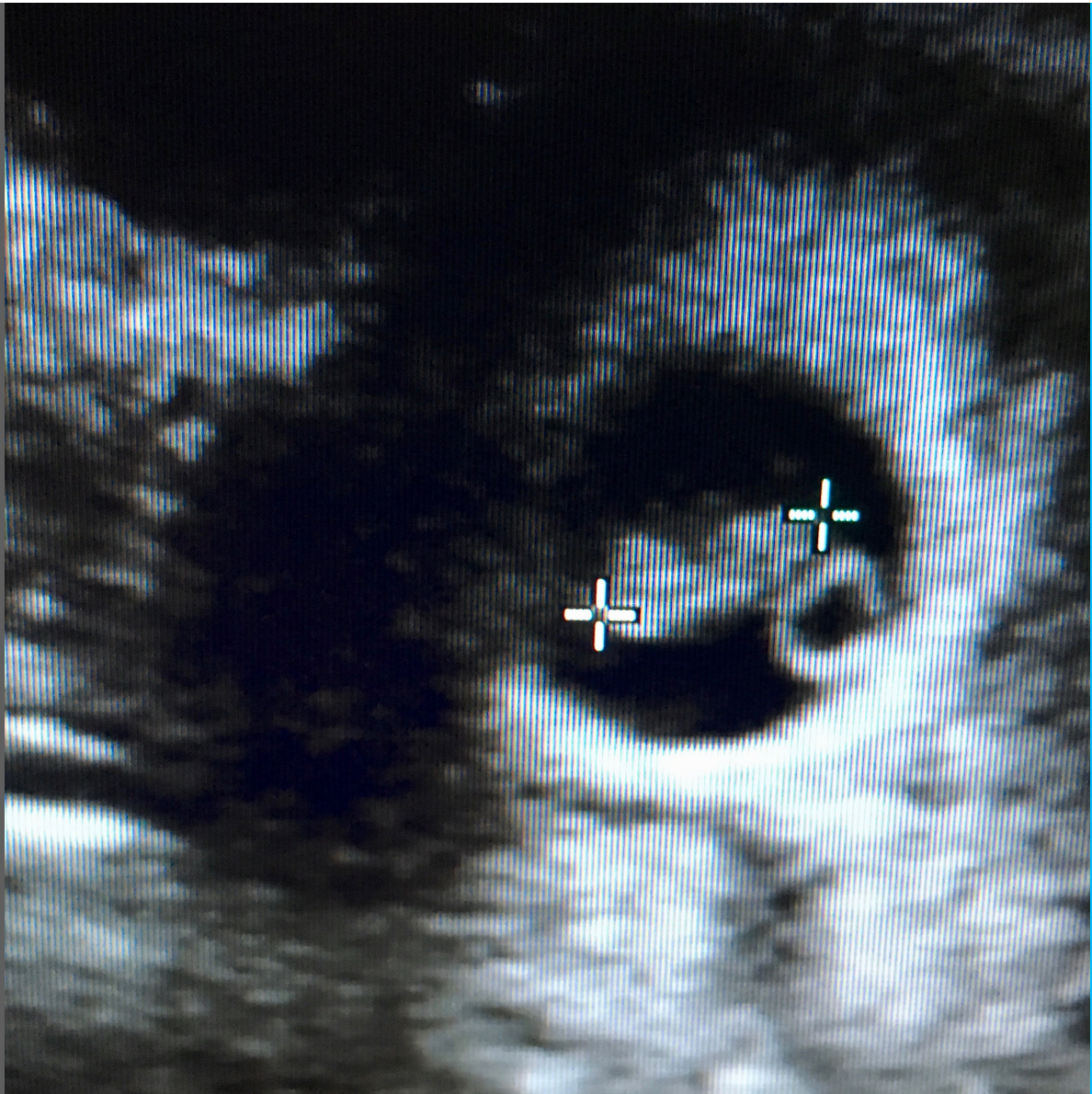
29 yo G3P0, 8wks2d gestation by certain dates.

