

Tipps und Tricks in der Thorax-Bildgebung



Frühlingszyklus Medizin LUKS | Tipps und Tricks in der Thorax-Bildgebung | PD Dr. J.E. Roos / Luzern | Mittwoch 16 März 2022



Tipps und Tricks in der Thorax-Bildgebung

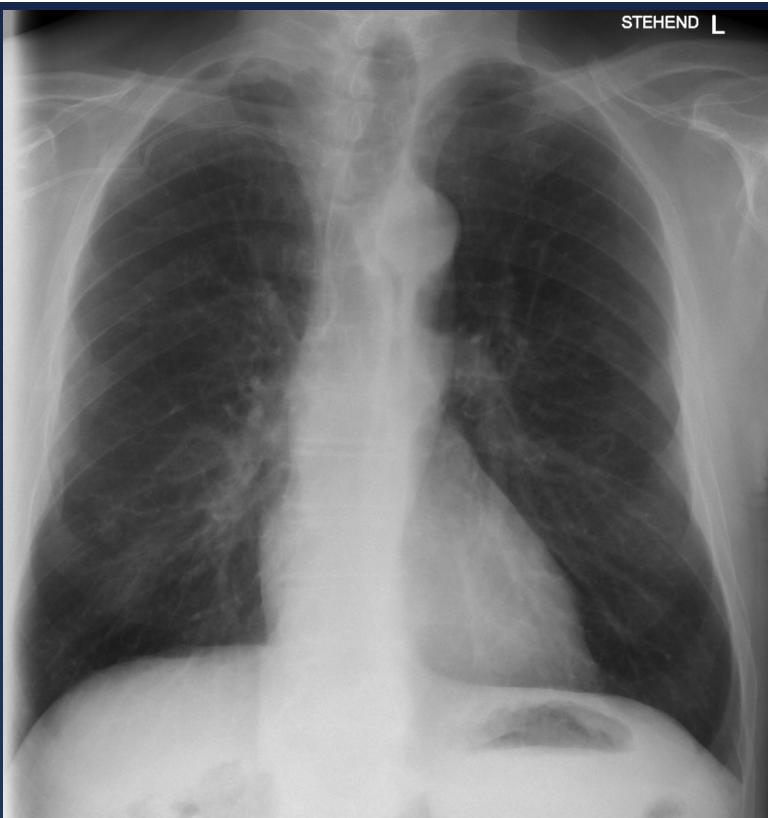
Signs in Thoracic Imaging

- Assoziation von alltäglichen Objekten mit entsprechenden Pathologien
- Einfach verständlich und memorierbarer Krankheitsprozess

Frühlingszyklus Medizin LUKS | Tipps und Tricks in der Thorax-Bildgebung | PD Dr. J.E. Roos / Luzern | Mittwoch 16 März 2022

1

Metastasen?



1



Complete Border Sign

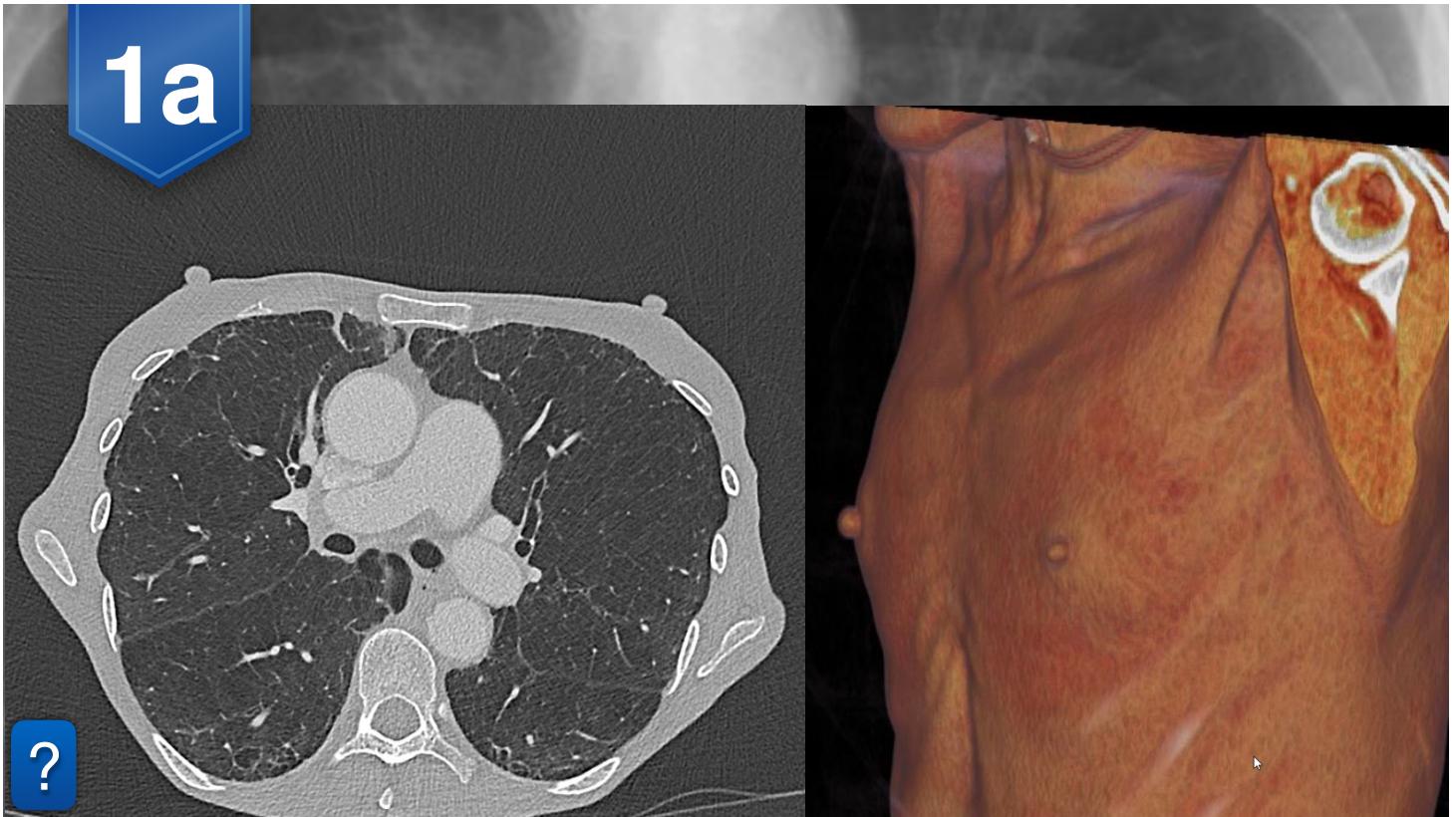
Incomplete Border Sign



1a



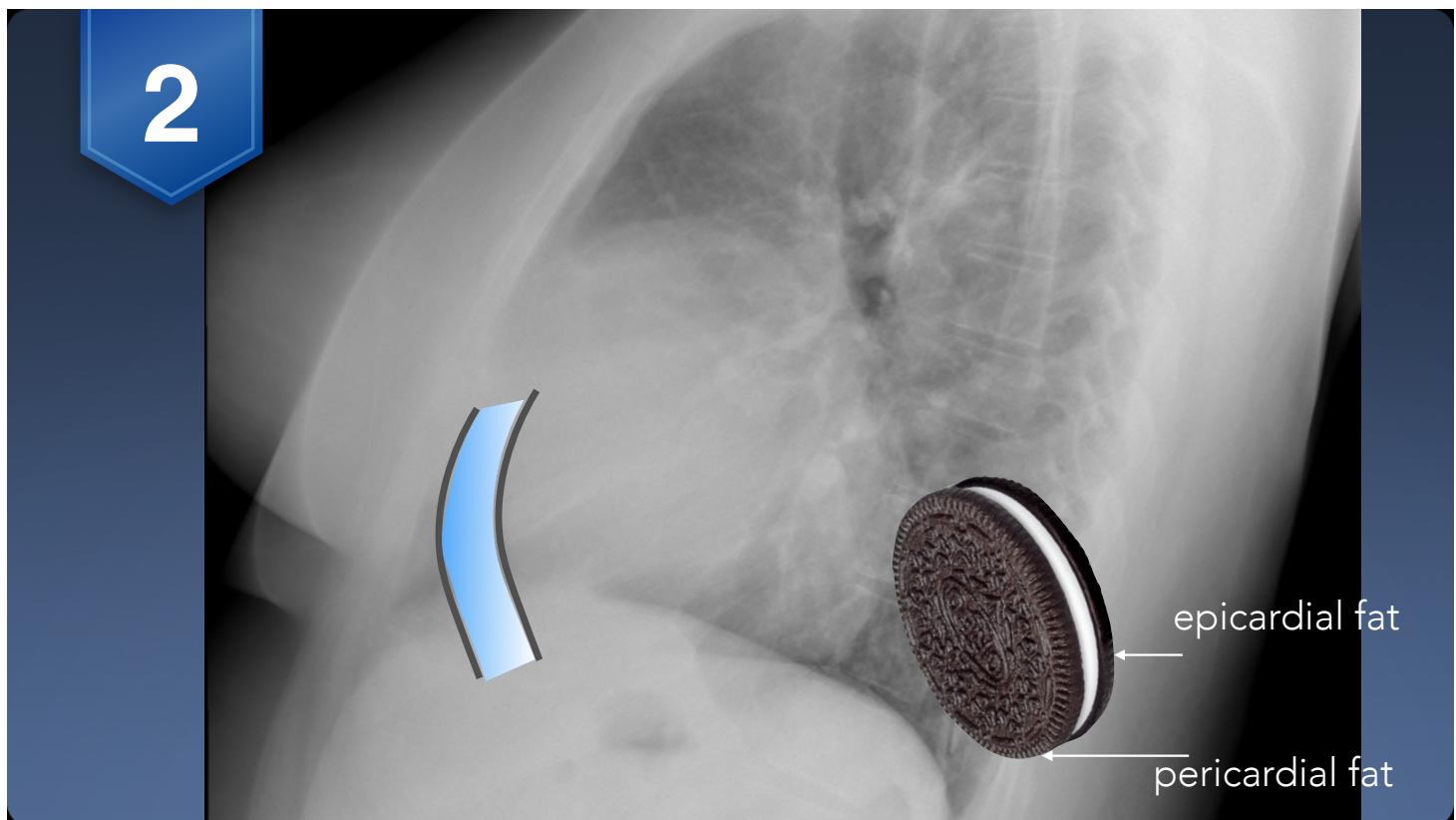
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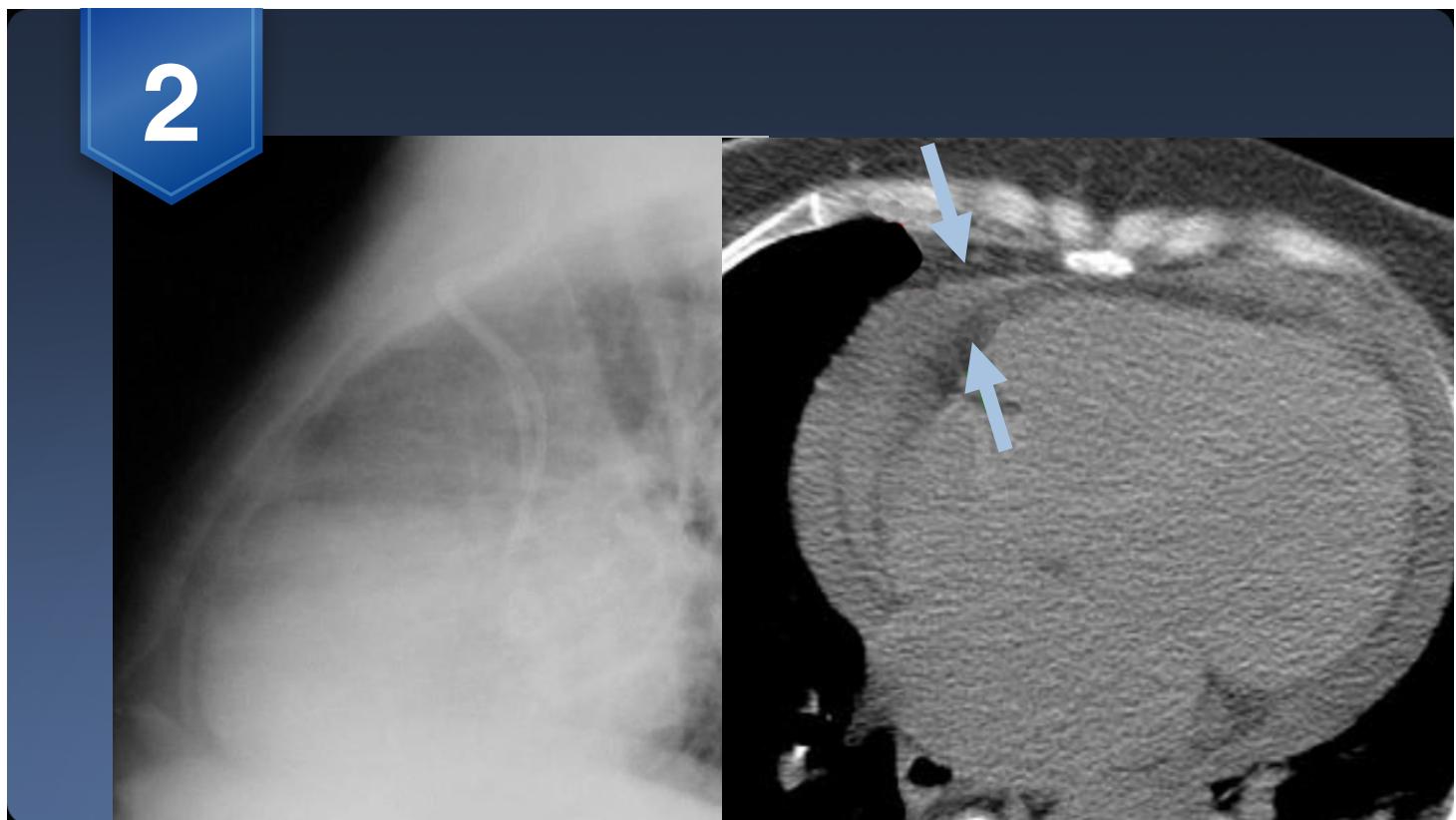
Signs in Thoracic Imaging

