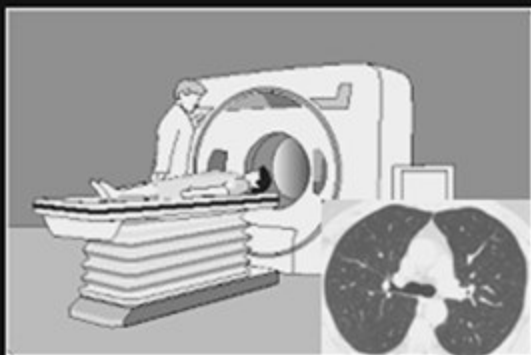


RADYOLOJİ KİŞ OKULU 2019

4 -10 Şubat 2019
Mirage Park Otel, Antalya





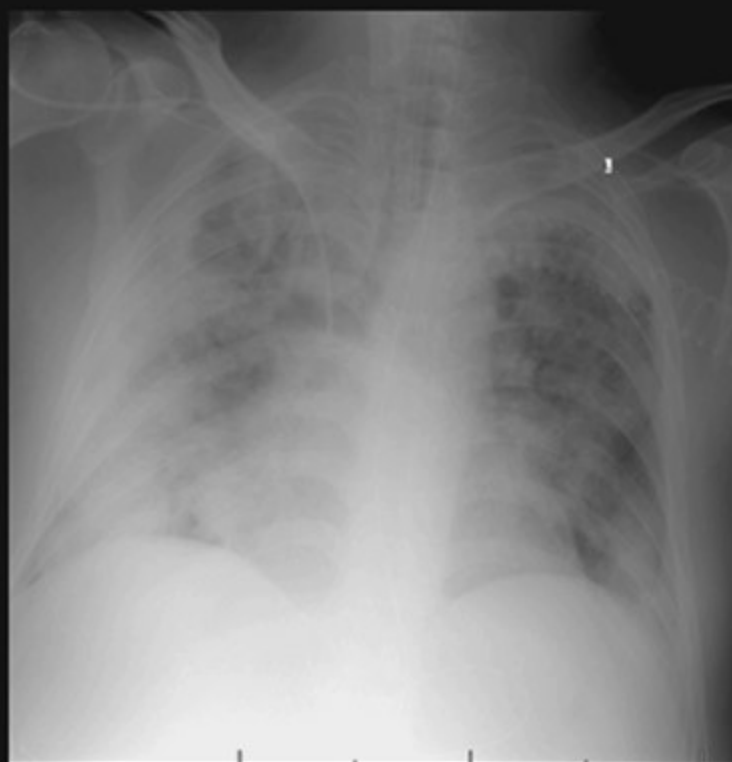
BT' de Kesitsel Anatomi & Sık Görülen Varyasyonlar



Dr. N. Sinem Gezer

Dokuz Eylül Üniversitesi Tıp Fakültesi Radyoloji Anabilim Dalı
drsinemgezer@gmail.com

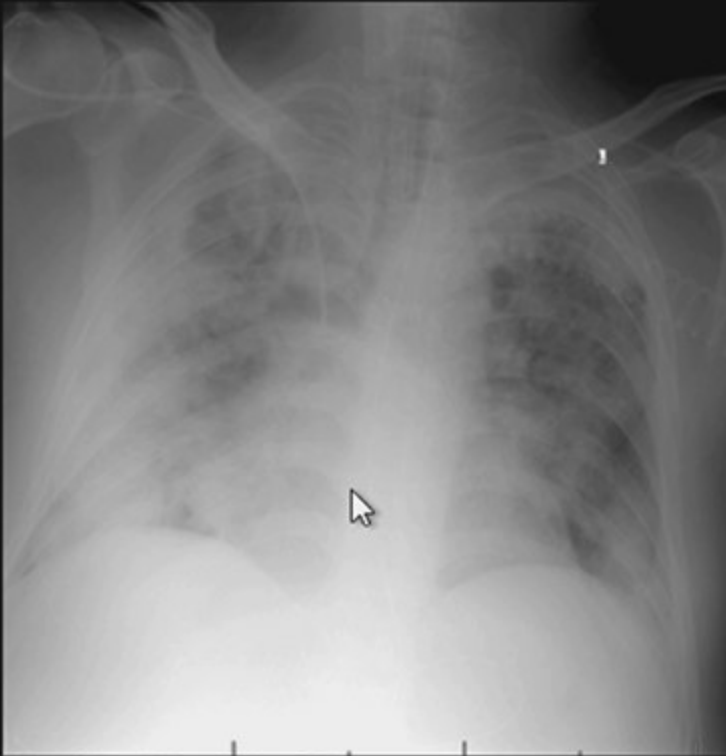
Akciğer grafisi



Akciğer grafisi



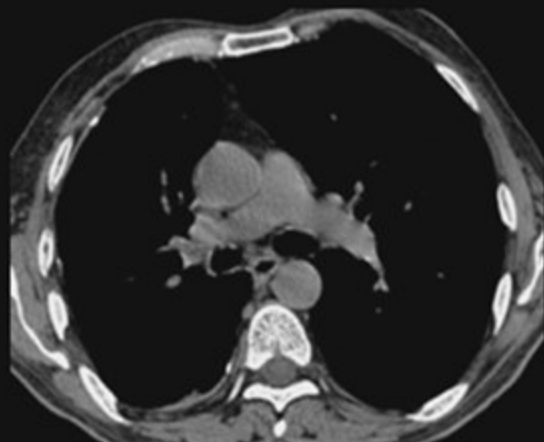
Bilgisayarlı tomografi



BİLGİSAYARLI TOMOGRAFI



- Kontrastlı BT
- Kontrastsız BT
- Düşük doz BT
- YÇBT
- Düşük doz YÇBT
- BT Anjiyografi



BİLGİSAYARLI TOMOGRAFİ

- Yumuşak doku penceresi
 - Hava yolu
 - Kalp ve ana vasküler yapılar
 - Lenf nodları
 - Diğer mediastinal yapılar
(tiroid, timus, özefagus,...)
 - Toraks duvarı yumuşak dokuları
- Parankim penceresi
 - Akciğer parankimi
 - Fissürler
 - Bronş ağacı ve segmental anatomi
- Kemik penceresi



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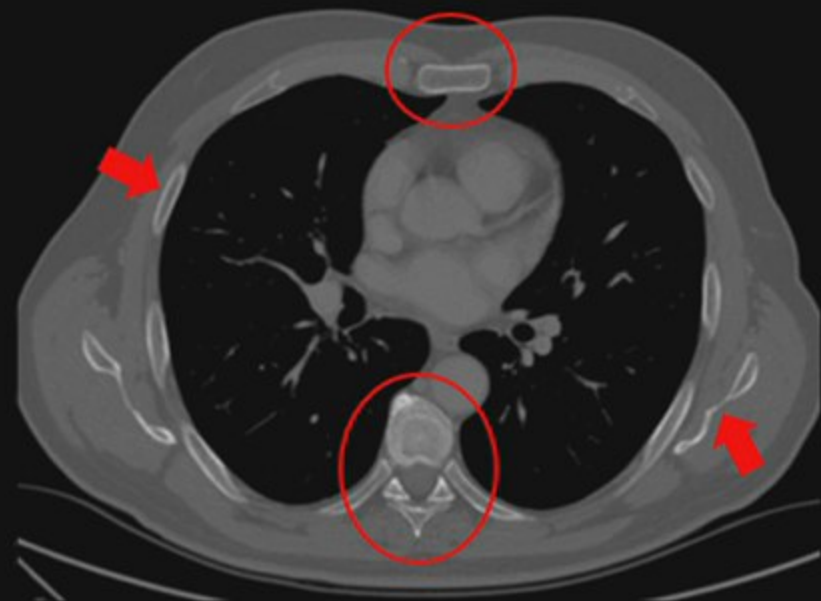
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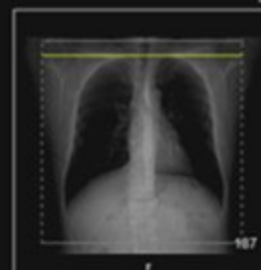


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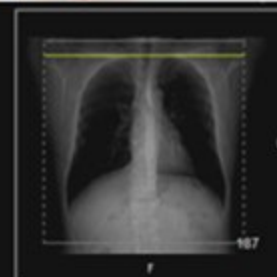
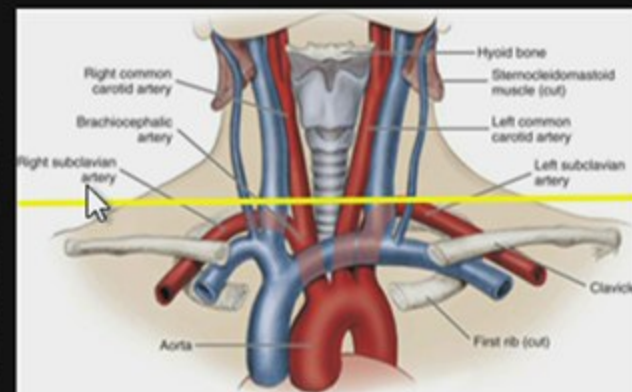
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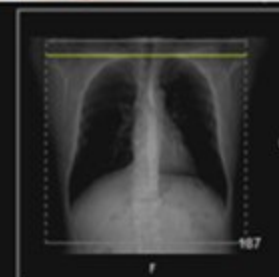
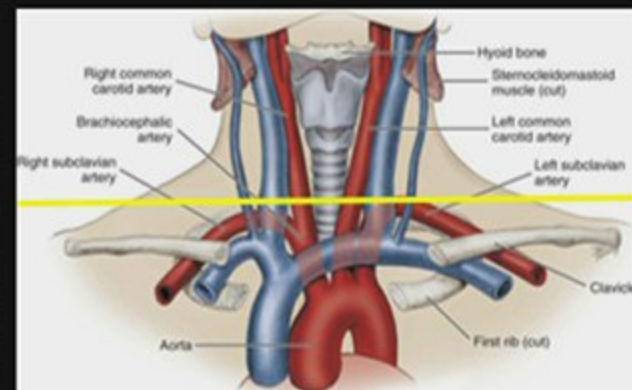
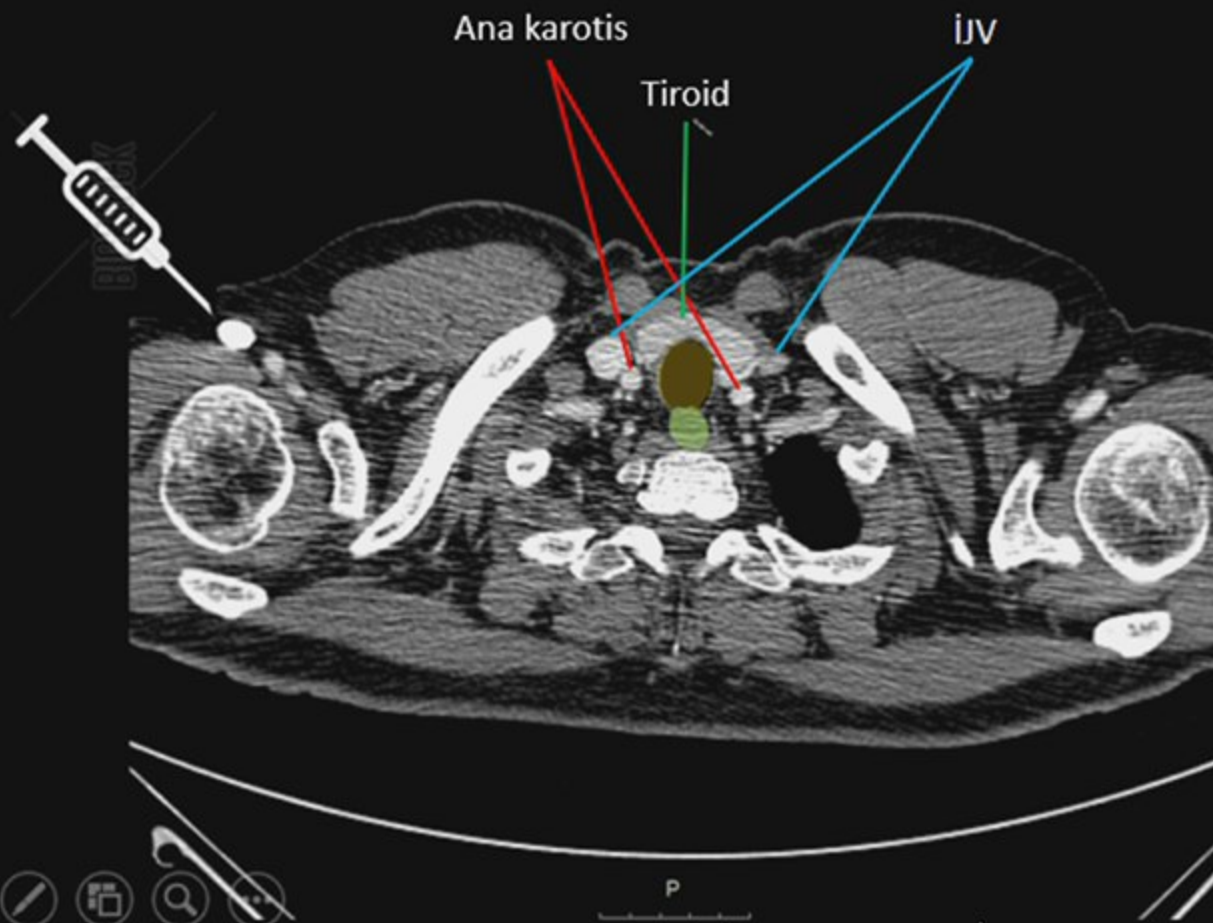


