

LUNG POINT SIGN V HODNOCENÍ PNEUMOTORAXU

—

VARIANTY A NAPODOBENINY

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USG DIAGNOSTIKA PNEUMOTORAXU

Diagnostic Ultrasound

0749-0739/86 \$00.00 + \$.20

Diseases of the Thorax

Veterinary Clinics of North America: Equine Practice—Vol. 2, No. 1, April 1986

*Norman W. Rantanen, D.V.M., M.S.**

Pneumothorax: evaluation by ultrasound-- preliminary results.

Wernecke K, Galanski M, Peters PE, Hansen J

Journal of Thoracic Imaging, 01 Apr 1987, 2(2):76-78

PMID: 3298684

USG DIAGNOSTIKA PNEUMOTORAXU



CHEST

Original Research

PULMONARY PROCEDURES

Diagnosis of Pneumothorax by Radiography and Ultrasonography

A Meta-analysis

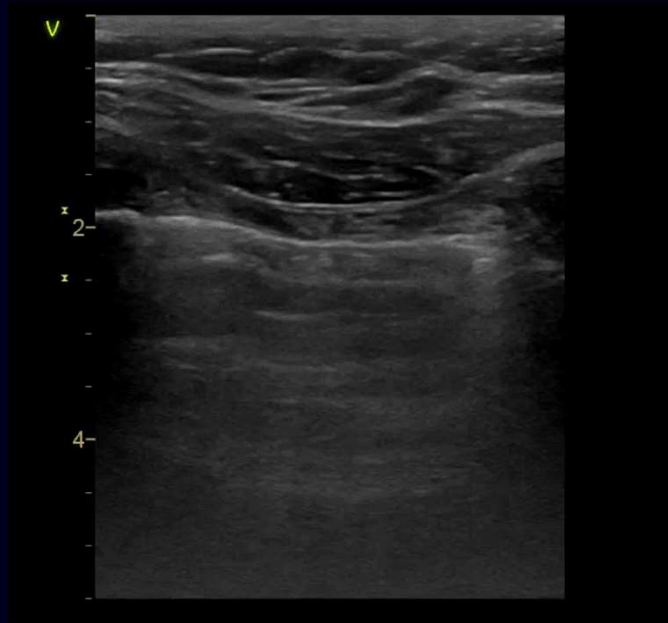
*Wu Ding, MM; Yuehong Shen, MM; Jianxin Yang, MM; Xiaojun He, MM;
and Mao Zhang, MD*

- **senzitivita 88 %**
- **specificita 99 %**

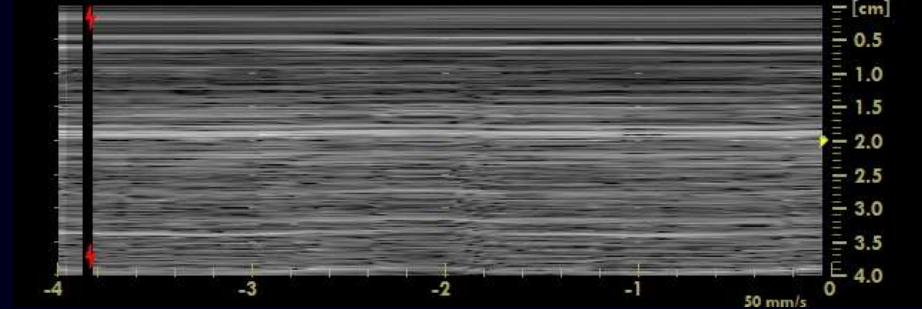
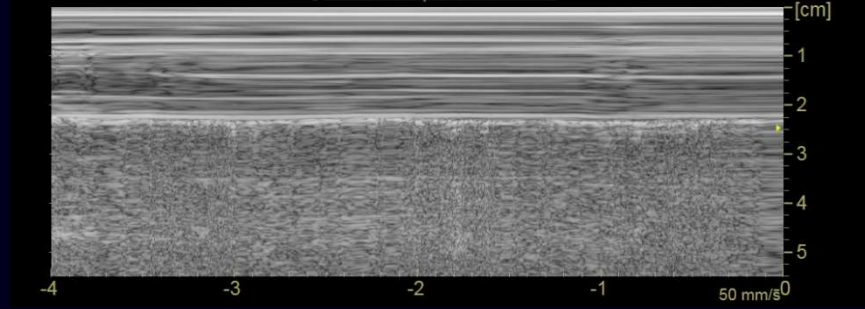
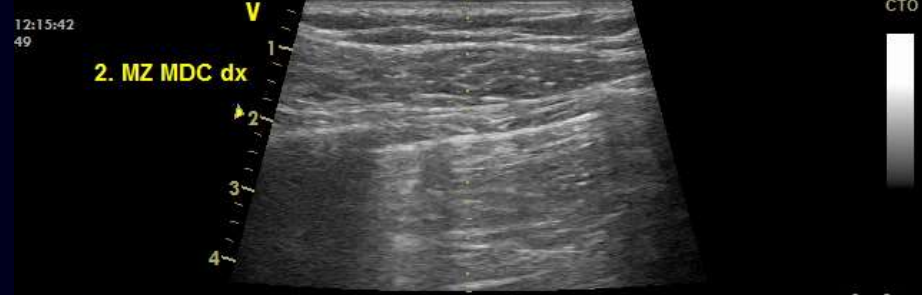
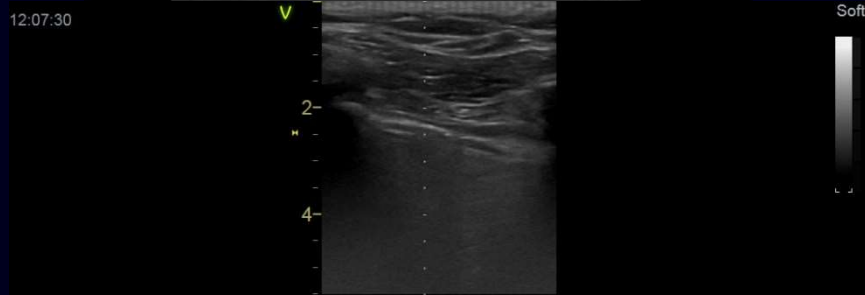
USG DIAGNOSTIKA PNEUMOTORAXU

- **vymizení pleurálního slidingu**
- **přítomnost *barcode sign (stratosphere sign)***
- **absence plicního pulzu**
- **absence vertikálních fenoménů**
- **přítomnost *lung point sign***
- **absence fenoménu *power slide***

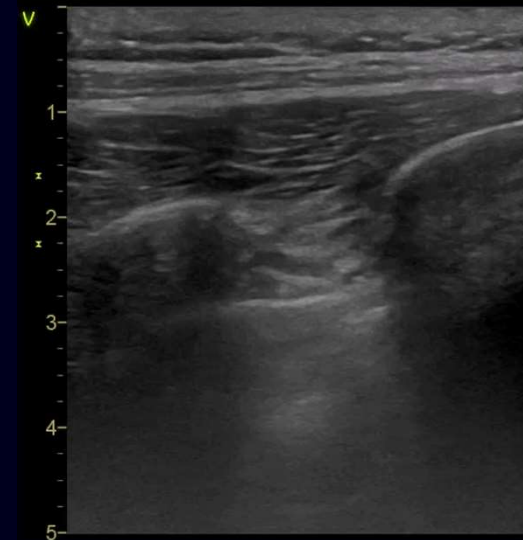
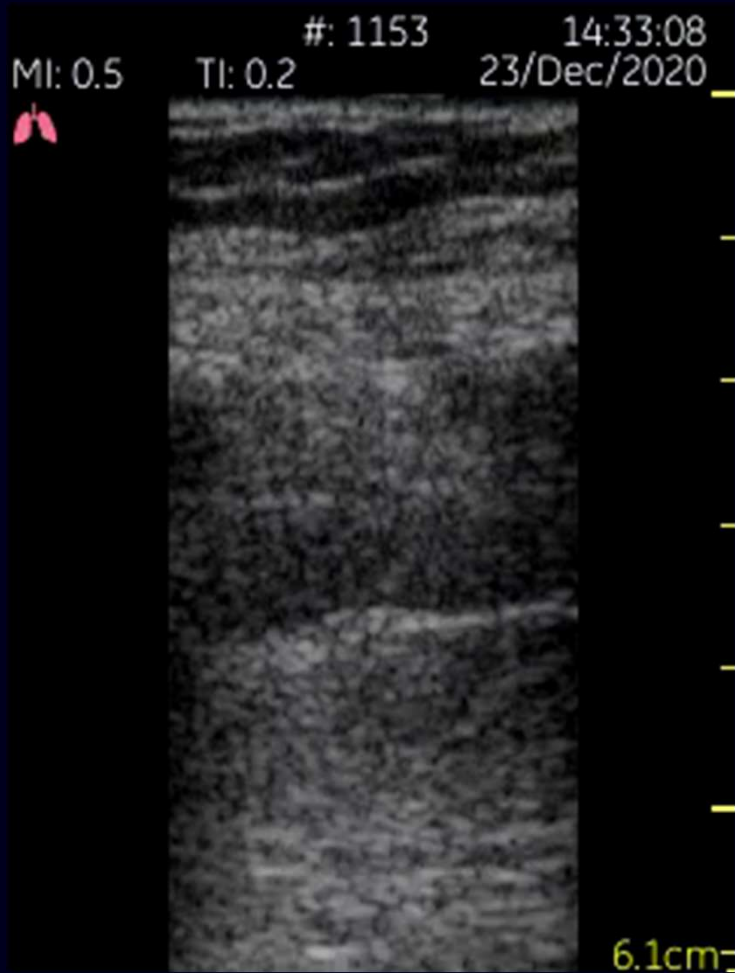
ABSENCE SLIDINGU



