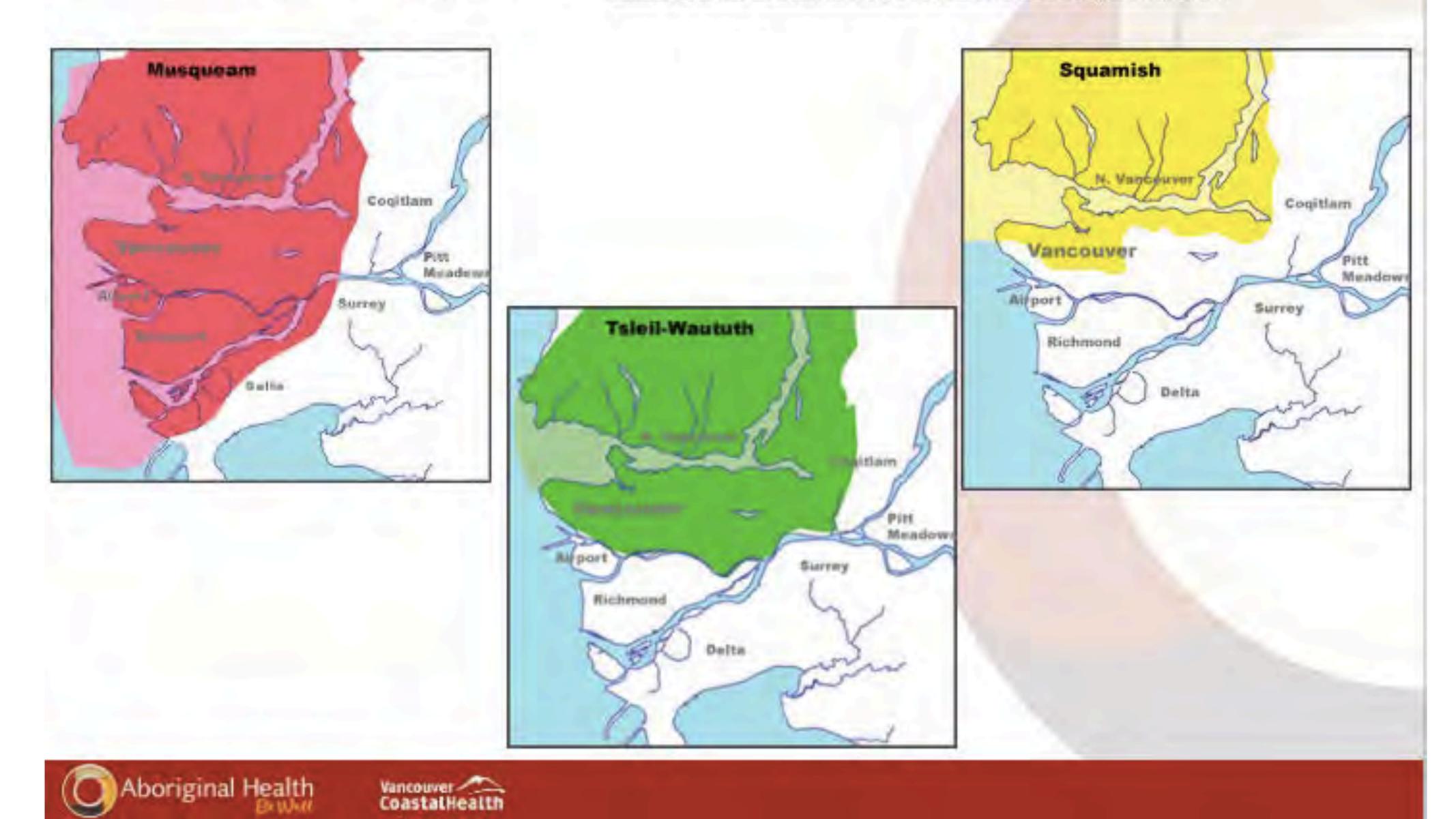
# POCUS IN THE OFFICE AND NURSING Home

**JUNE 2023** 

Waututh peoples.



#### We would like to acknowledge that we are gathered today on the traditional territories of the Musqueam, Squamish and Tsleil-

Source: www.johomaps.net/na/canada/bc/vancouver/firstnations/firstnations.html

# 

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

### **LEARNING OBJECTIVES**

- internationally
- Gain an understanding of how POCUS is vital to the democratization of healthcare
- trimester bleeding, and bladder volume assessment.

### A brief overview of the landscape of POCUS in family medicine nationally and

Review cases which demonstrate the usefulness of POCUS in the office and nursing home: cellulitis vs. abscess, volume assessment, pneumonia, first

### AMERICAN ACADEMY OF FAMILY PHYSICIANS

### **Point of Care Ultrasound**

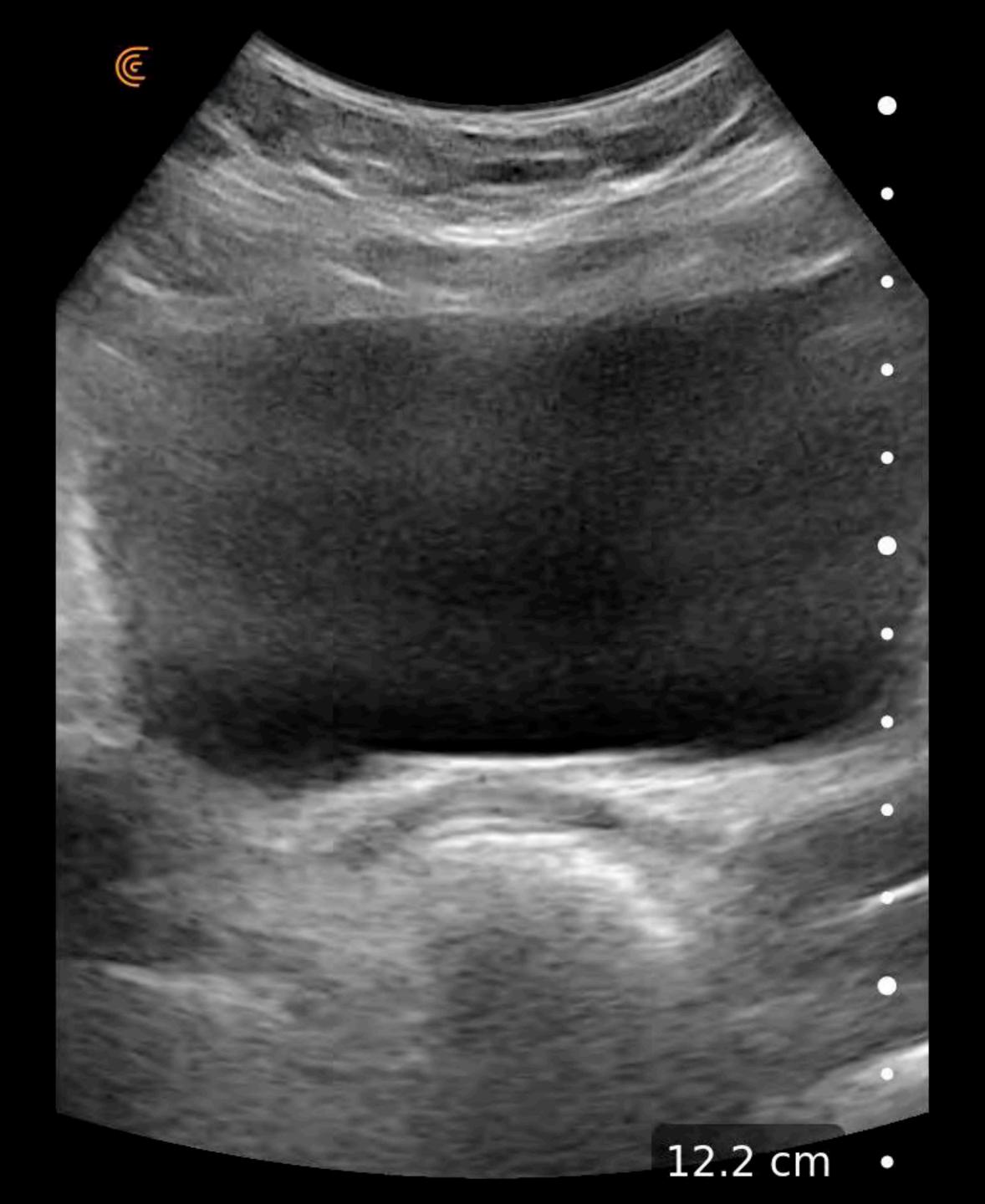
This document is endorsed by the American Academy of Family Physicians (AAFP).

#### AAFP Reprint No. 290D

#### Recommended Curriculum Guidelines for Family Medicine Residents







### Use of Point-of-Care Ultrasound in Rural British Columbia: scope, education and barriers.

### POCUS should be embedded within UGME curriculum

### Residency training should have more POCUS exposure

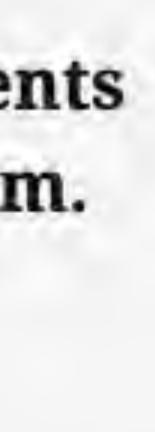
#### Article

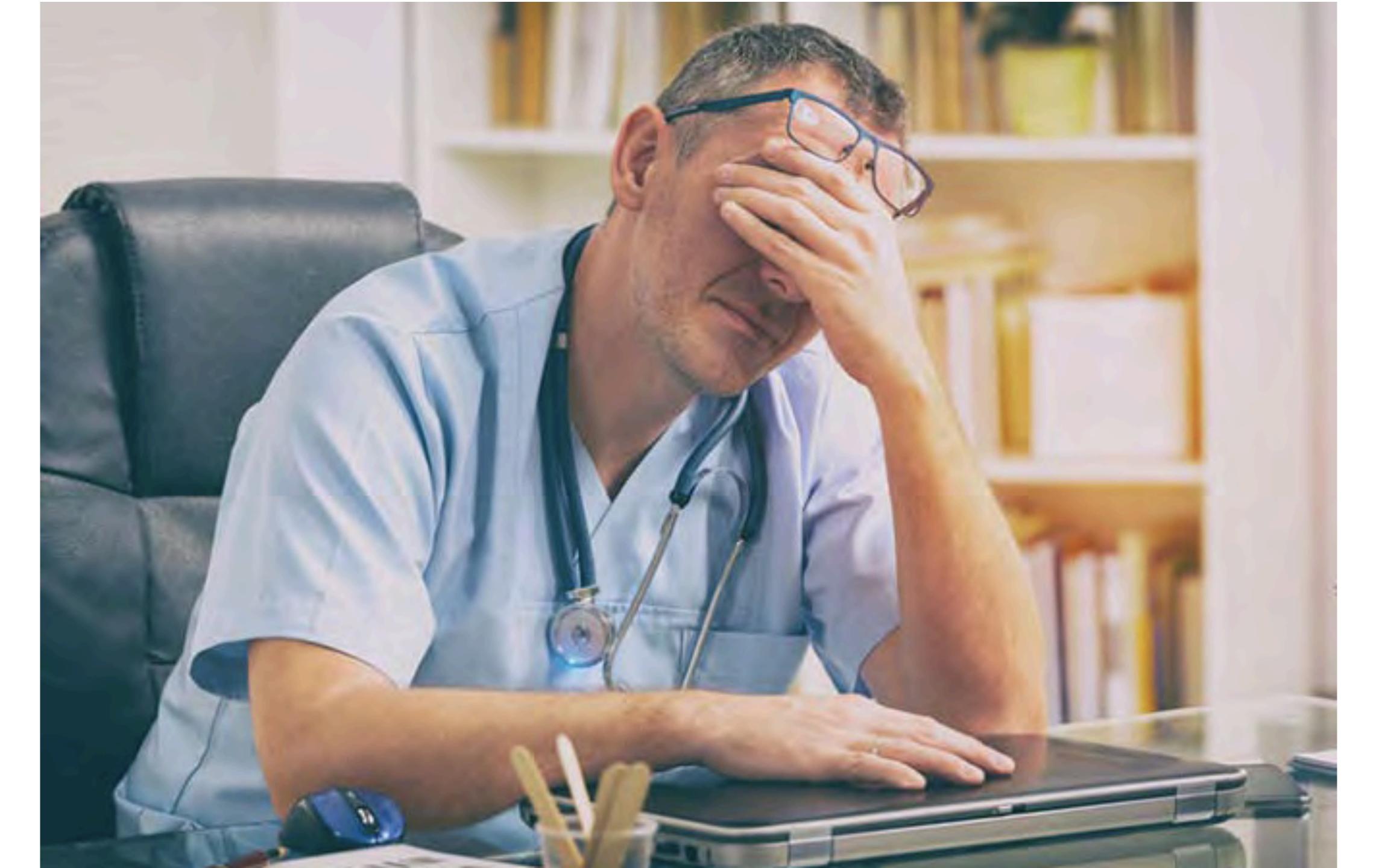
### **Point-of-Care Ultrasound in Primary Care: Perspectives of Residents** and Faculty at a Large, Urban Family Medicine Residency Program.

Published in: Family Doctor: A Journal of the New York State Academy of Family Physicians, Spring2023, Supplemental Index By: DeFelice, Dominick; Mirabelli, Mark; Smith, Brian; Sanders, Mechelle; +1 more

78% felt POCUS should be part of the residency

85% did not feel adequately skilled to teach POCUS





#### CLINICAL



Patricia M. Massel, MD, Simran K. Jawanda, MPH, Davedeep Sohi, MD, MSc, Moira H. McMillan, BA, Denise Jaworsky, MD, PhD

### Health care providers' perspectives on medical travel in northwestern British Columbia

If effort is not made to support rural patients who have to travel to receive medical attention, gaps in care between rural and urban patients will widen.