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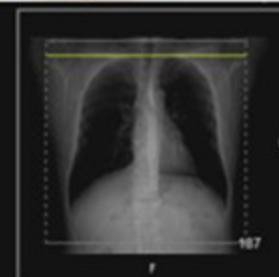
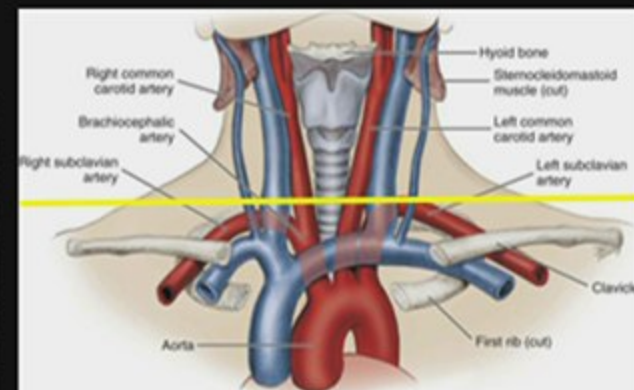
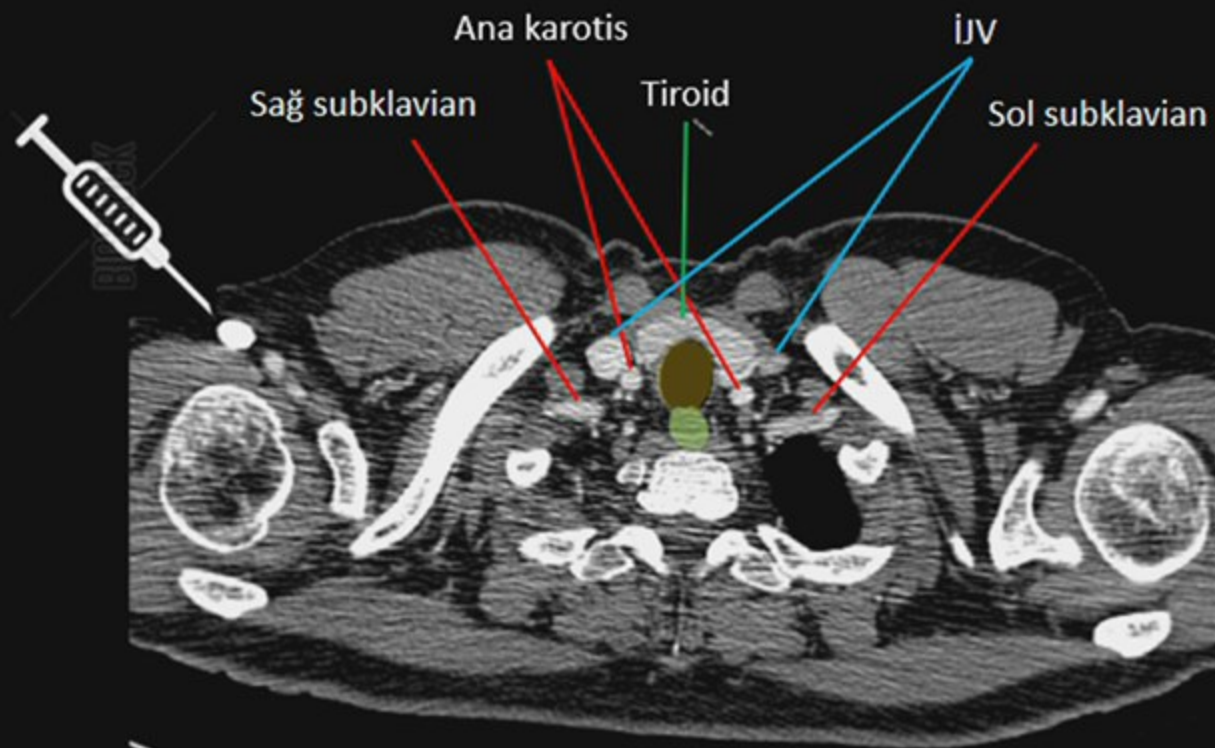
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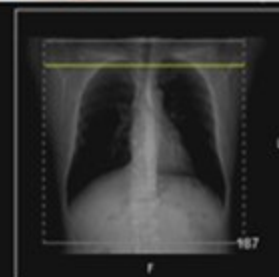
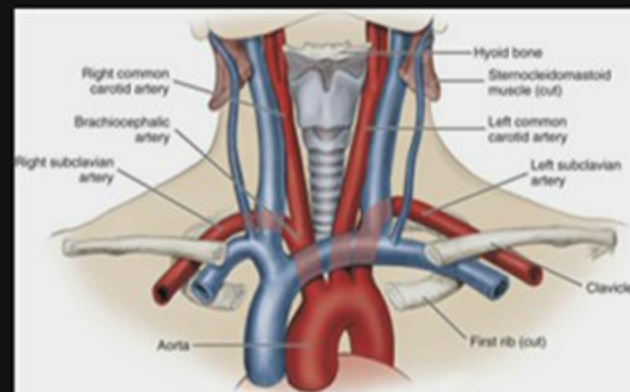
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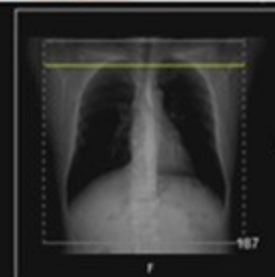
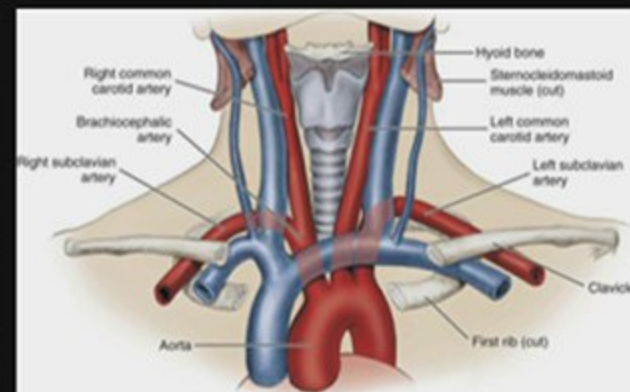
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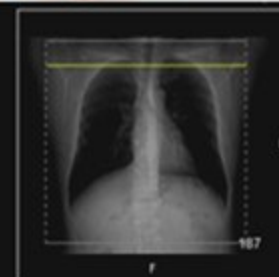
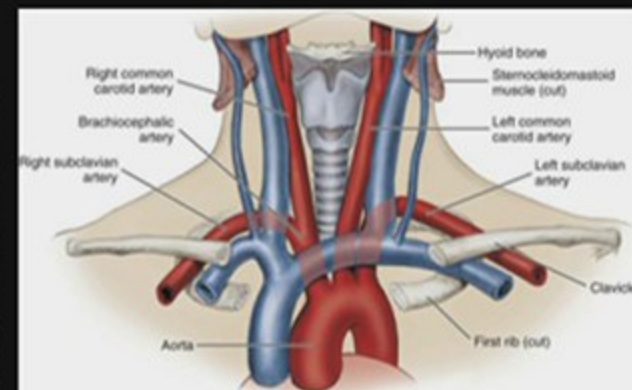
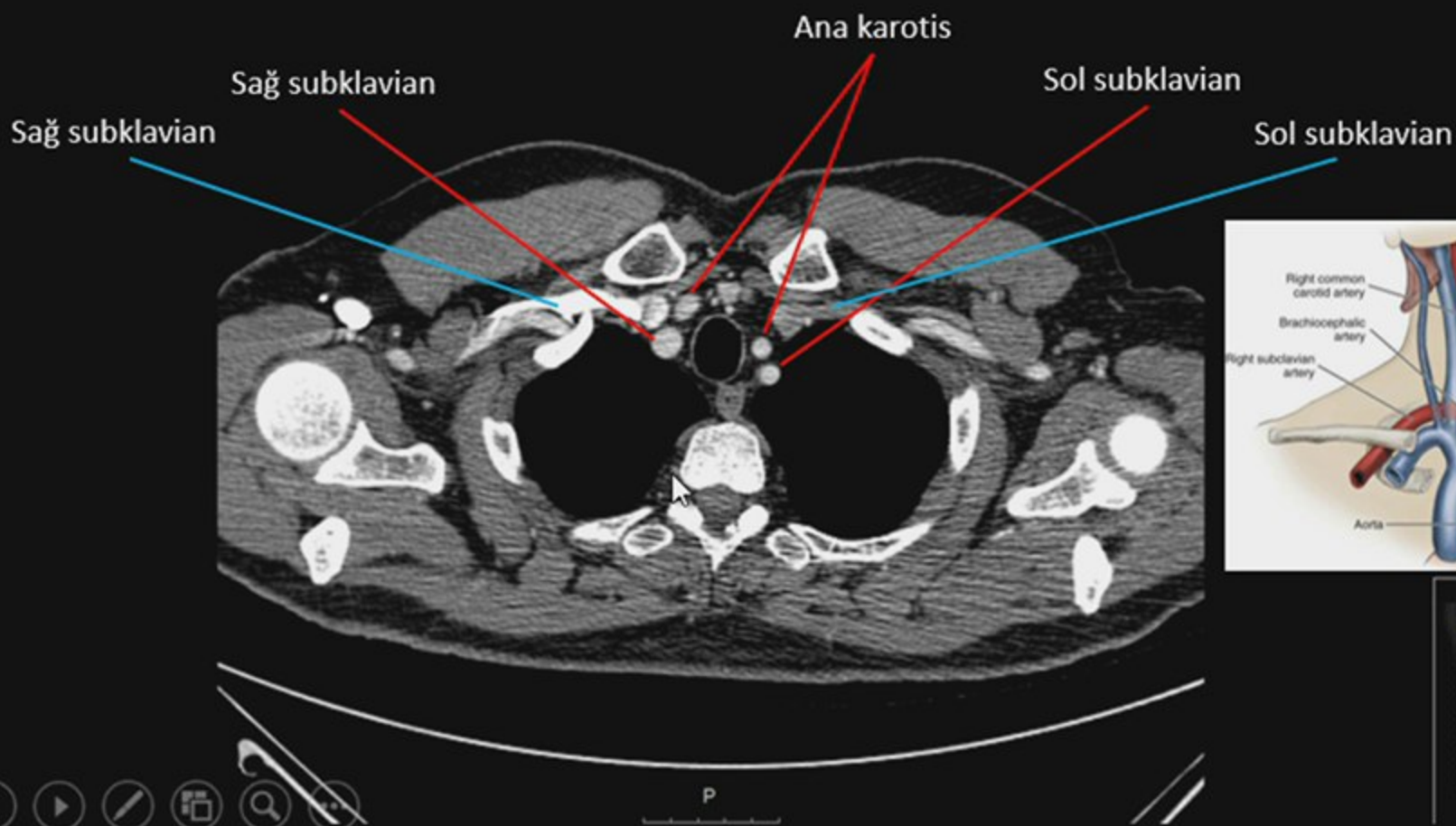
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Sağ subklavian

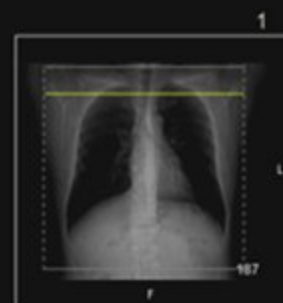
Sol subklavian



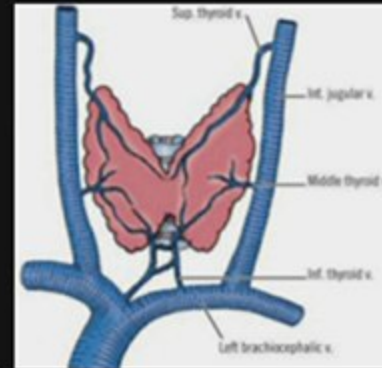
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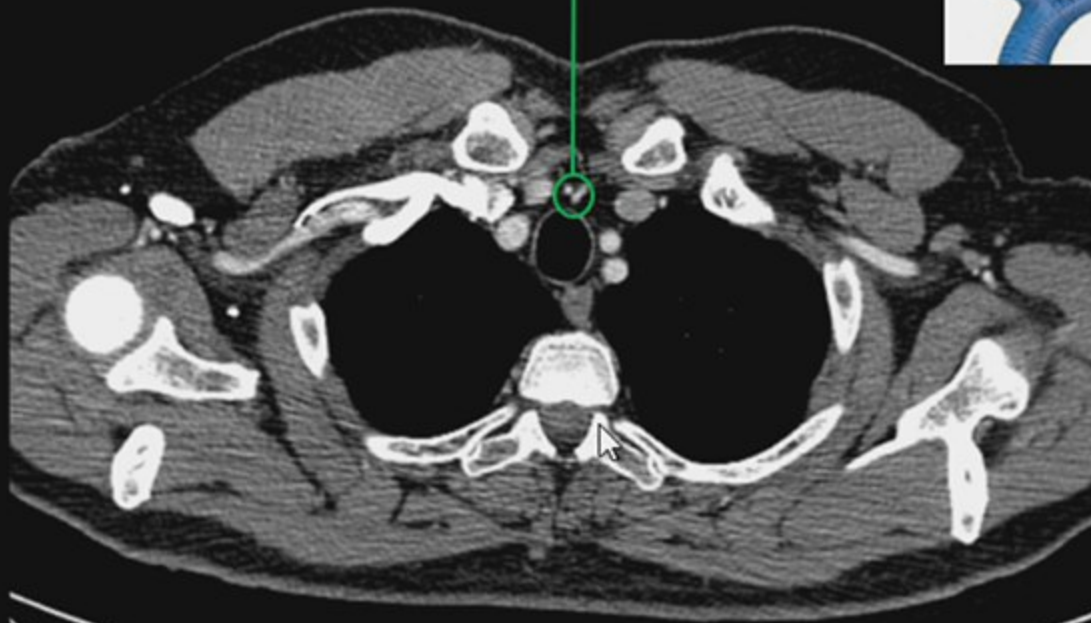
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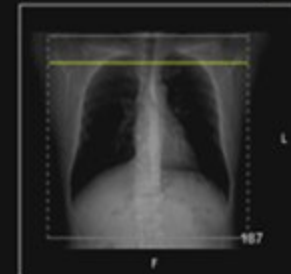
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Tiroidal venler