Zeichen	Typisch für	Differentialdiagnose
incomplete Border Sign	intra- versus extrapulmonal	pleurale oder Thorax- wand Pathologien

2



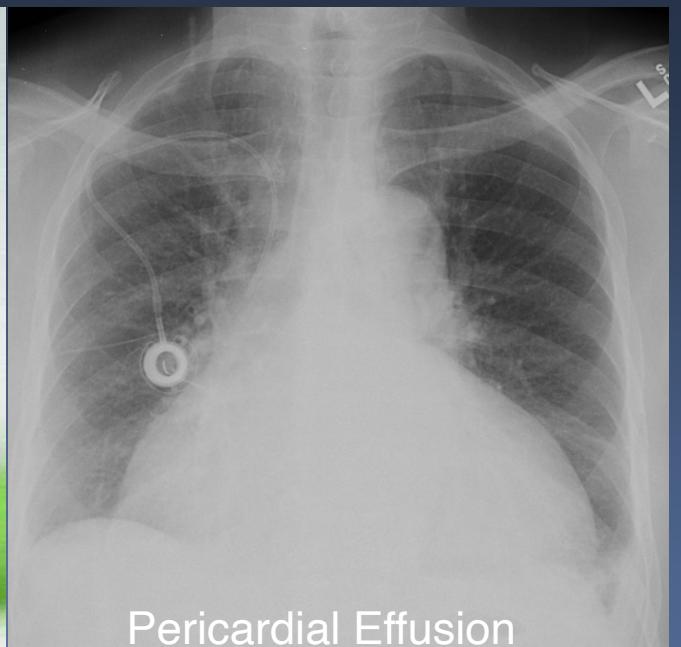
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Signs in Thoracic Imaging

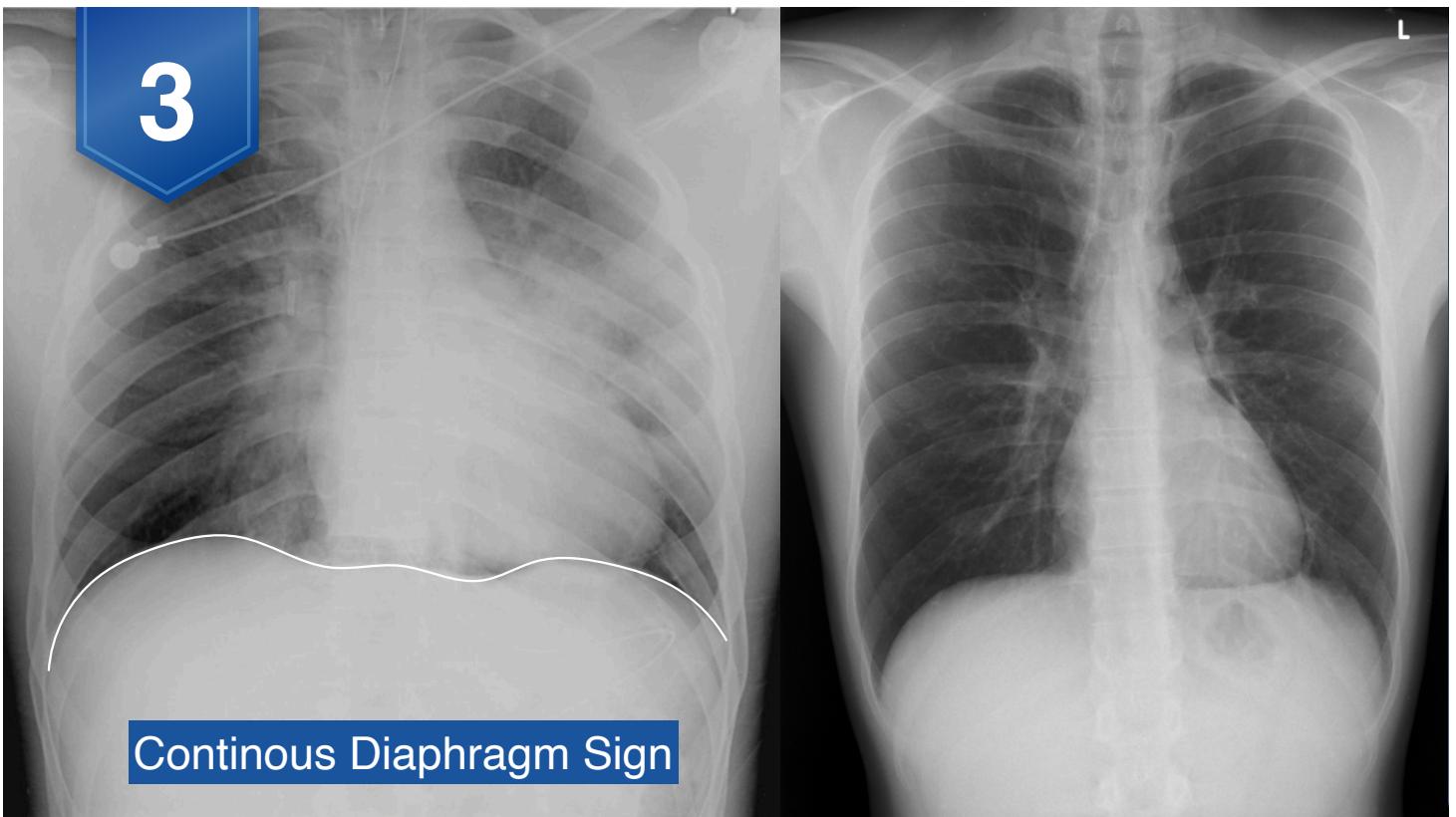
Zeichen	Typisch für	Differentialdiagnose
incomplete Border Sign	intra- versus extrapulmonary	pleurale oder Thoraxwand Pathologien
Oreo Cookie Sign	Pericarerguss	Kardiomegalie versus Pericarderguss

Signs in Thoracic Imaging



Pericardial Effusion

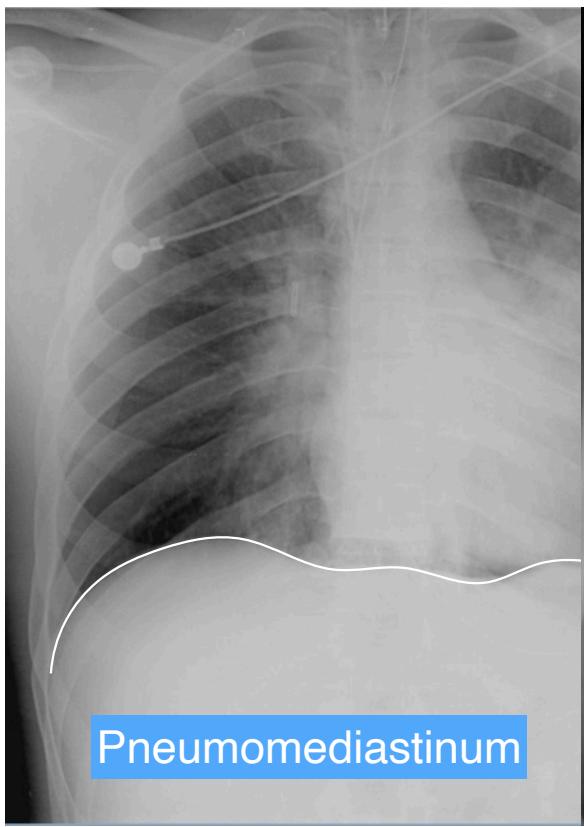
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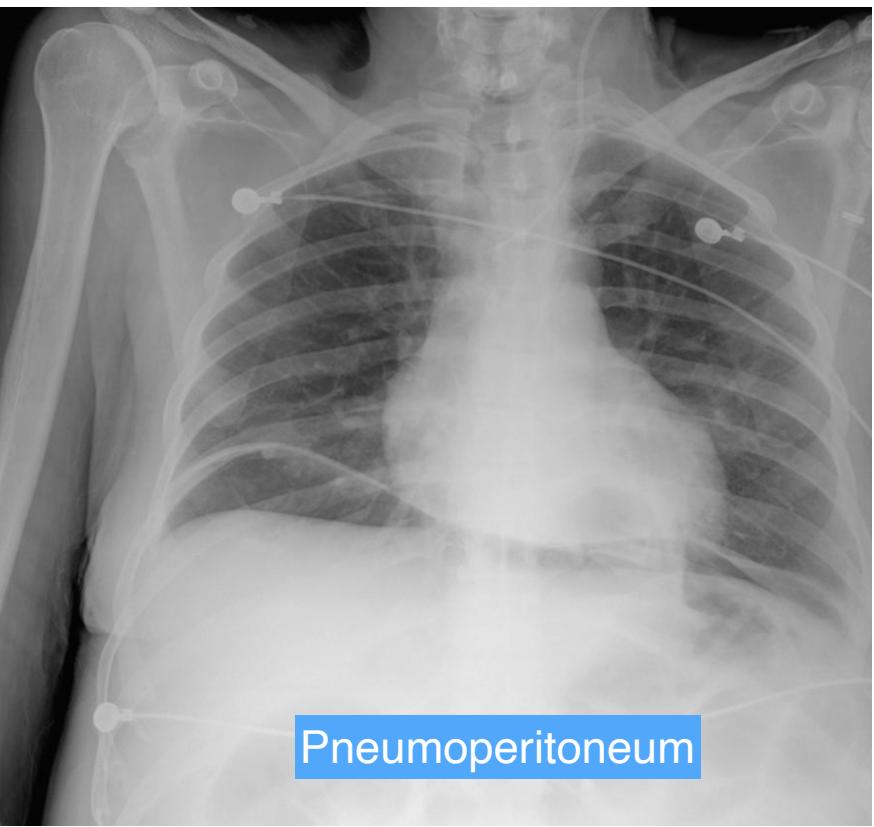
Continuous Diaphragm Sign

Signs in Thoracic Imaging

Zeichen	Typisch für	Differentialdiagnose
incomplete Border Sign	intra- versus extrapulmonary	pleurale oder Thoraxwand Pathologien
Oreo Cookie Sign	Pericarderguss	Kardiomegalie versus Pericarderguss
Continuous diaphragm sign	Pneumomediastinum	Pneumomediastinum Pneumopericardium