#### Shift from Cart-based to Mobile Devices

#### PHILIPS







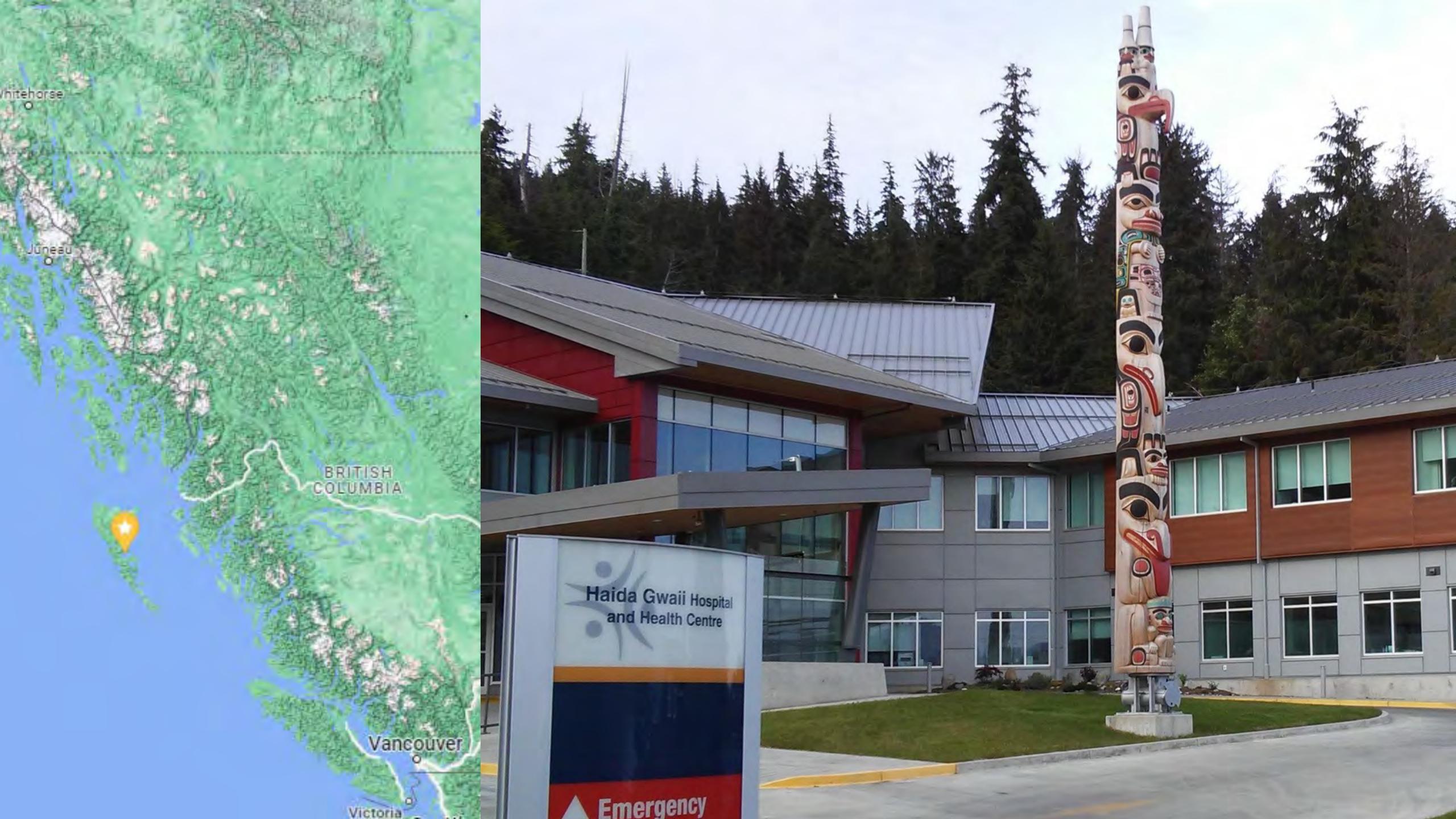


























# Real-Time Virtual Support



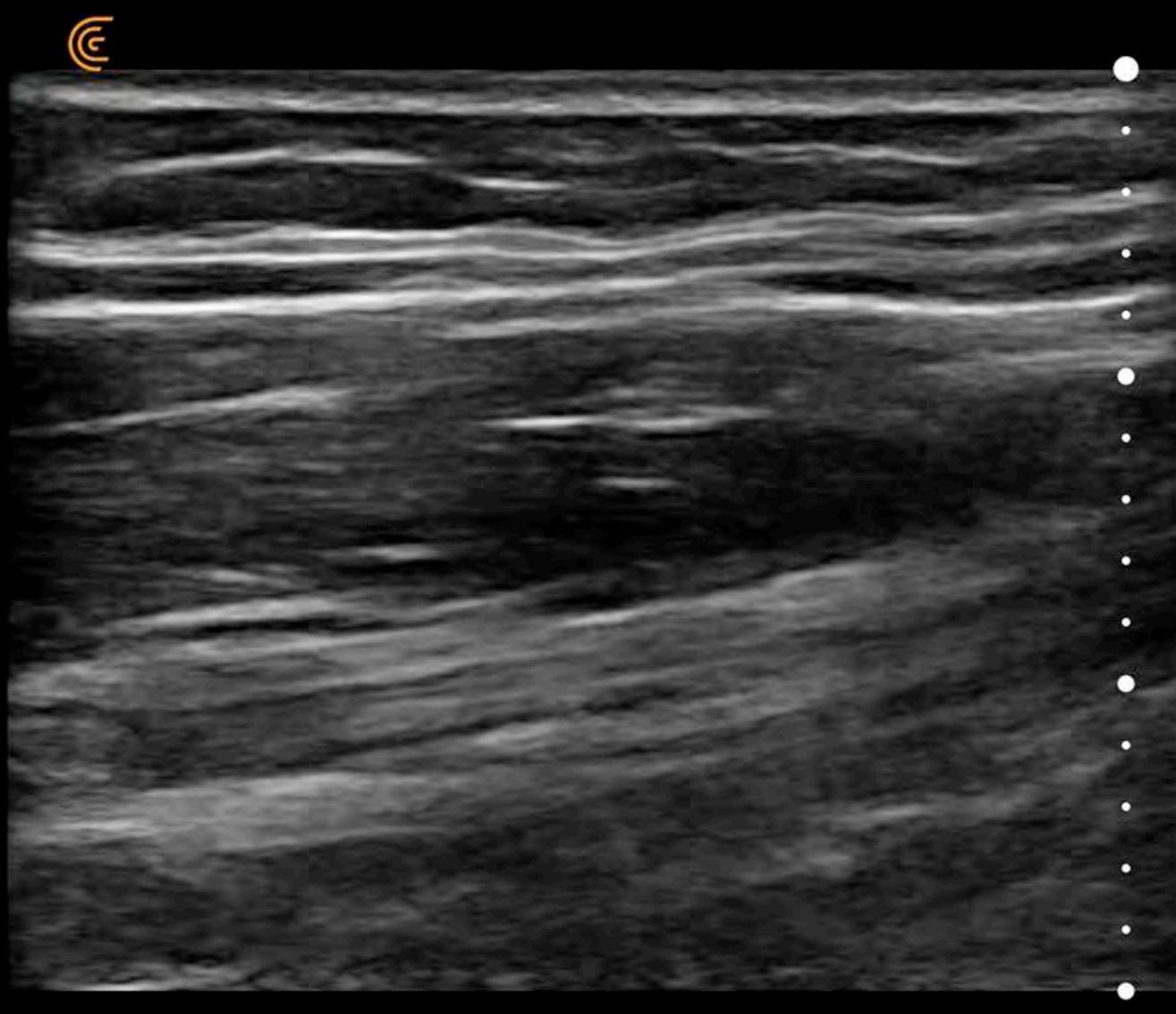
### **LEARNING OBJECTIVES**

Review the landscape of POCUS in family medicine nationally and internationally.

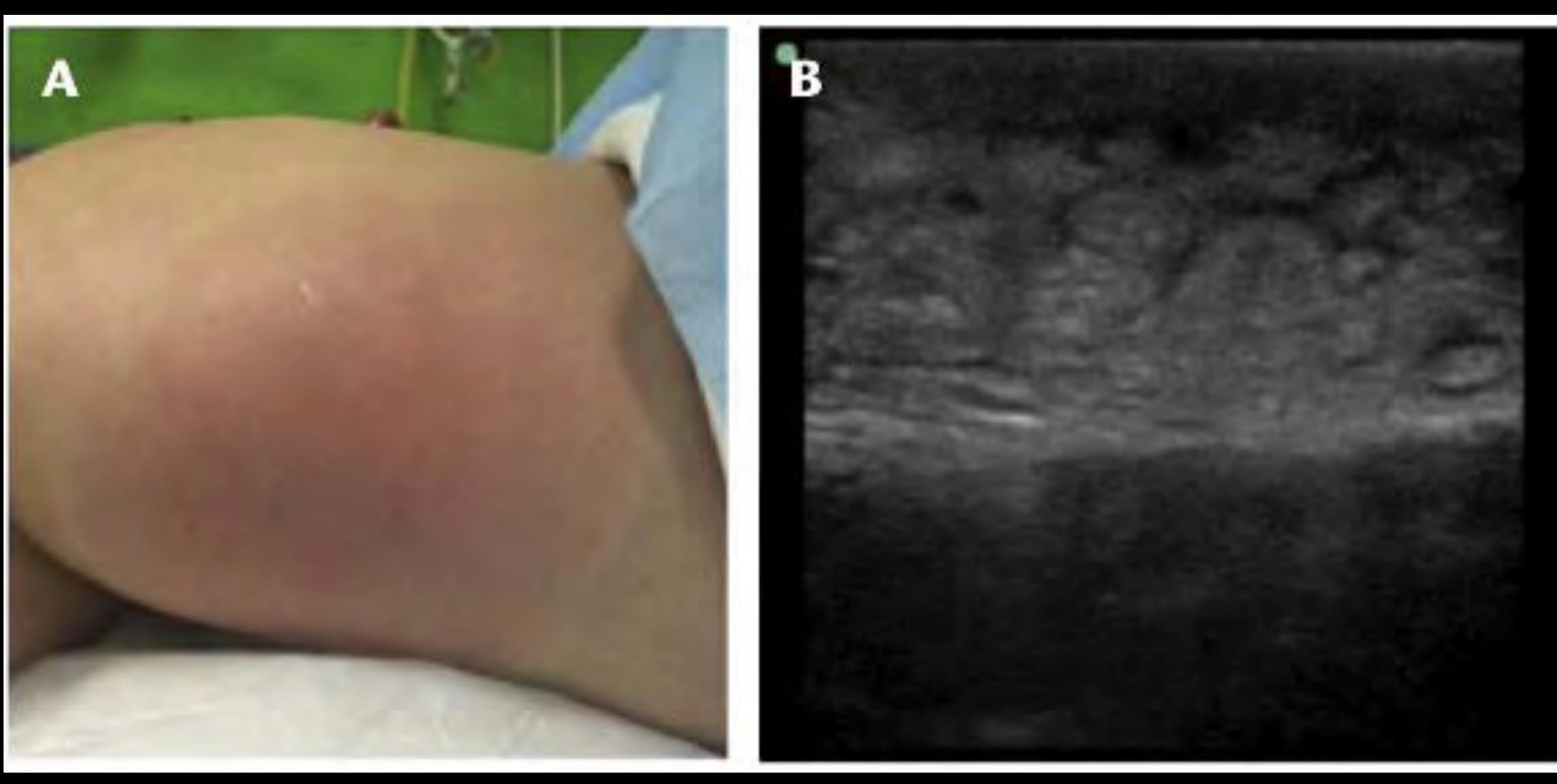
Gain an understanding on how POCUS is vital to the democratization of health care.