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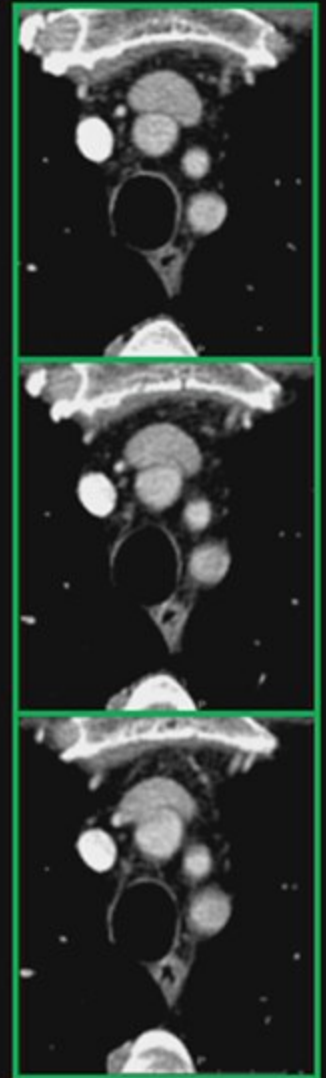
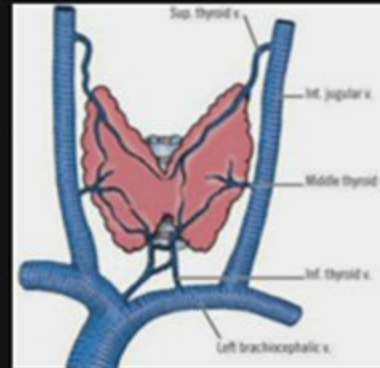
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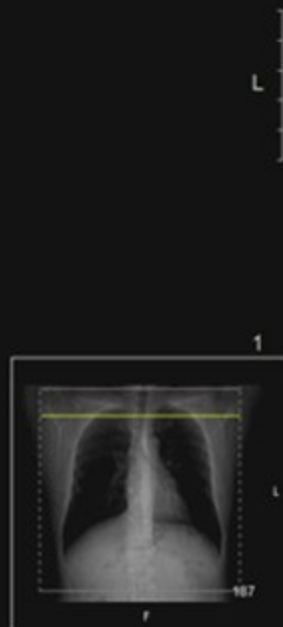
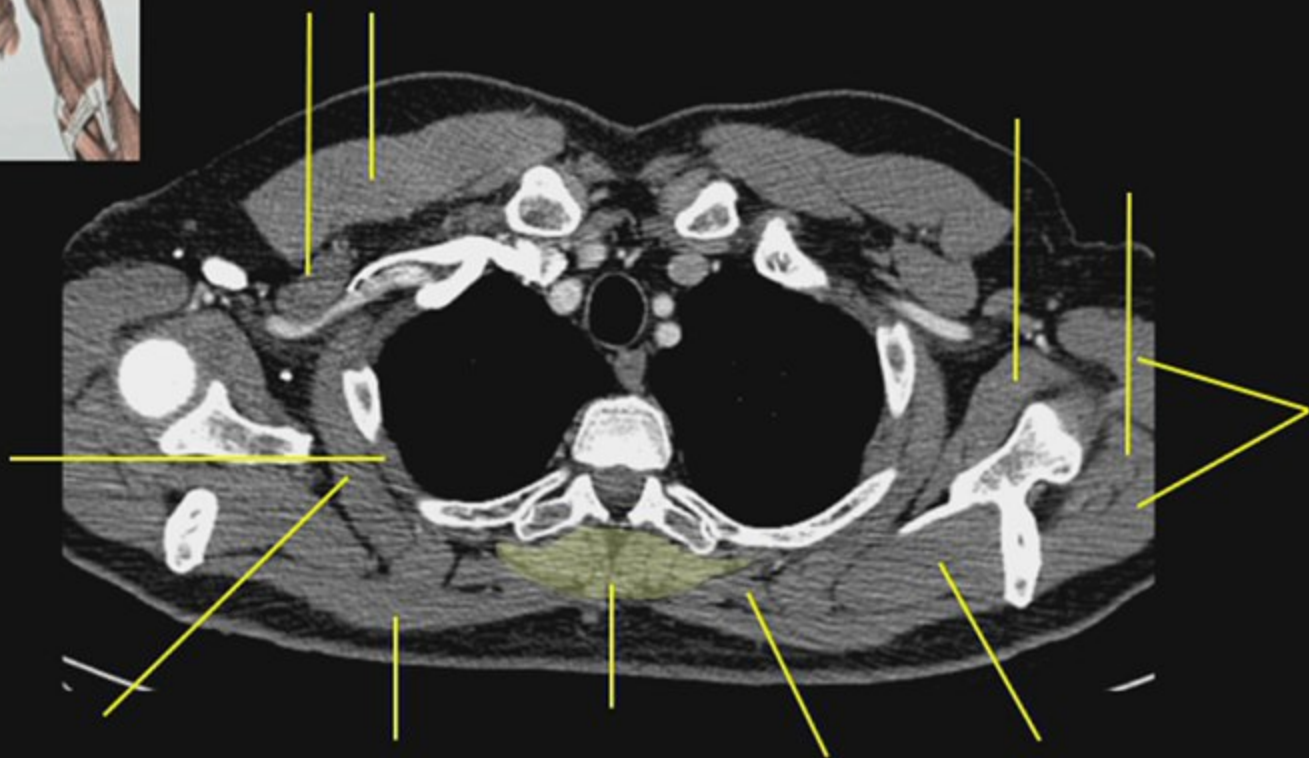
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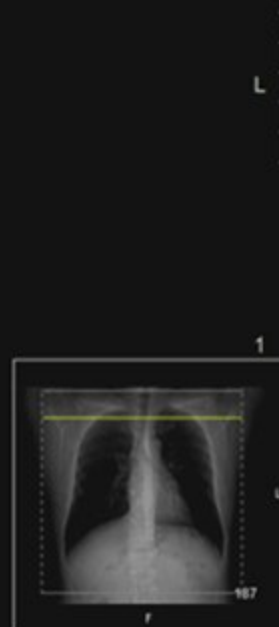
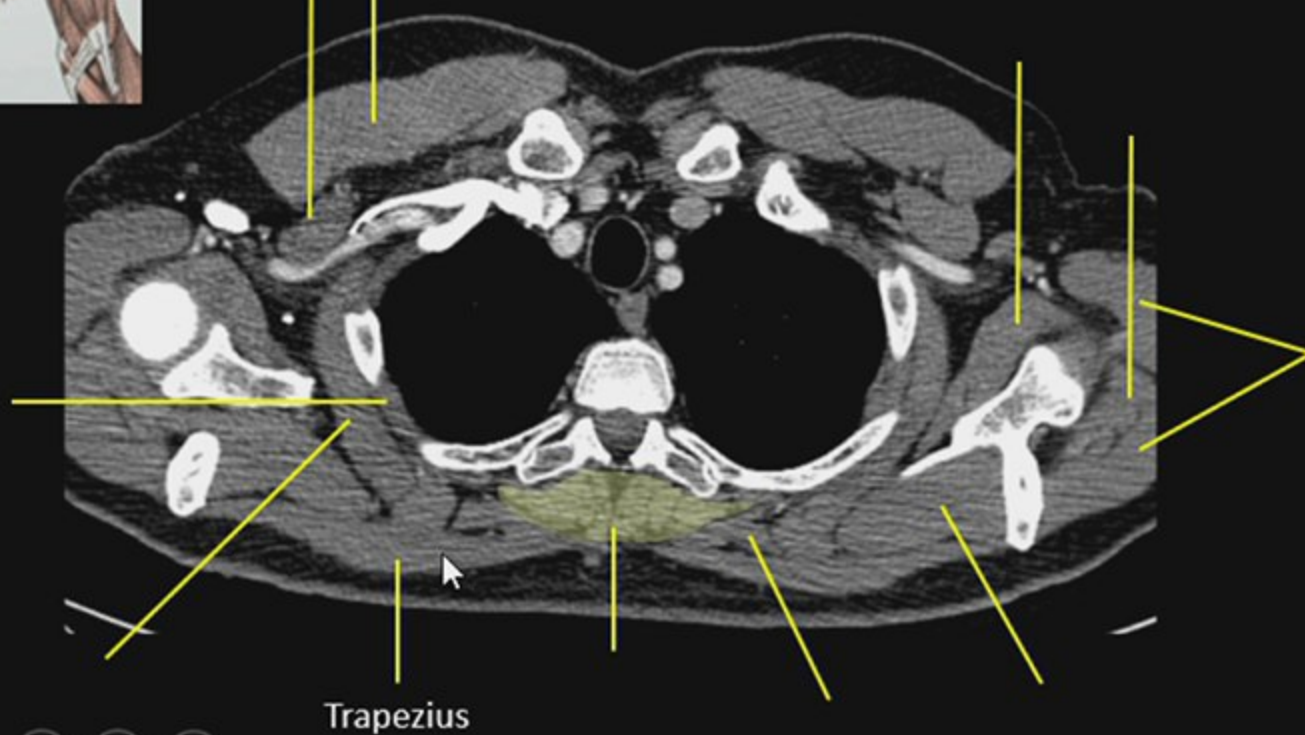
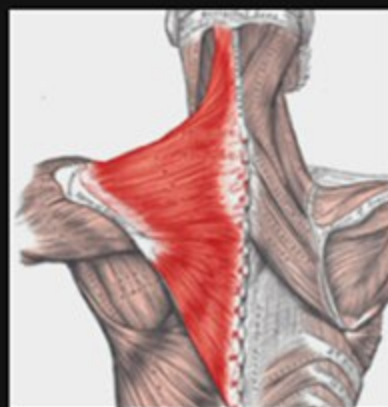
Tiroidal venler





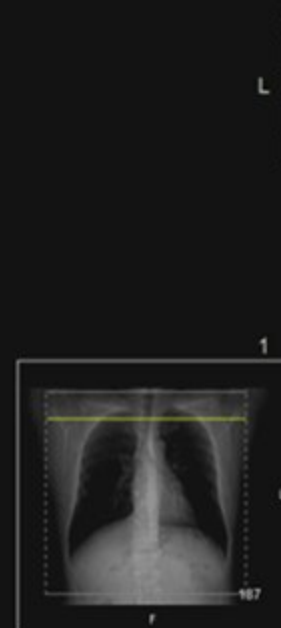
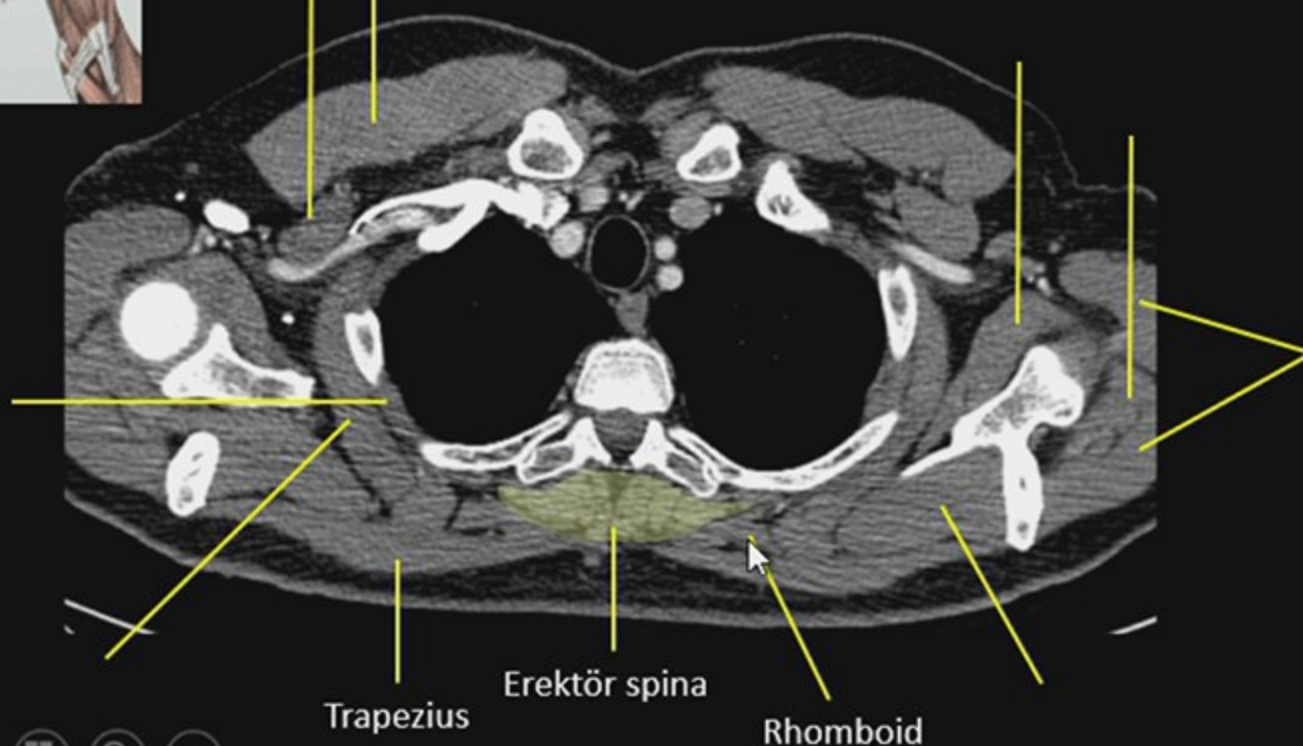
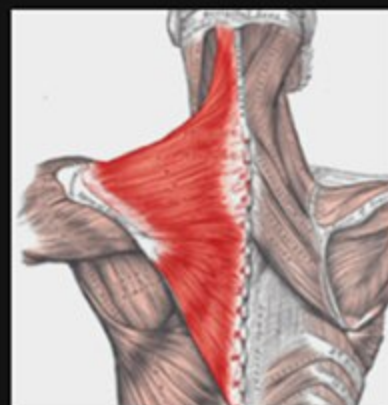