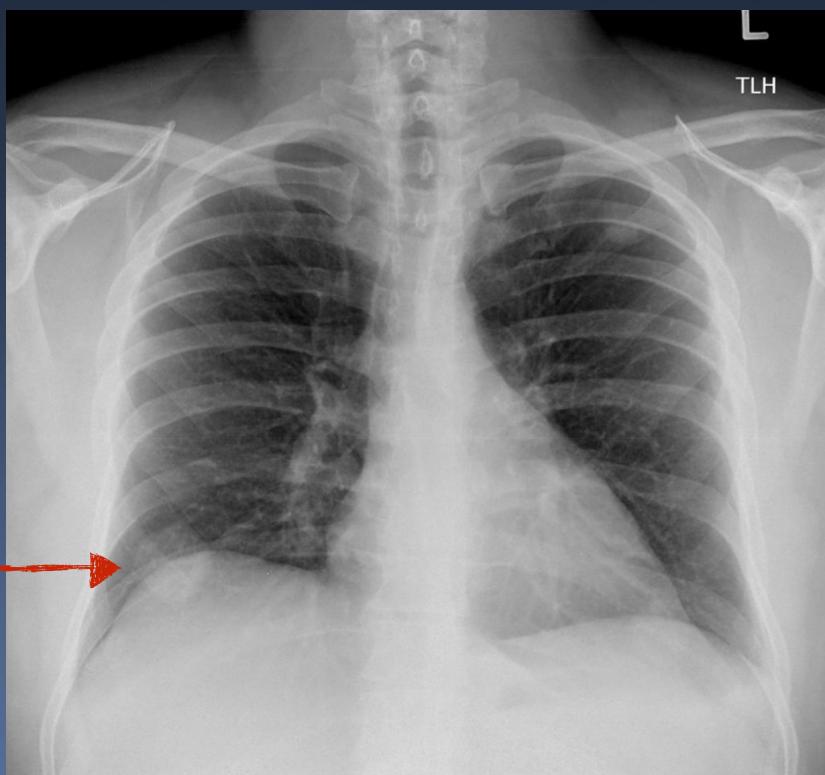


Pneumomediastinum

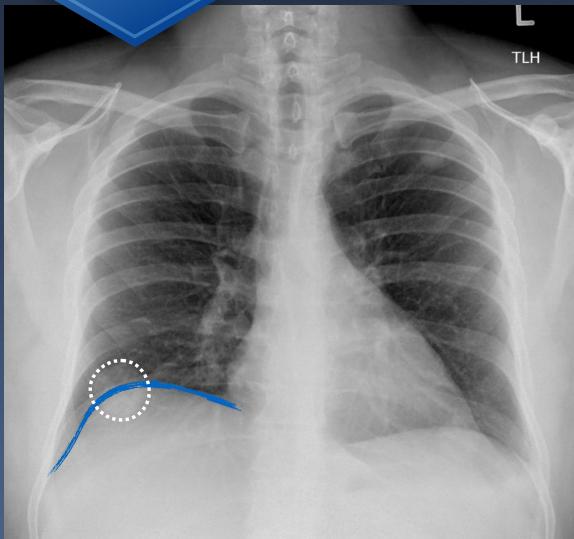


Pneumoperitoneum

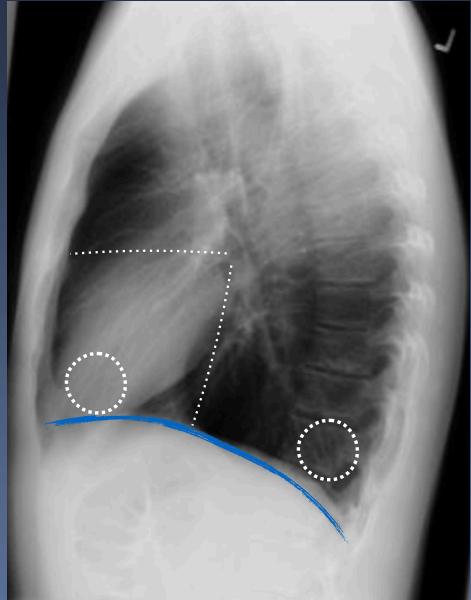
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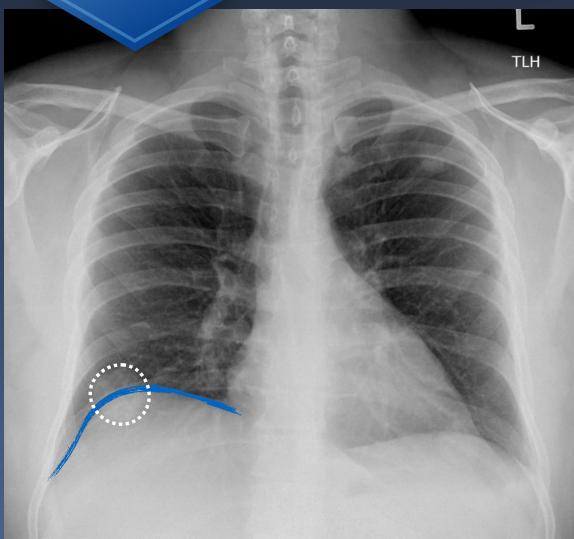
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thoracoabdominal
sign



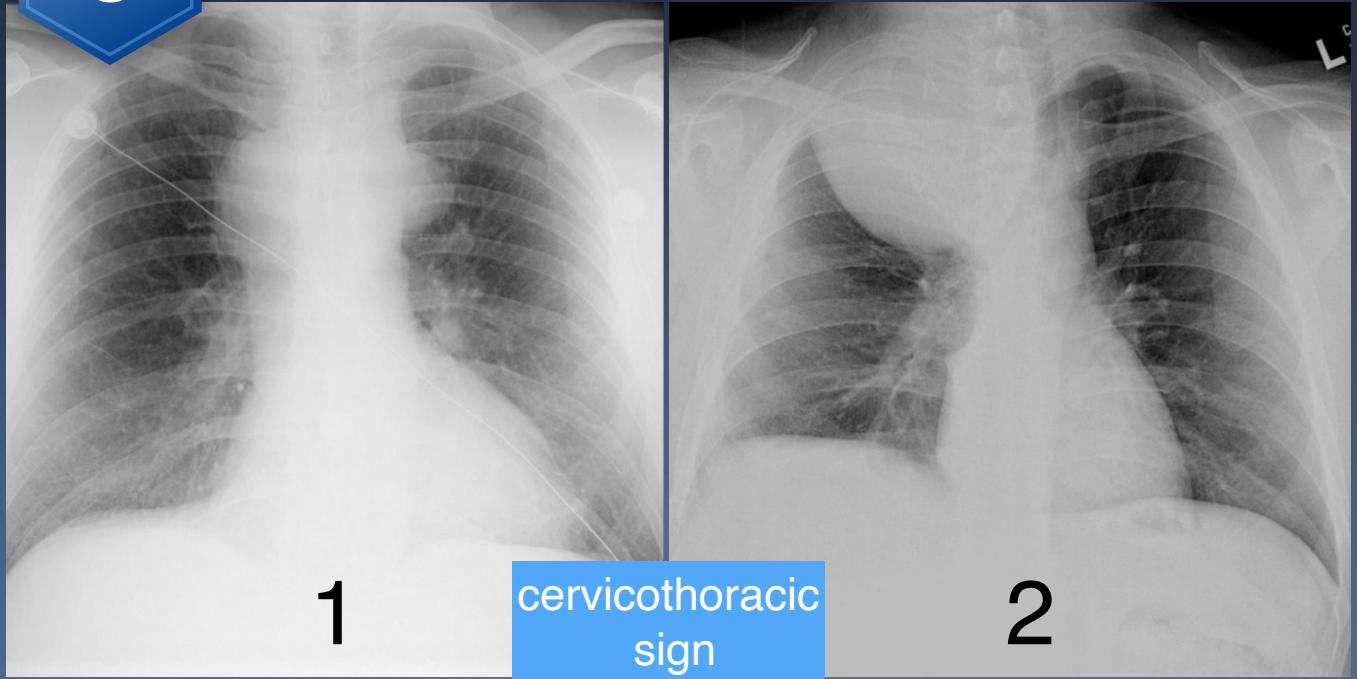
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thoracoabdominal
sign



6



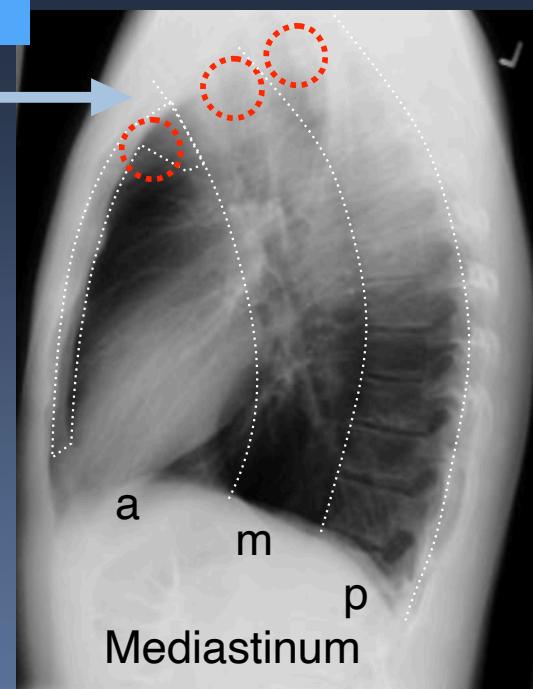
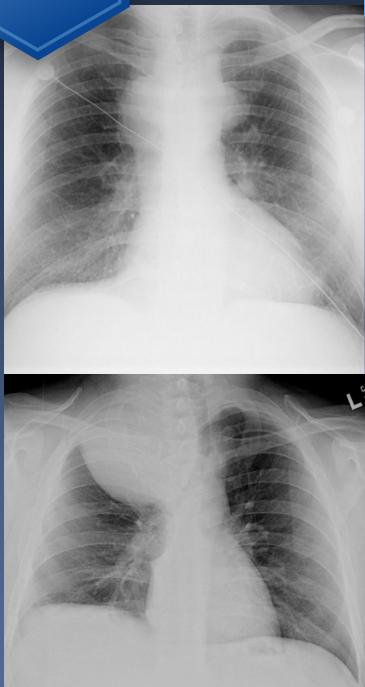
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cervicothoracic
sign

2

6

cervicothoracic
sign



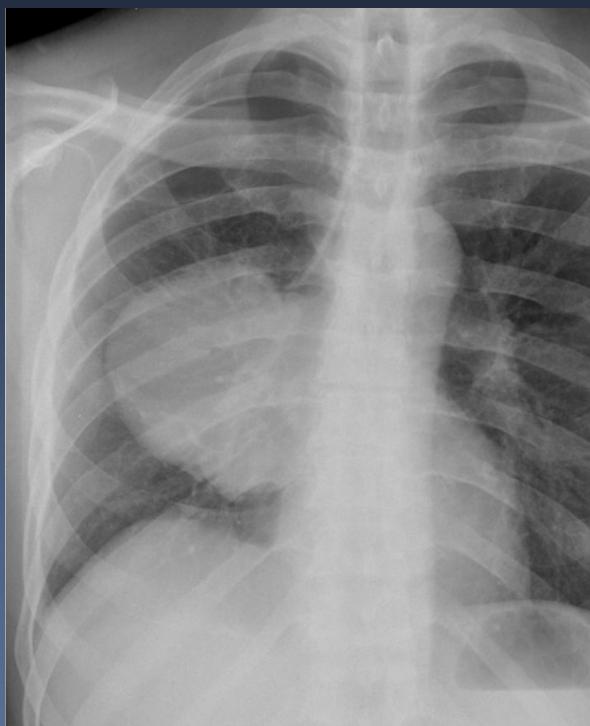
Mediastinum

Signs in Thoracic Imaging

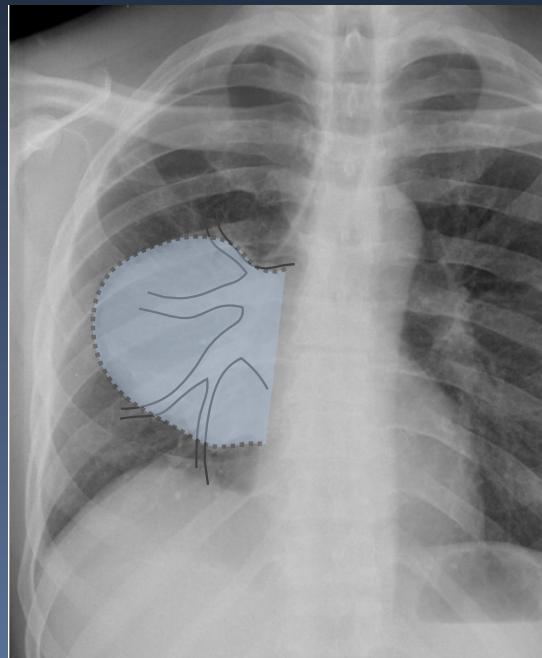
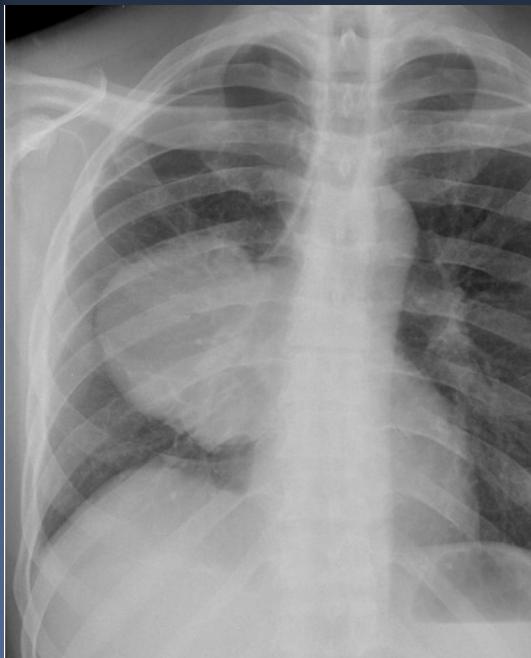
Zeichen	Typisch für	Differentialdiagnose
incomplete Border Sign	intra- versus extrapulmonal	pleurale oder Thoraxwand Pathologien
Oreo Cookie Sign	Pericarerguss	Kardiomegalie versus Pericarderguss
Continous diaphragm sign	Pneumomediastinum	Pneumomediastinum Pneumopericardium
Cervicothoracic sign Thoracoabdominal sign	Mediastinal Tumore Lungentumore	Anterior Mediastinum vs middle/post Mediastinum Mittellappen vs Unterlappen

7

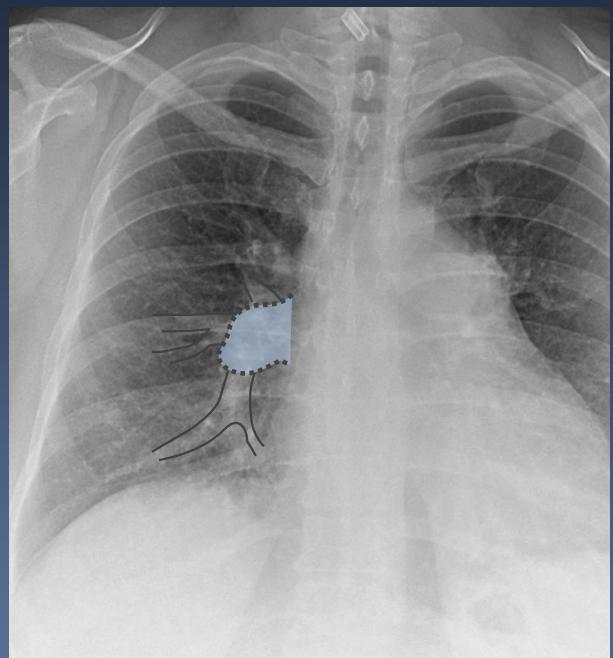
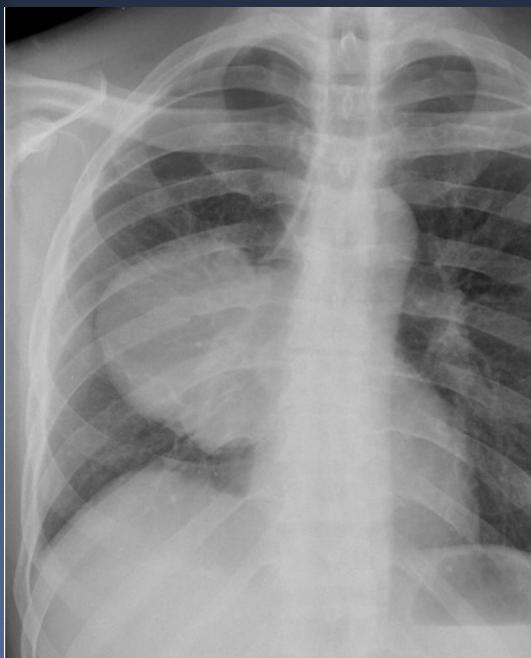
Hilus