**by** Painful, Erythematous, expanding lesion under the chin. Ita s norma



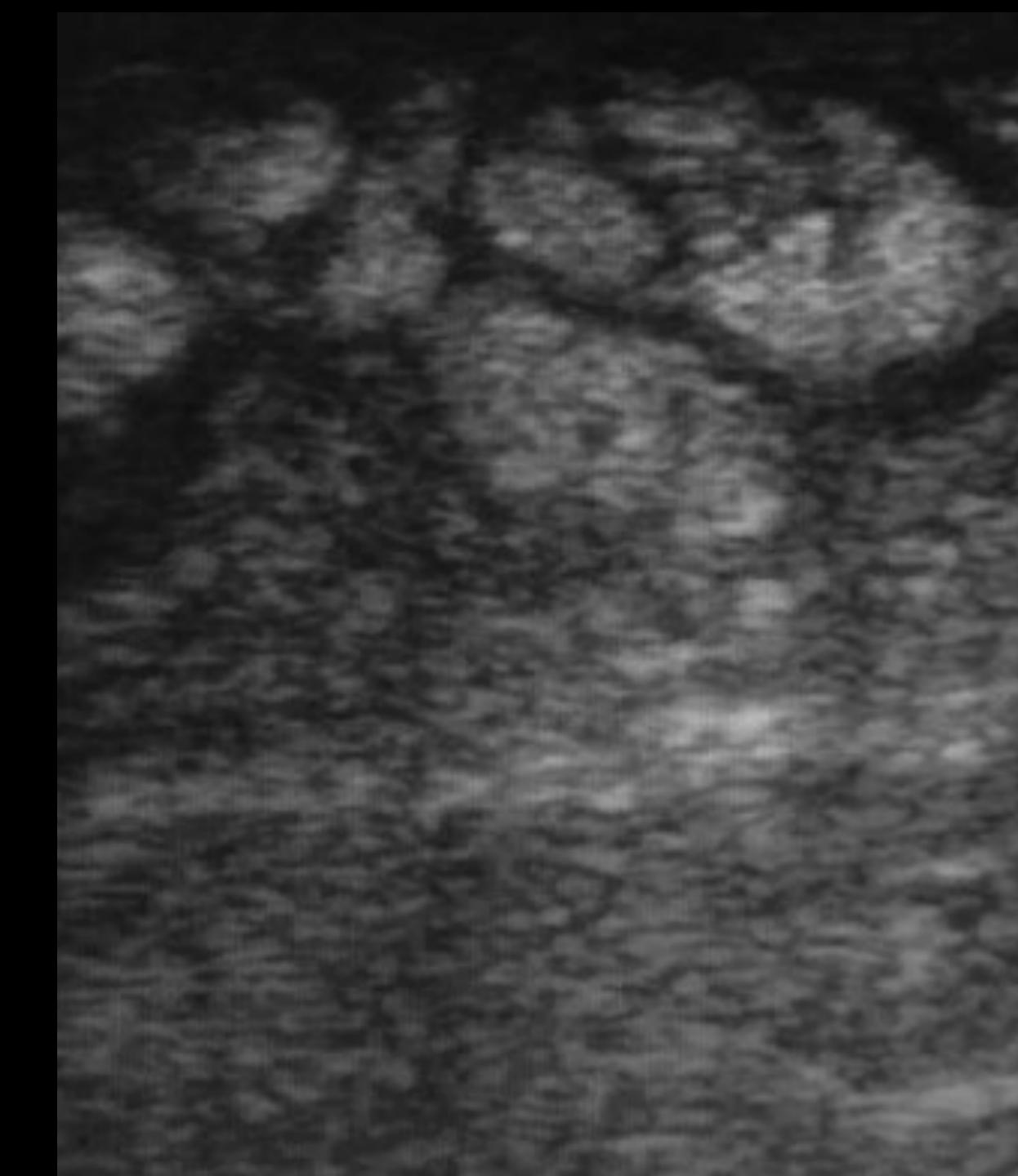


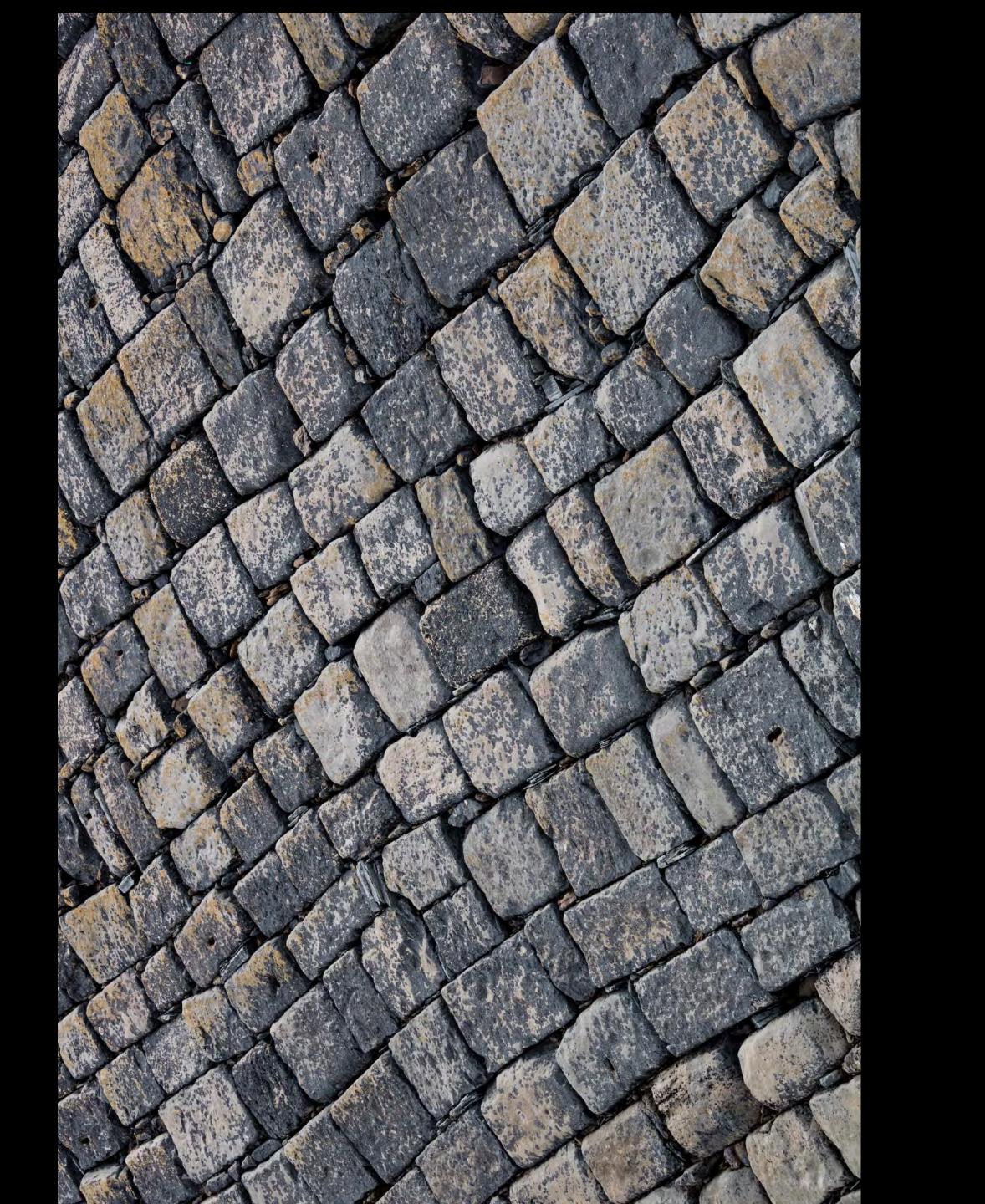
#### 3 cm

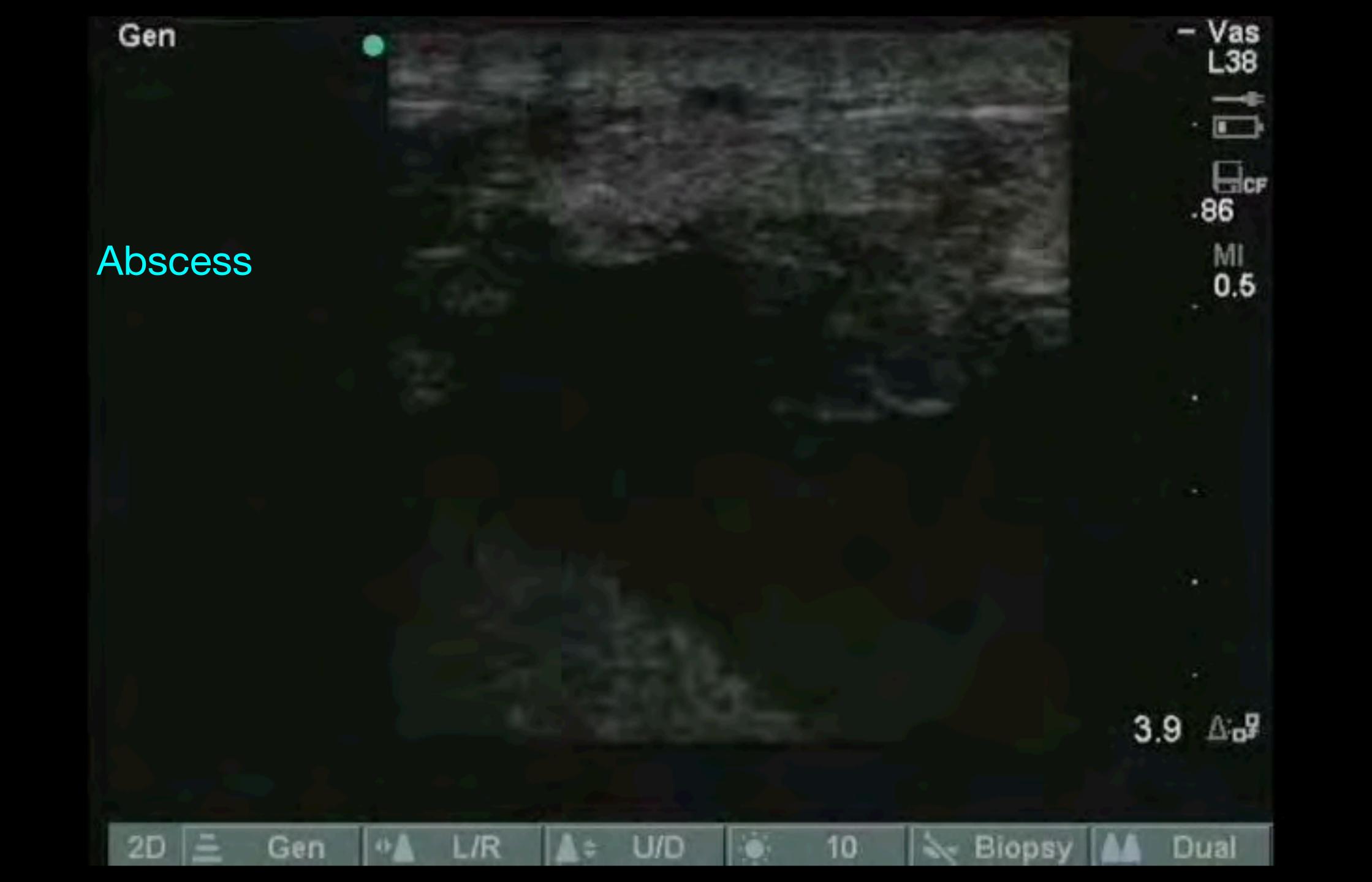


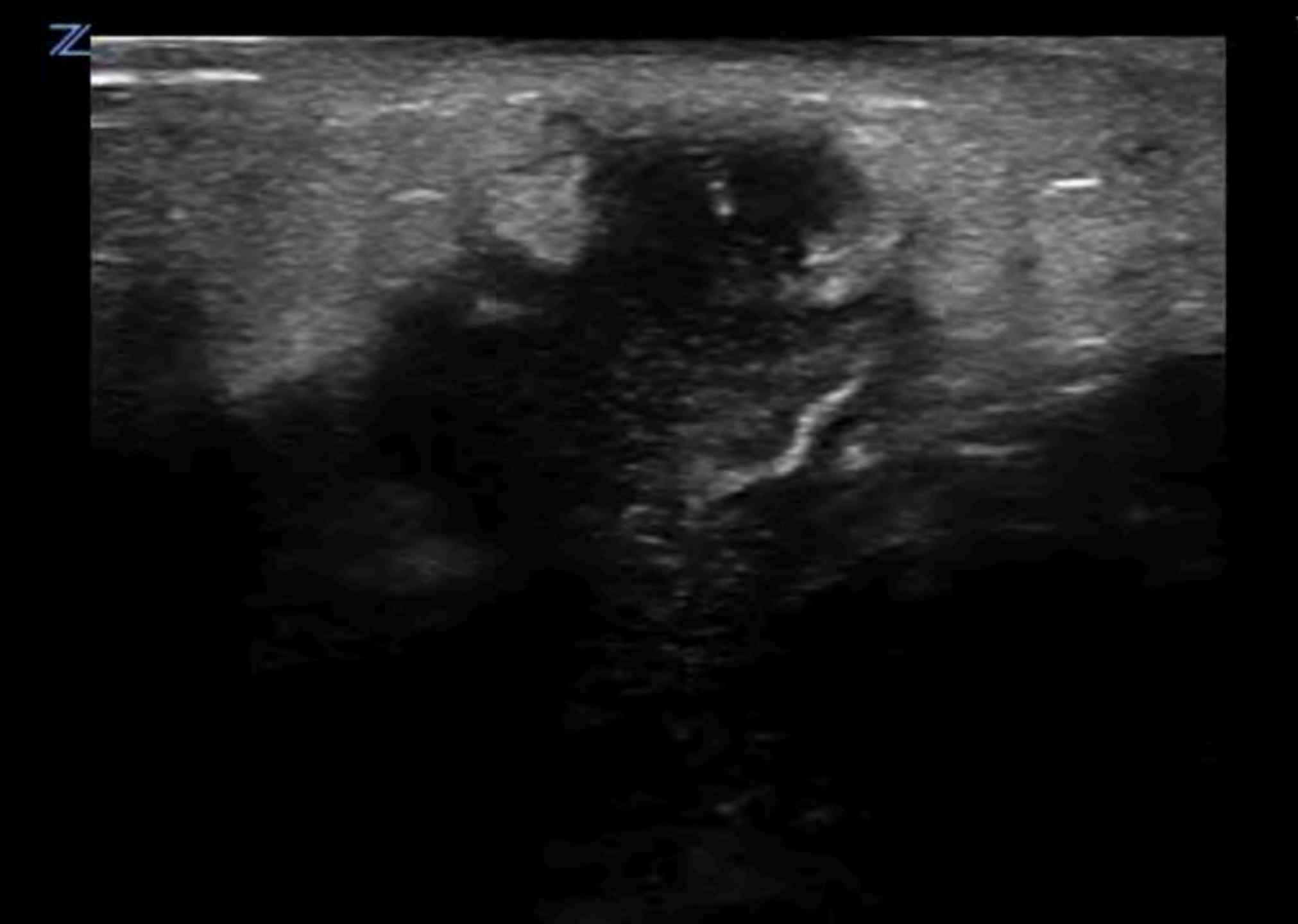
Tay et al. Pediatric Emergency Car e . Vol 38, No 2, February 2022