One previous miscarriage at 8 weeks, one ectopic pregnancy

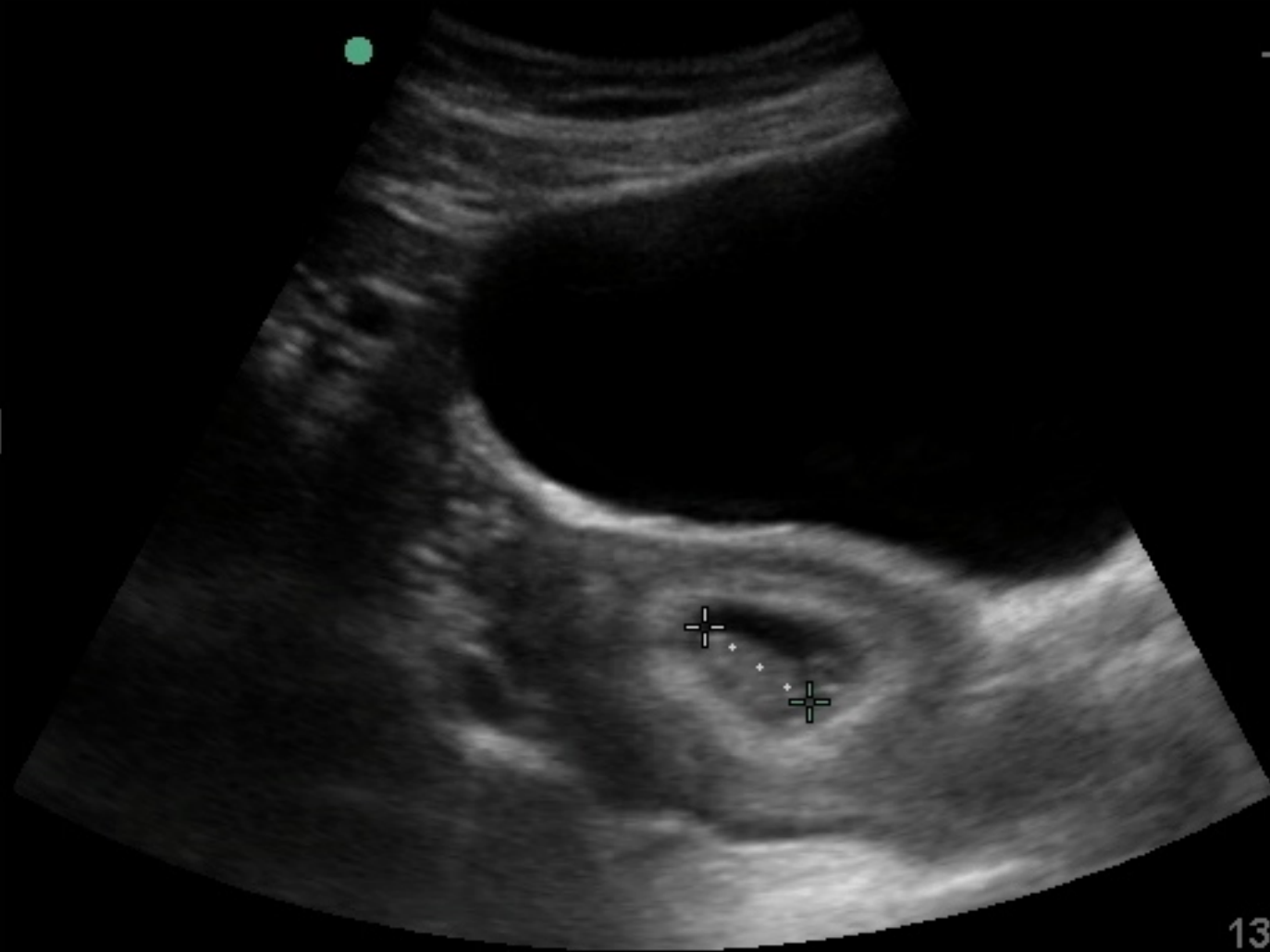
Presents with vaginal bleeding and positive pregnancy test

To RULE IN an IUP
Locate the
Following:

- Bladder
- Uterus
- Gestational Sac
- Yolk Sac
- +/-Fetal Pole



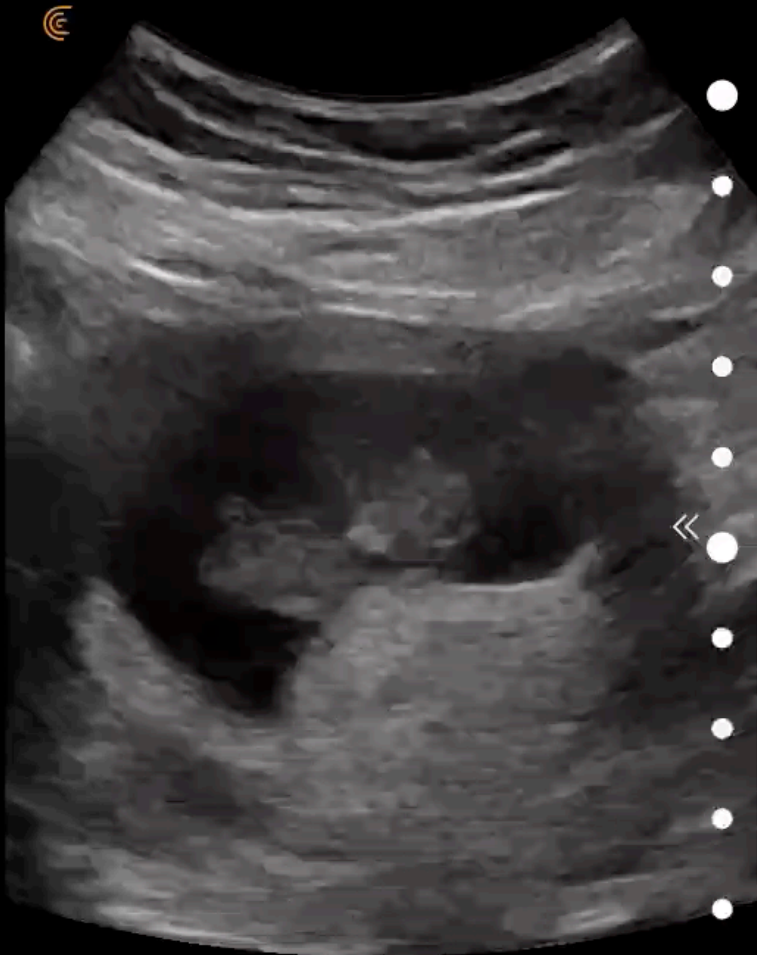
2017Apr27 1



CRL 1.84cm 8w2d

13

Dr Virginia Robinson Inc



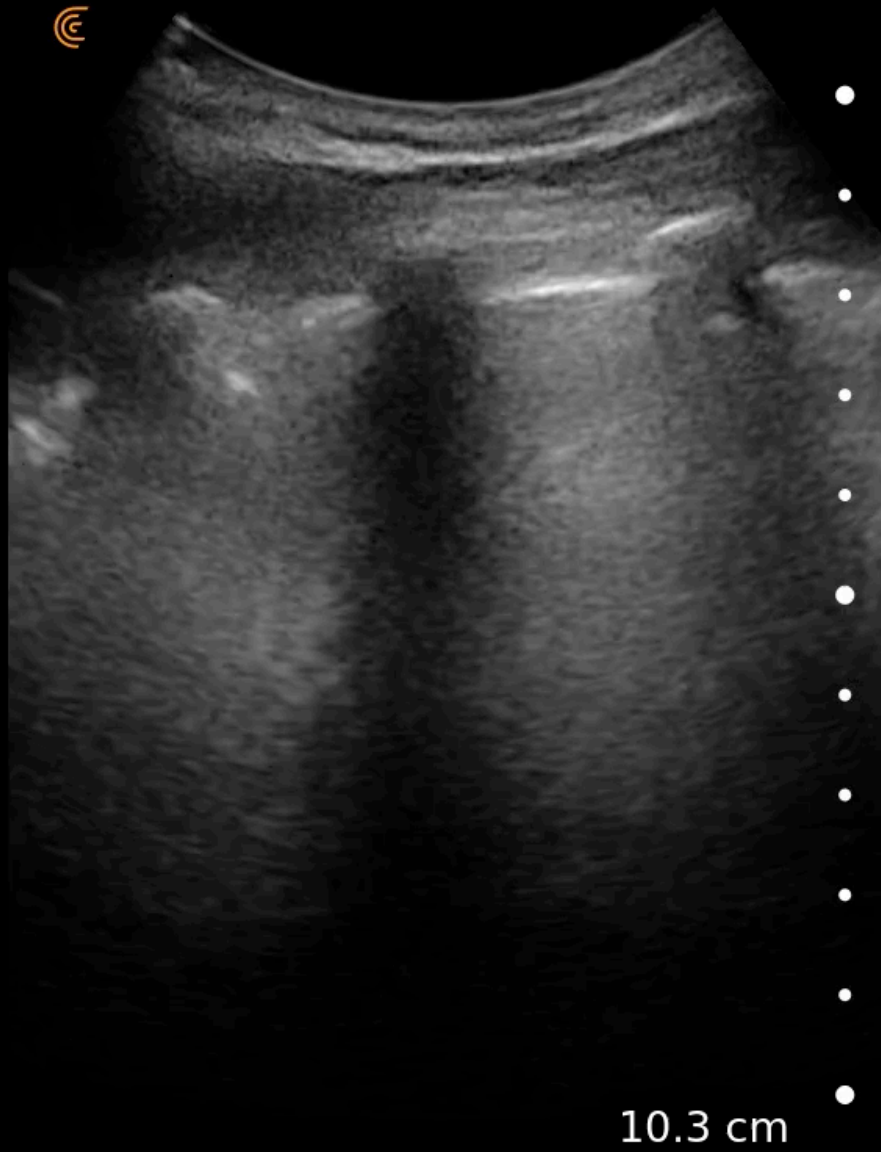
24 FPS / 2.5 MHz

9.5 cm

CASE 3

- 45 yo male seen in the emergency room with chest pain, cough, and shortness of breath.
- T: 37.7 P:90 BP 110/60 O2 Sat: 94%
- Lung auscultation with stethoscope (circa 1816) clear/negative
- CXR (circa 1895) negative
- Given Rx: Azithromycin 3d ago but not improving
- Presents to his family doc for follow-up as directed.