7

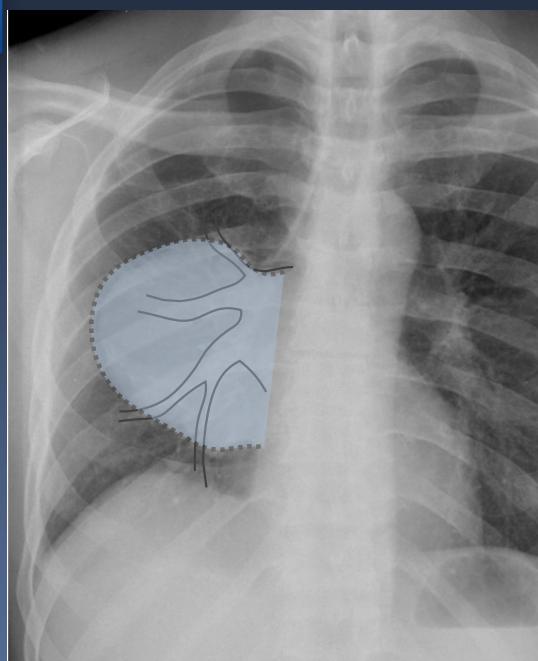


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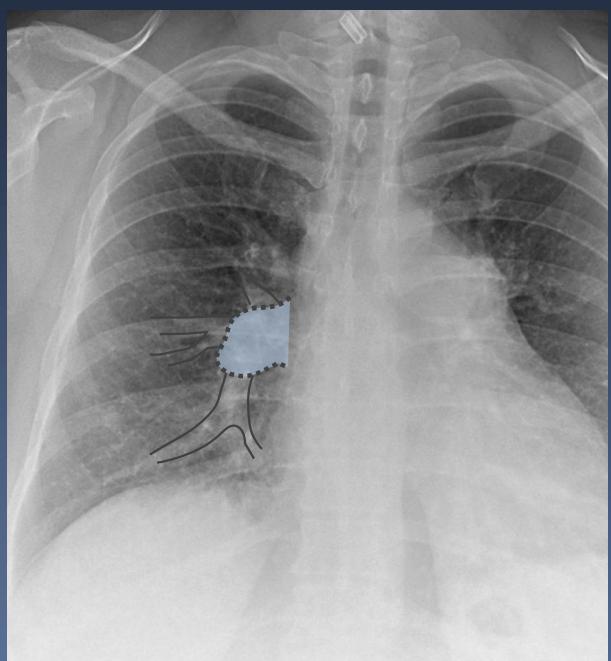


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Hilum Overlay Sign

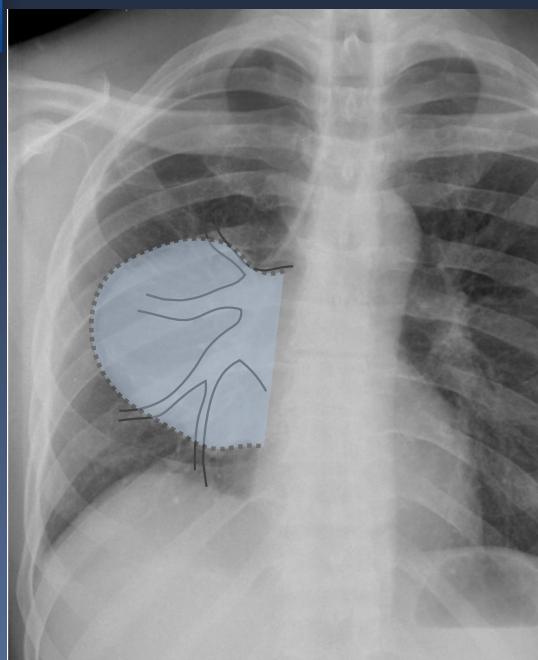


Hilum Convergence Sign

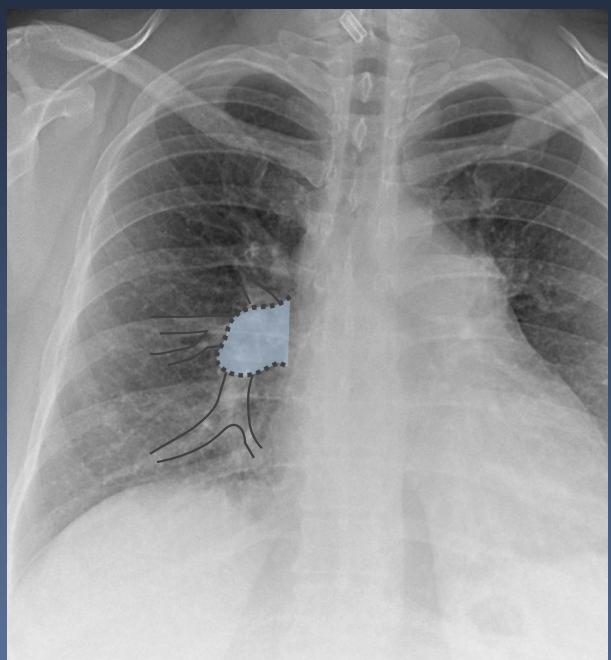


7

Hilum Overlay Sign



Hilum Convergence Sign



hilar mass

enlarged pulmonary artery

Signs in Thoracic Imaging

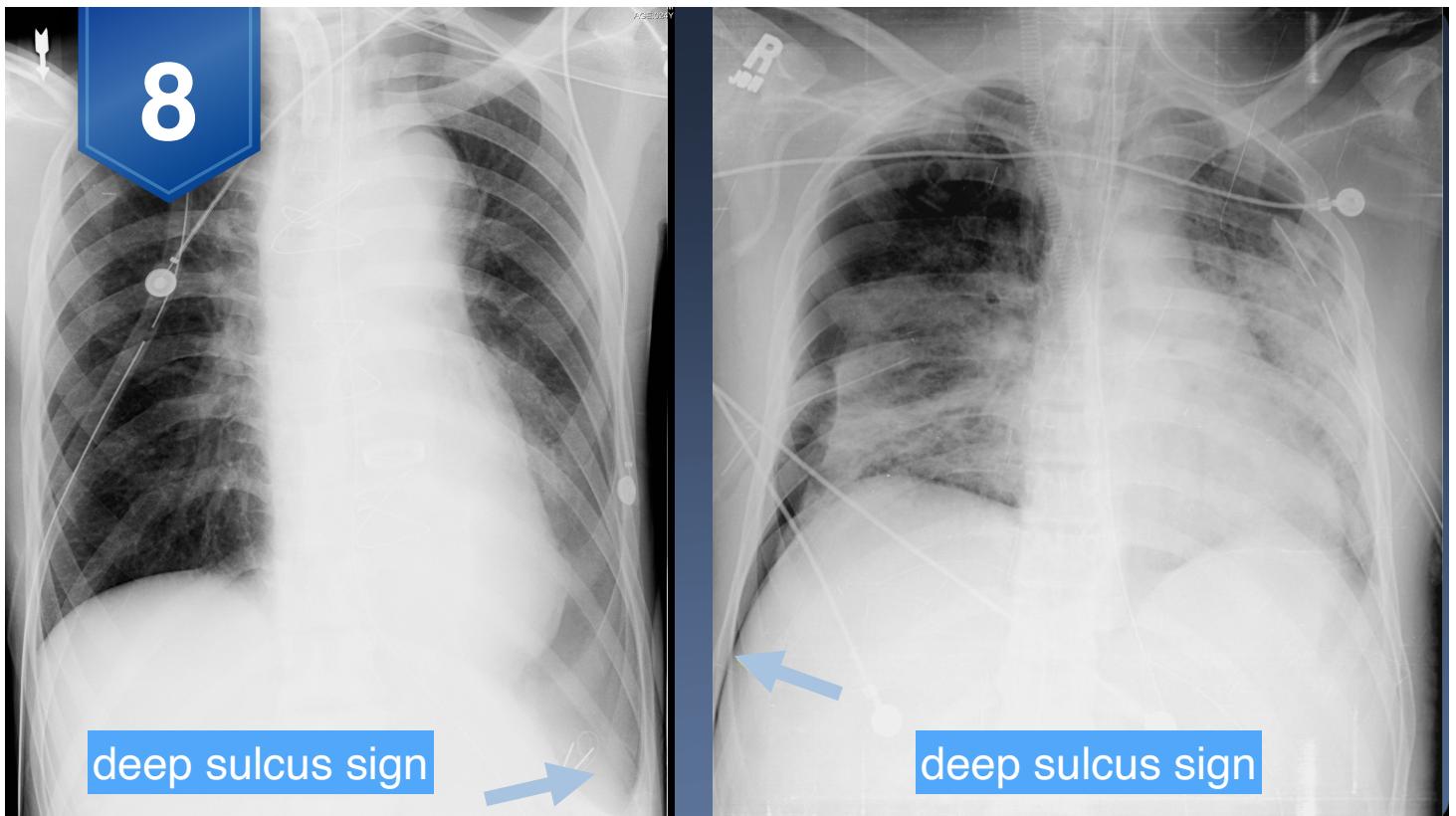
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Continous diaphragm sign	Pneumomediastinum	Pneumomediastinum Pneumopericardium
Cervicothoracic sign	Mediastinal Tumore	Anterior Mediastinum vs
Thoracoabdominal sign	Lungentumore	middle/post Mediastinum Mittellappen vs Unterlappen
Hilum overlay sign	Hilusvergrösserung	Hiläre Lymphadenopathie
Hilum convergence sign		Vasculäre Hilusvergrösserung

8



AP liegend

8



Signs in Thoracic Imaging

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Thoracoabdominal sign	Lungentumore	middle/post Mediastinum
Hilum overlay sign	Hilusvergrösserung	Hiläre Lymphadenopathie
Hilum convergence sign		Vasculäre Hilusvergrösserung
Deep Sulcus sign	Pneumothorax	Pneumothorax bei liegender Aufnahme