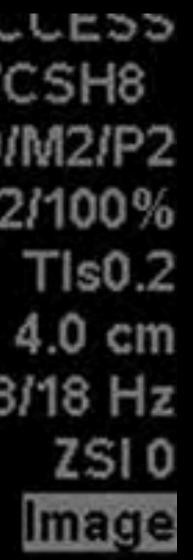


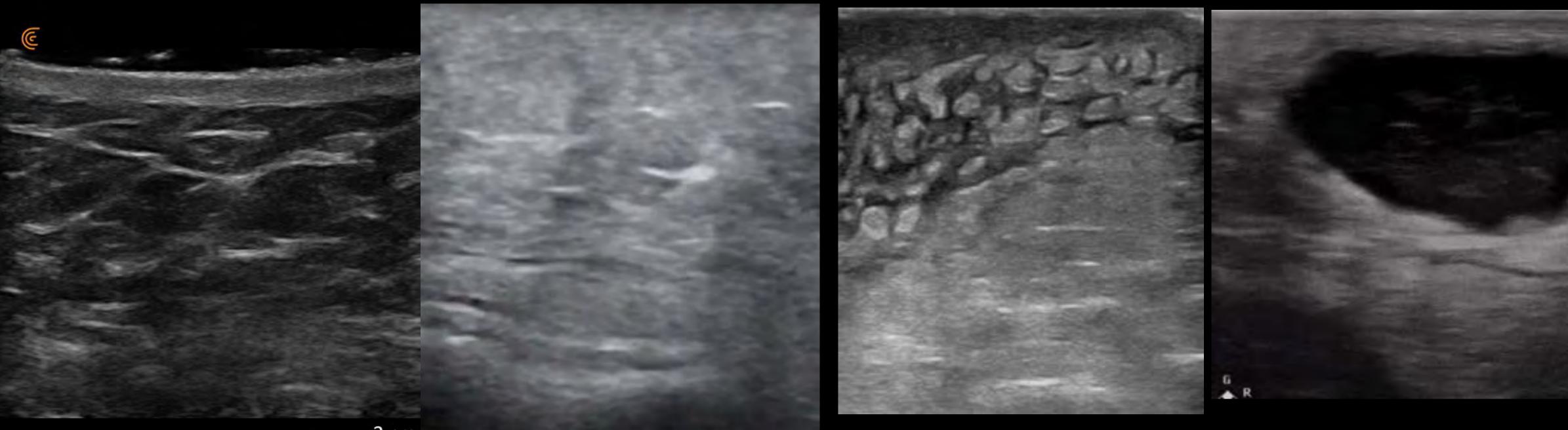
VASCIVAD ALLEDD L10-5/CSH8 DR70/M2/P2 G70/E2/100% MI1.1 TIs0.2 18/18 Hz -1

-2

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-3





3 cm



American Journal of Emergency Medicine (2012) 30, 1347-1351



#### **Original Contribution**

# The effect of bedside ultrasound on diagnosis and management of soft tissue infections in a pediatric $ED^{i,i}$

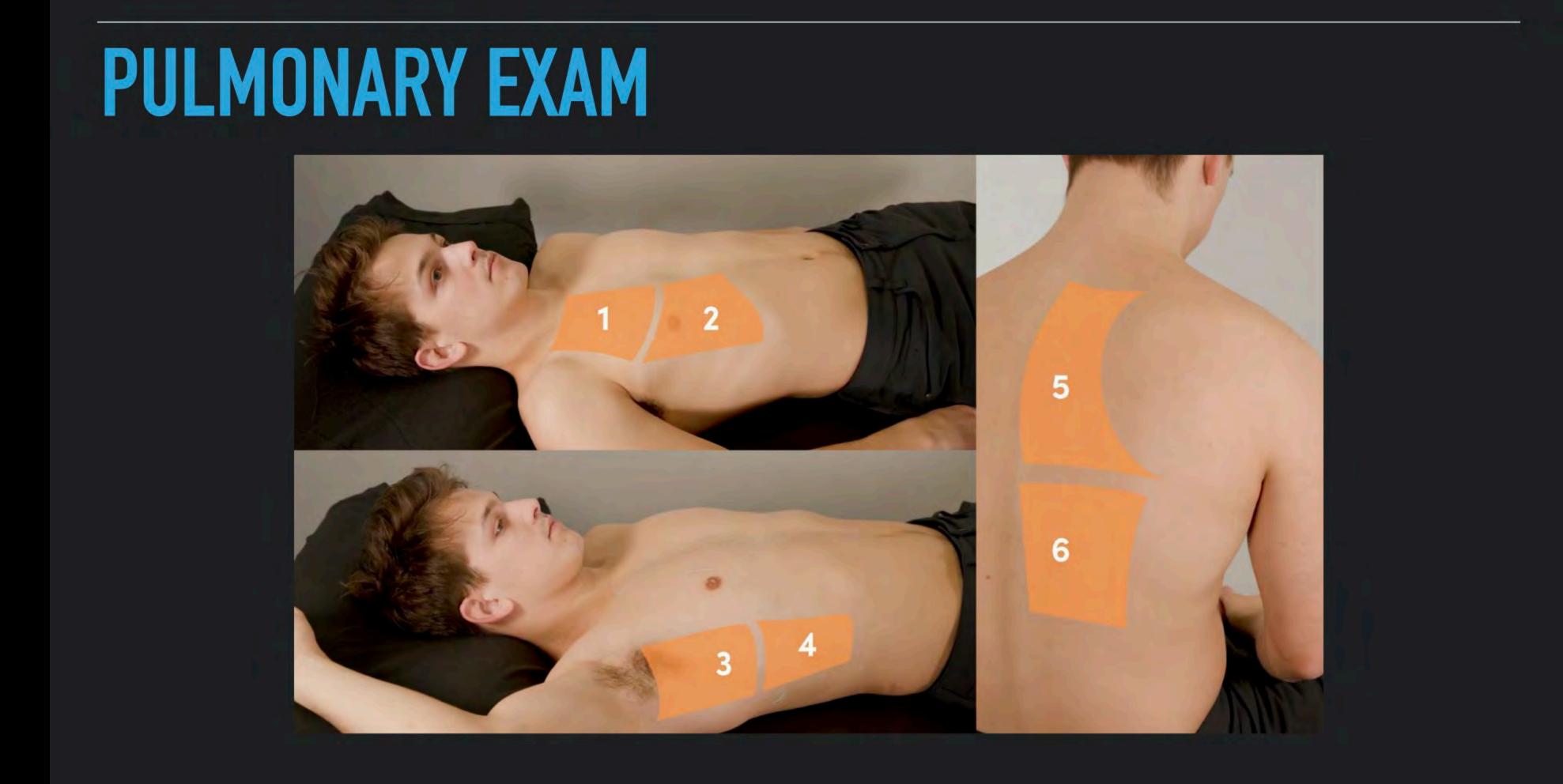
Katrina Iverson MD<sup>a,\*</sup>, Demetris Haritos MD<sup>b</sup>, Ronald Thomas PhD<sup>c</sup>, Nirupama Kannikeswaran MD<sup>d</sup> The American Journal of Emergency Medicine