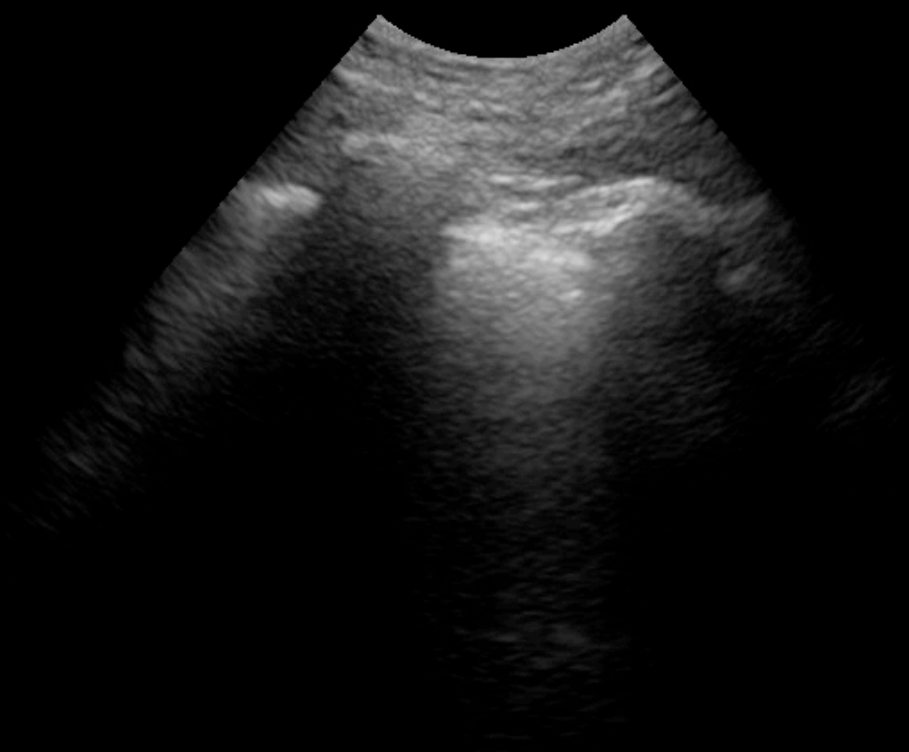


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ELK VALLEY HOSPITAL

22/04/17
12:49:34 PM

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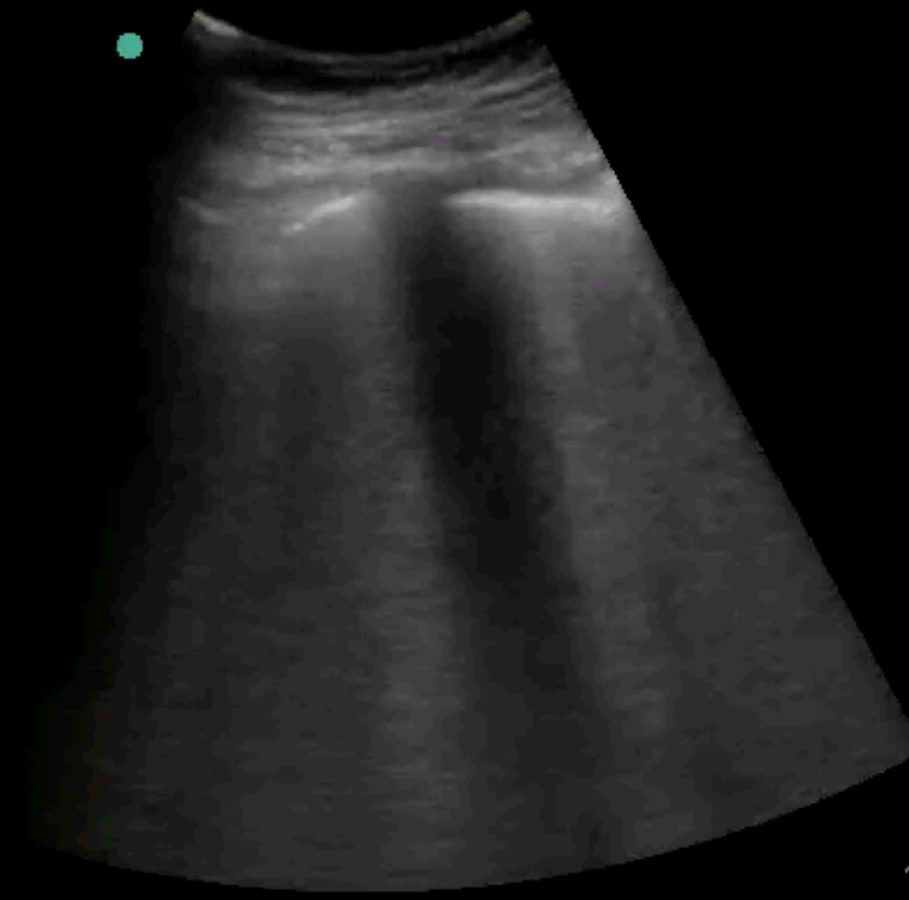
Abd/CHEST
_ C4-1/CH4MHz
_ DR65/M3/P2
_ G70/E1/100%
_ MI1.3 TIs0.4
_ 10.0 cm
_ 14 Hz
_ ZSI 0
_ **Image**