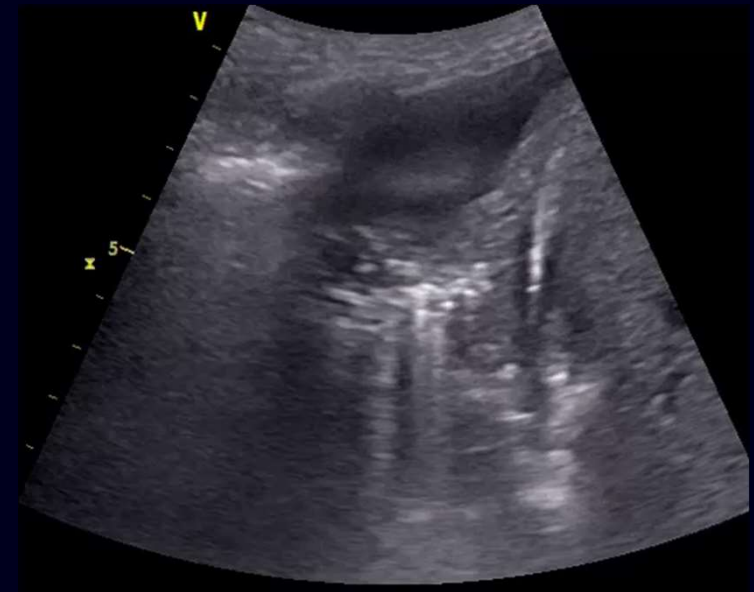
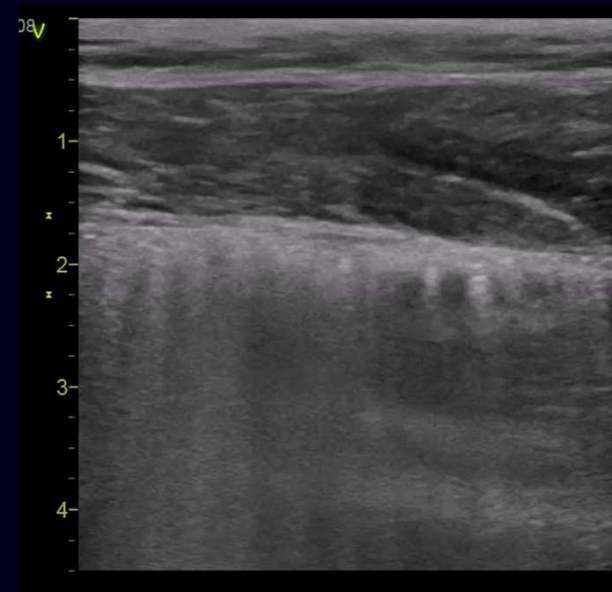
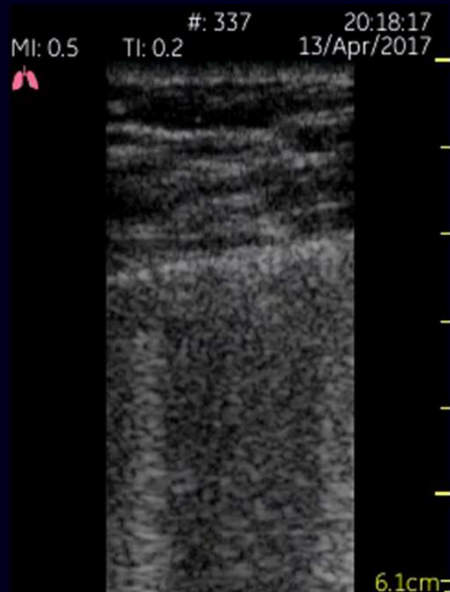
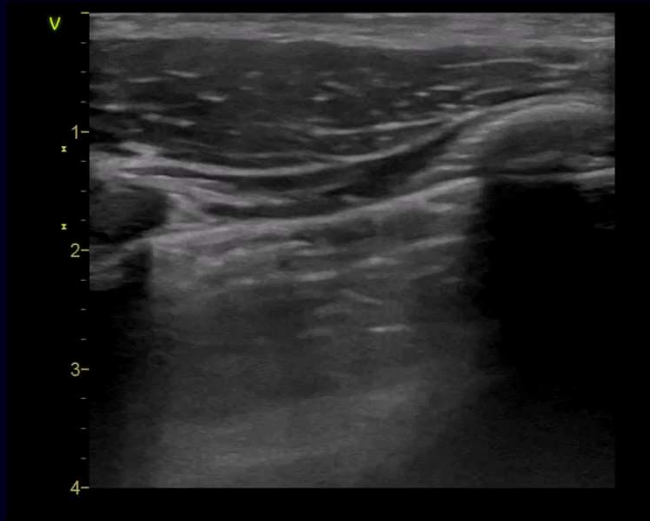
BARCODE SIGN