www.elsevier.com/locate/ajem

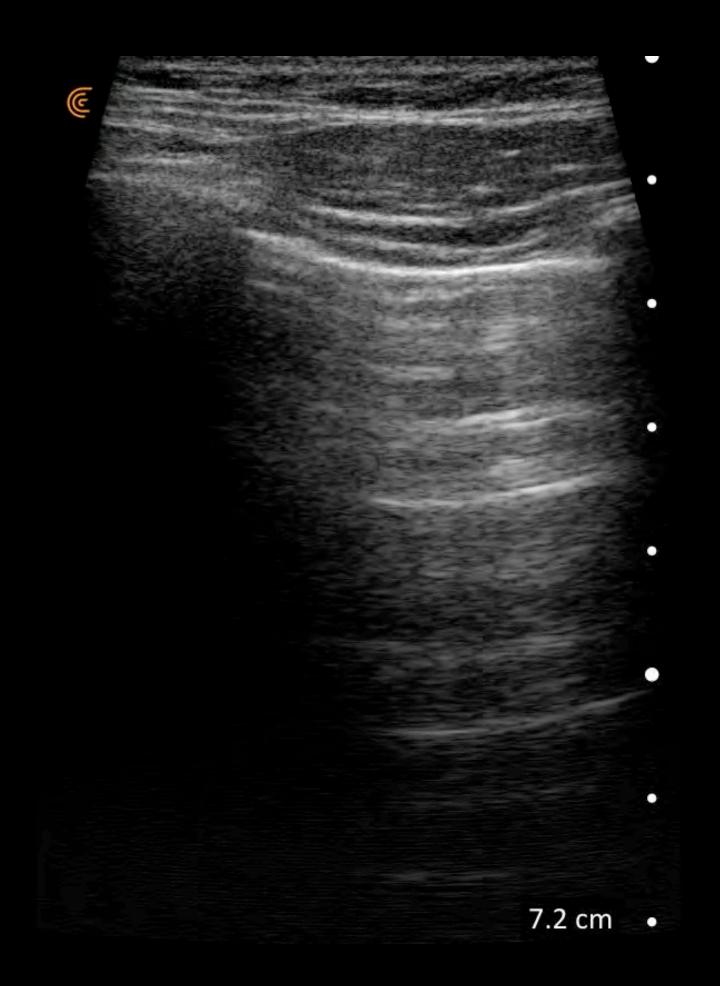
# 45 yo Male

# COUGH, FEVER, SOB

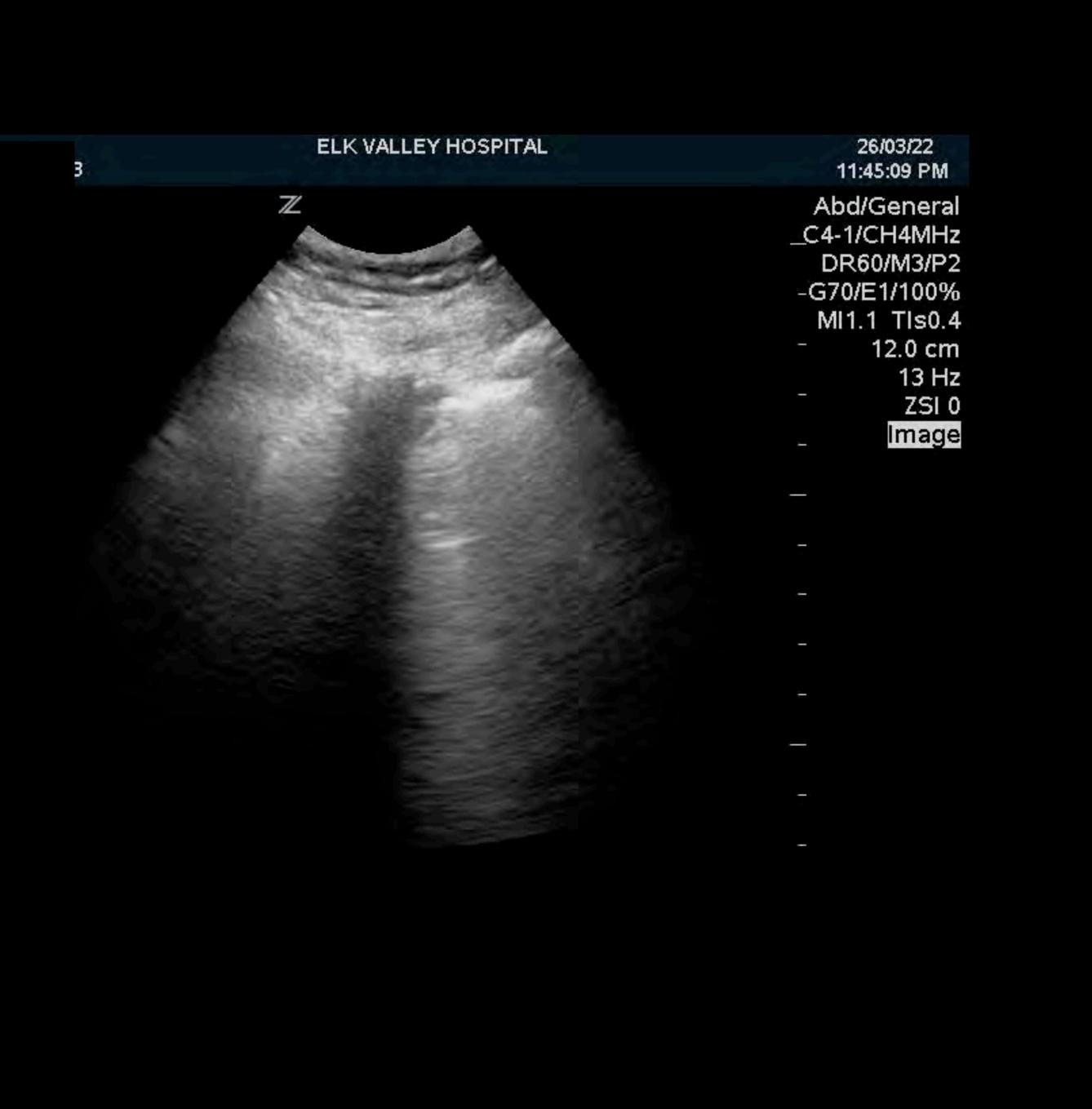
# T:37.3, P:95, BP:140/80, 02:96%

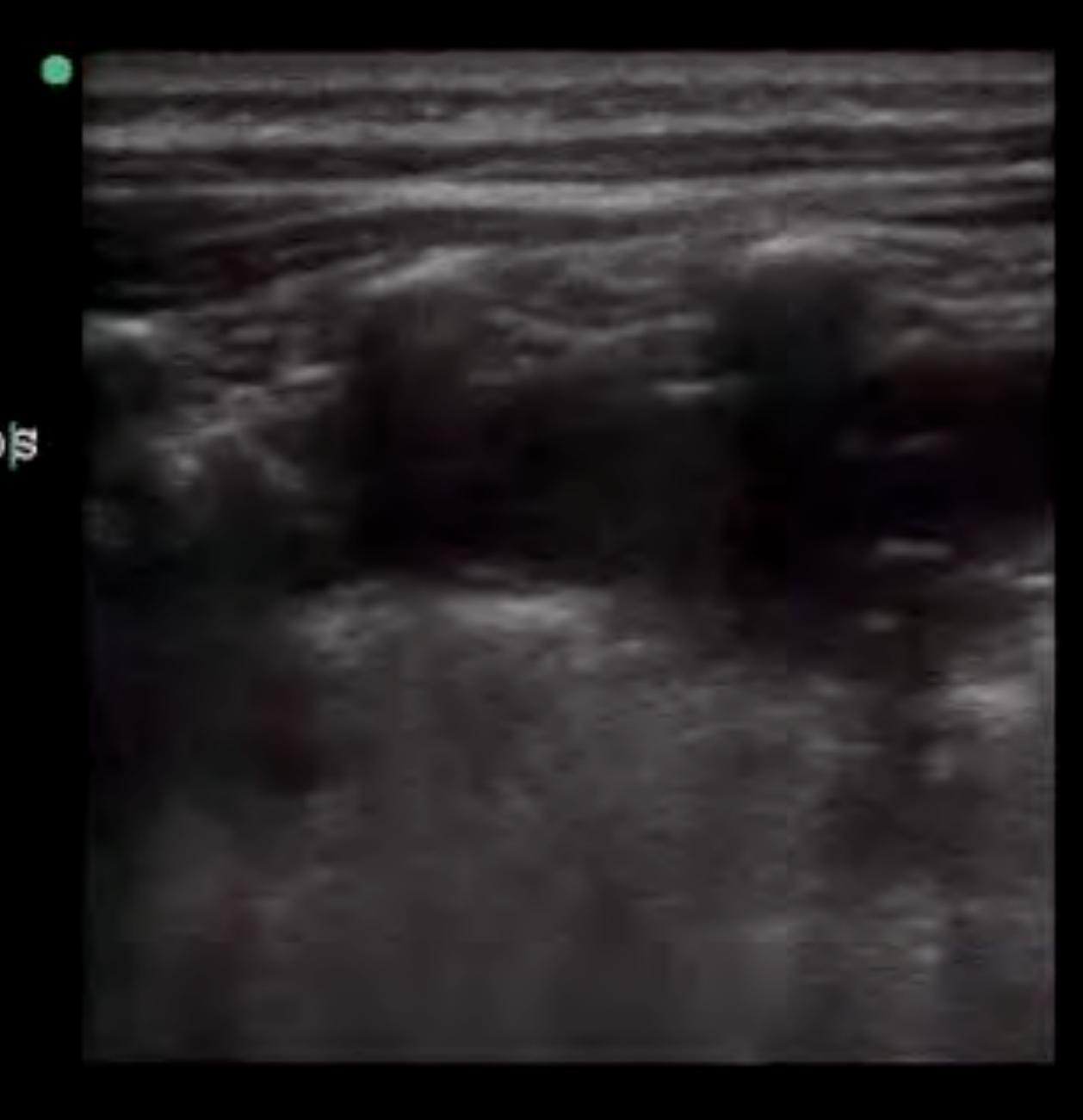


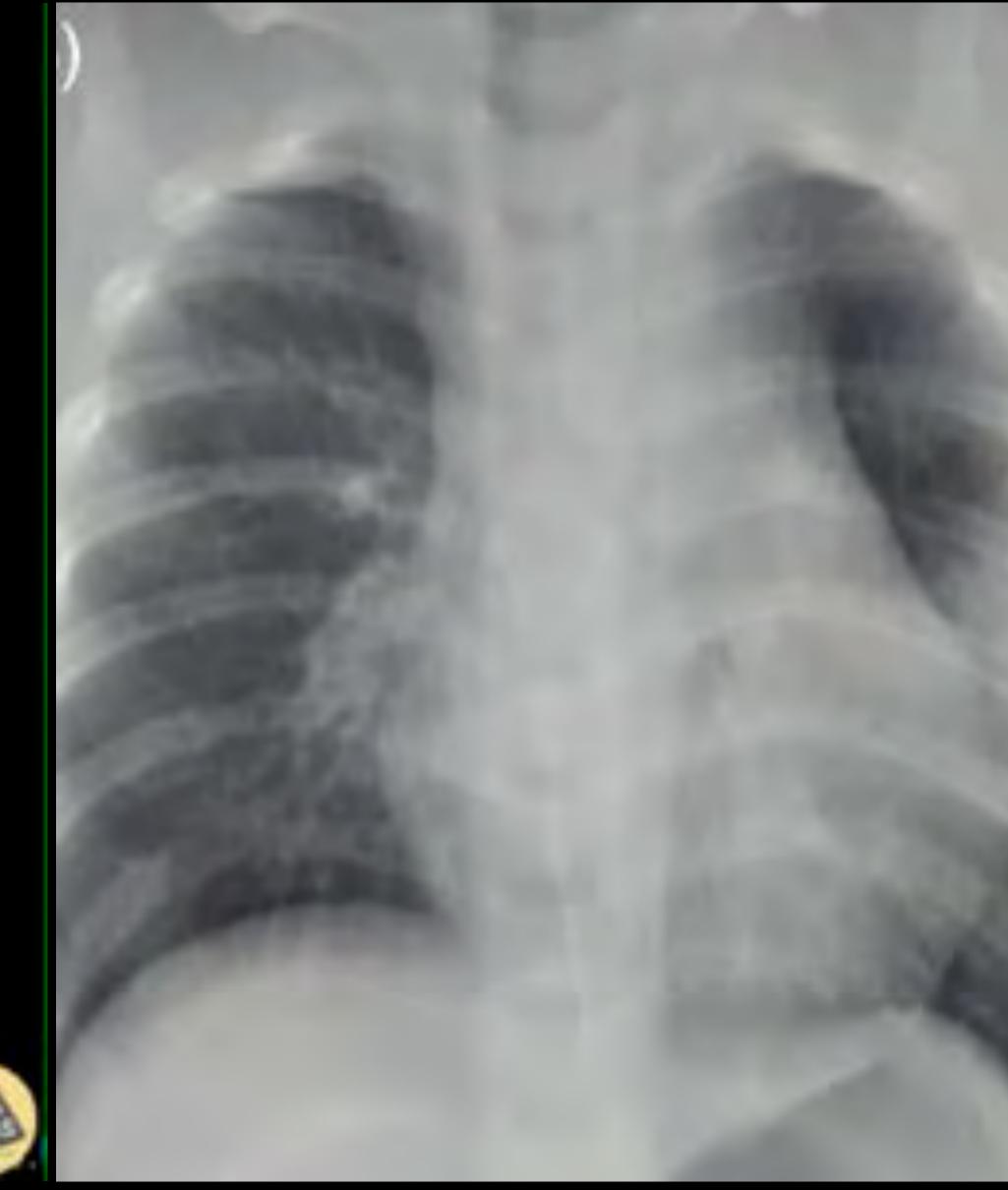


















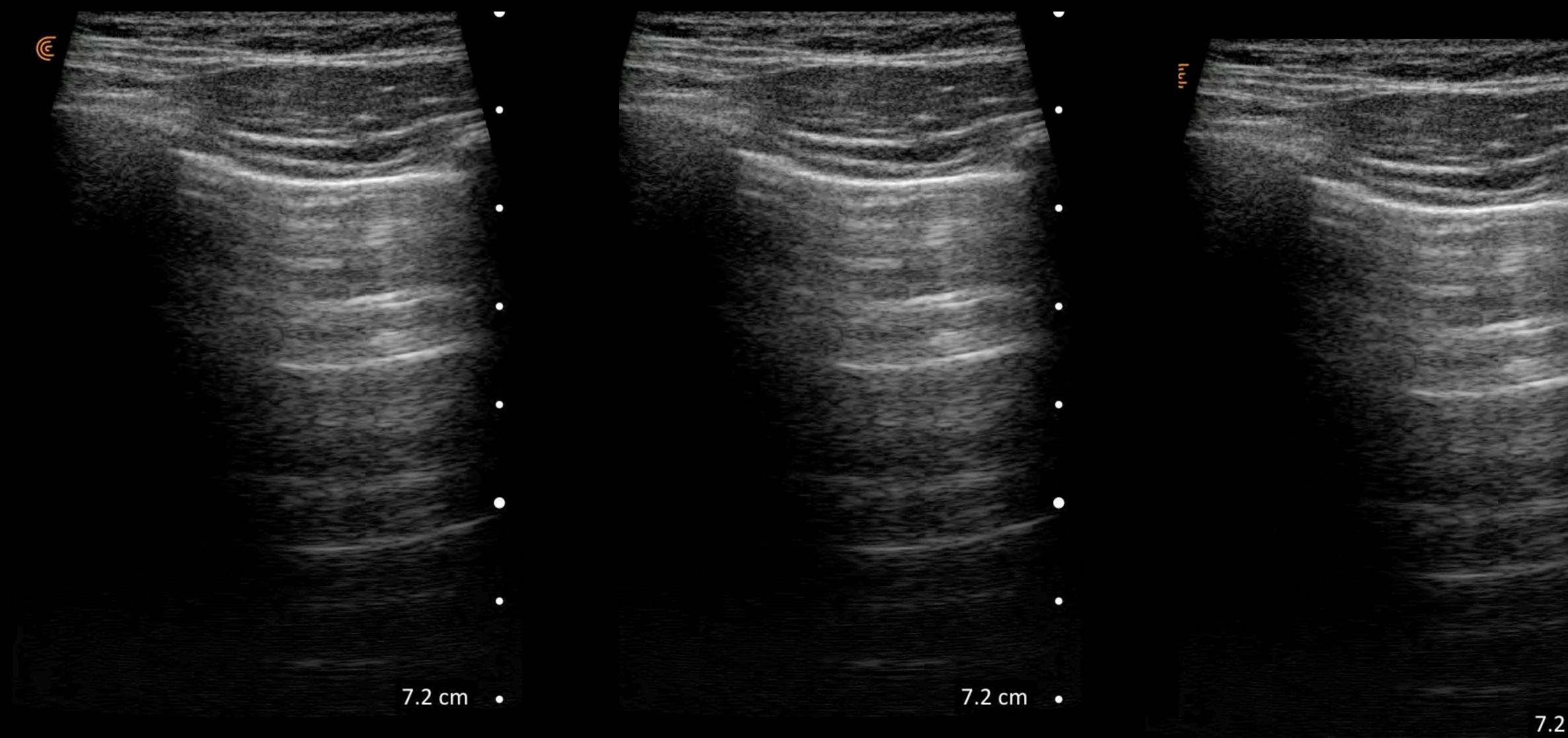


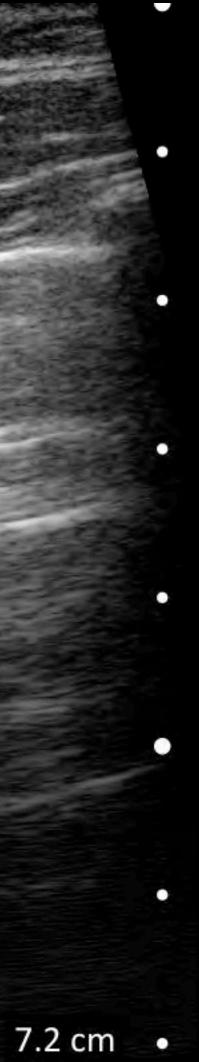
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Clips... OO Dual Page 2/2



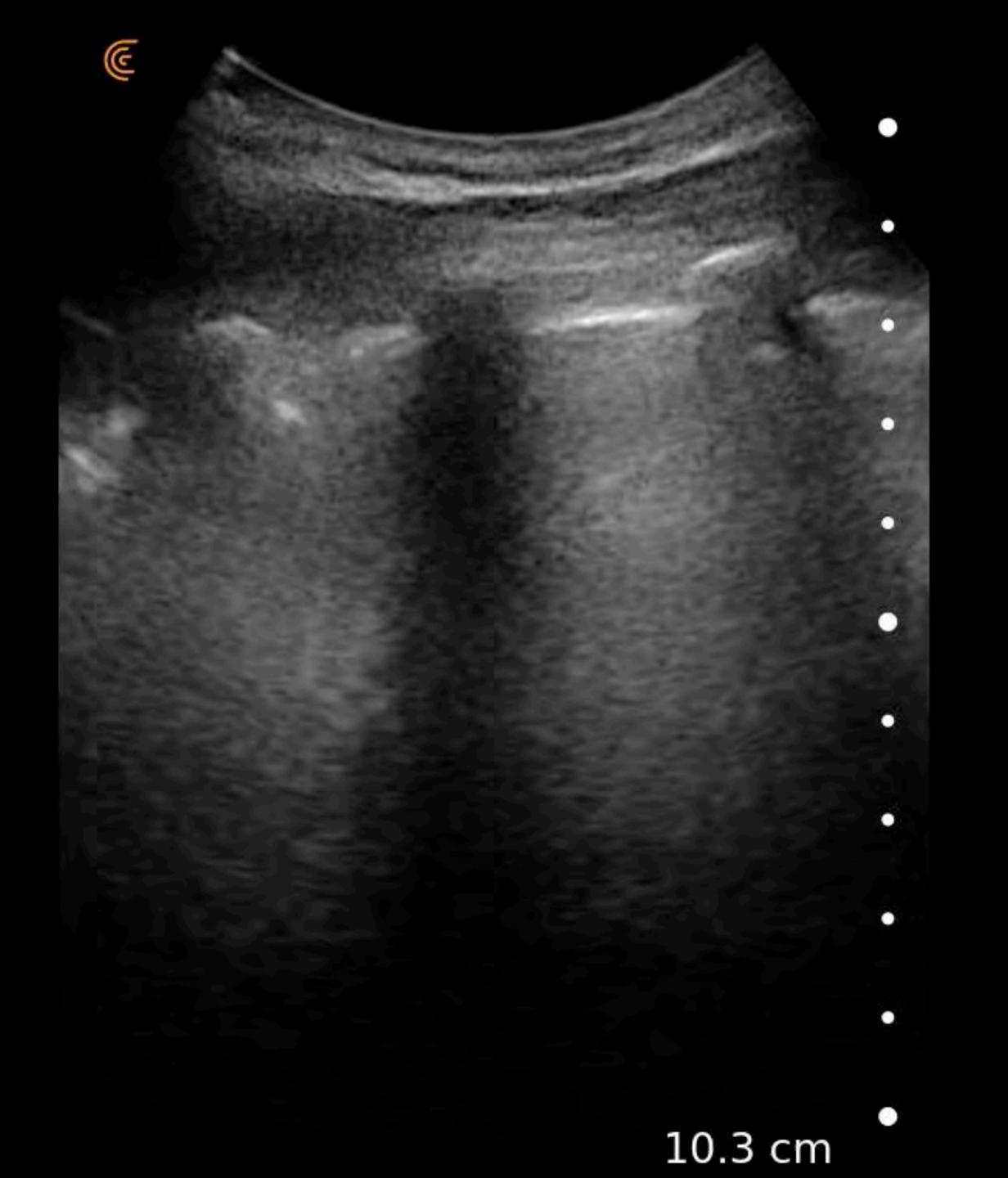




## **G7YO MALE**

# **COUGH, FEVER, SOB** BP: 110/60





#### ID\_20170422\_124934

 $\mathbb{Z}$ 

12:49:34 PM

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

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+

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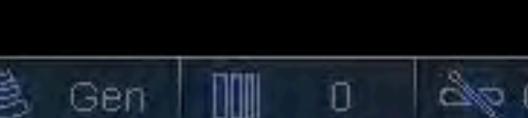