Gen THI
S MB

100357740

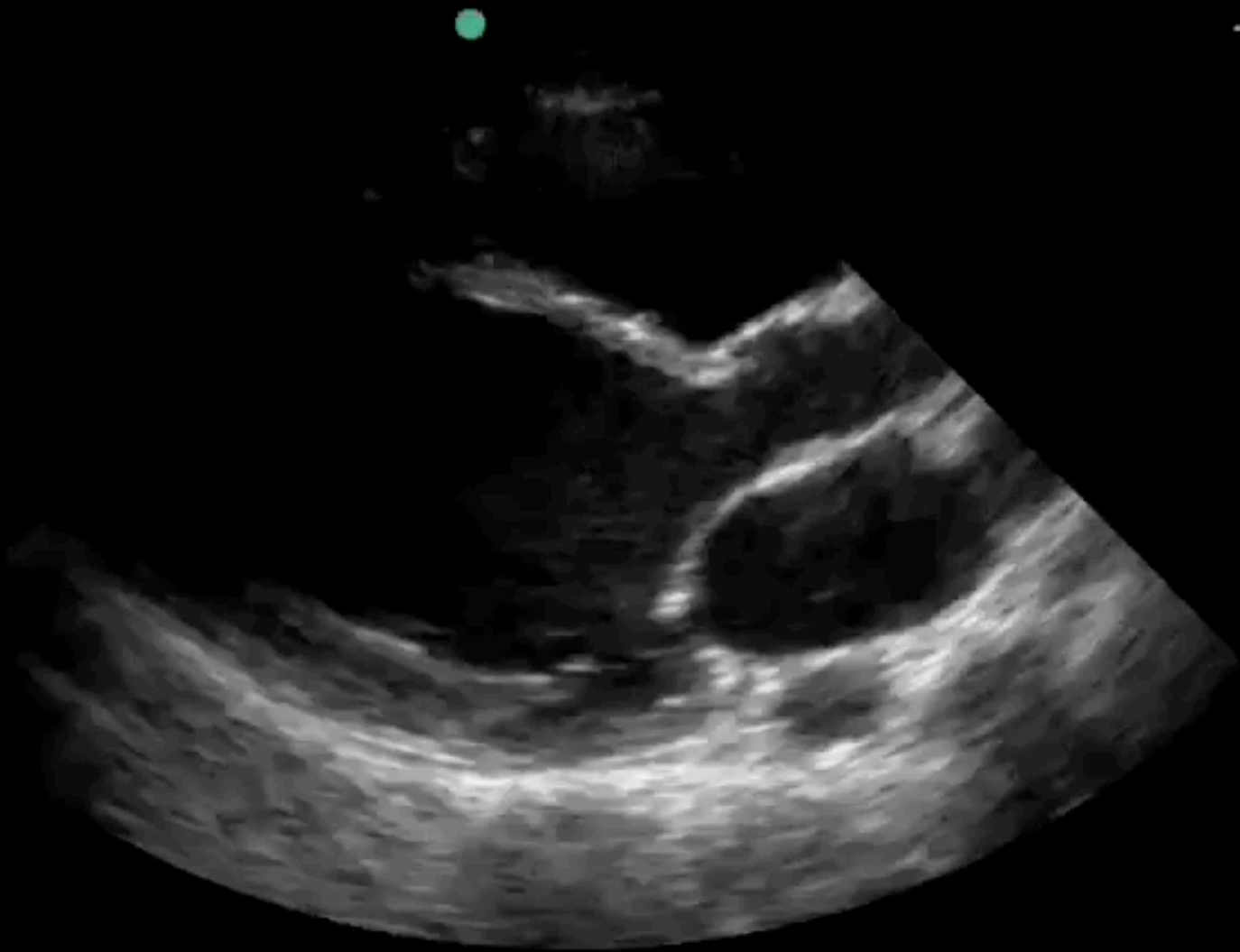
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