Pectoralis major ve minör



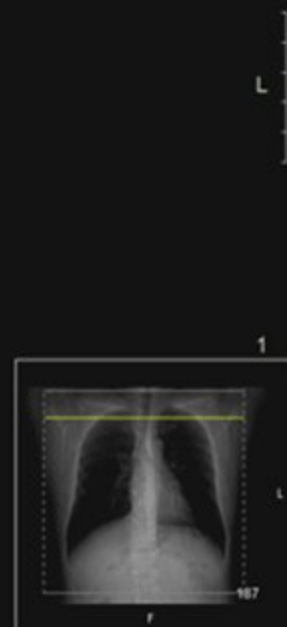
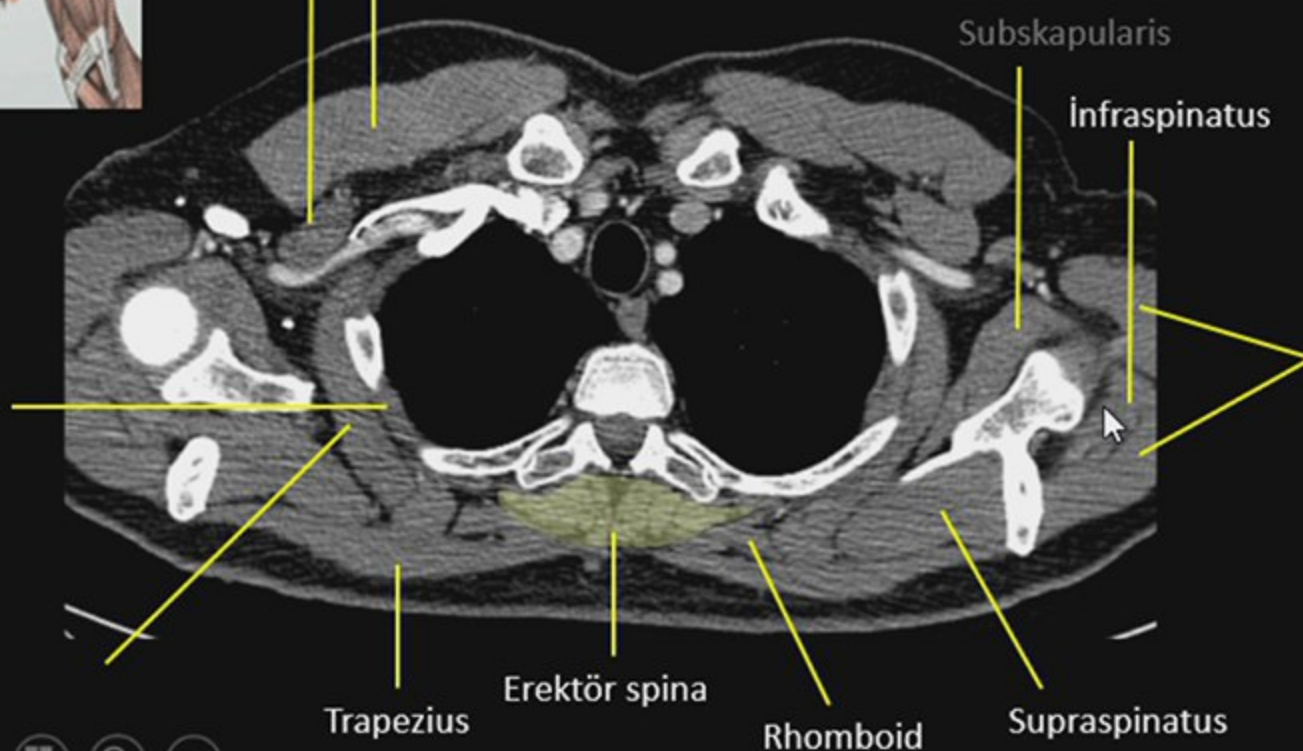
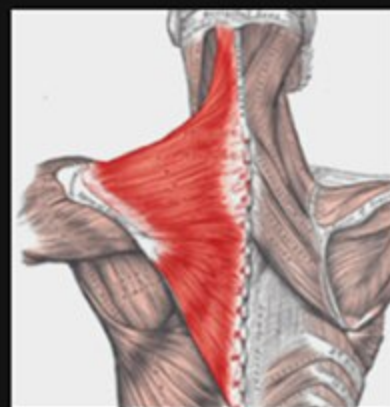


Pectoralis major ve minör



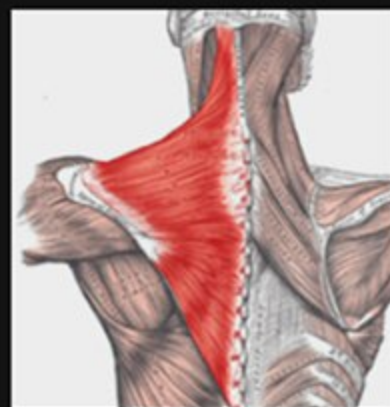


Pectoralis major ve minör





Pektoralis major ve minör



Subskapularis

İnfraspinatus

Deltoid

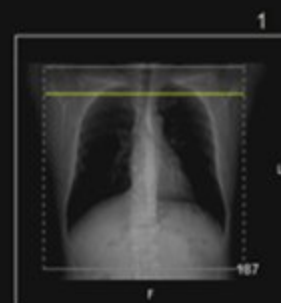
İnterkostal

Trapezius

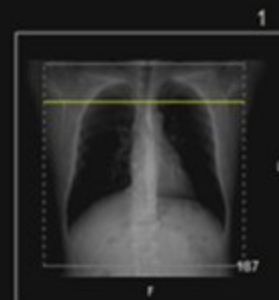
Erektör spina

Rhomboid

Supraspinatus

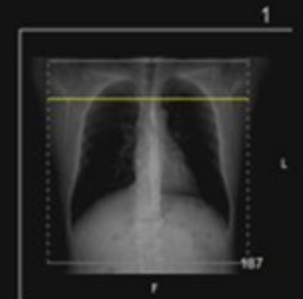


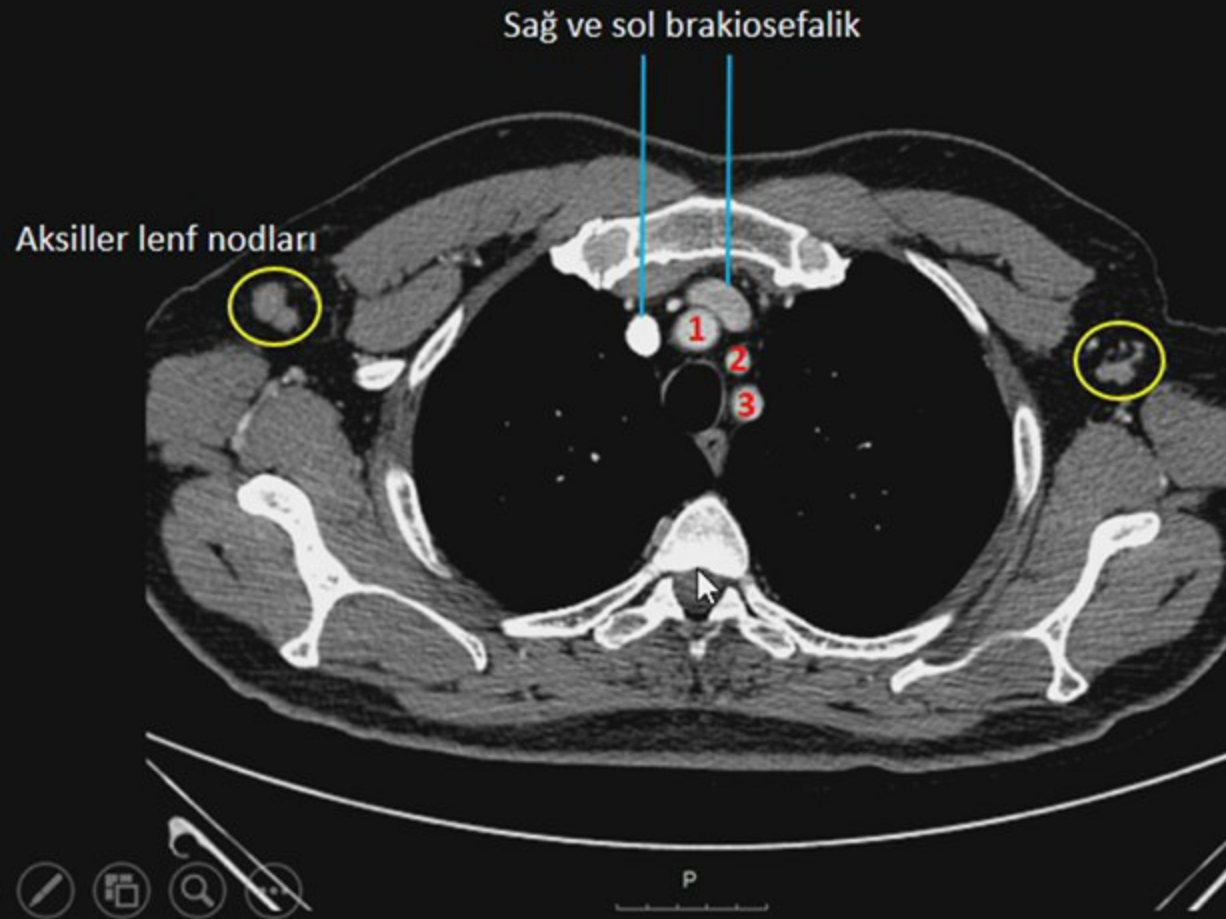
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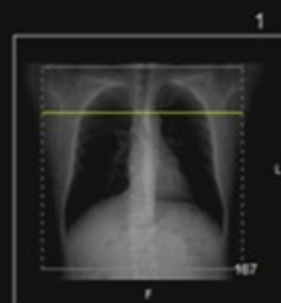
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Sağ ve sol brakiosefalik