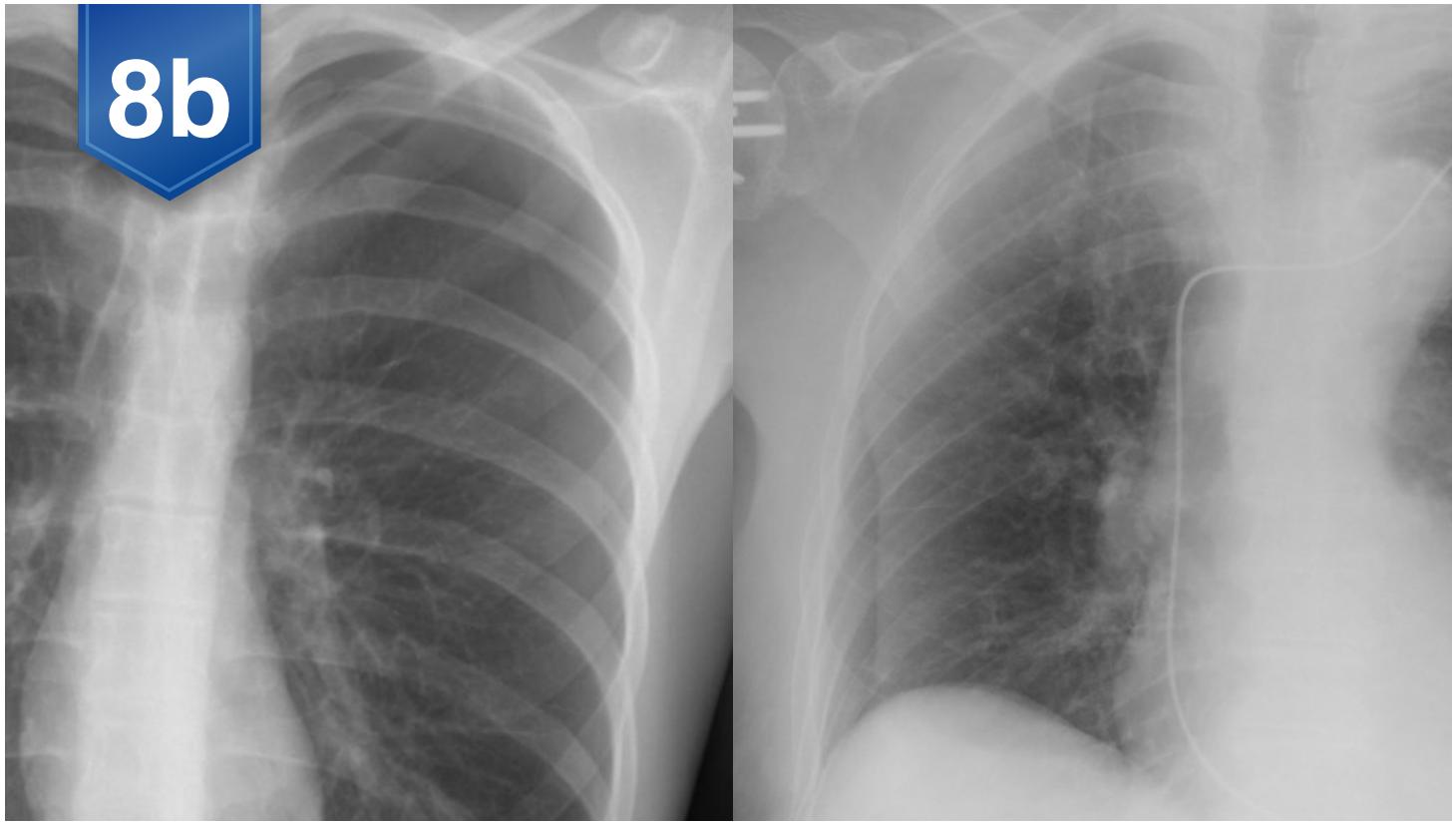
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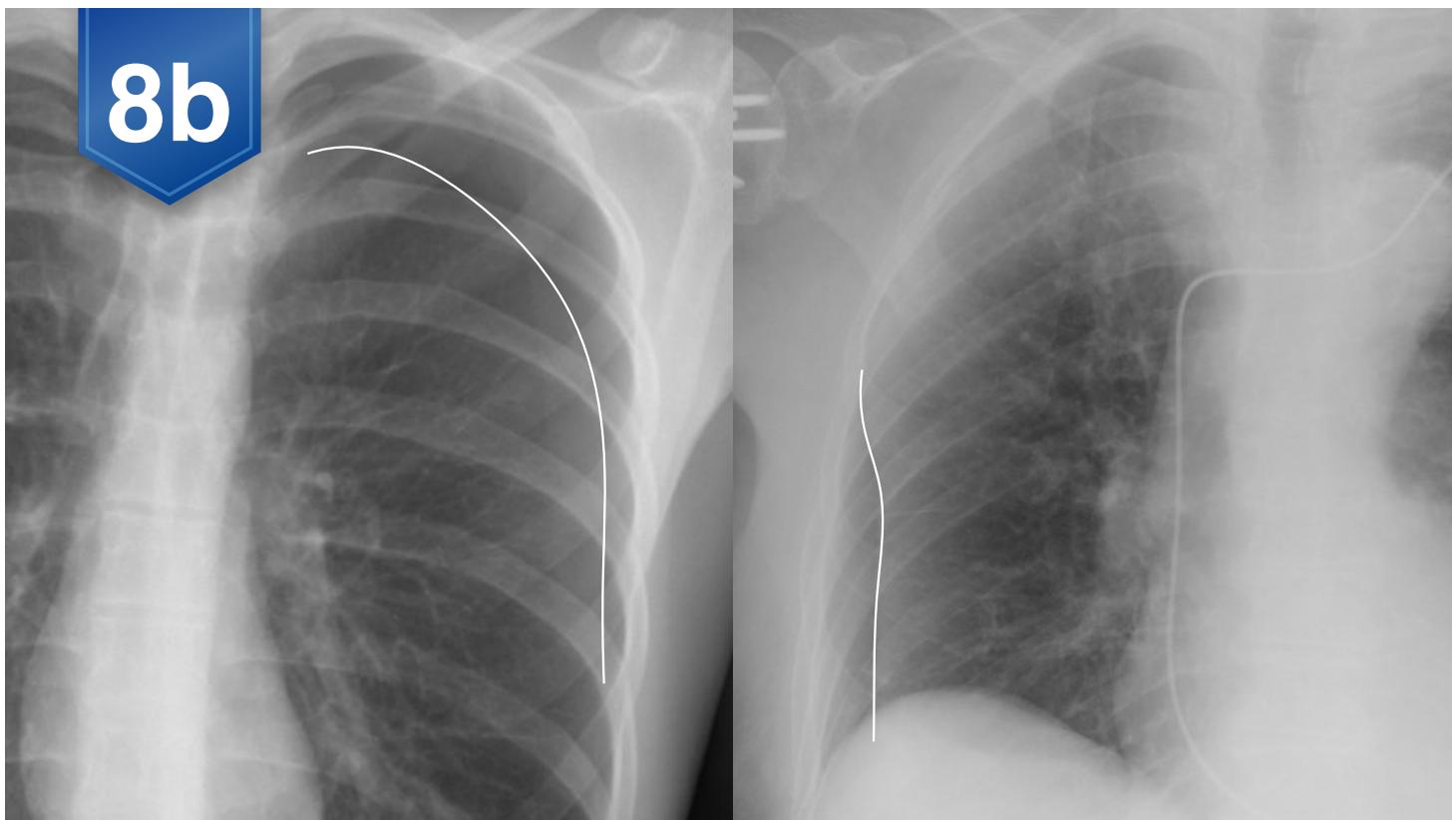
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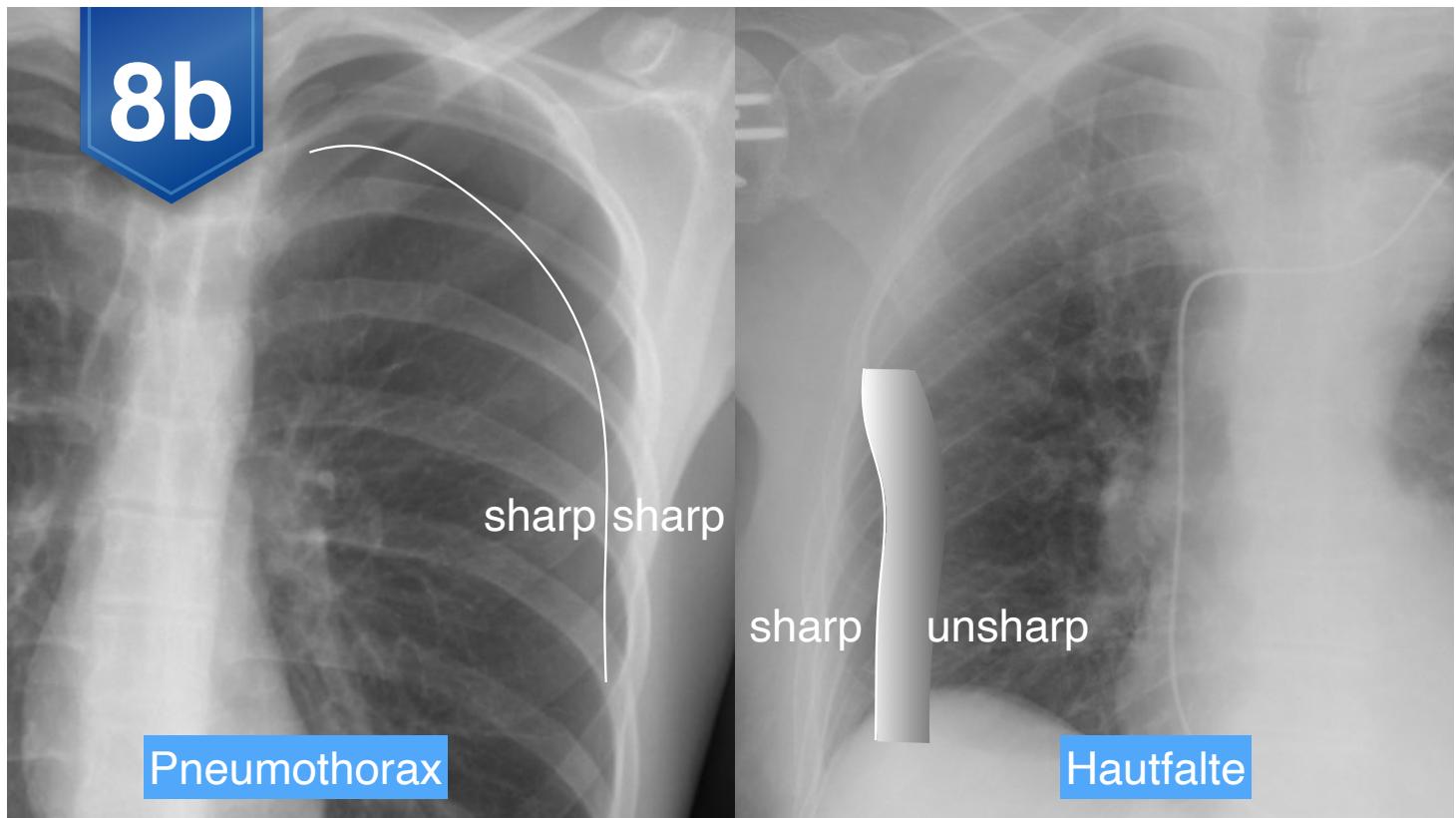
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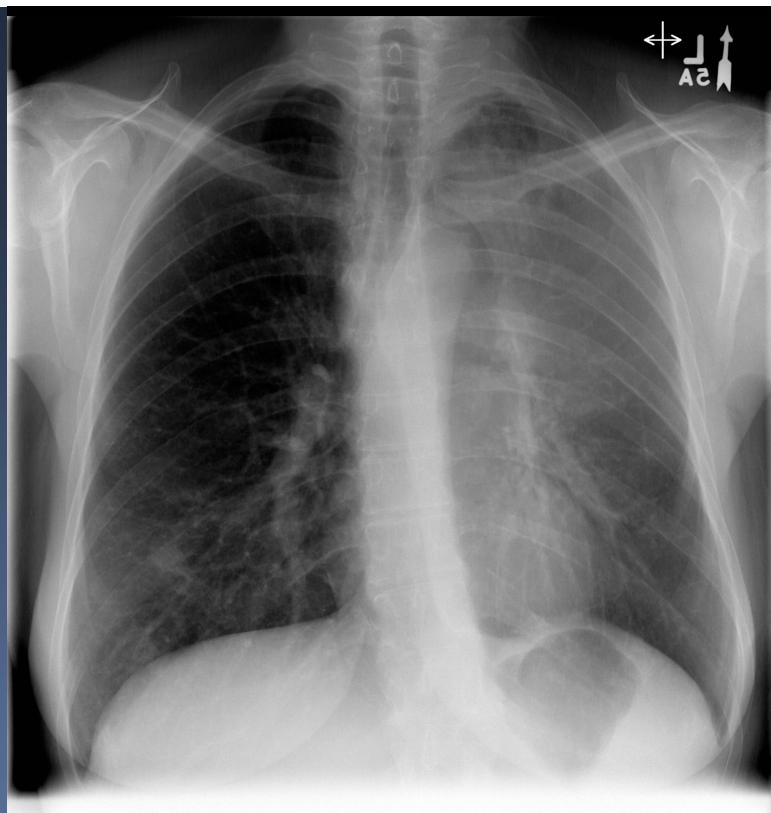
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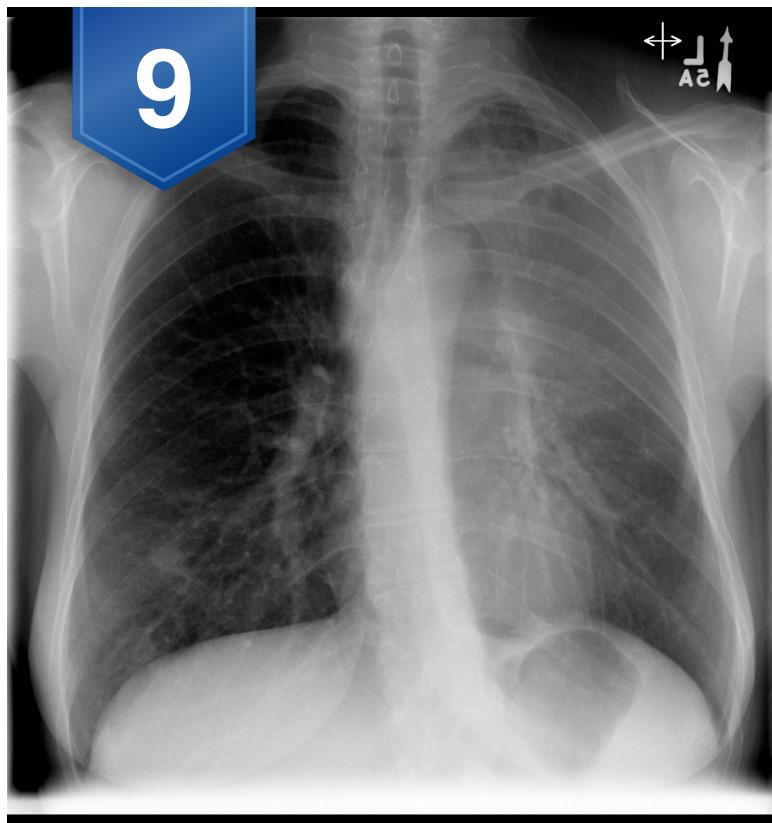
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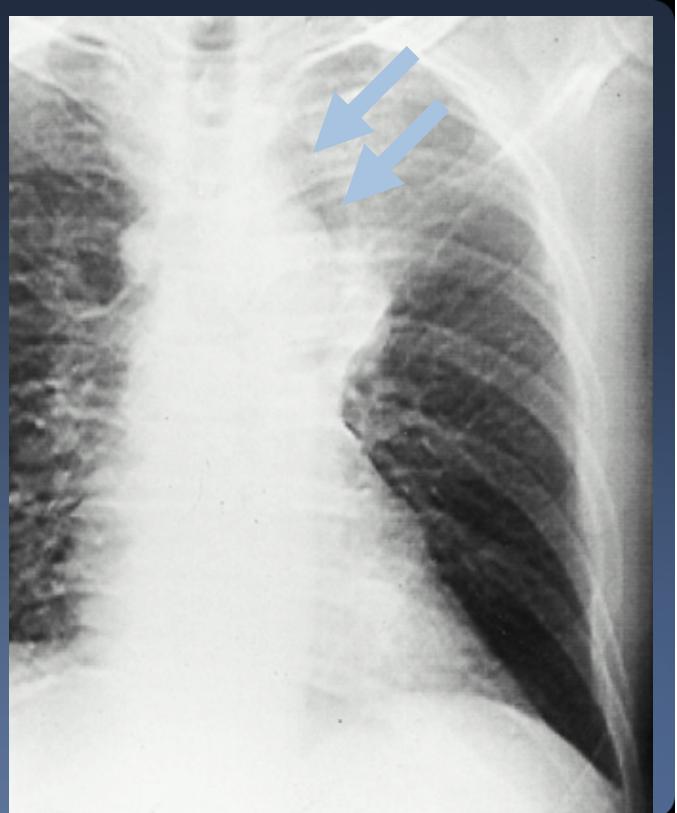
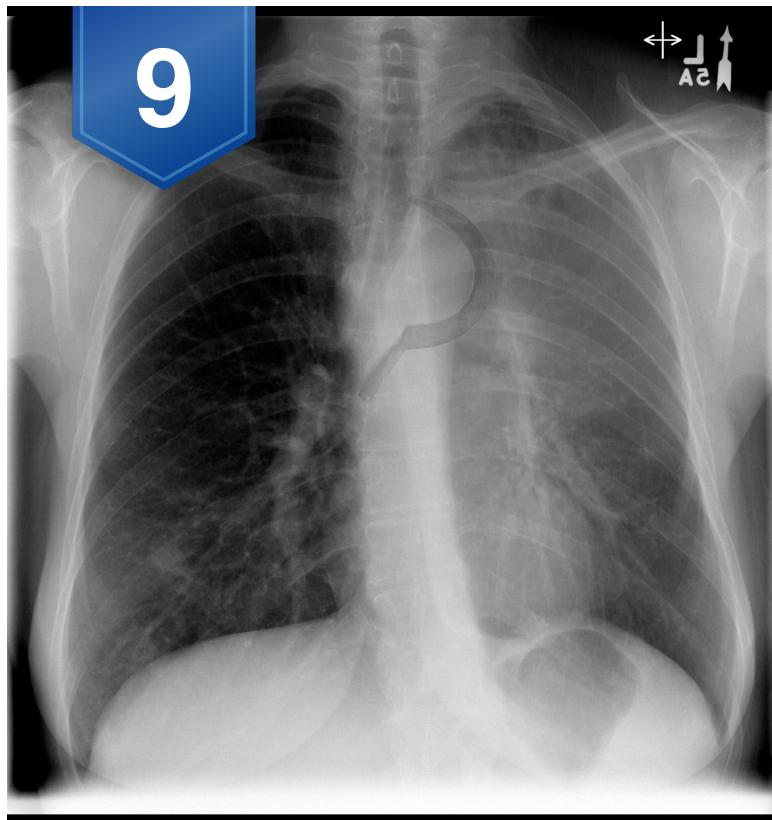
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9