ABSENCE PULSATION OF PULMONARY PULSES



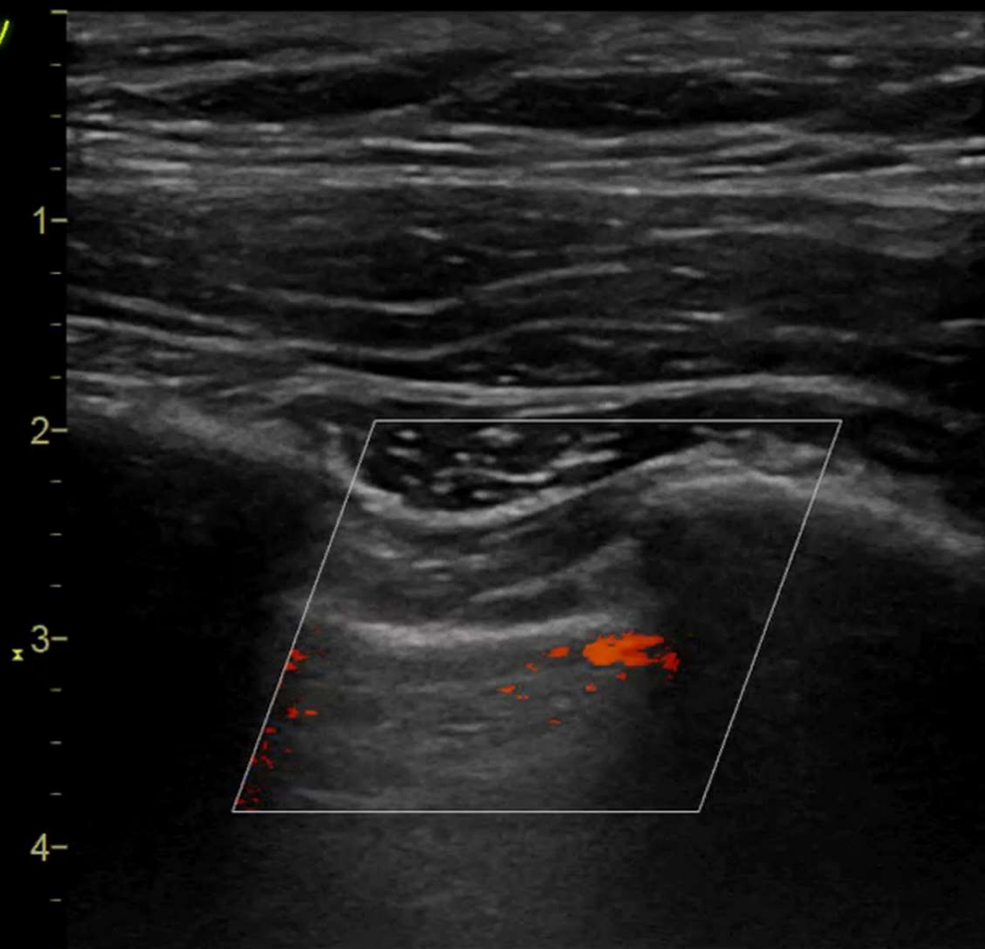
ABSENCE VERTIKÁLNÍCH FENOMÉNŮ



ABSENCE POWER SLIDE

14:32:28

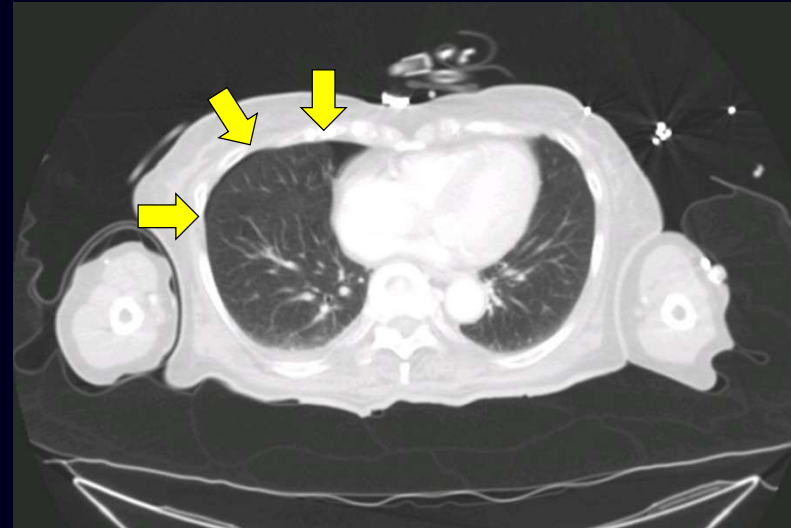
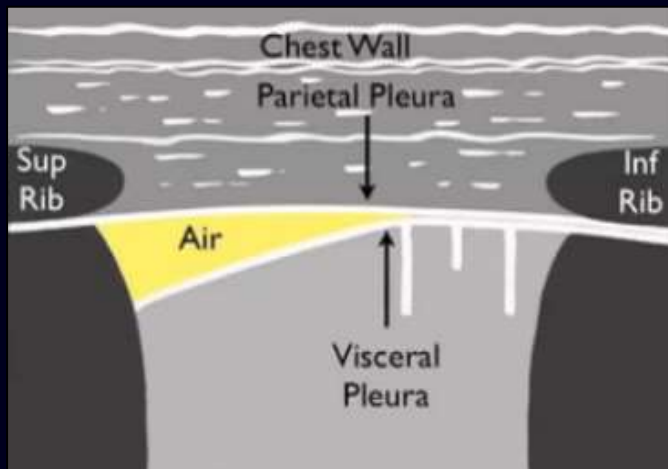
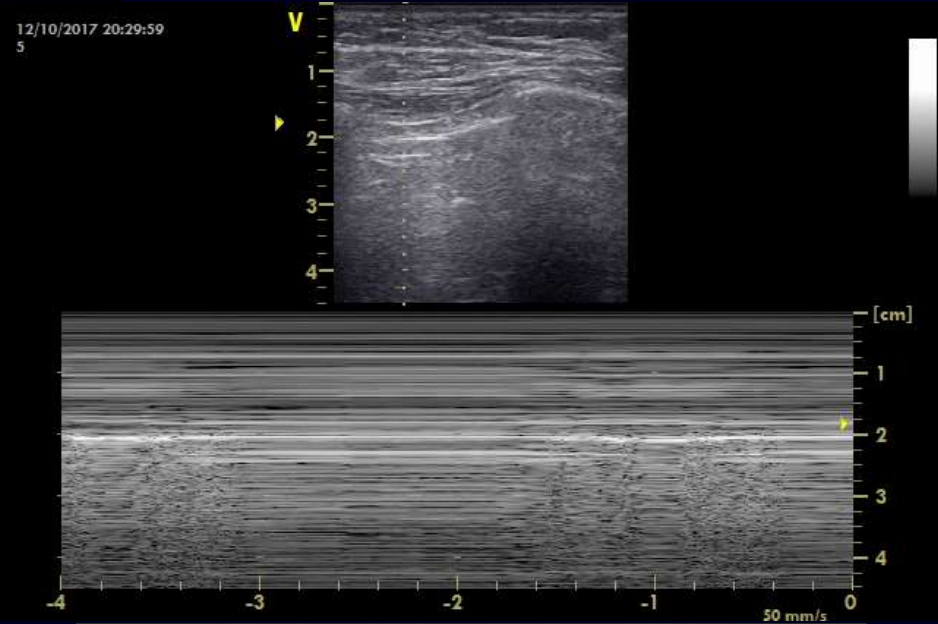
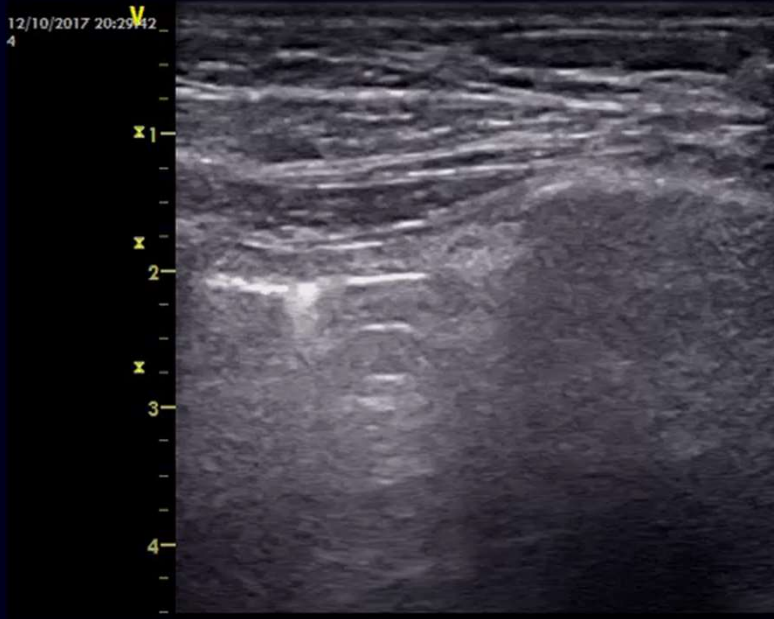
v



Soft



LUNG POINT SIGN



LUNG POINT SIGN

Intensive Care Med (2000) 26: 1434–1440
DOI 10.1007/s001340000627

ORIGINAL

Daniel Lichtenstein
Gilbert Mezière
Philippe Biderman
Agnès Gepner

The “lung point”: an ultrasound sign specific to pneumothorax

Intensive Care Med
<https://doi.org/10.1007/s00134-019-05677-z>

CORRESPONDENCE

The lung point, still a sign specific to pneumothorax



Joao Santos-Silva¹, Daniel Lichtenstein^{2*} , Pieter R. Tuinman³ and Paul W. G. Elbers³