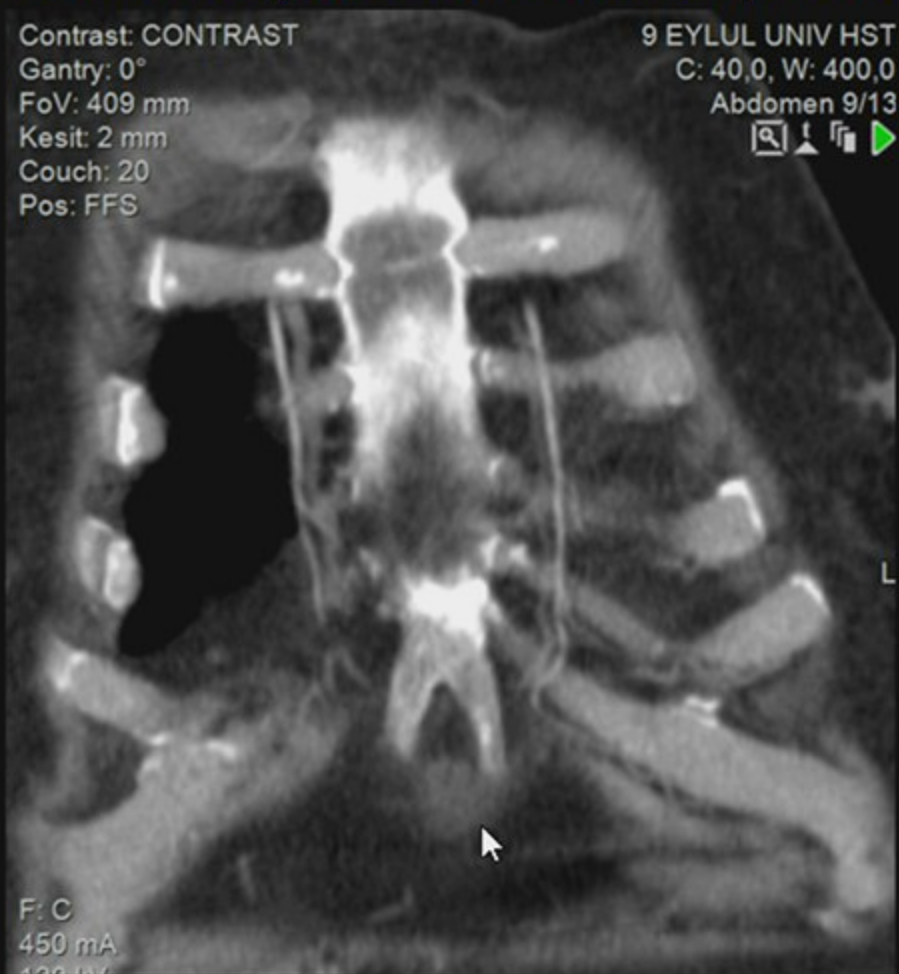


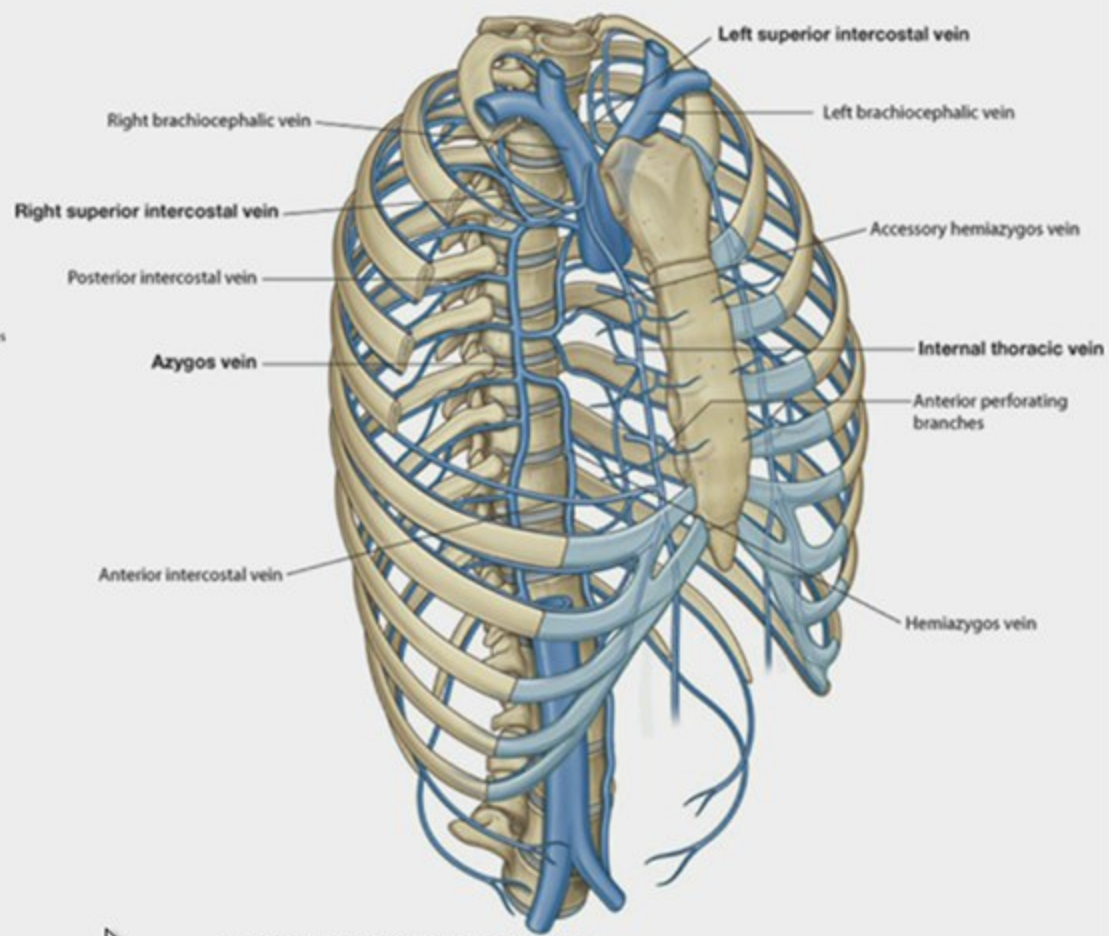
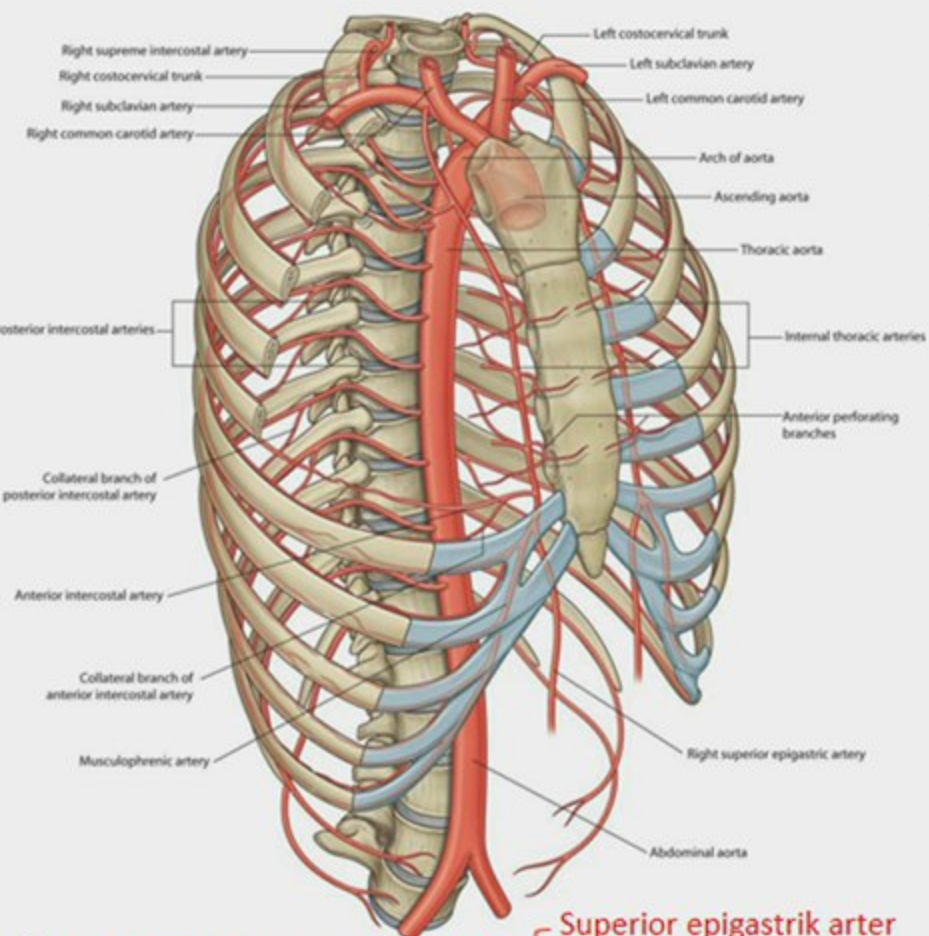


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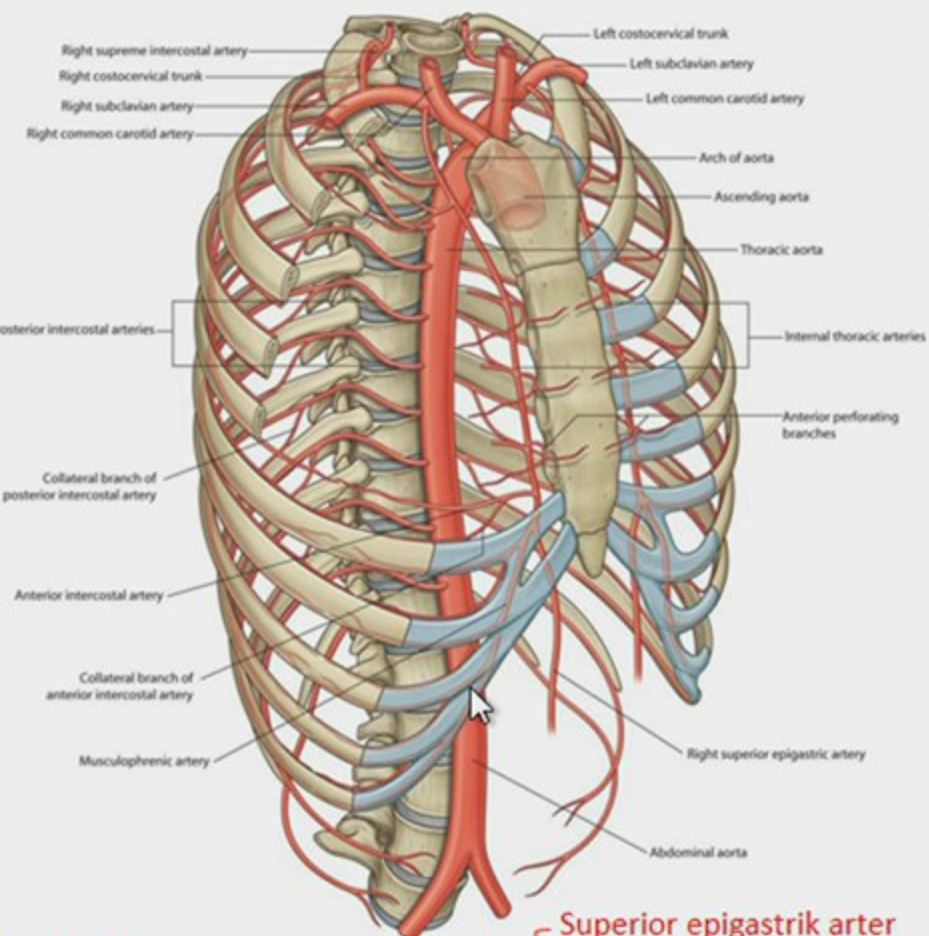
İnternal torasik (mammarian) arter ve venler



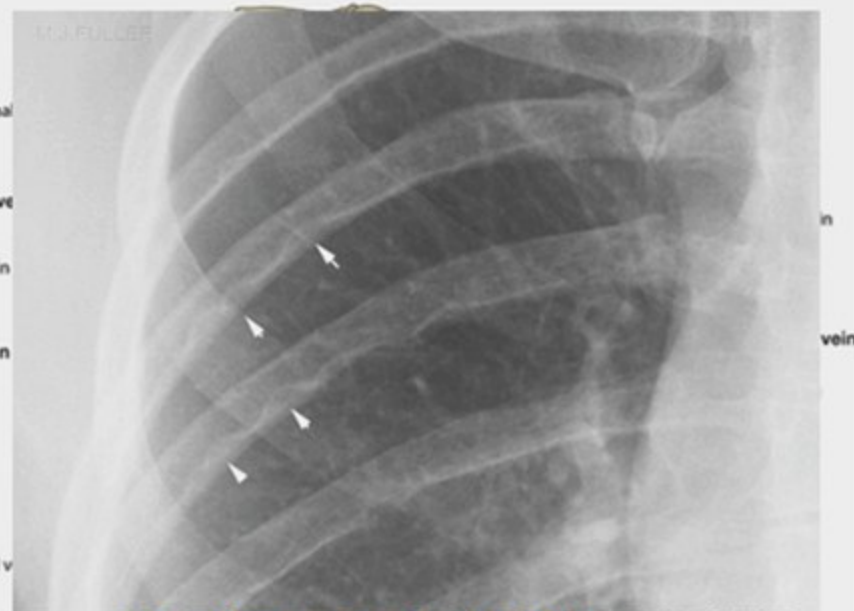


Internal torasik (mammarian) arter { Superior epigastrik arter
Muskulofrenik arter (son 3 İKA)

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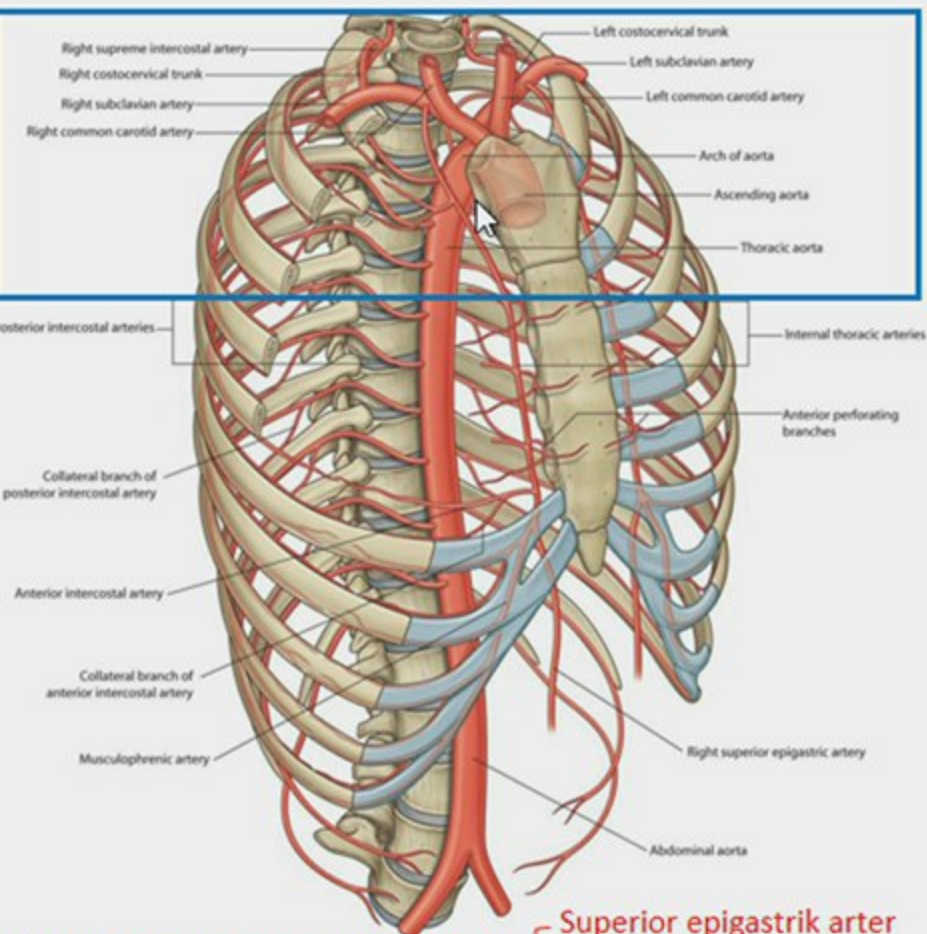


Right brachiocephalic
 Right superior intercostal vein
 Posterior intercostal vein
 Azygos vein
 Anterior intercostal vein