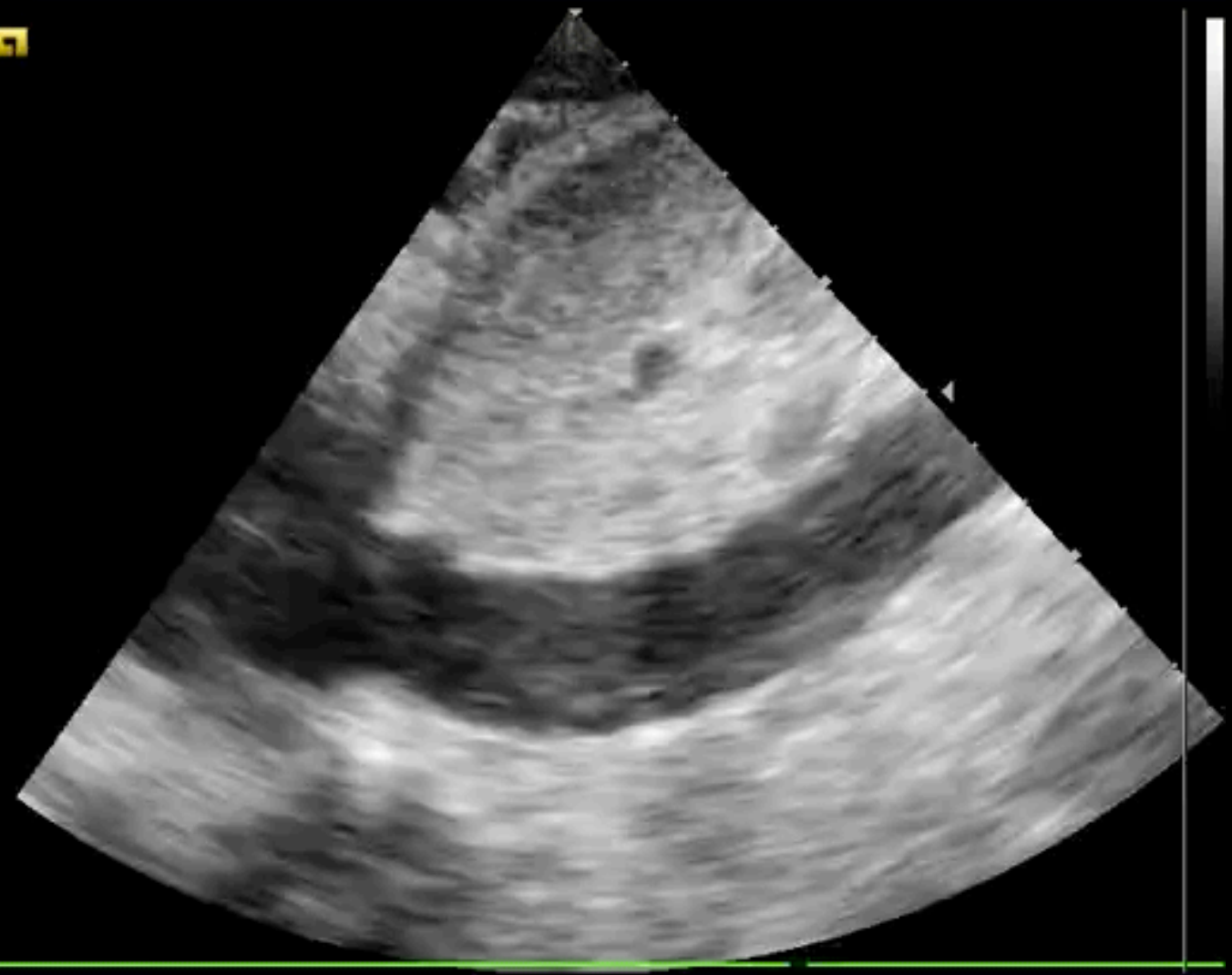
Abd
- C60
56%
MI
0.7
TIS
0.1