- sensitività 66 %
- specificità 100 %

LUNG POINT SIGN

- **nic není na 100 %**
- **...ani lung point sign pro pneumotorax**

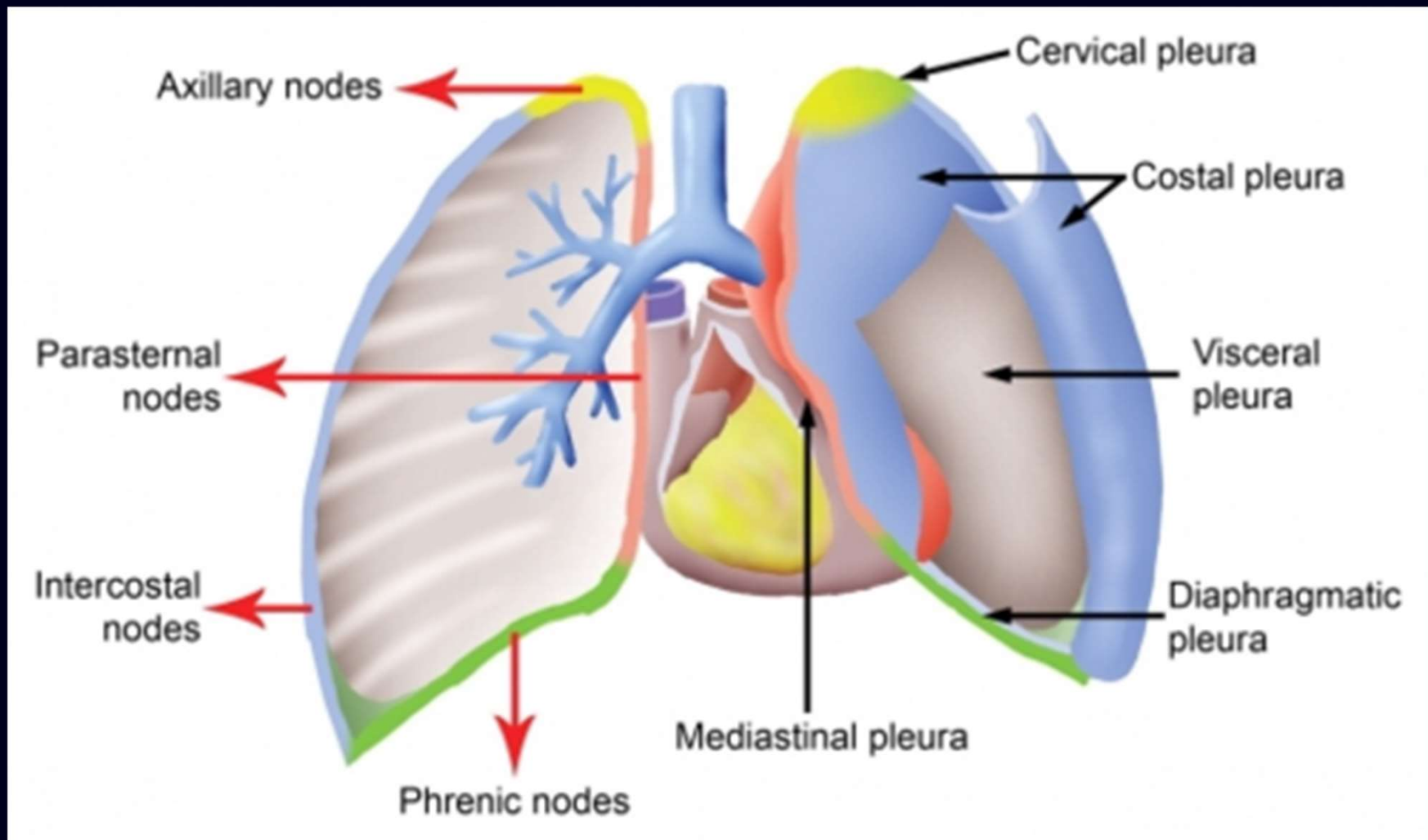
LUNG POINT SIGN

- **napodobeniny**
- **méně obvyklé varianty**

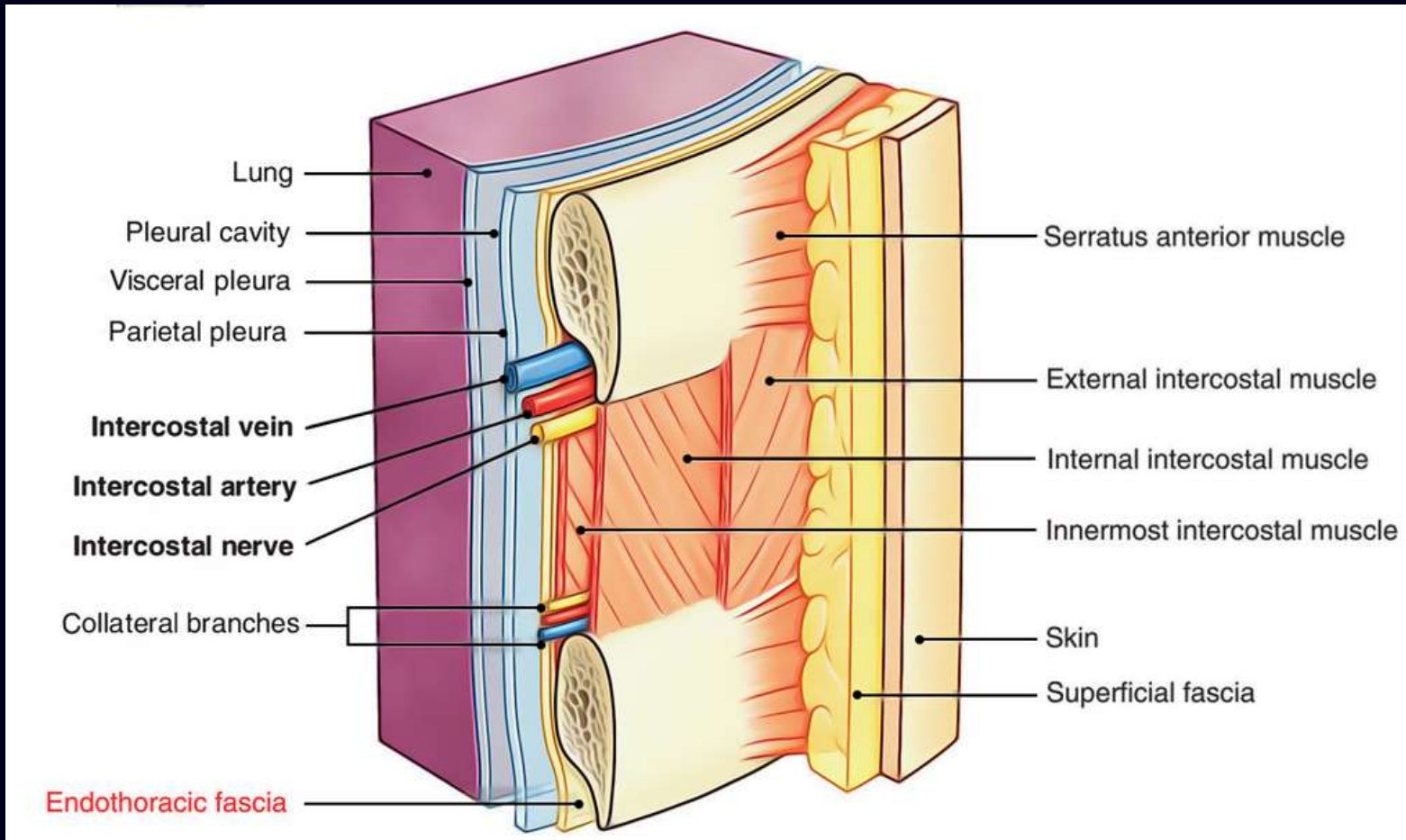
LUNG POINT SIGN

- **napodobeniny**
- méně obvyklé varianty

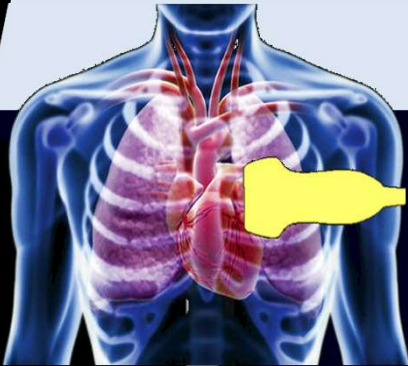
MEDIASTINÁLNÍ PLEURA



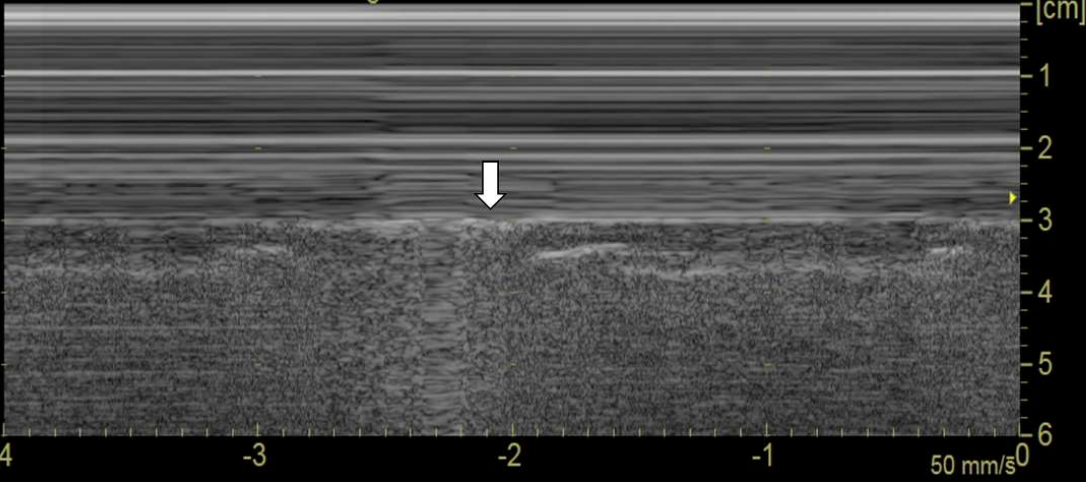
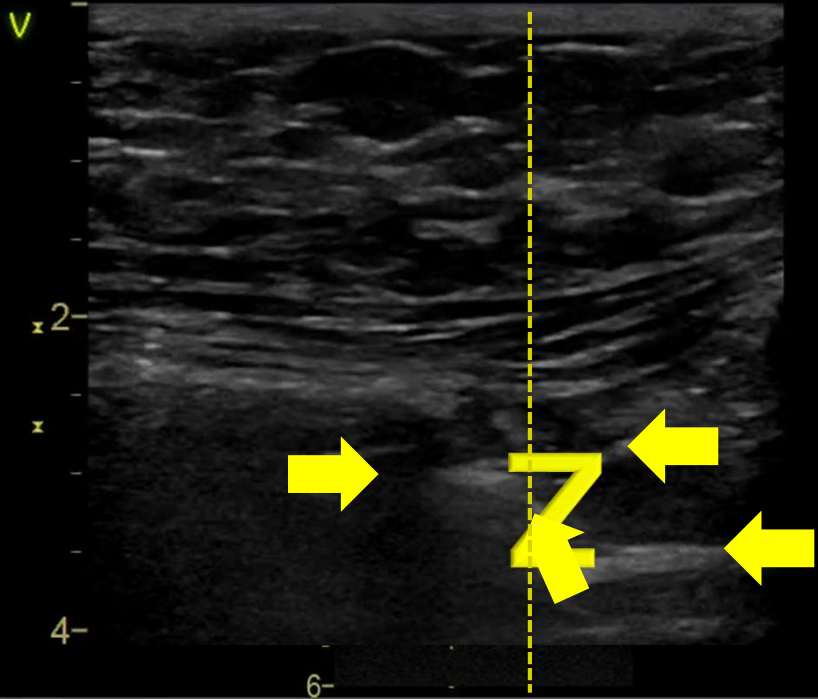
FASCIA ENDOTHORACICA