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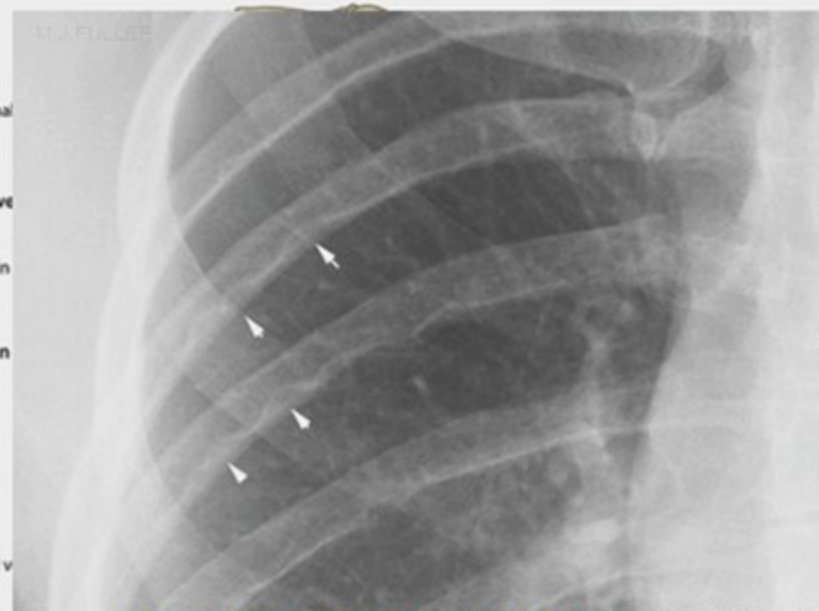
Right brachiocephalic

Right superior intercostal vein

Posterior intercostal vein

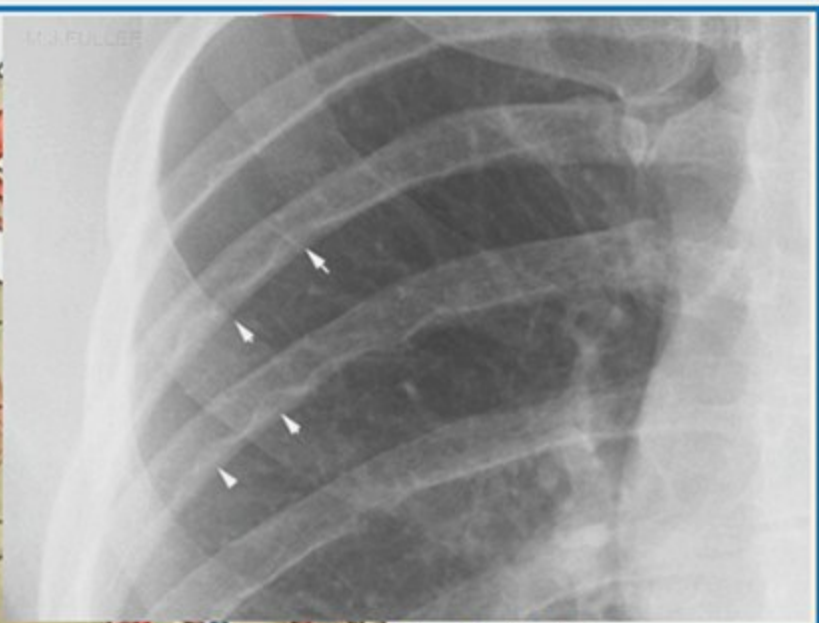
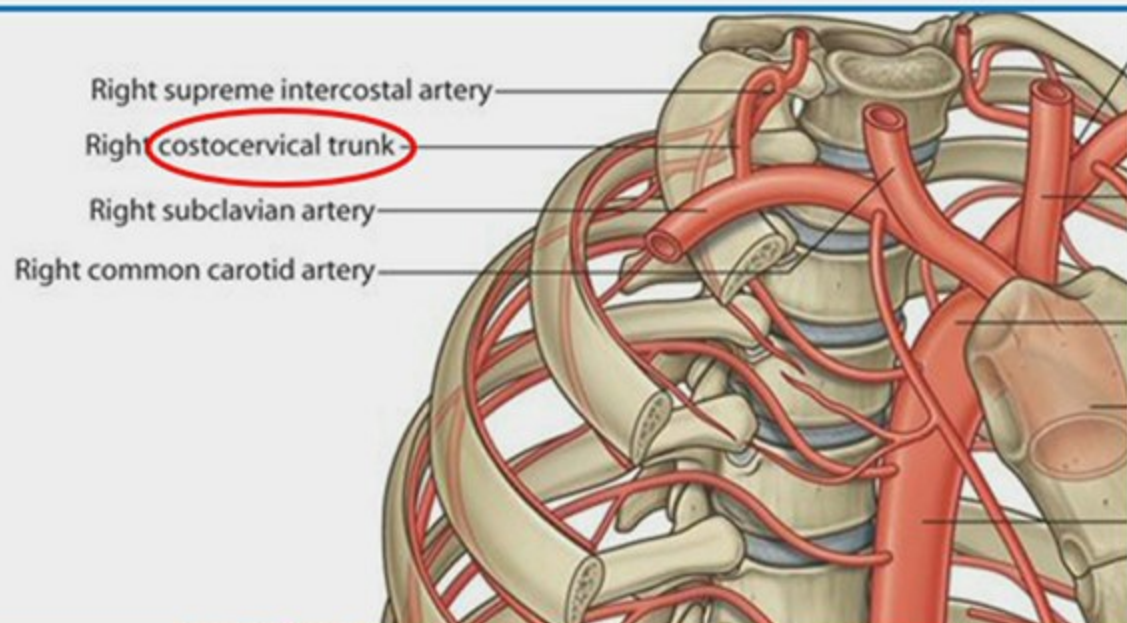
Azygos vein

Anterior intercostal vein

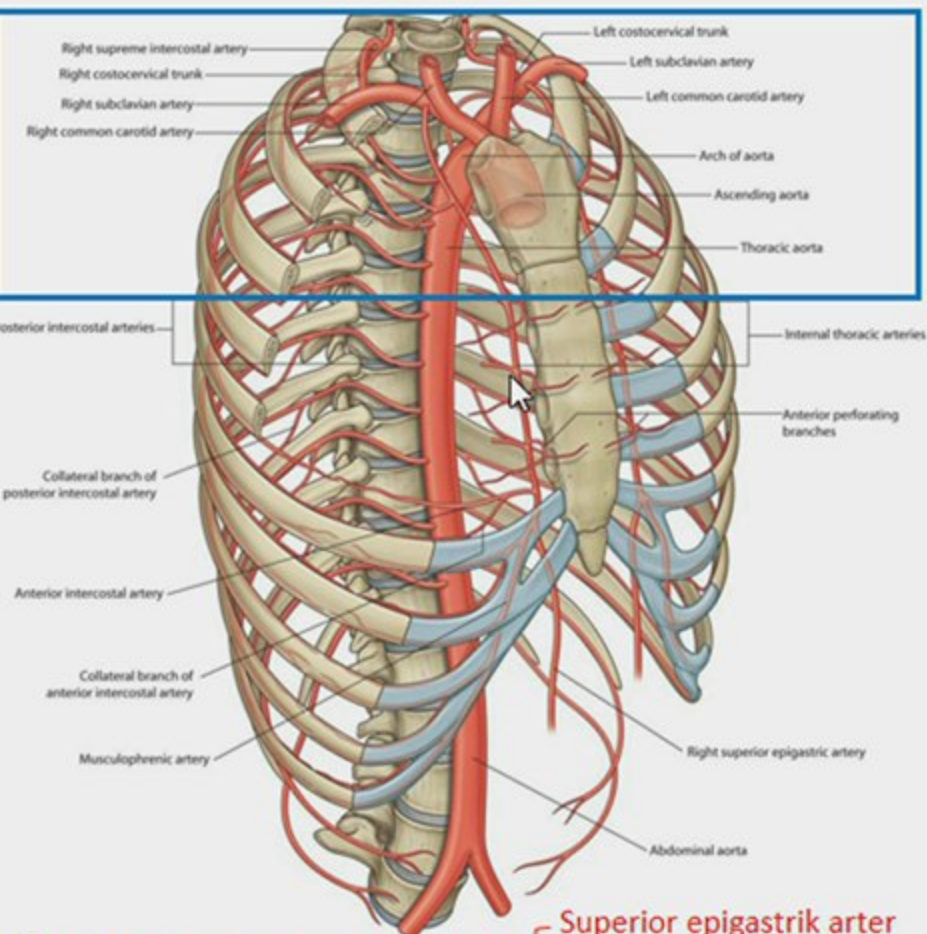


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internal torasik (mammarian) arter { Superior epigastrik arter
Muskulofrenik arter (son 3 İKA)



internal torasik (mammarian) arter { Superior epigastrik arter
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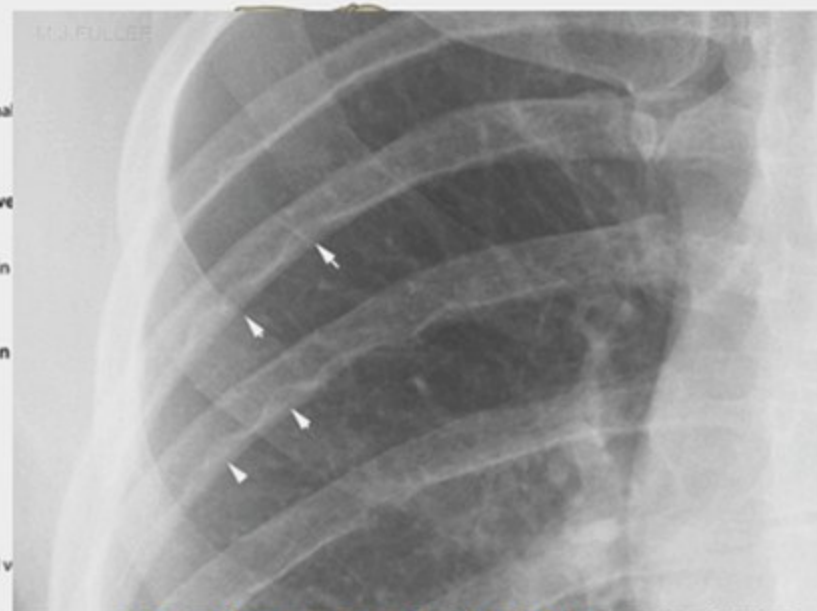
Right brachiocephalic

Right superior intercostal vein

Posterior intercostal vein

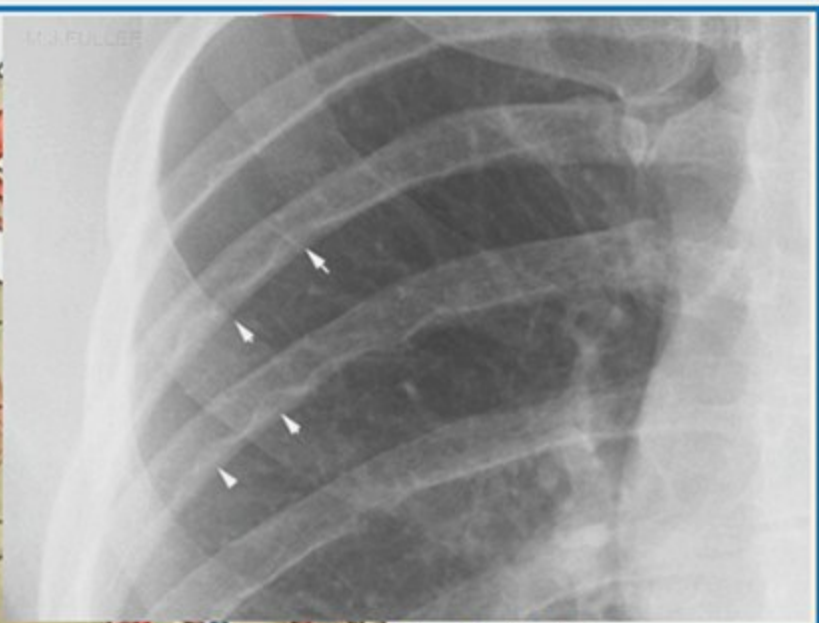
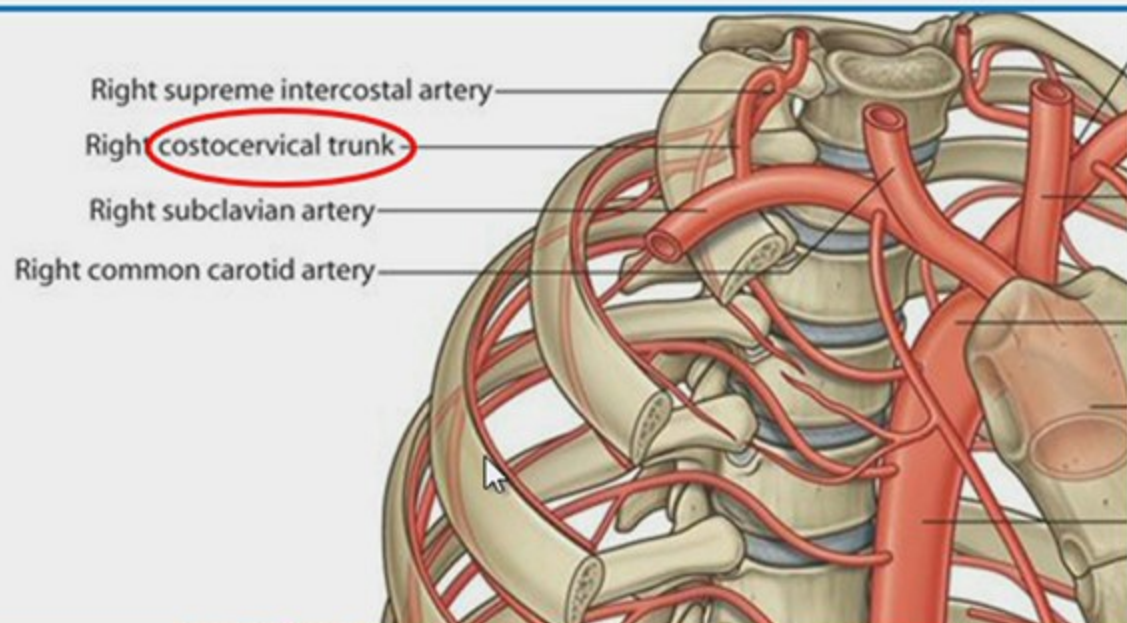
Azygos vein