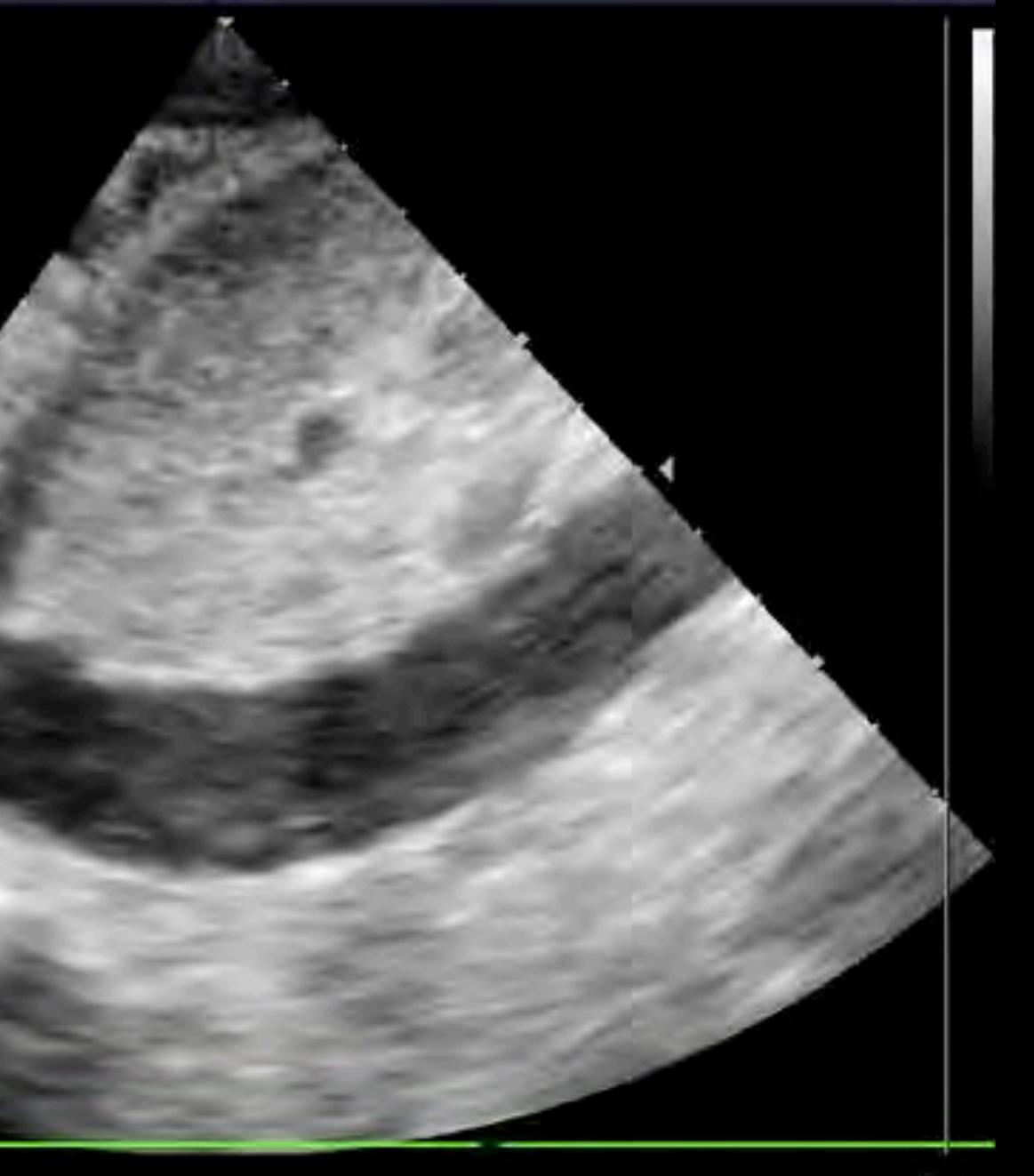


Sen III 0 Squide AMBON THI ON Page 1/2



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



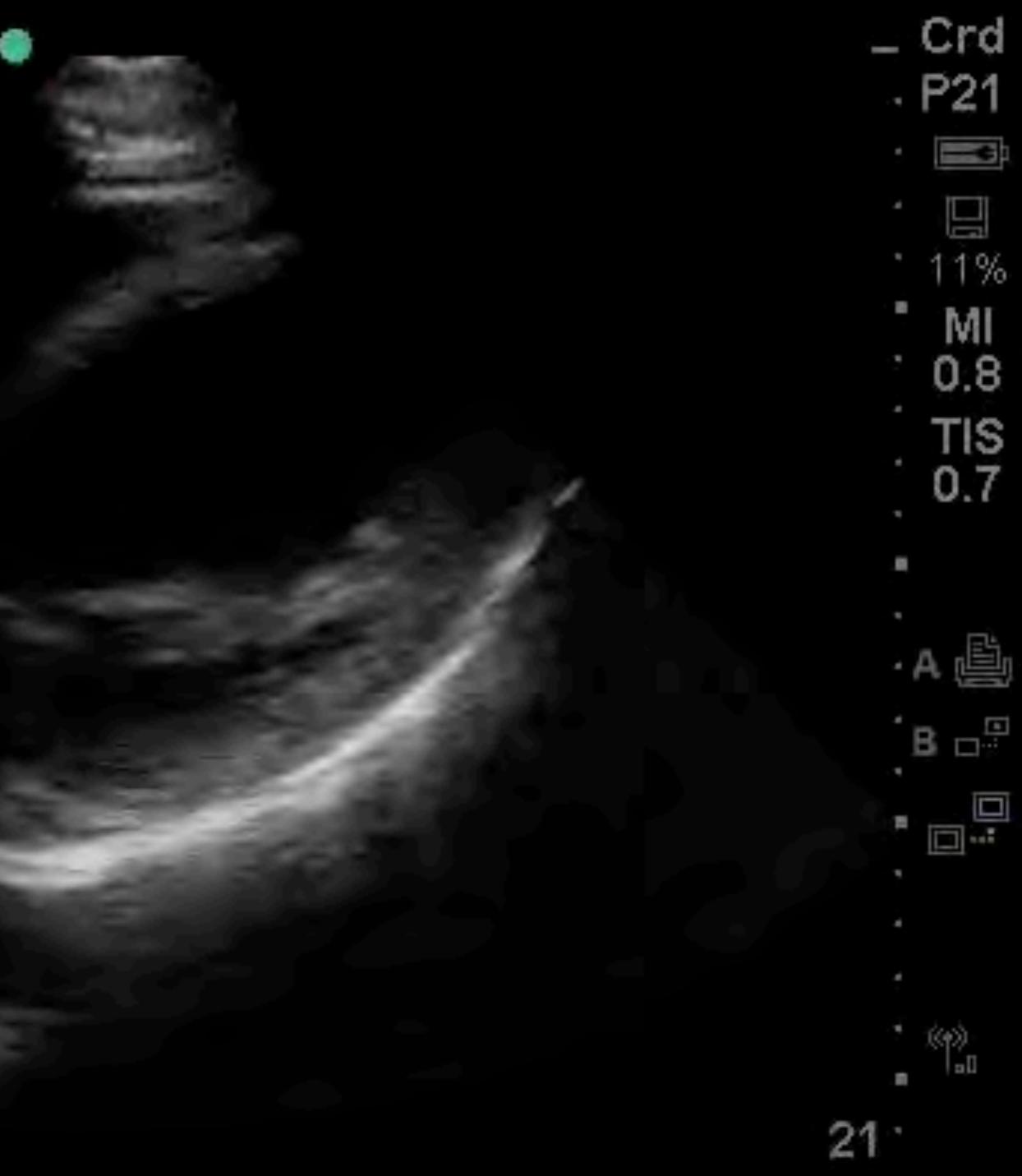


#### Gen THI S



#### Gen THI s

## MYOCARDITIS







### VSS

# Dry Mucous membranes Rising Creatinine

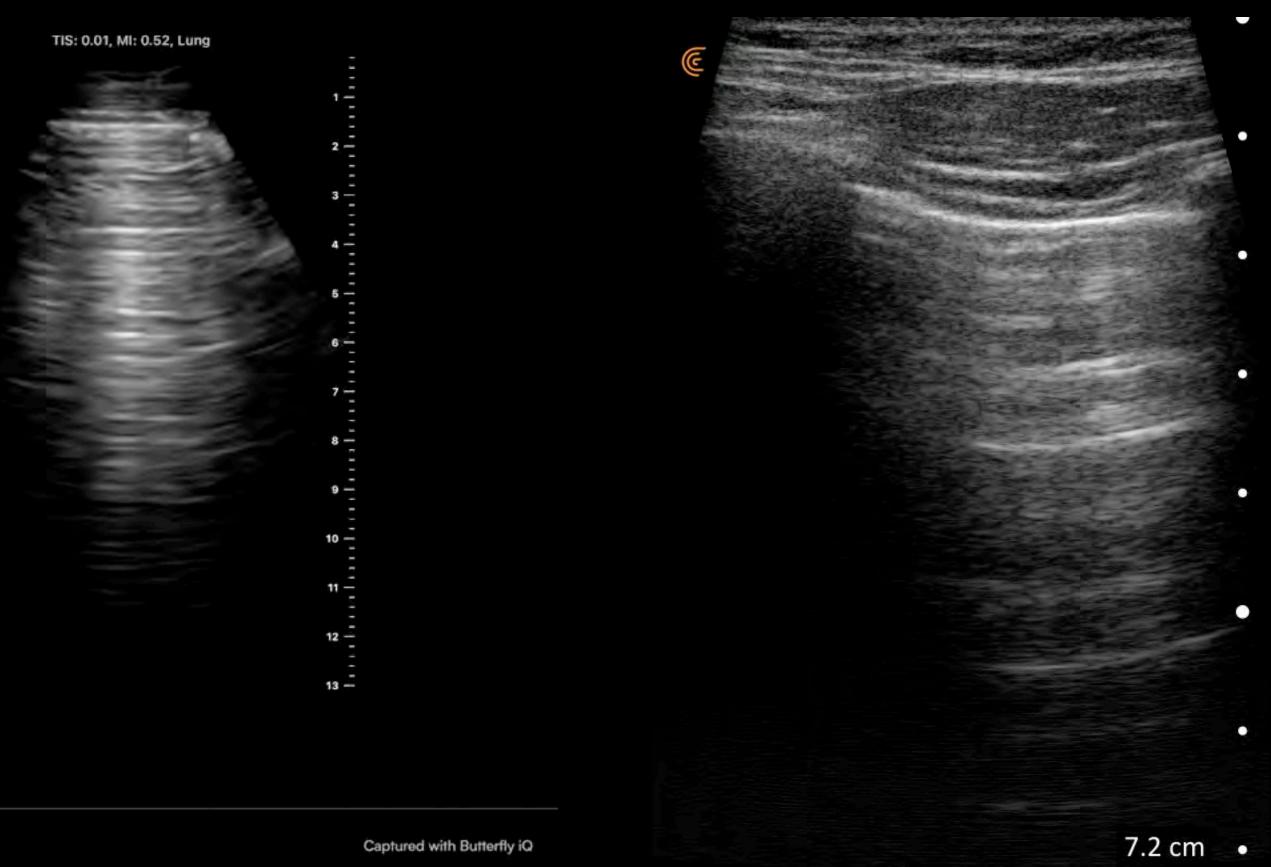
# HARDLY EATING, HARDLY DRINKING, AND "NOT GOING TO THE HOSPITAL"