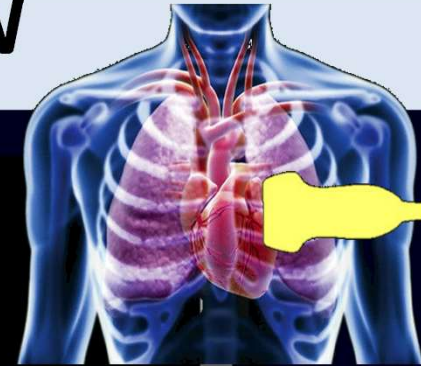
PHYSIOLOGICAL LUNG POINT SIGN



13:54:31

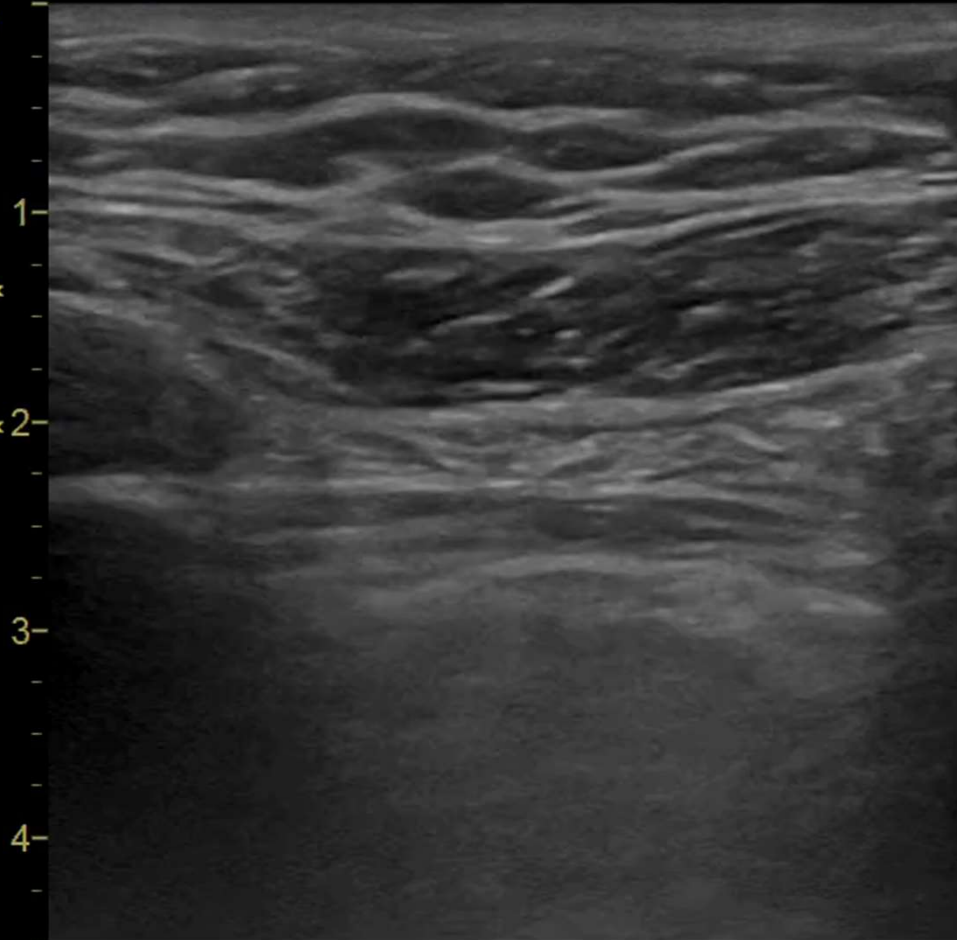


PHYSIOLOGICAL LUNG POINT SIGN



11:22:40

v



1

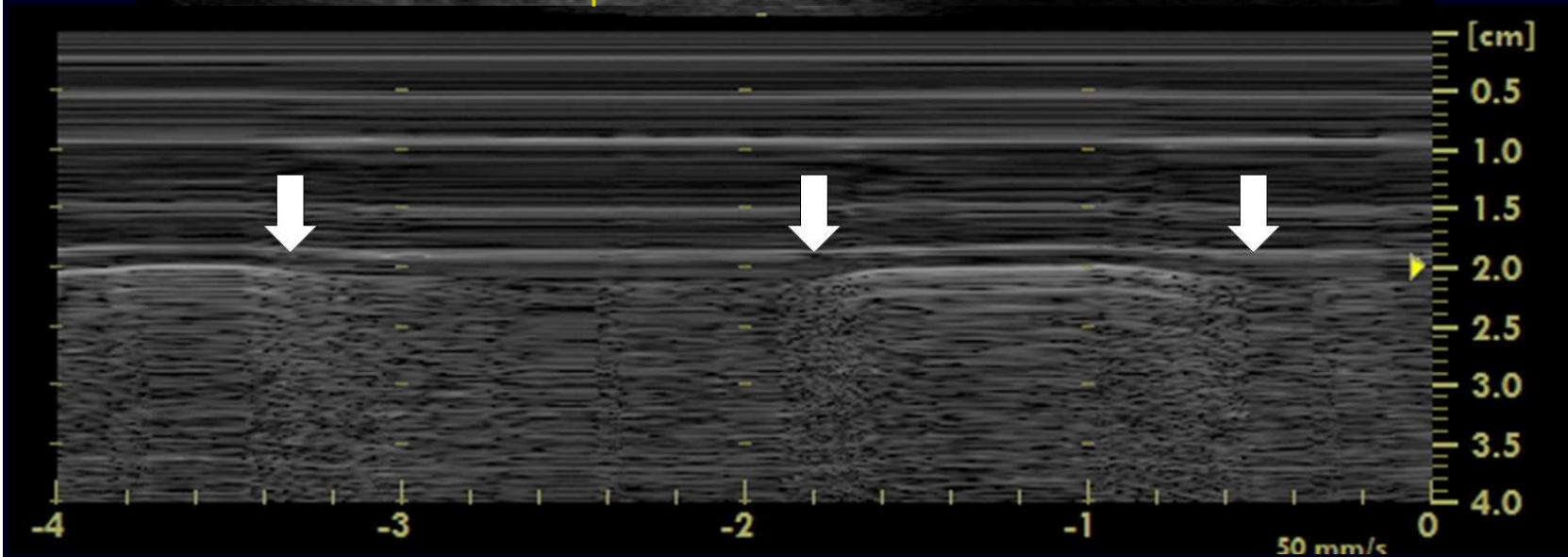
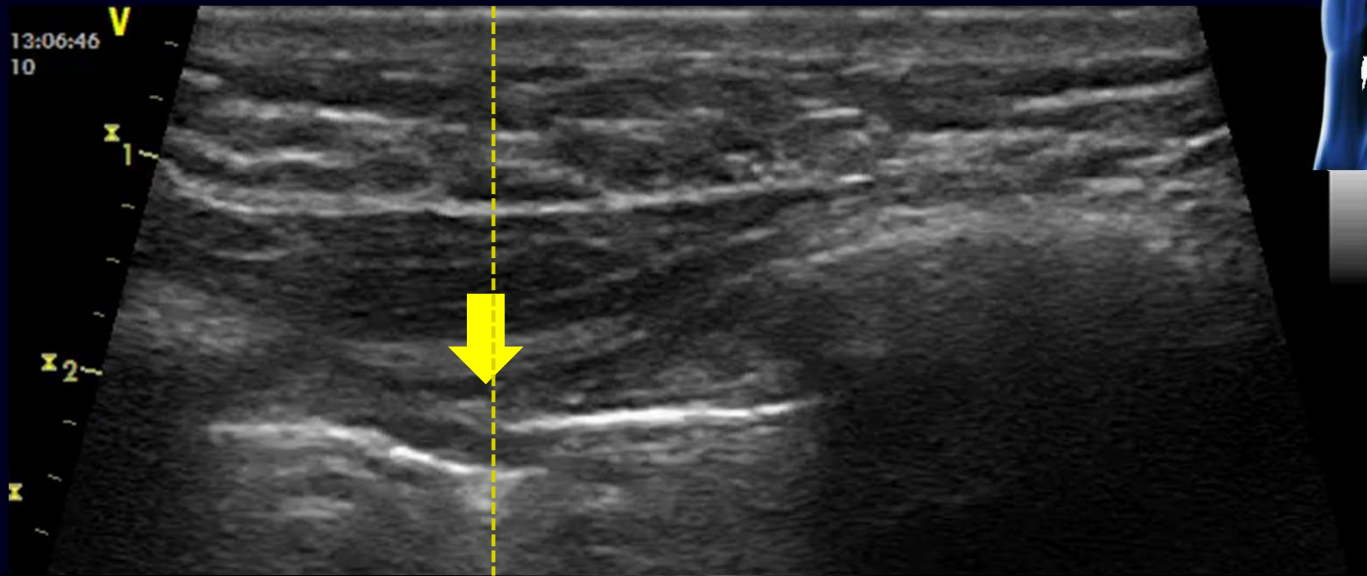
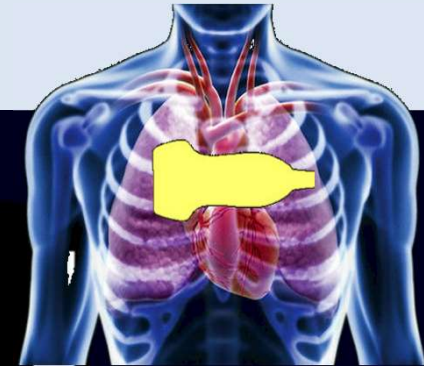
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2