15



P5-1
Cardiac
45 dB
THI 1.7 MHz
DR 65 dB
Edge 1
Persist 1
R/S 1
Map E
Tint 2
45 fps



13 cm

P 100% MI 1.06

ORIGINAL



Comparative study of lung ultrasound and chest computed tomography scan in the assessment of severity of confirmed COVID-19 pneumonia

Laurent Zieleskiewicz^{1,2*} , Thibaut Markarian³, Alexandre Lopez¹, Chloé Taguet³, Neyla Mohammedi¹,

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CHRISTOPH A. FUX,^{*†} and SEBASTIAN HAUBITZ^{*†}

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**CAN YOU DO
THIS SAFELY?**



McRae et al. CJEM 2009 July. Diagnostic accuracy of ED first trimester US:

- Specificity exceeds 98% Sensitivity exceeds 90%**
- Reduces frequency of missed ectopics, decreases time to surgery for ectopics, shortens length of stay for patients with normal pregnancy, and is more cost effective.**
- IUP's can be detected at 5.5 weeks of pregnancy.**

A Review of Lawsuits Related to Point-of-Care Emergency Ultrasound Applications


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Analysis of lawsuits related to diagnostic errors from point-of-care ultrasound in internal medicine, paediatrics, family medicine and critical care in the USA

Michael Reaume,¹ Mehdi Farishta,² Joseph A Costello,³ Tyler Gibb,⁴
Thomas A Melgar ⁵

TAKE HOME POINT

You are unlikely to get sued for incorporating ultrasound into your physical exam... but you might get sued if YOU DON'T!