X

RML

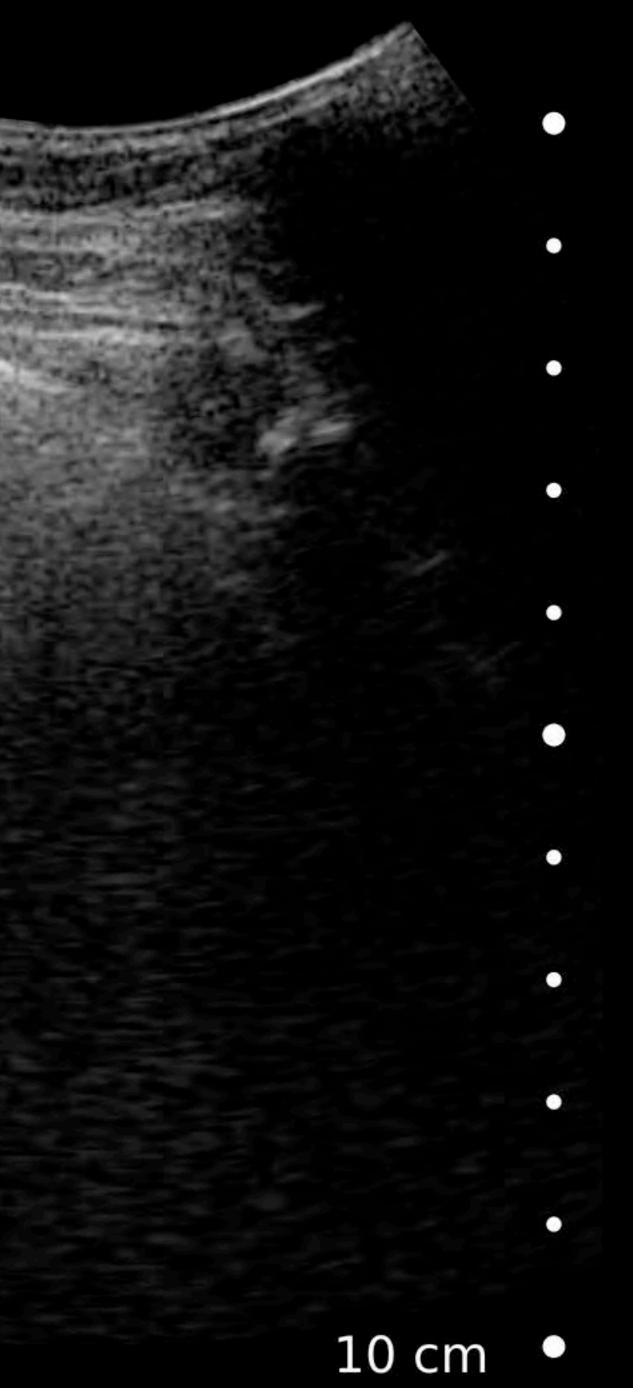
LUL



LLL

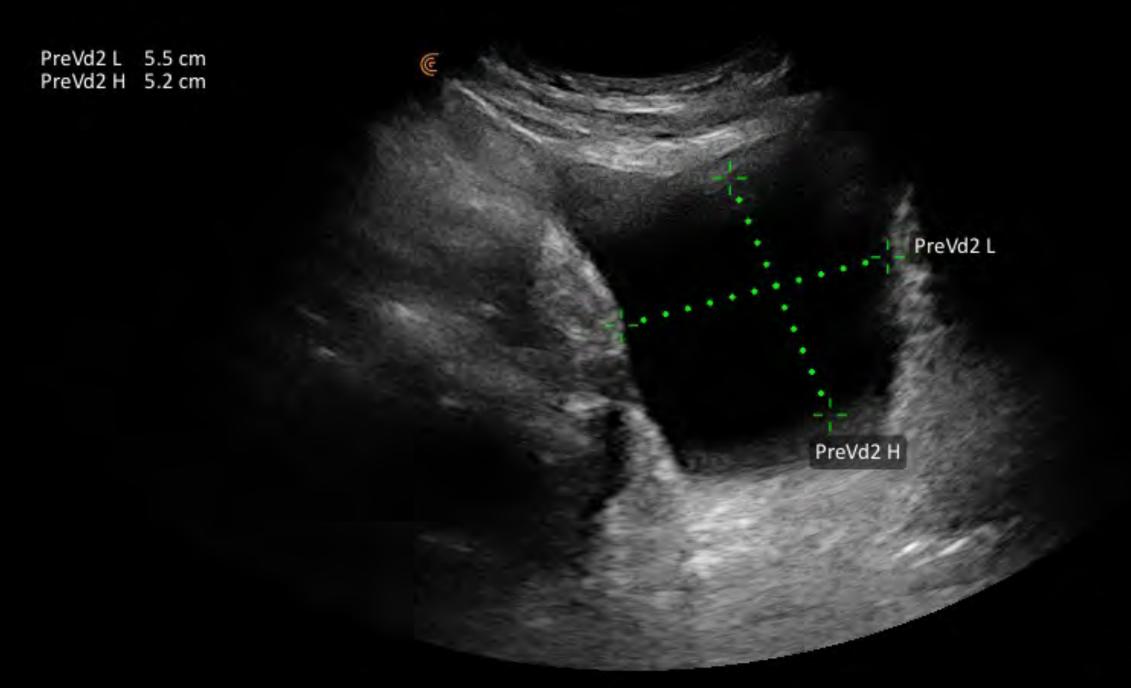
#### RLL

G Carlos Carlo

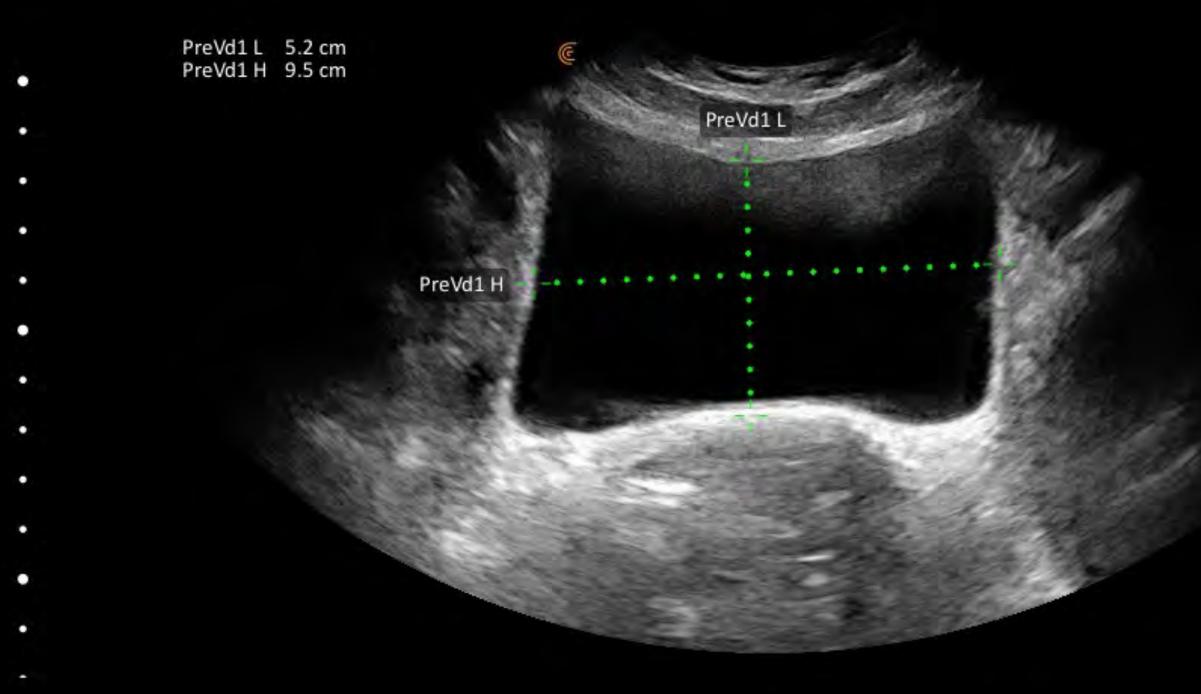




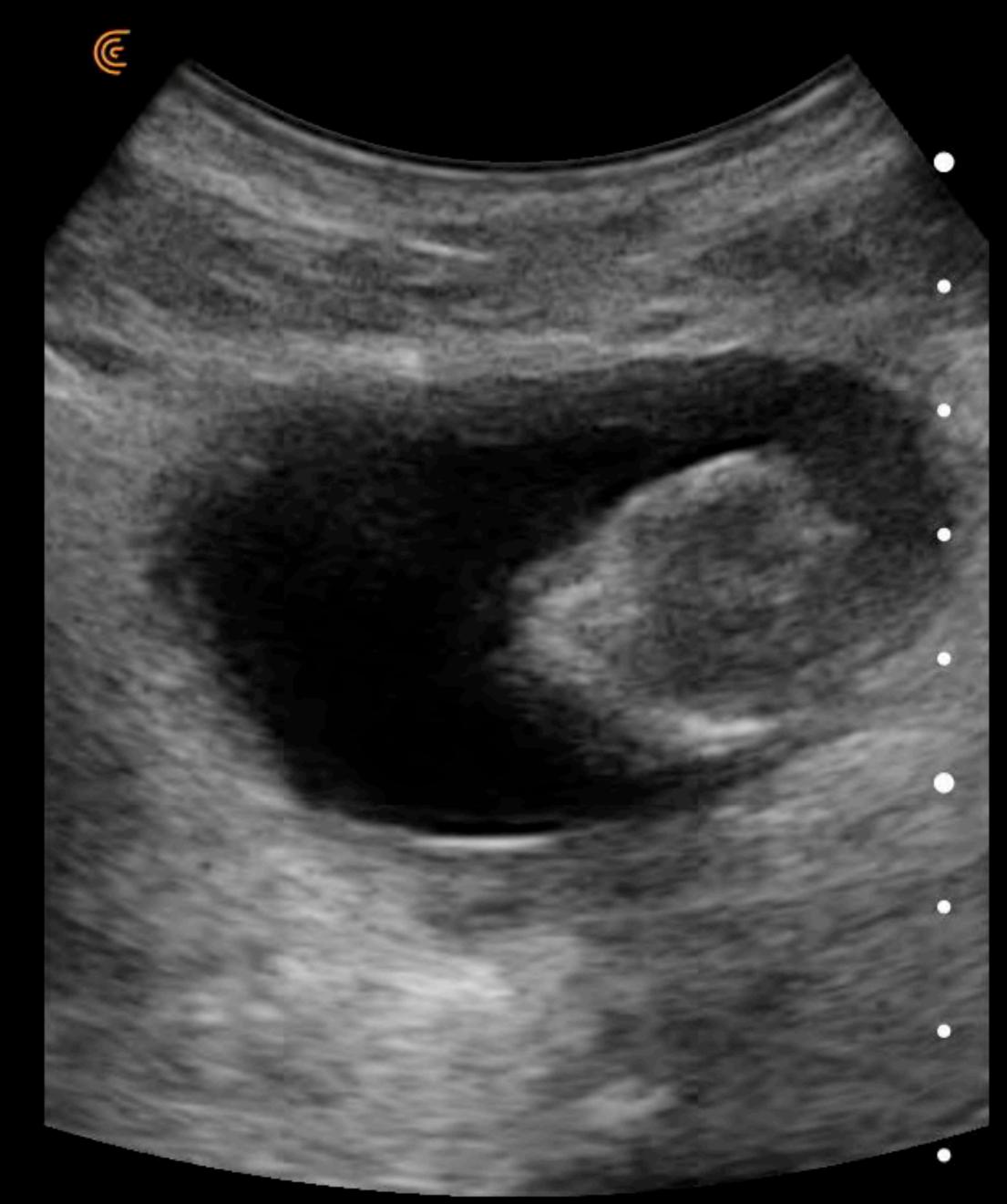




12 cm

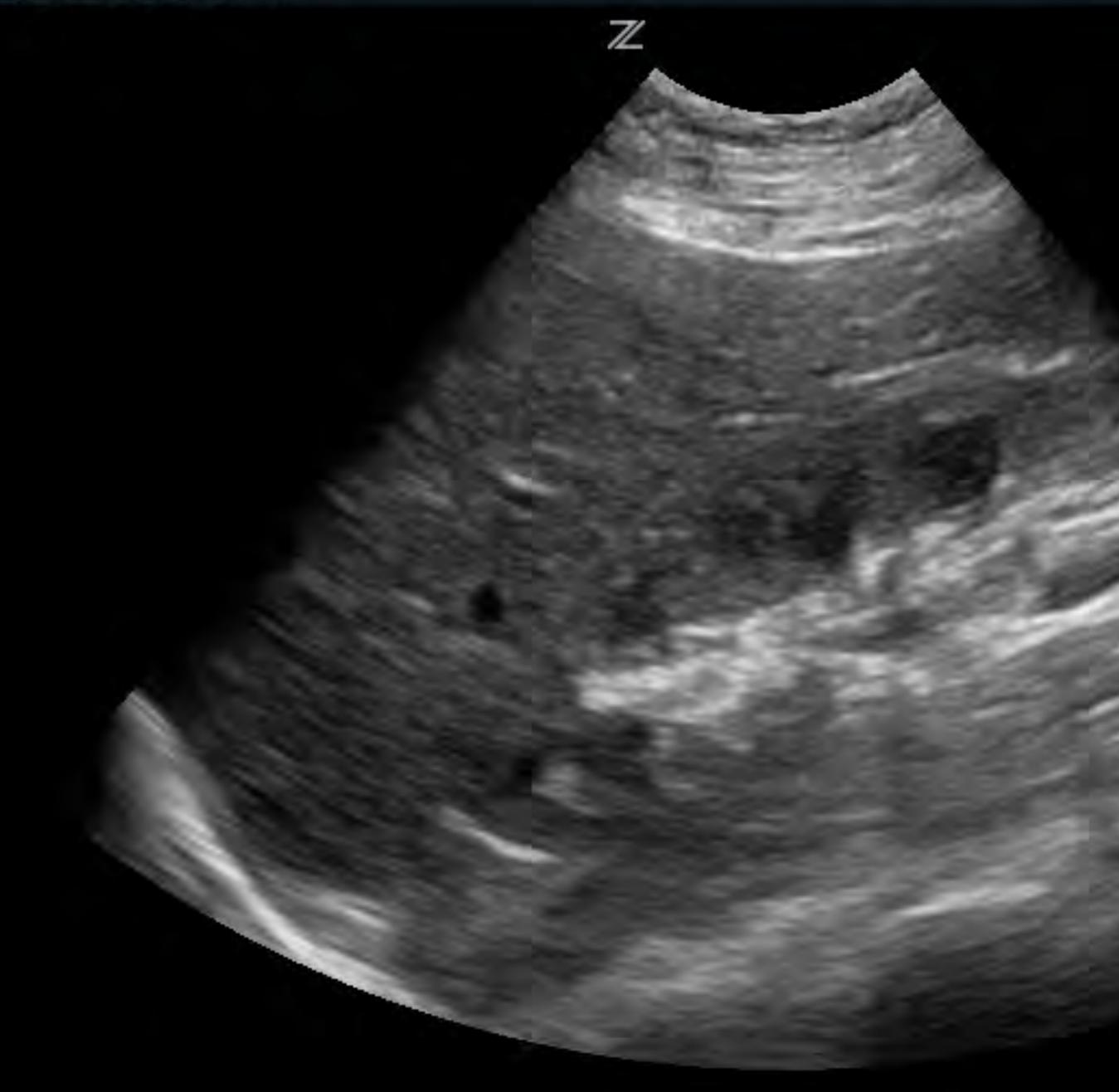






8.3 cm

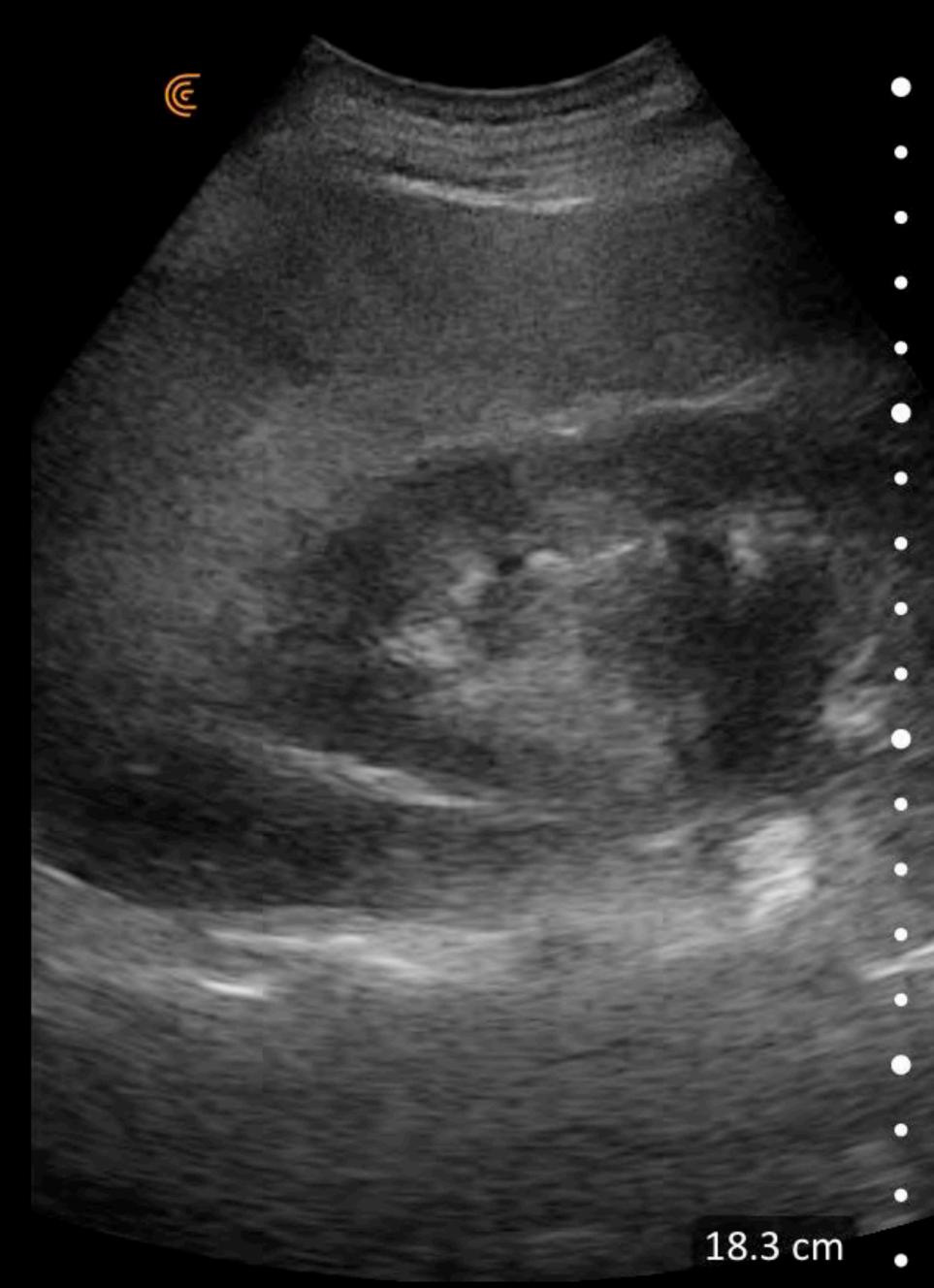


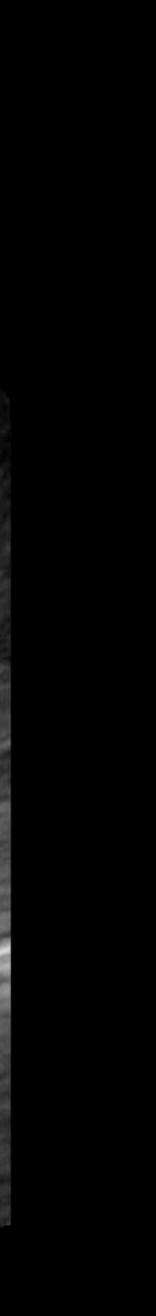


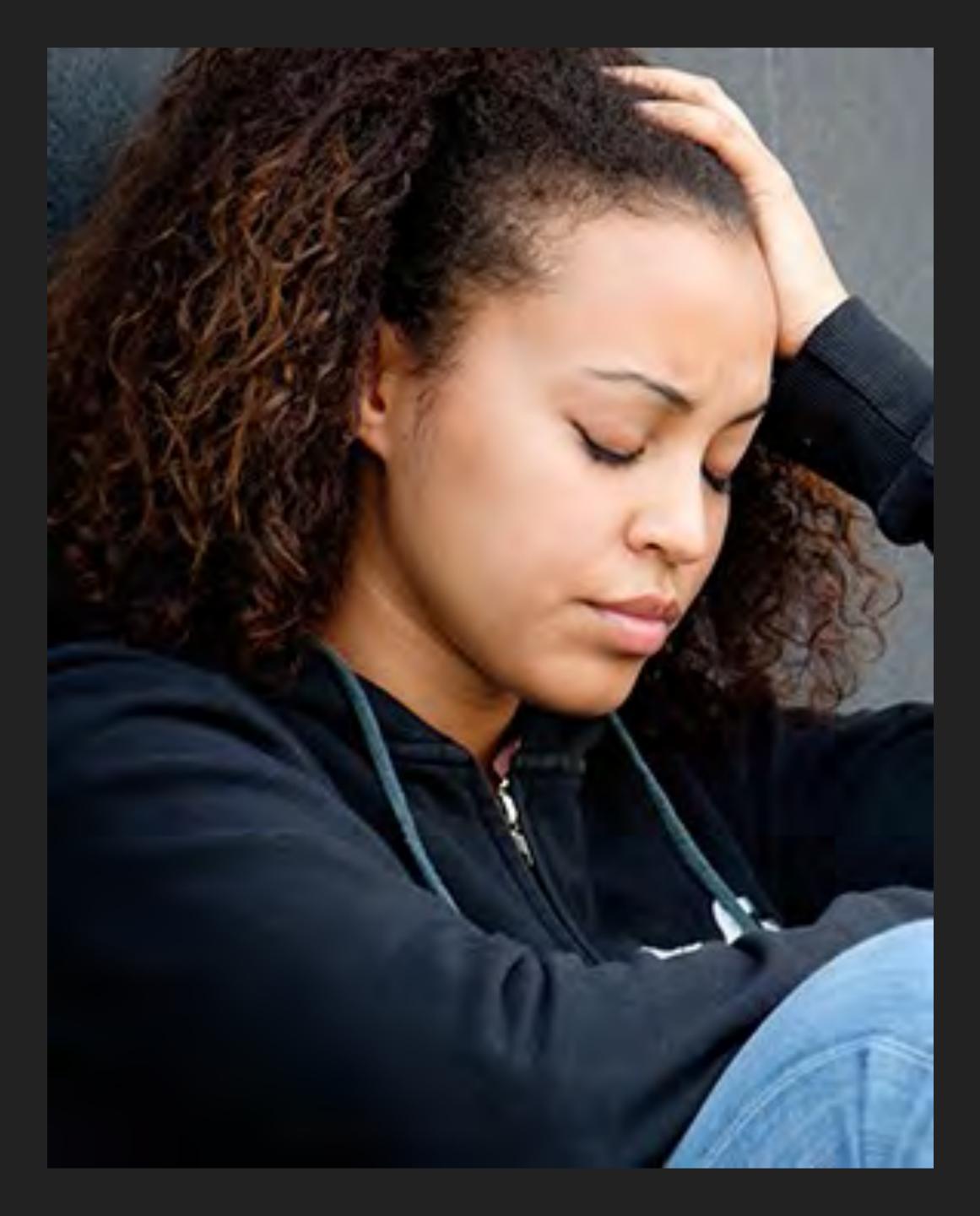
10:02:55 PIW

Abd/General \_C4-1/CH4MHz DR60/M3/P2 -G74/E1/100% MI1.1 TIs0.4 - 12.0 cm 13 Hz ZSI 0 \_ Cine









### 36 yo G3P0

#### 8wks2d by dates

# FIRST TRIMESTER Spotting

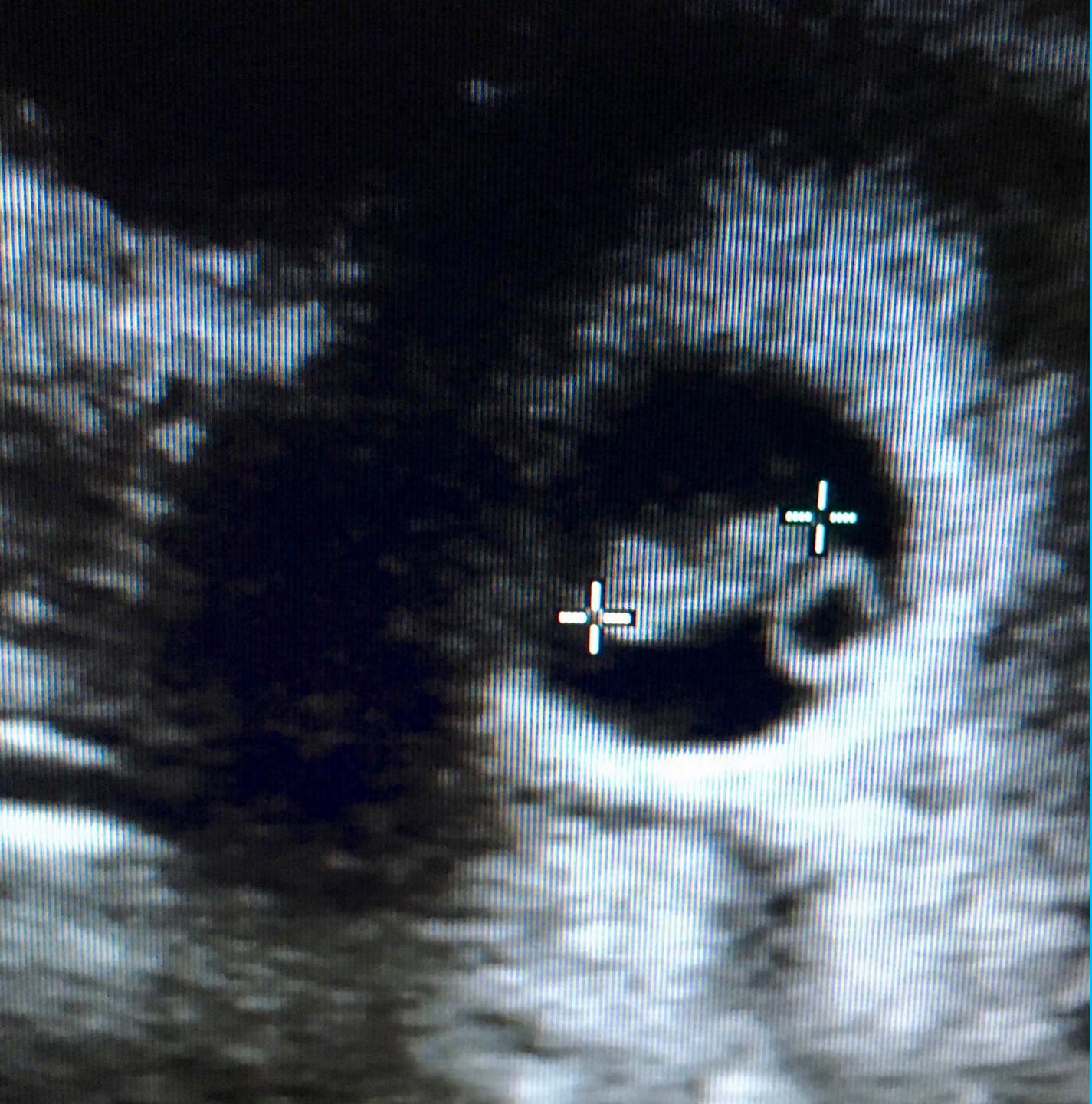
### Early Pregnancy Loss





# To RULE IN an IUP Locate the Following:

Bladder
Uterus
Gestational Sac
Yolk Sac
+/-Fetal Pole



GESTATIONAL MILESTONES ON TRANSABDOMINAL US The gestational sac - 5 weeks The yolk sac - 5.5 to 6 weeks The fetal pole - 6 weeks Cardiac activity - 7 weeks



CRL 1.84cm 8w2d





24 FPS / 2.5 MHz

#### Dr Virginia Robinson Inc

9.5 cm



# **DOES EVERY RH NEGATIVE PATIENT NEED RHOGAM?**

**Depends who you ask?** 

- SOGC: Give Rhogam for pregnancies greater than 7weeks (49 days) Evidence III-C
- surgical management is undertaken.

ACOG: RhoGAM administration to a patient with threatened abortion prior to 12 weeks gestation is controversial and no evidence based recommendation can be made.

NICE National Institute of Clinical Evidence 2012: Do NOT offer RhoGAM to women with threatened miscarriage unless

# ANTI-D ADMINISTRATION AFTER SPONTANEOUS MISCARRIAGE FOR PREVENTING RHESUS ALLOIMMUNISATION.

Contraception. 2019;99(5):265-6:

- 57 Rh negative women with Rh positive partners
- to Rhogam or placebo.

Not a single case of alloimmunisation

Miscarriage below 10 weeks were randomized

# ABDOMINAL PAIN

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** 















# **CAN YOU DO THIS SAFEY?**



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

Lori Stolz, MD\* Kathleen M. O'Brien, MD<sup>+</sup>

\*University of Arizona, Department of Emergency Medicine, Tucson, Arizona <sup>†</sup>Massachusetts General Hospital, Division of Global Health and Human Rights,

the USA

Thomas A Melgar  $\bigcirc$  5

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

Michael Reaume,<sup>1</sup> Mehdi Farishta,<sup>2</sup> Joseph A Costello,<sup>3</sup> Tyler Gibb,<sup>4</sup>