3

4

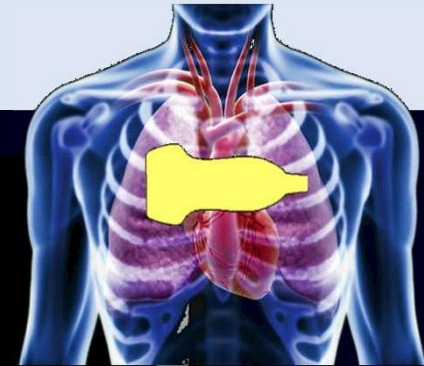
PSEUDO-LUNG POINT SIGN



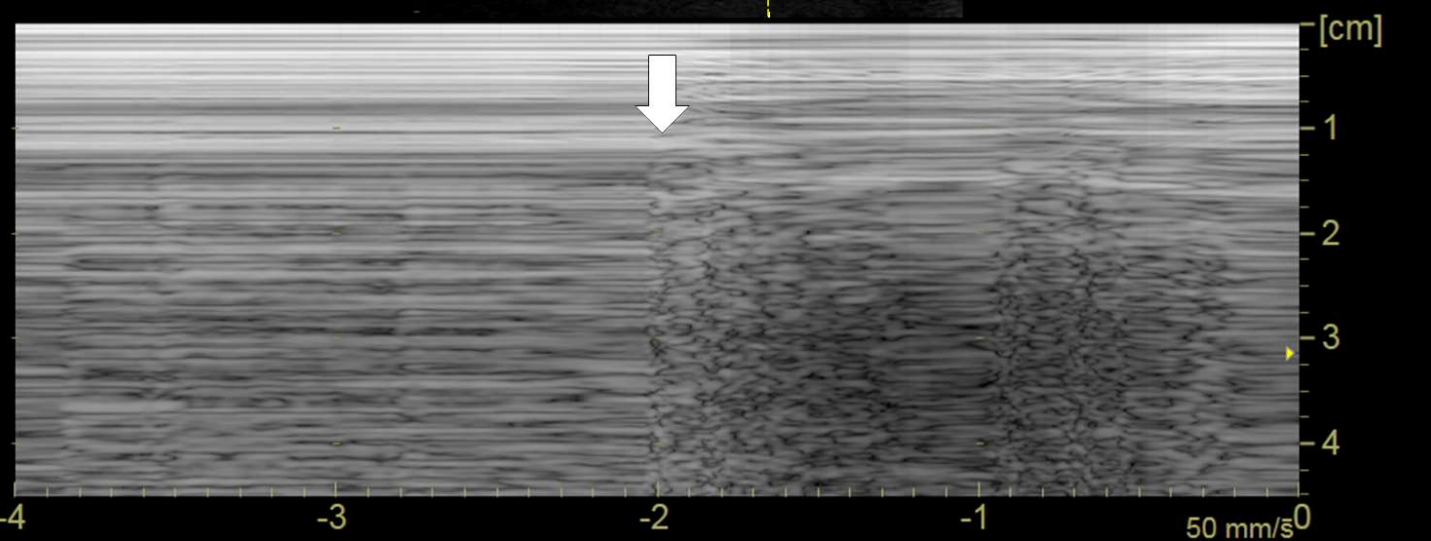
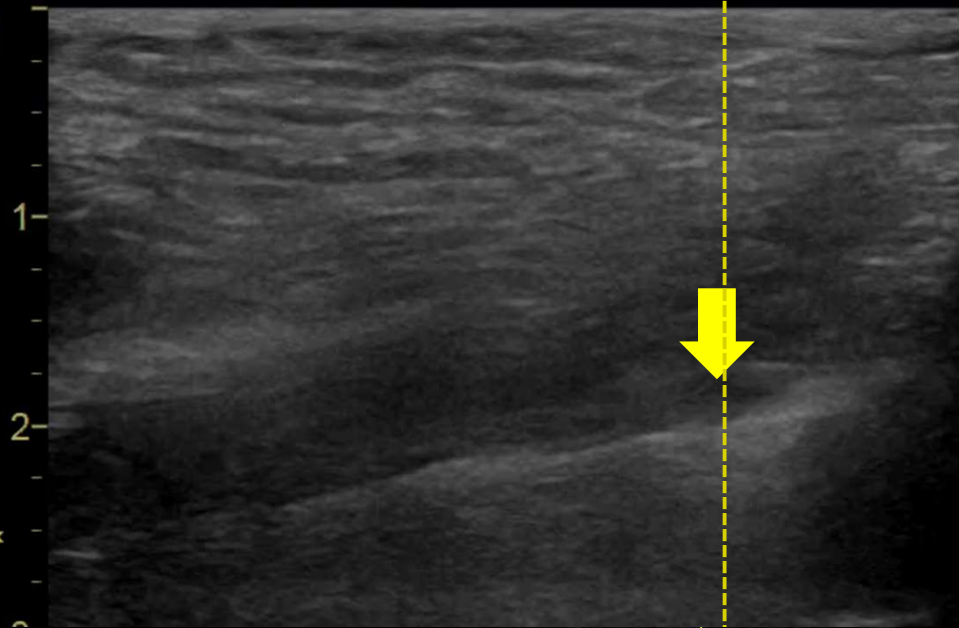
BLEB POINT SIGN



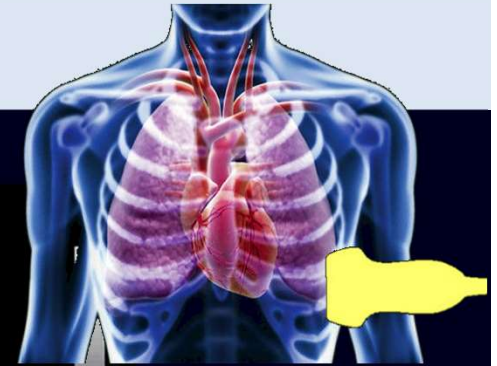
BLEB POINT SIGN



04/02/2021 12:54:02 ✓



CURTAIN SIGN



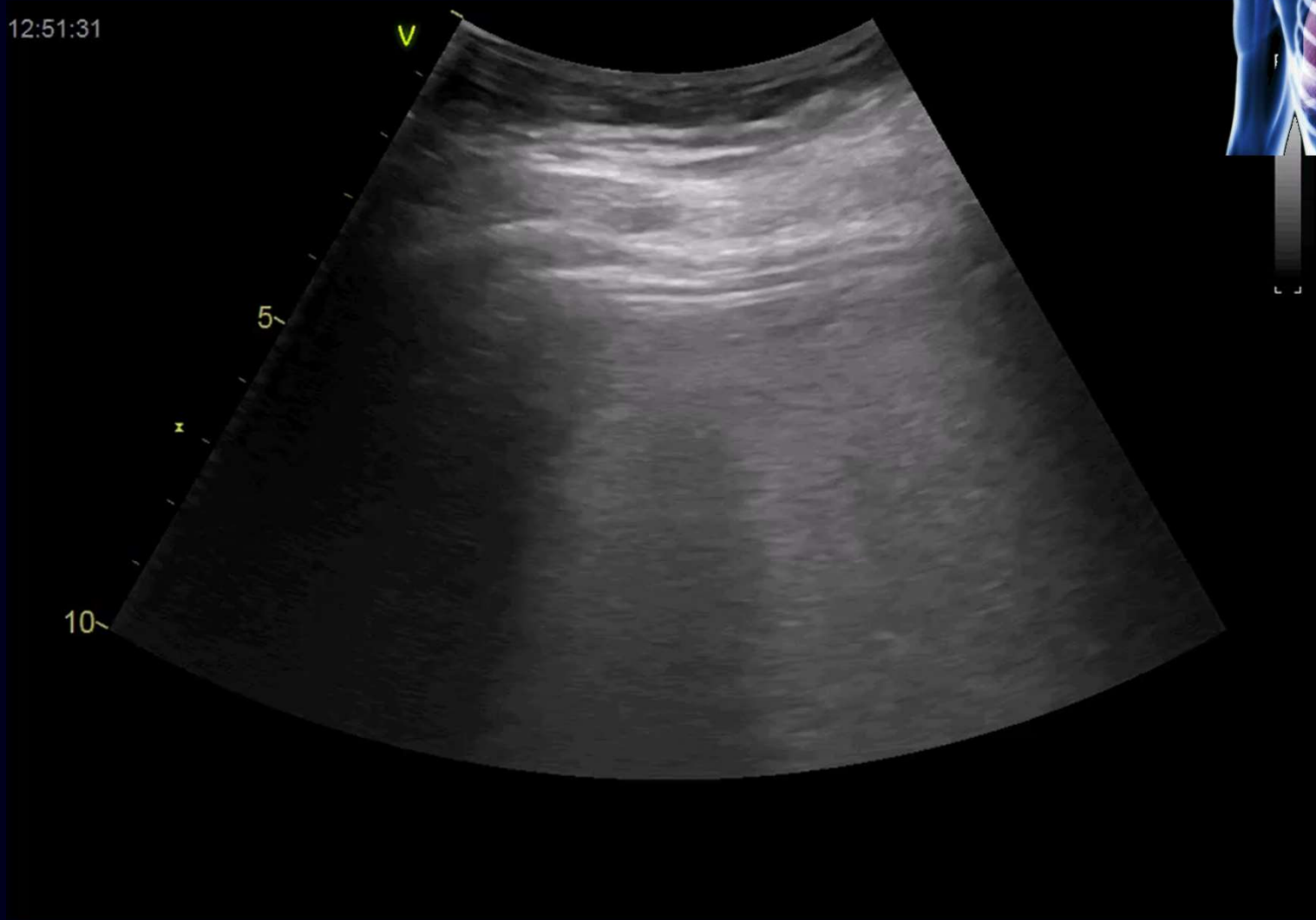
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v