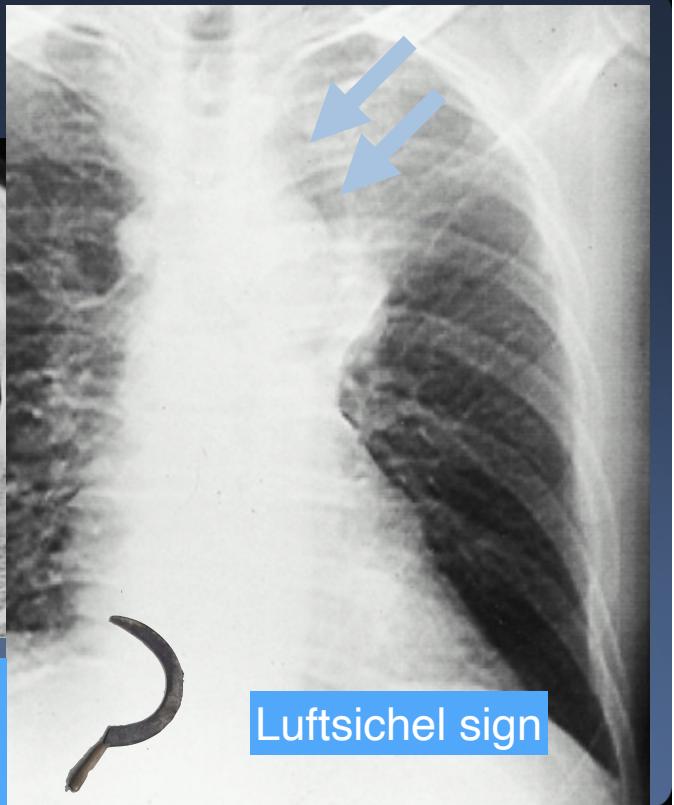
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9



Sup. Segment li Unterlappen positioniert sich zwischen Mediastinum und atelektatischem Oberlappen

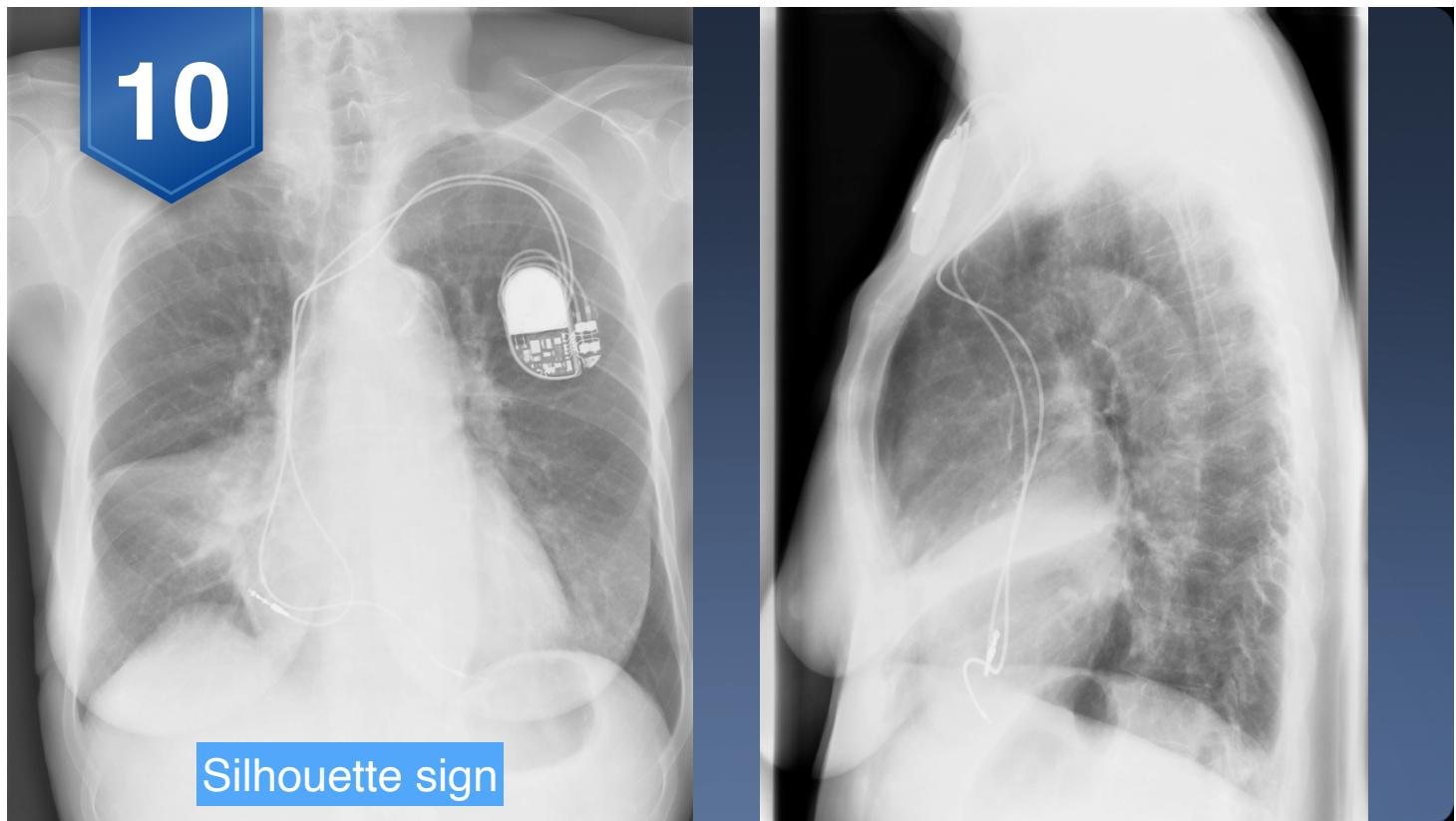


Luftsichel sign

Signs in Thoracic Imaging

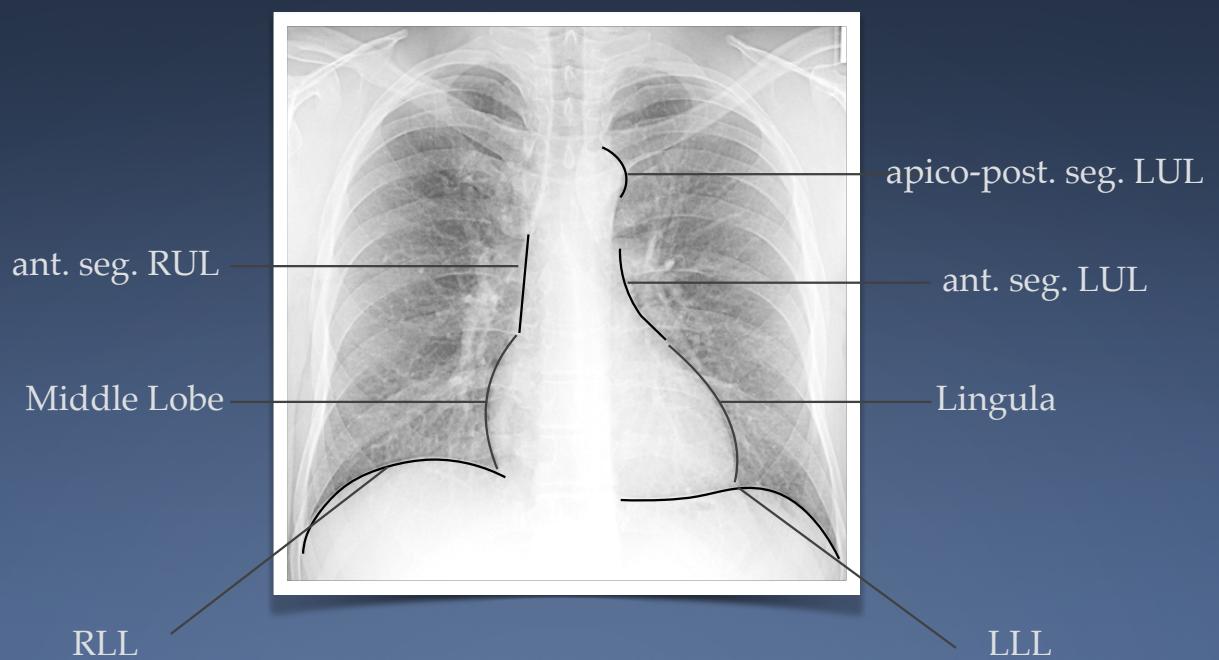
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Hilum overlay sign	Hilusvergrösserung	Hiläre Lymphadenopathie Vasculäre Hilusvergrösserung
Hilum convergence sign		
Deep Sulcus sign	Pneumothorax	Pneumothorax bei liegender Aufnahme
Luftsichelzeichen	Oberlappenatelektase	Atelektase versus Erguss

10



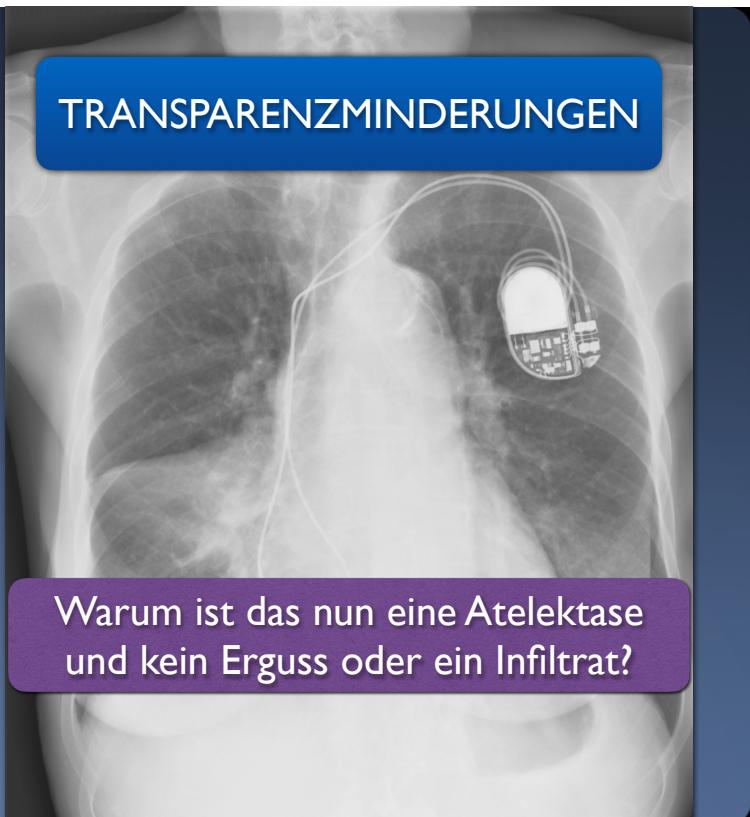
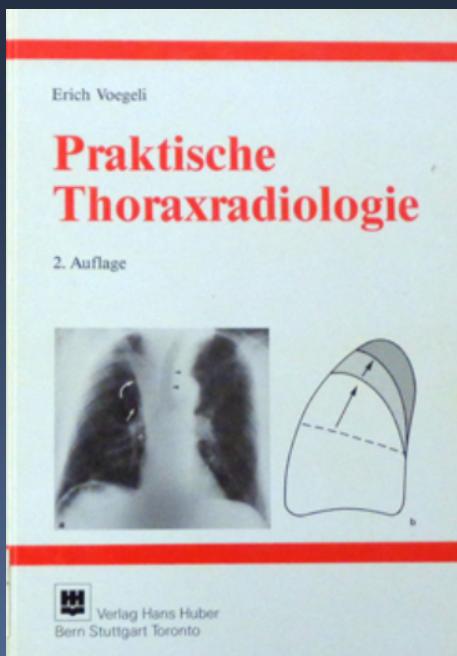
Silhouette sign