Anterior intercostal vein

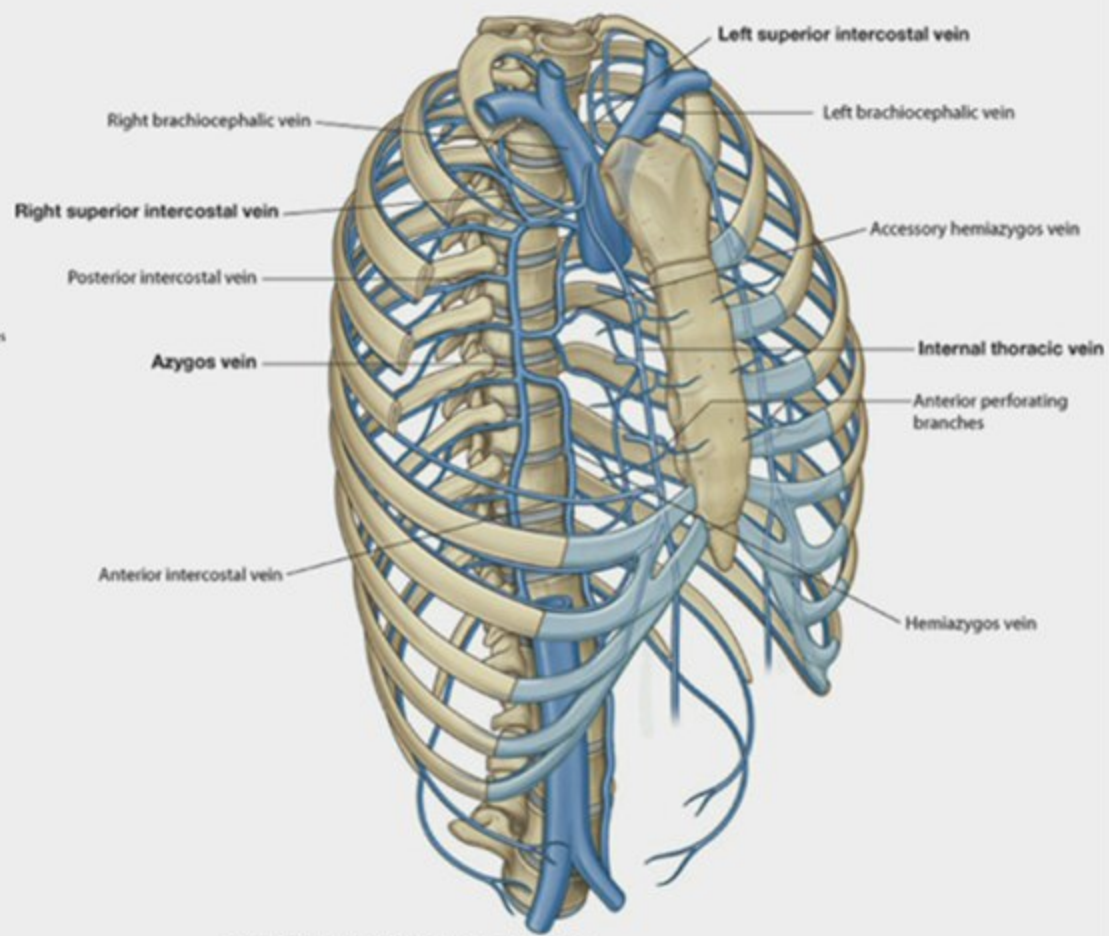
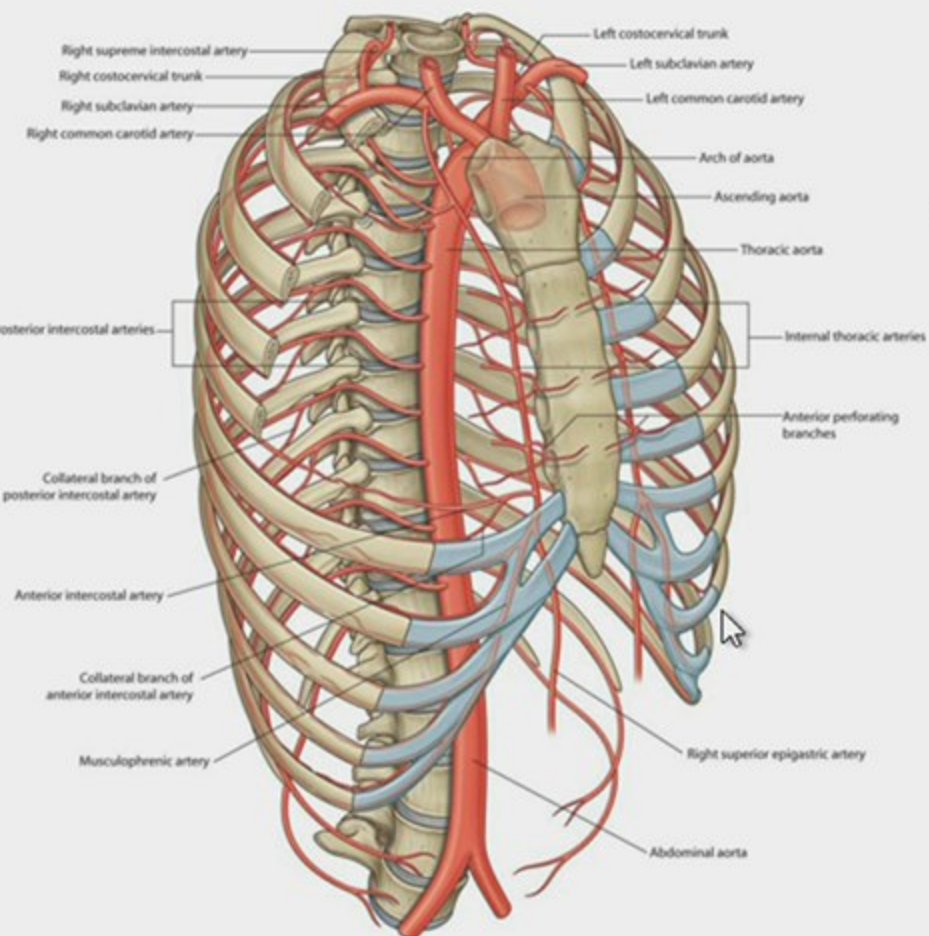


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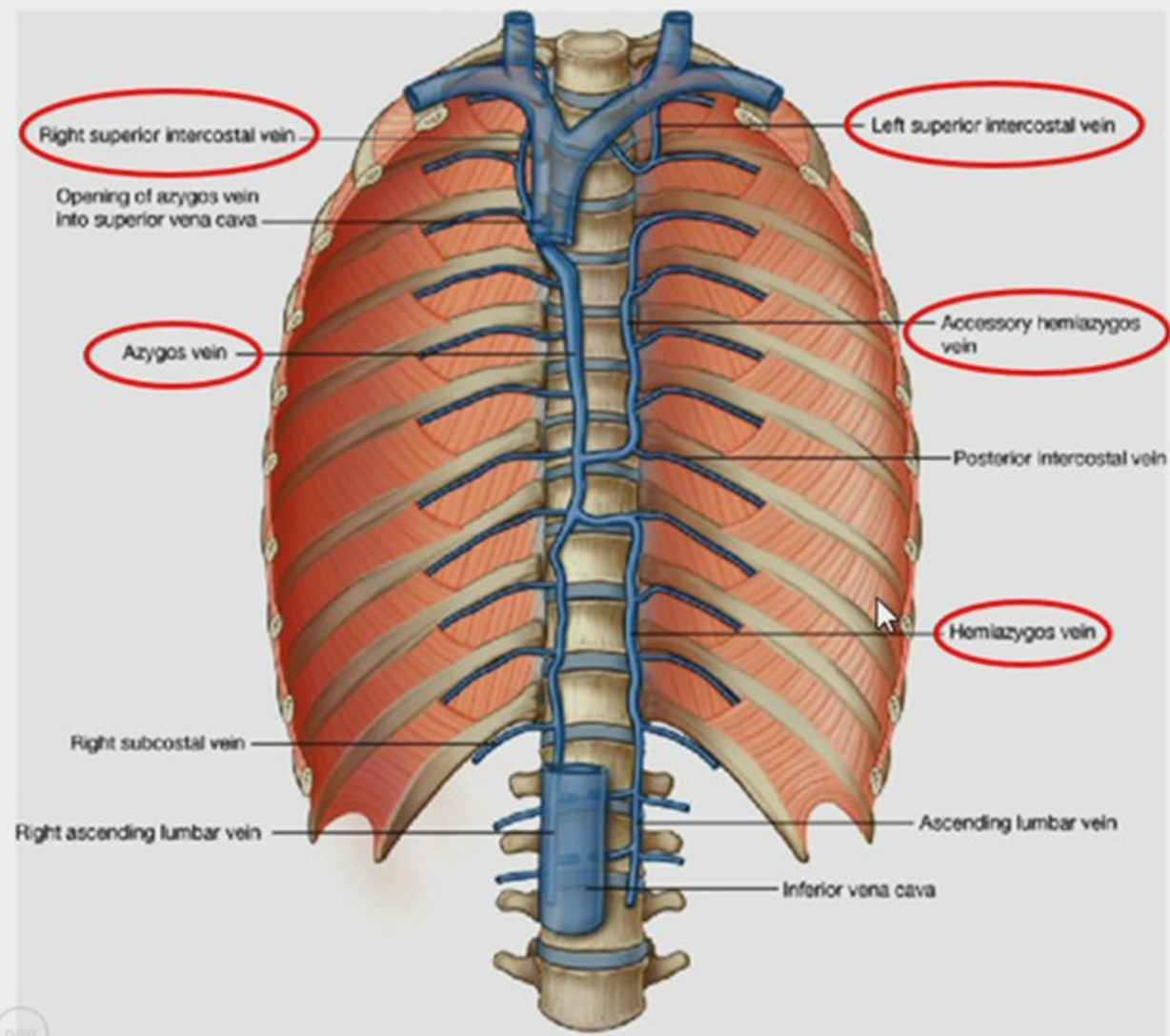


internal torasik (mammarian) arter { Superior epigastrik arter
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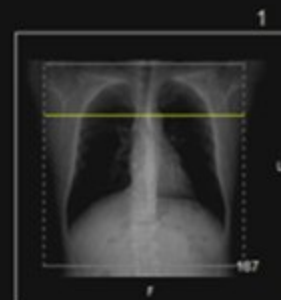