5

x

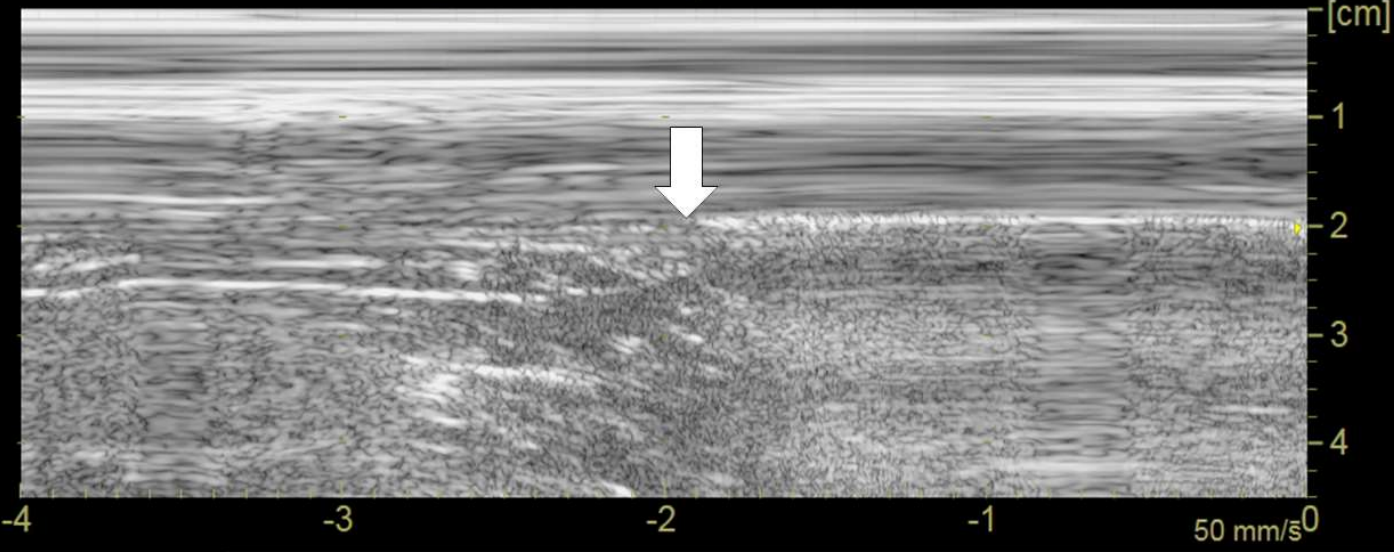
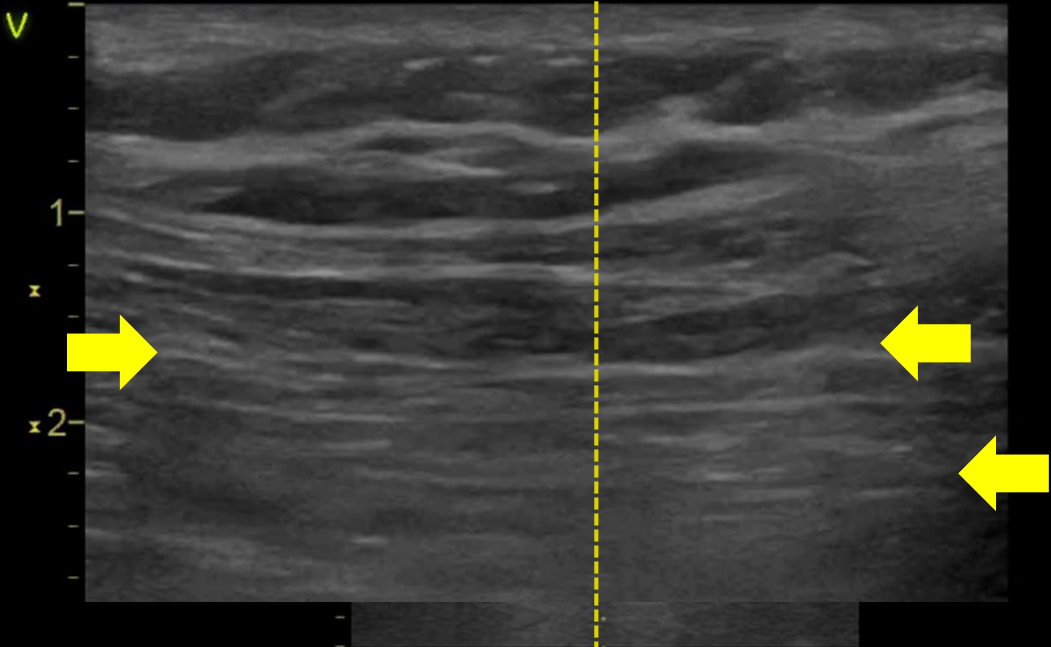
10



PLEURO-FASCIAL POINT SIGN



11:31:26



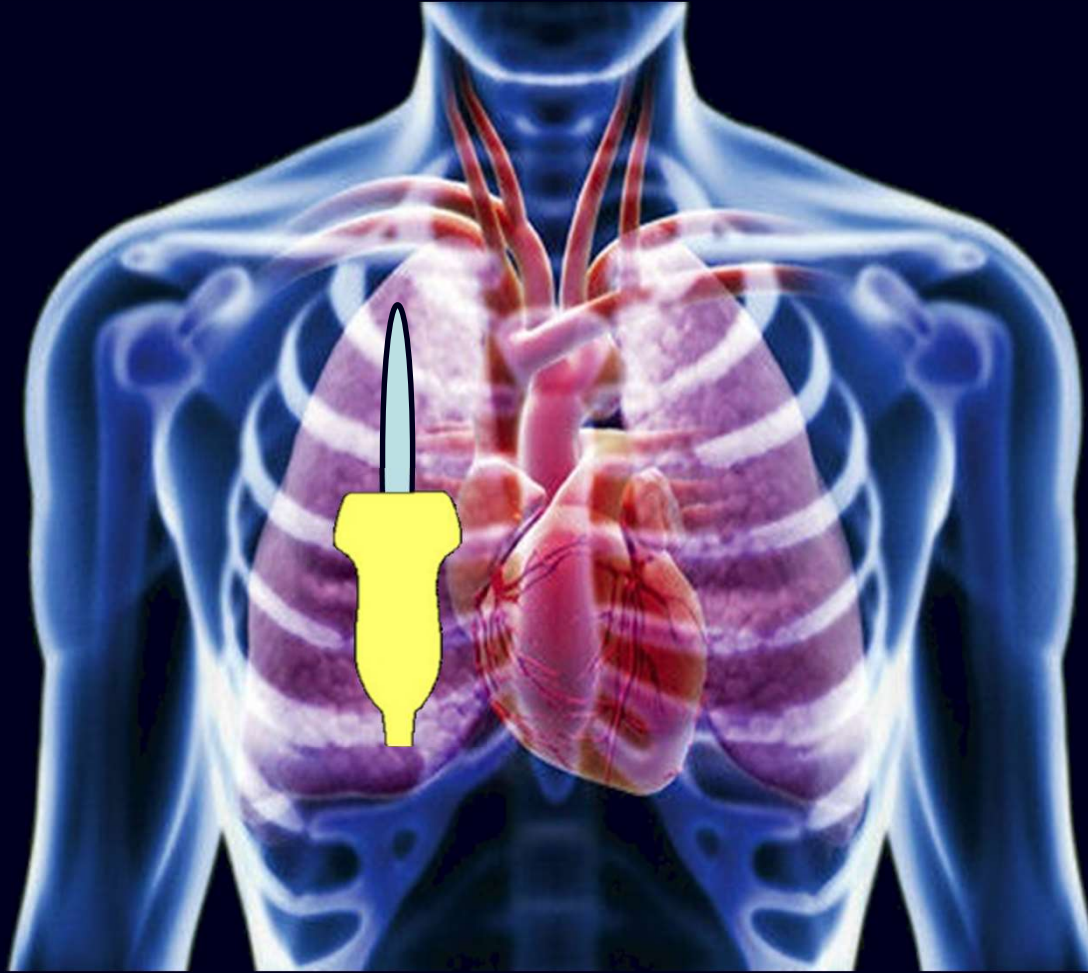
NAPODOBENINY

fenomén	přechod sliding-absence slidingu	barcode sign	A linie	vertikální fenomény	lung pulse	další specif. nálezy
pravý lung point sign	+	+	+	-	-	-
physiological lung point sign	+	-	-	-	+	Z-znamení
pseudo-lung point sign	+	-	-	+	+	-
bleb point sign	+	+	+	-	-	-
pleuro-fascial point sign	+	-	-	-	-	bránice and parench. orgány