Silhouette sign



Signs in Thoracic Imaging

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Hilum overlay sign	Hilusvergrösserung	Hiläre Lymphadenopathie
Hilum convergence sign		Vasculäre Hilusvergrösserung
Deep Sulcus sign	Pneumothorax	Pneumothorax bei liegender Aufnahme
Luftsichelzeichen	Oberlappenatelektase	Atelektase versus Erguss
Silhouetten Zeichen	Lokalisation Prozess	Re Vorhof = ML li Ventrikel = Lingula Zwerchfell = UL



TRANSPARENZMINDERUNG

HOMOGEN

Total Atelektase

Flüssigkeit (Erguss, Blut, Pus)

Fleisch (Tumor)

HETEROGEN

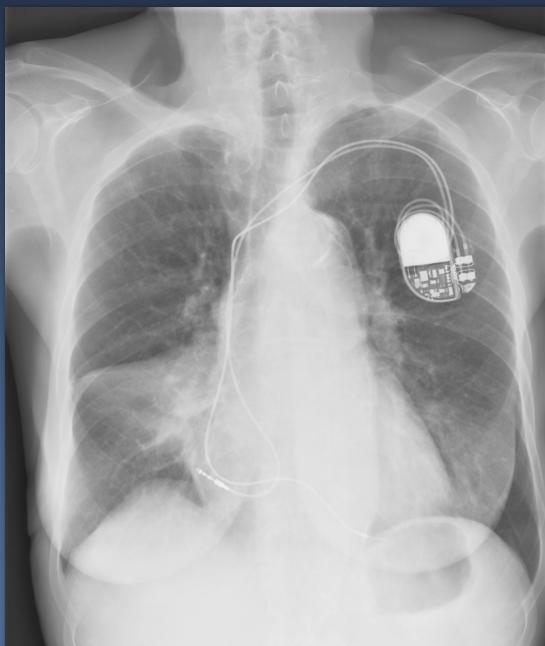
Teil Atelektase

Infiltrat (Pneumonie)

Ödem, uvm

HOMOGEN

HETEROGEN



HOMOGEN

Total Atelektase



Flüssigkeit (Erguss, Blut, Pus)



Fleisch (Tumor)



HETEROGEN

Infiltrat (Pneumonie)



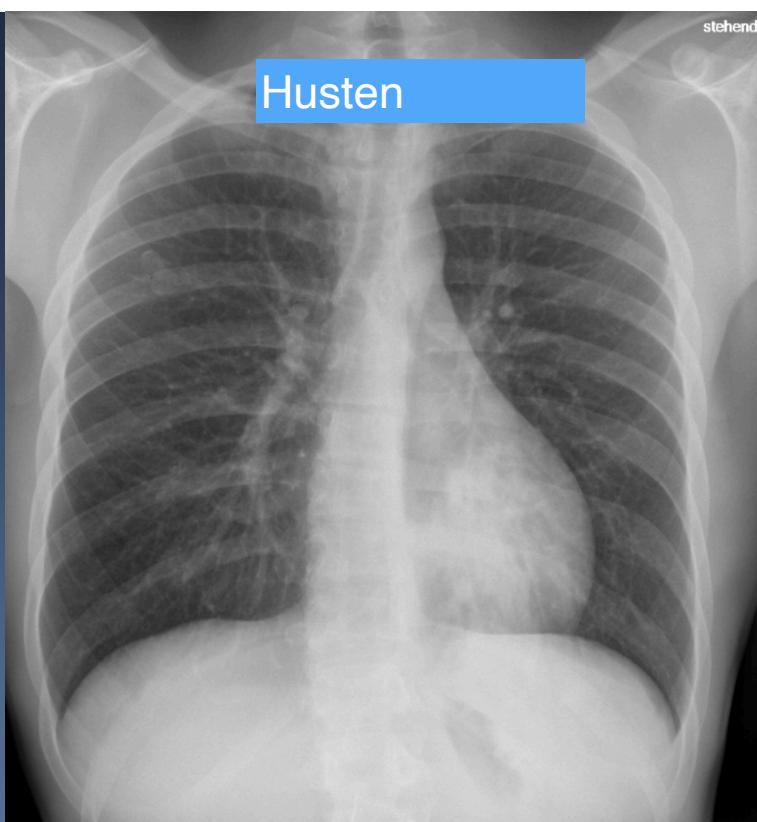
Ödem, uvm



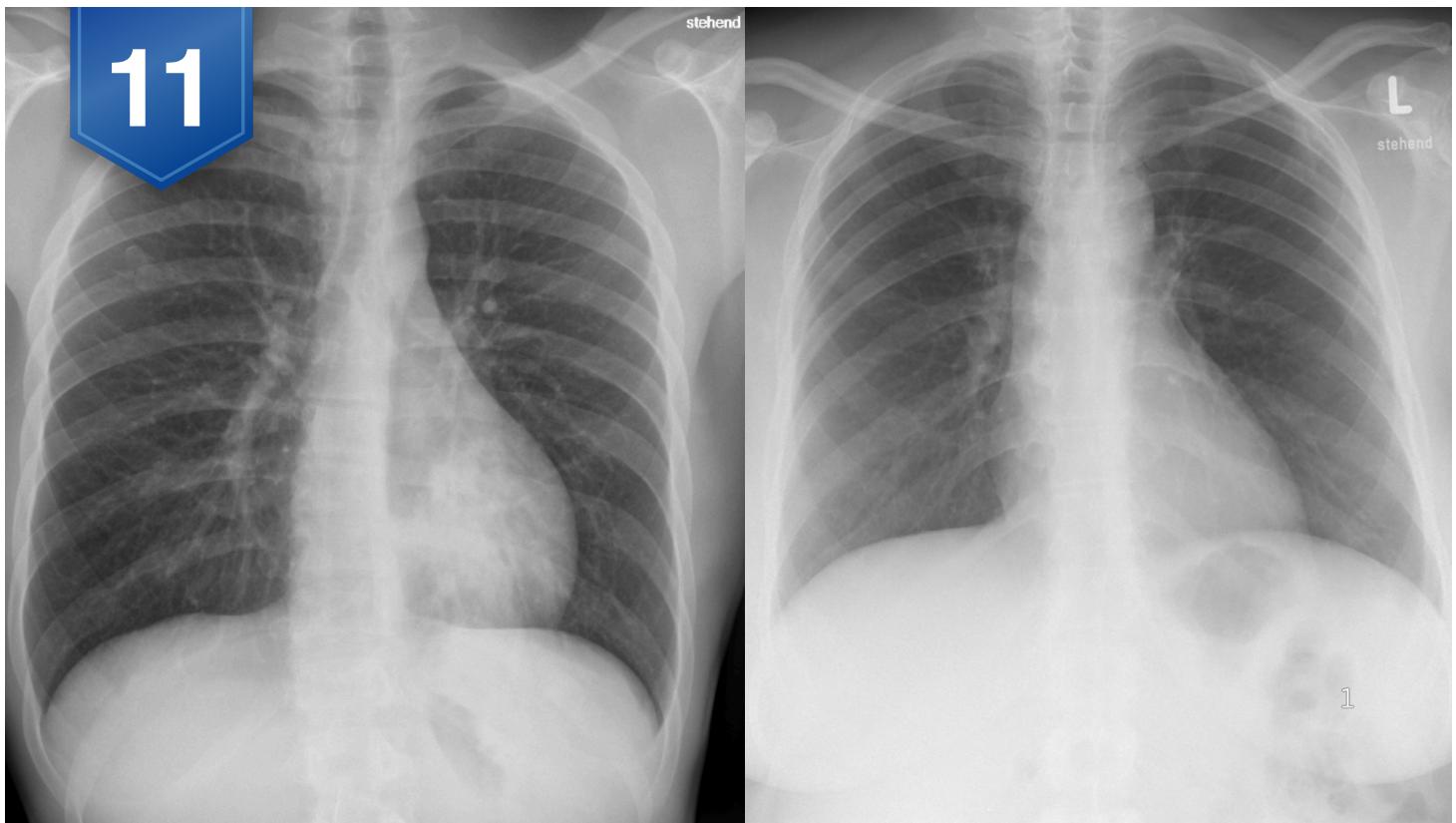
etc...

11

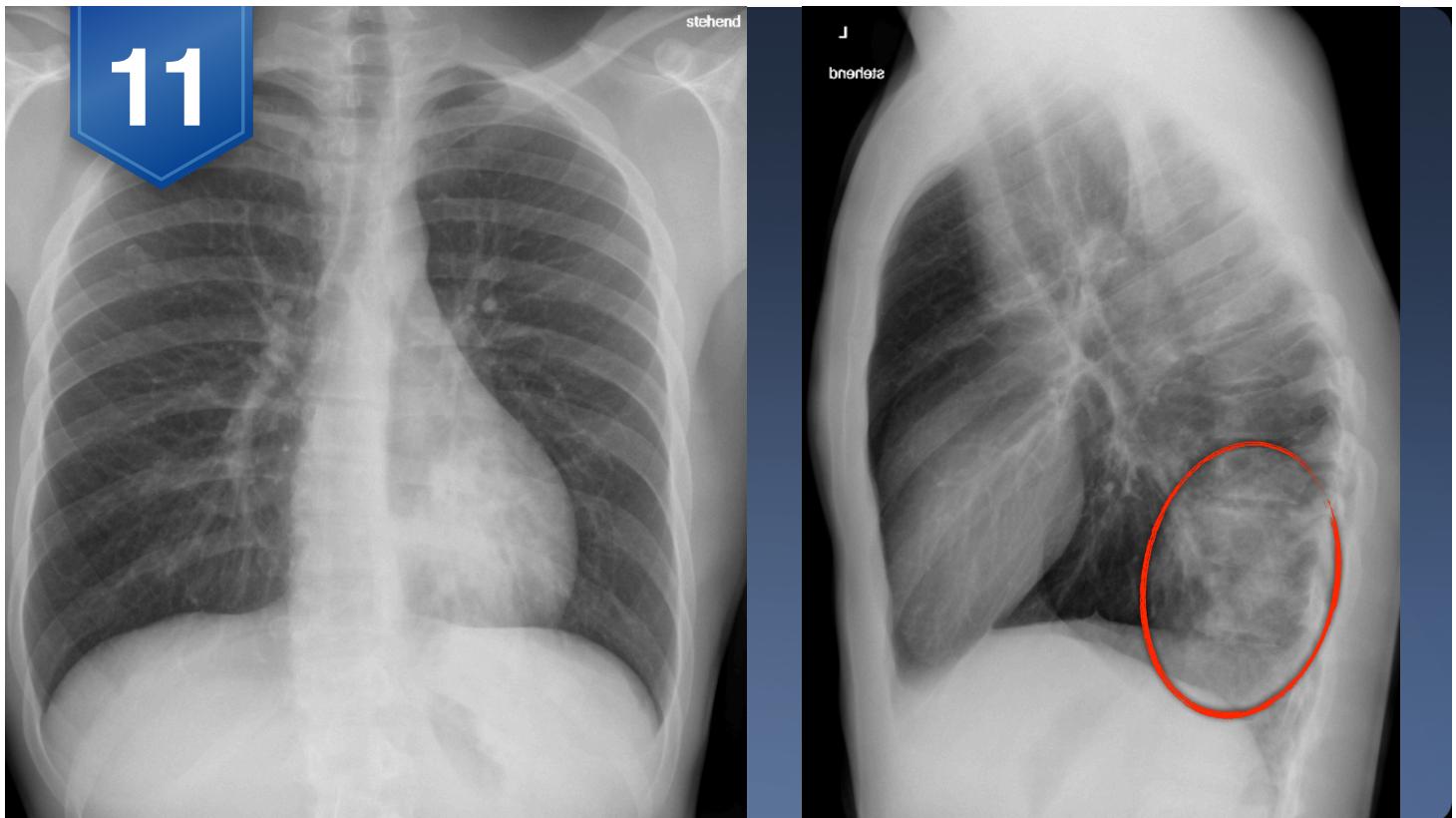
Husten

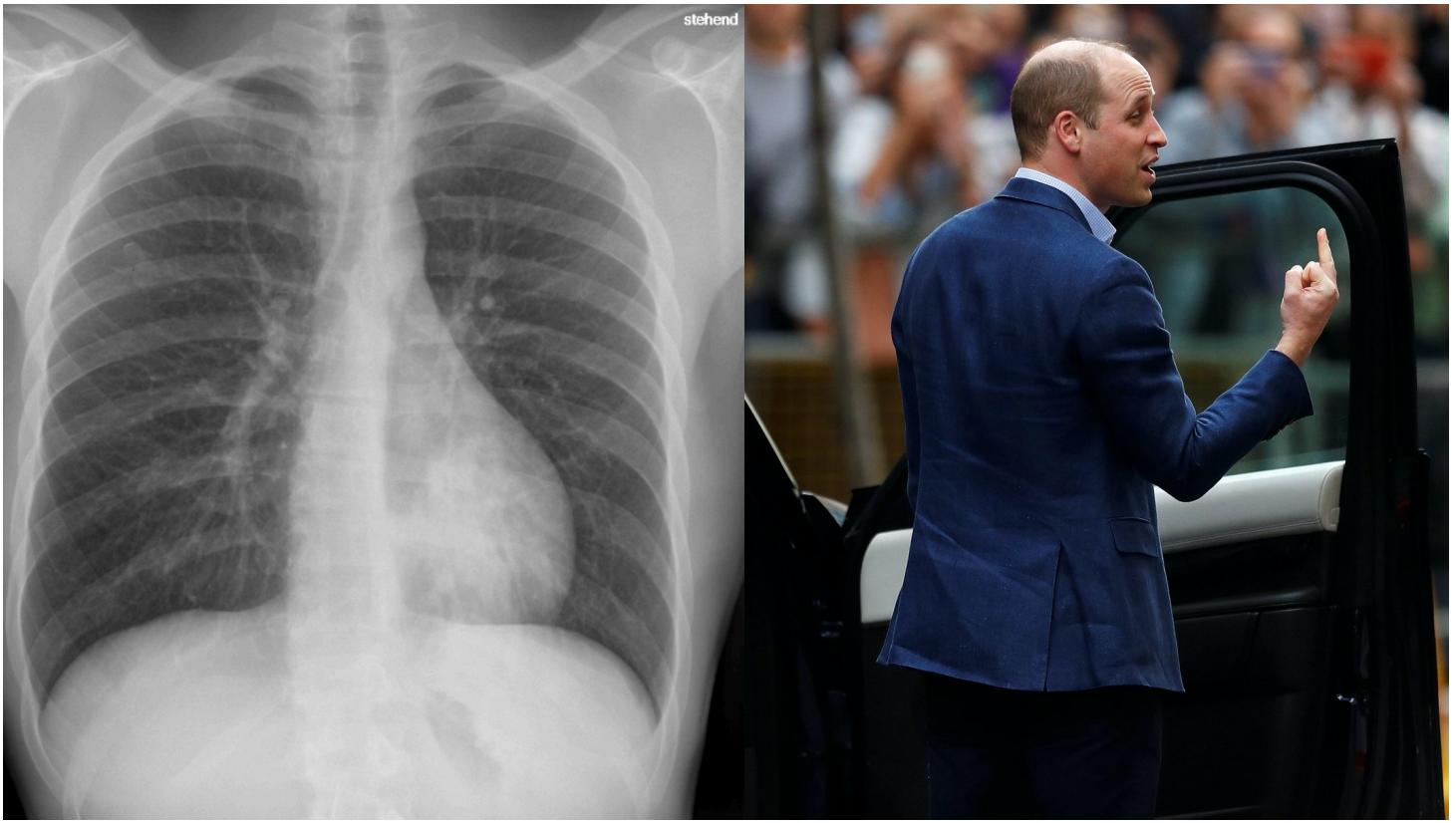


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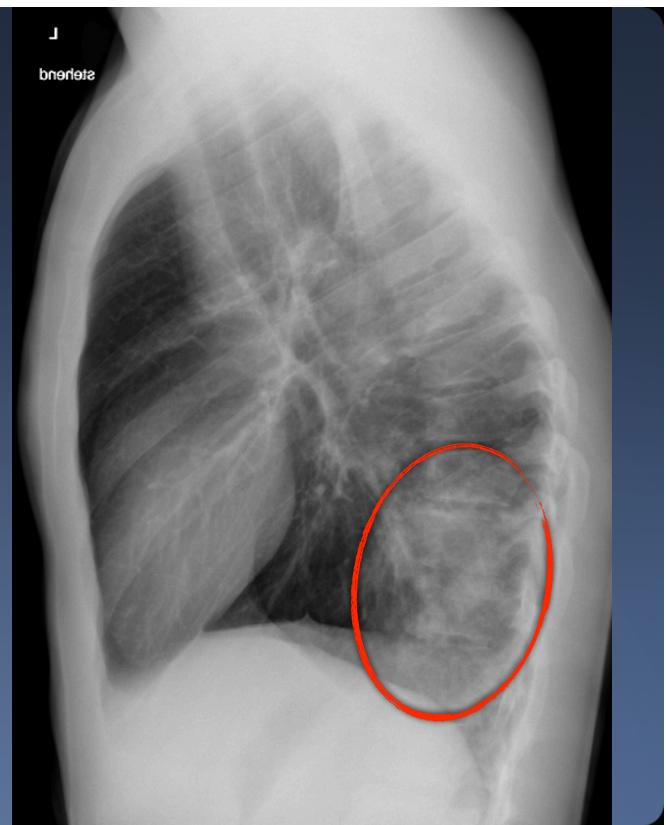
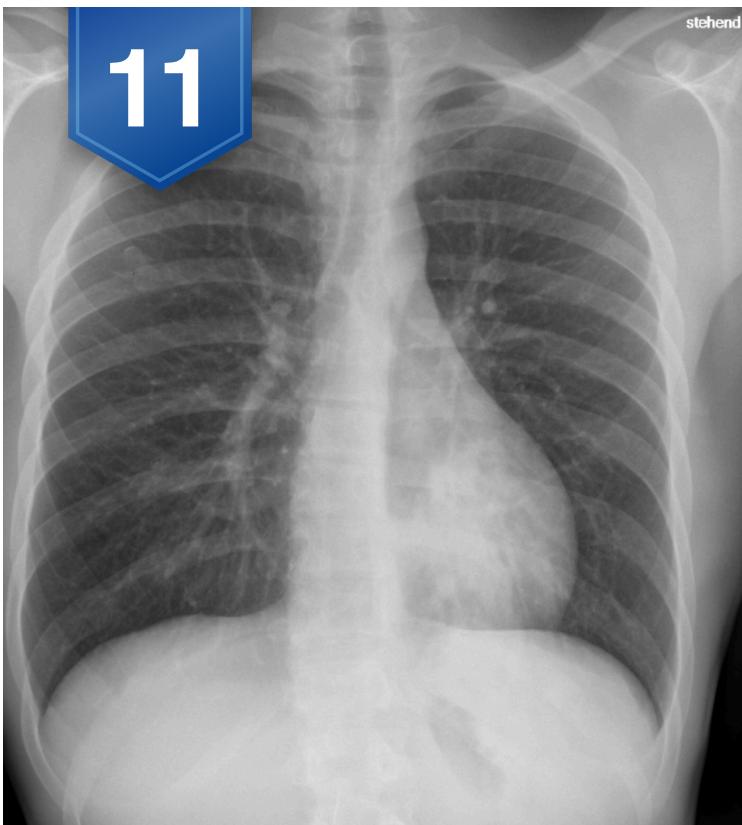
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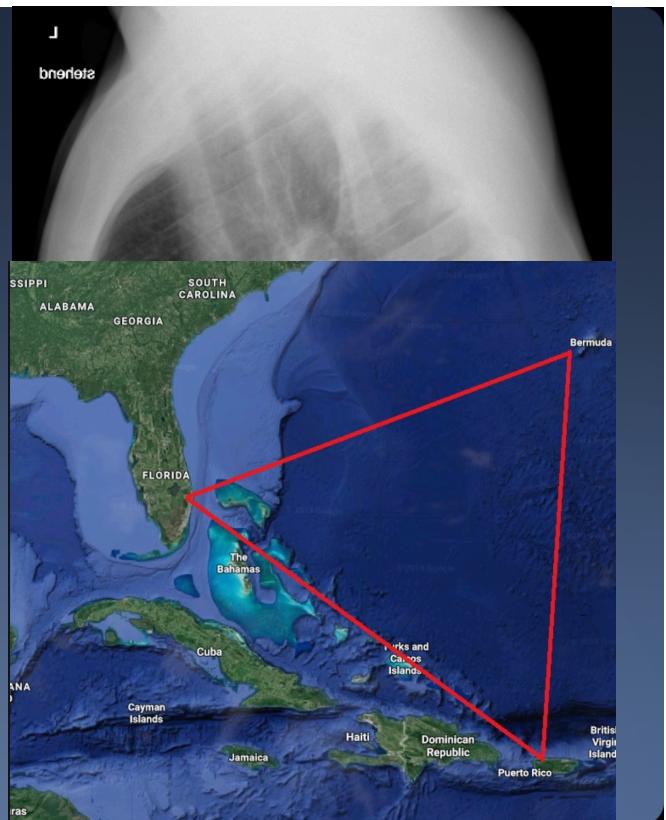
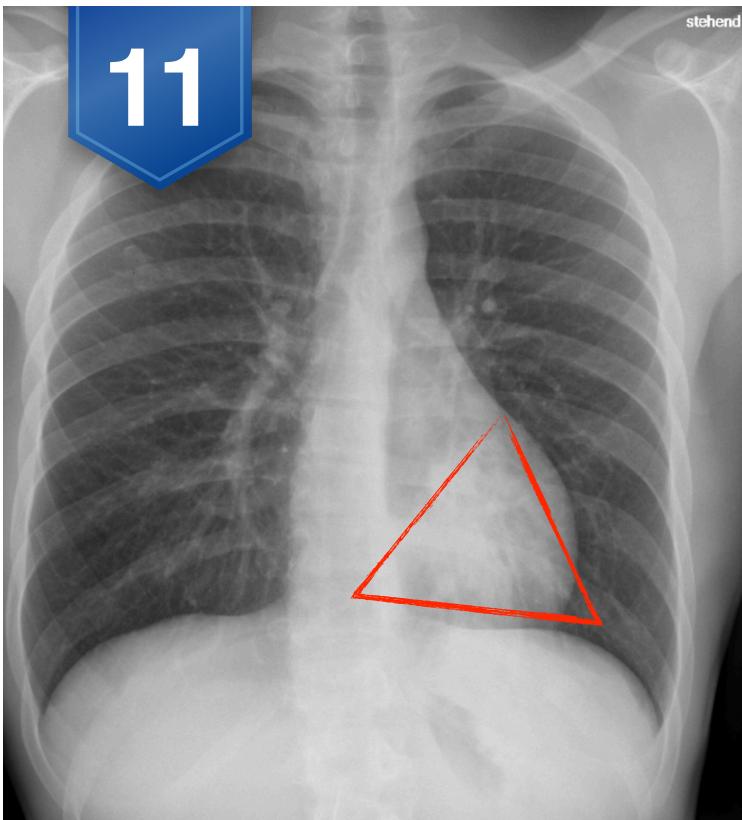


Immer wenn möglich in 2 Ebenen
...gilt auch für Prinz Andrew...

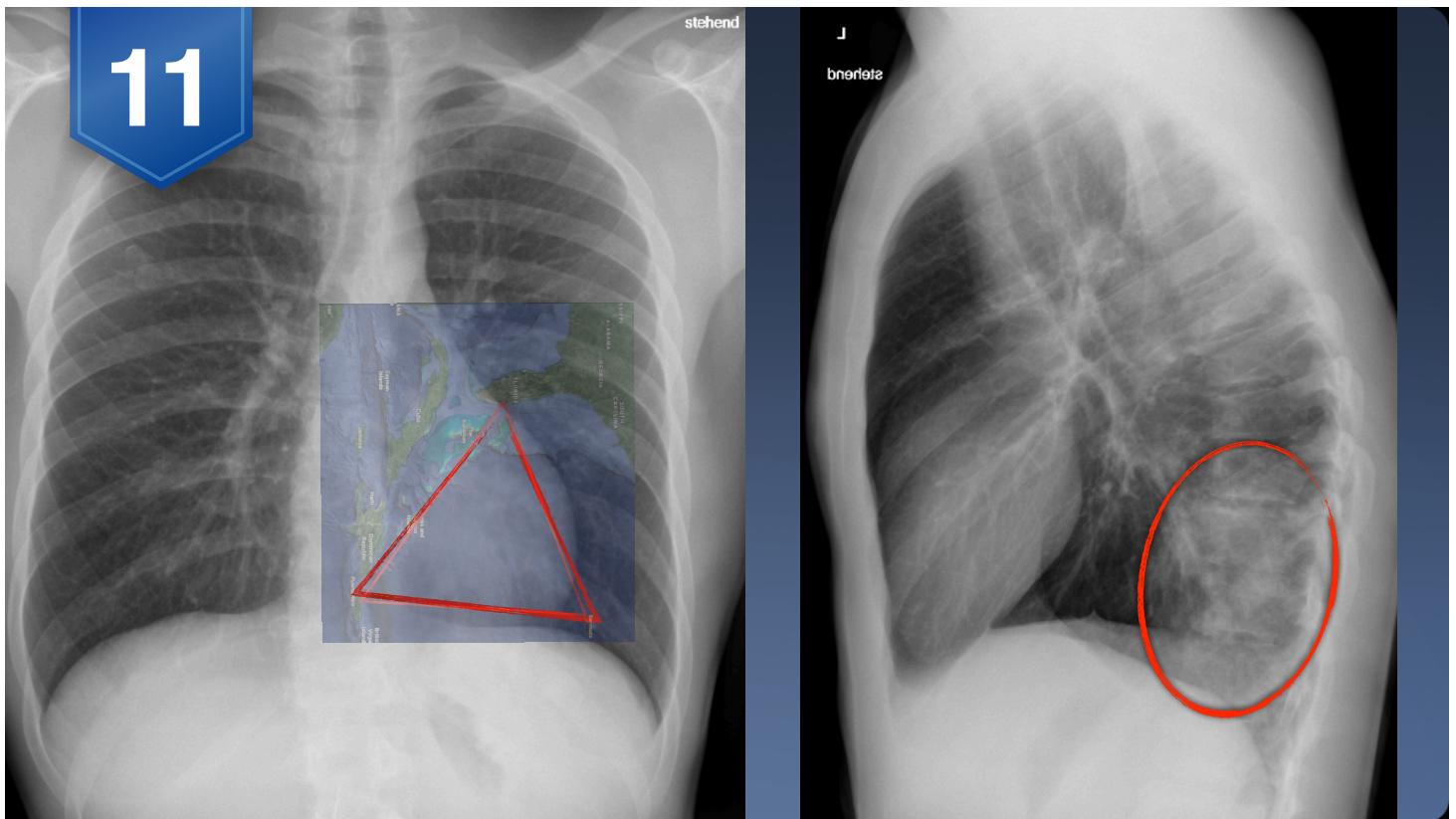
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11



11



Signs in Thoracic Imaging

Zeichen	Typisch für	Differentialdiagnose
Spine Sign	Prozess im UL	retrocardiale Transparenzminderung
"Bermuda" Dreieck	Retrocardiale Transparenzminderung	don't forget