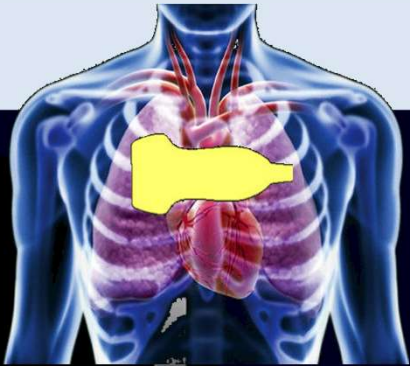
LUNG POINT SIGN

- napodobeniny
- méně obvyklé varianty

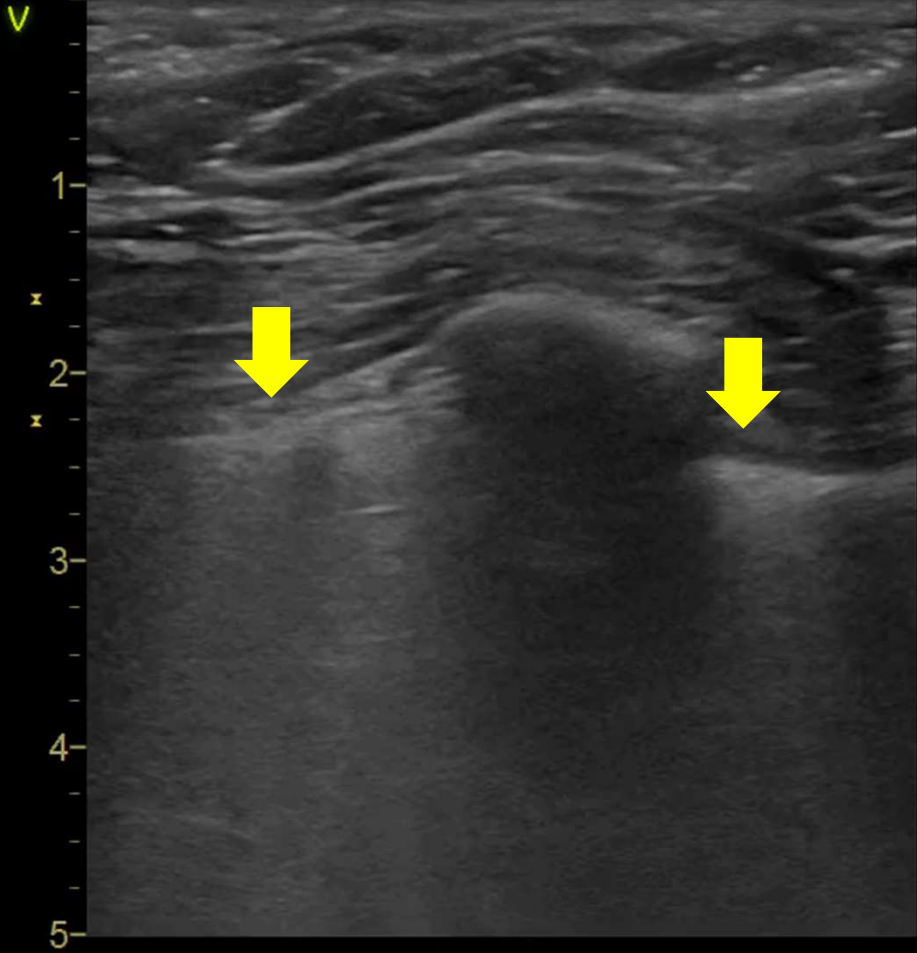
DOUBLE LUNG POINT SIGN



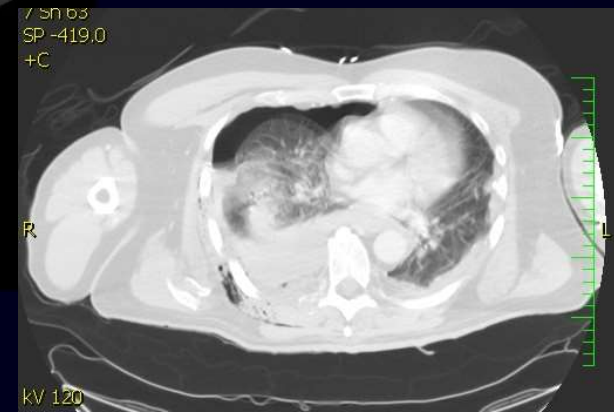
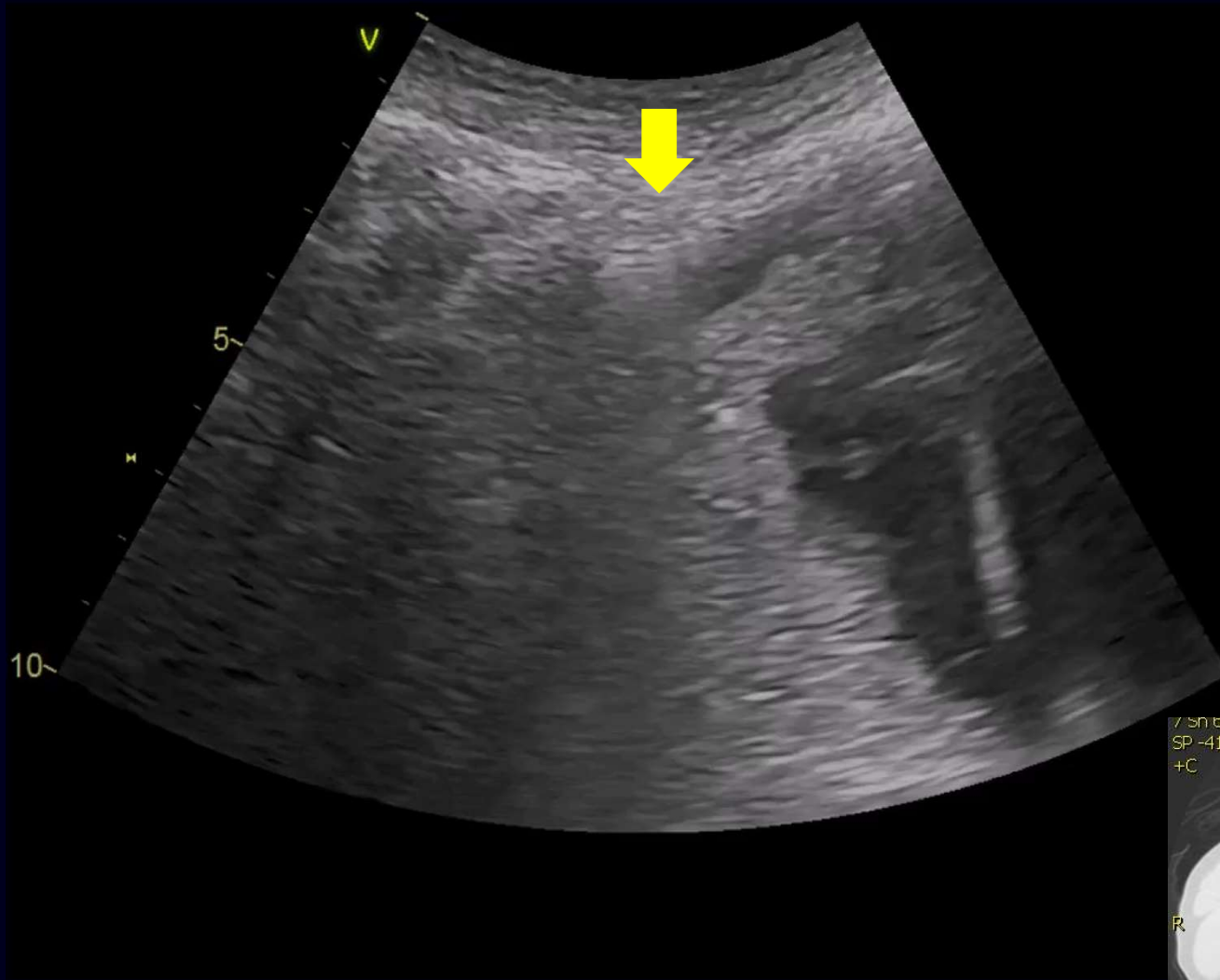
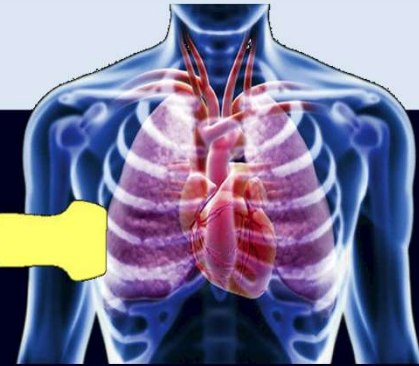
DOUBLE LUNG POINT SIGN



14:10:37



HYDRO POINT SIGN



ZÁVĚRY

- lung point sign je velmi specifická USG známka pneumotoraxu, ale nikoliv patognomonická
- i v časové tísní je nutné hodnotit všechny relevantní USG známky pneumotoraxu v kontextu klinického obrazu
- bleb point sign je problém
- lung point sign má svoje varianty

děkuji za pozornost

skulec@email.cz