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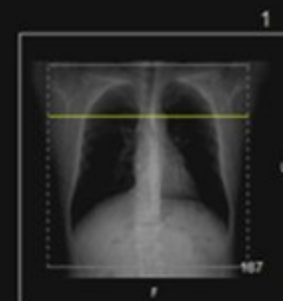
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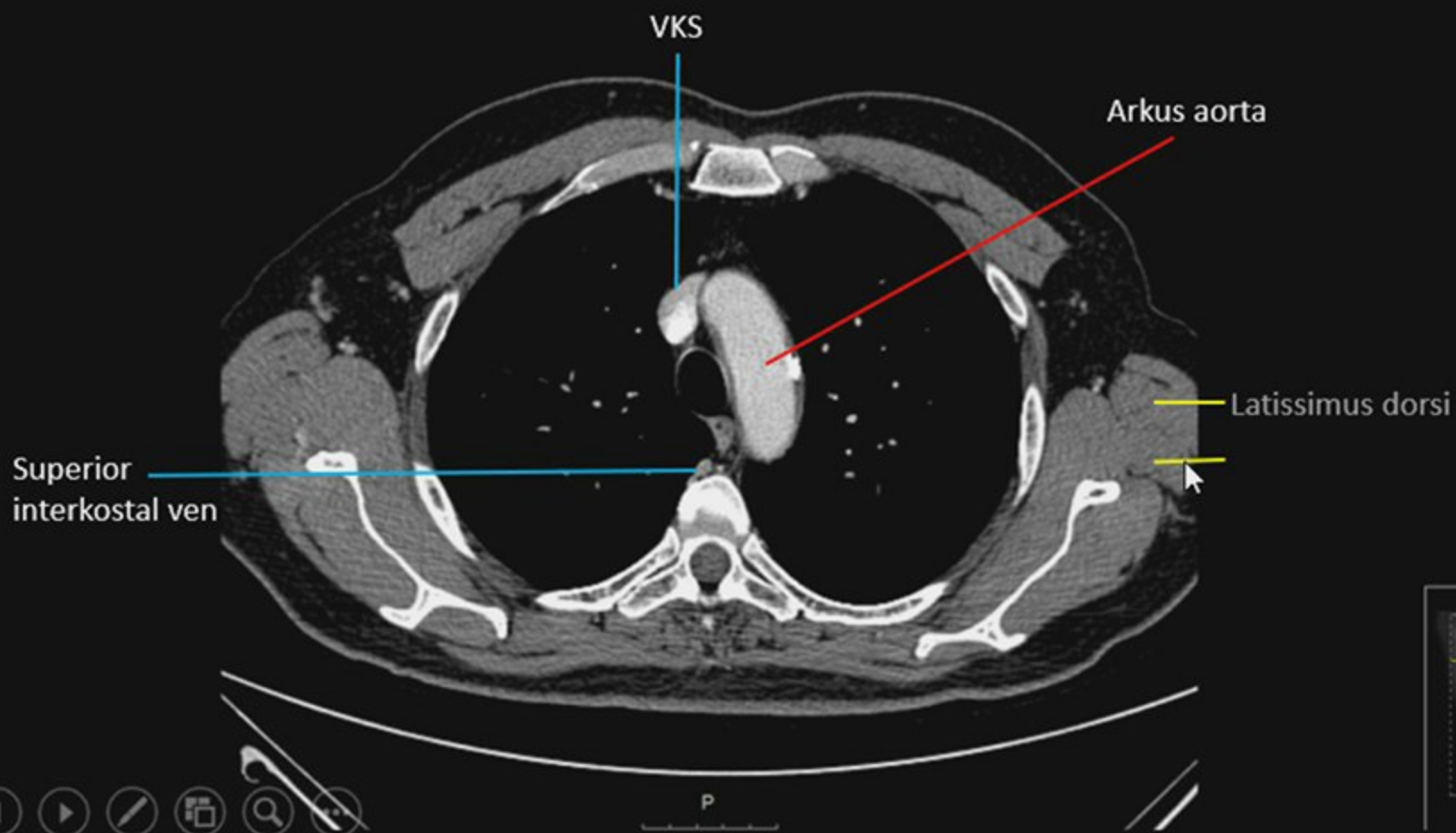
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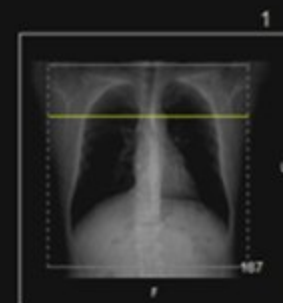
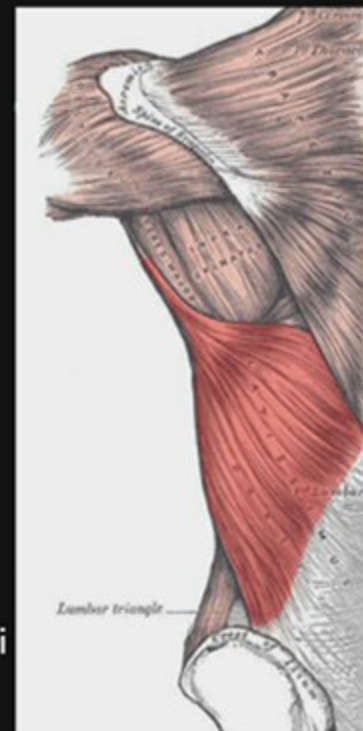
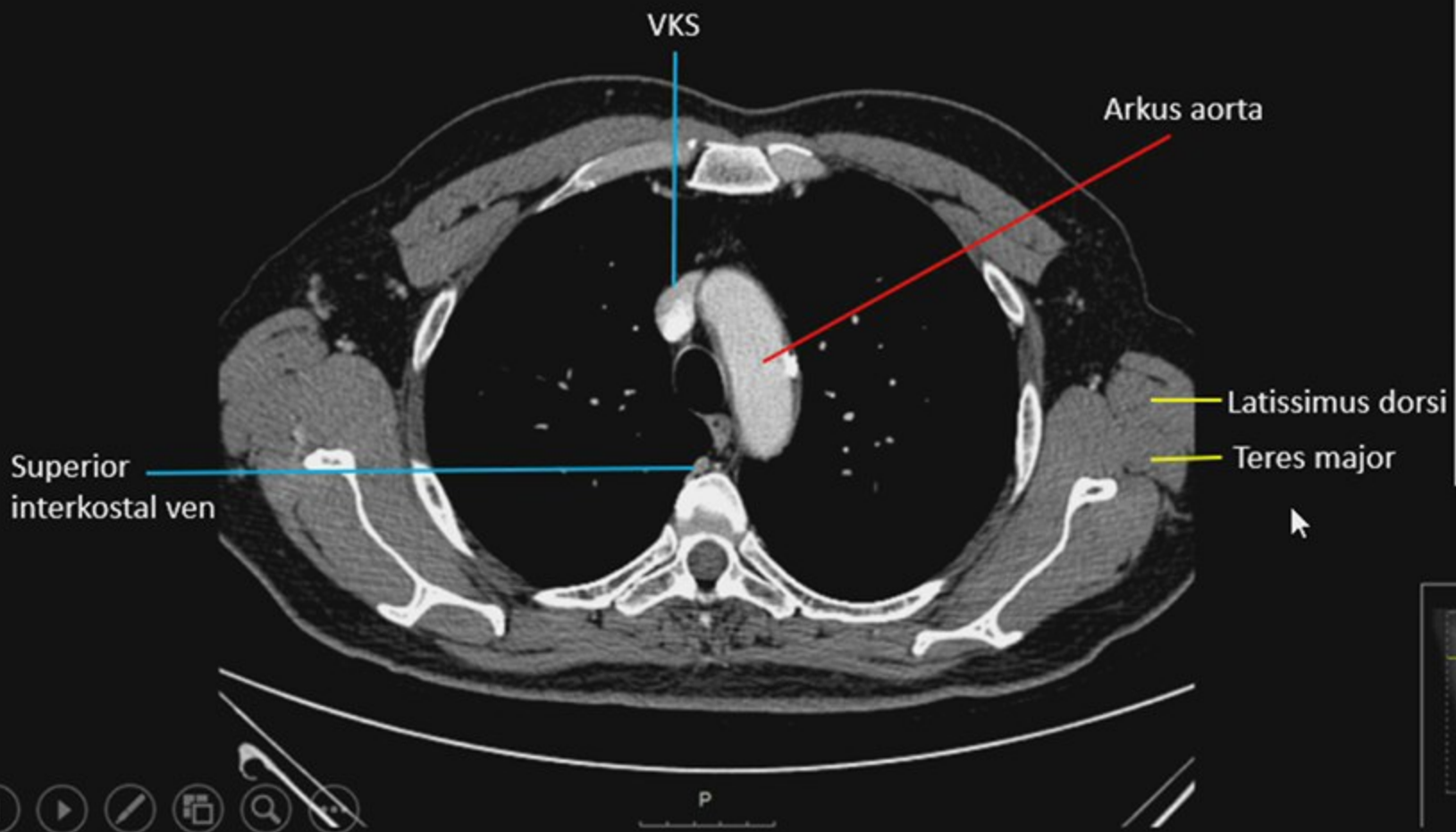


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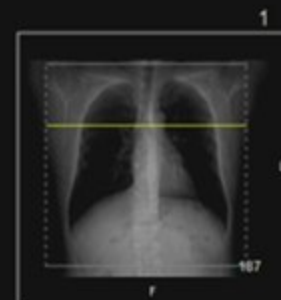


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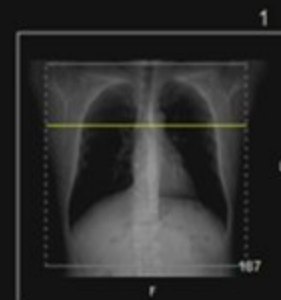
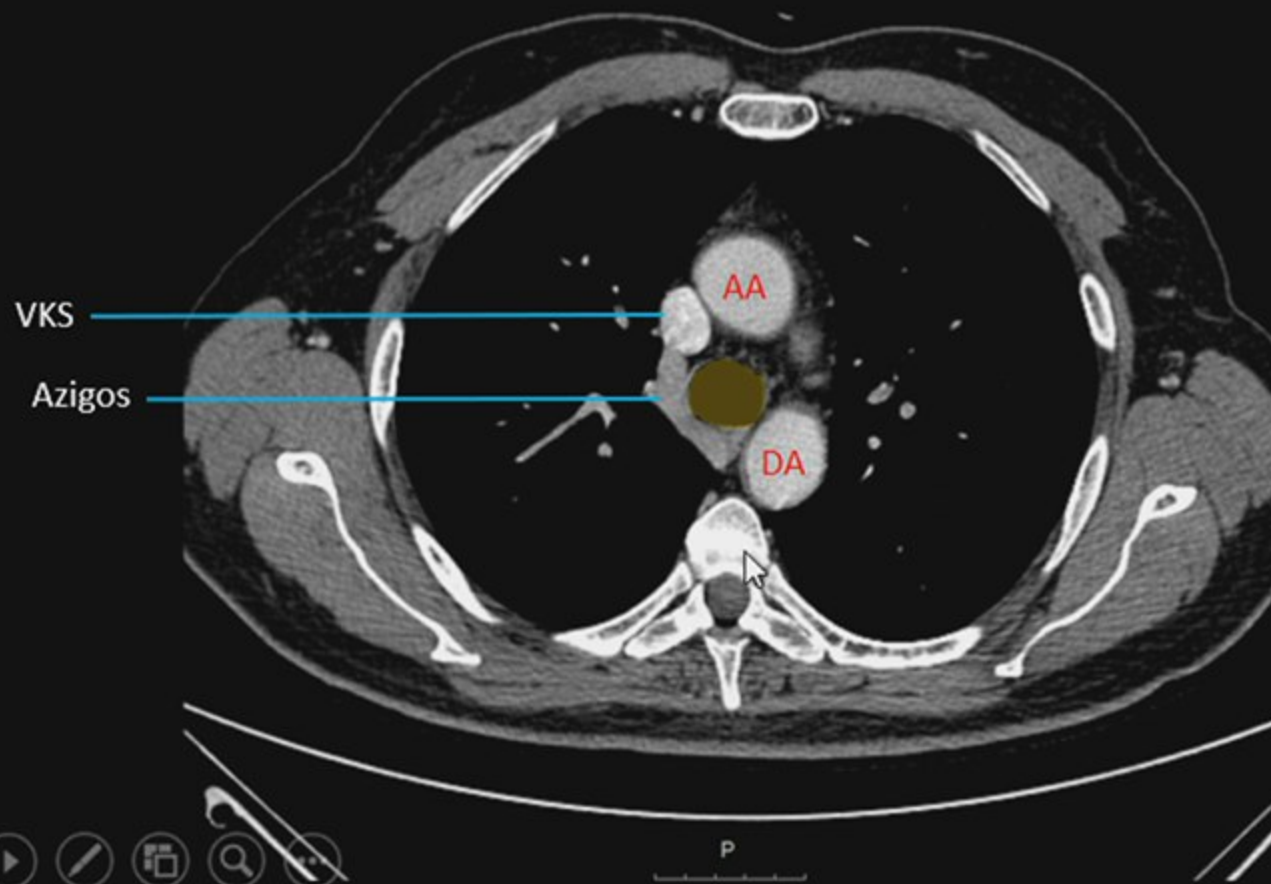




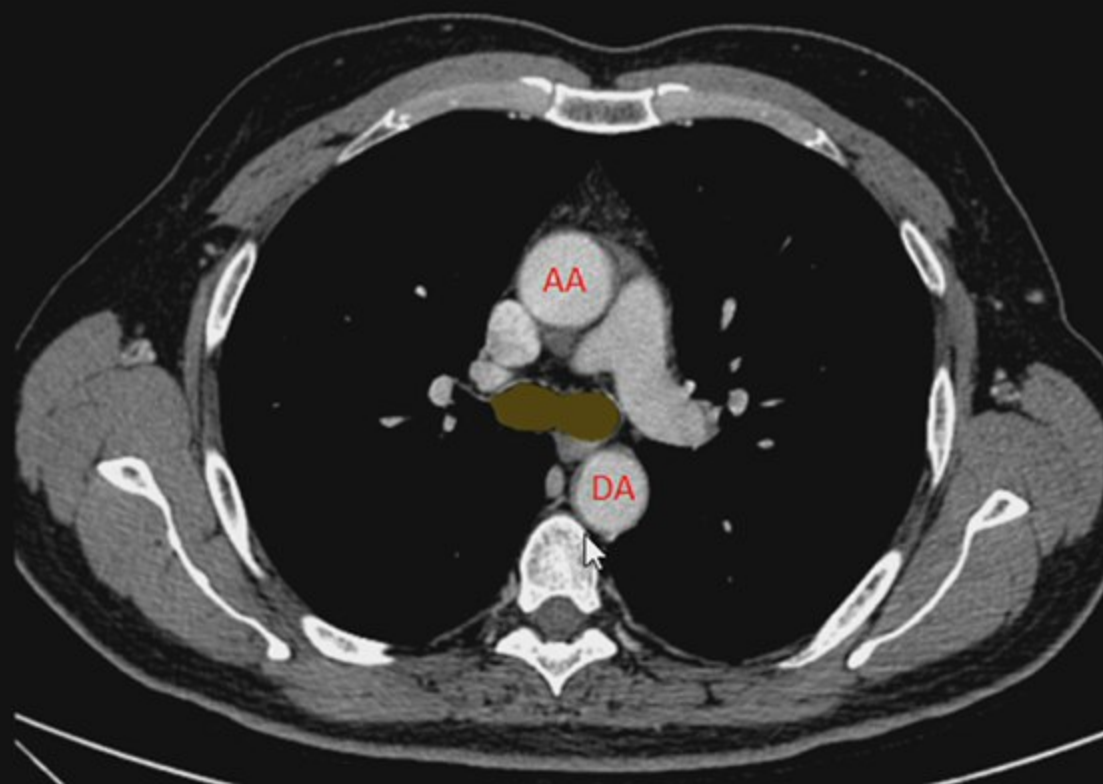
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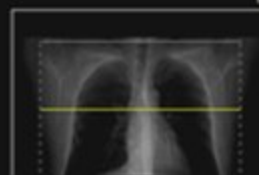


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C: 60,0, W: 360,0
C=60,0, W=360,0 1/13
Z R L

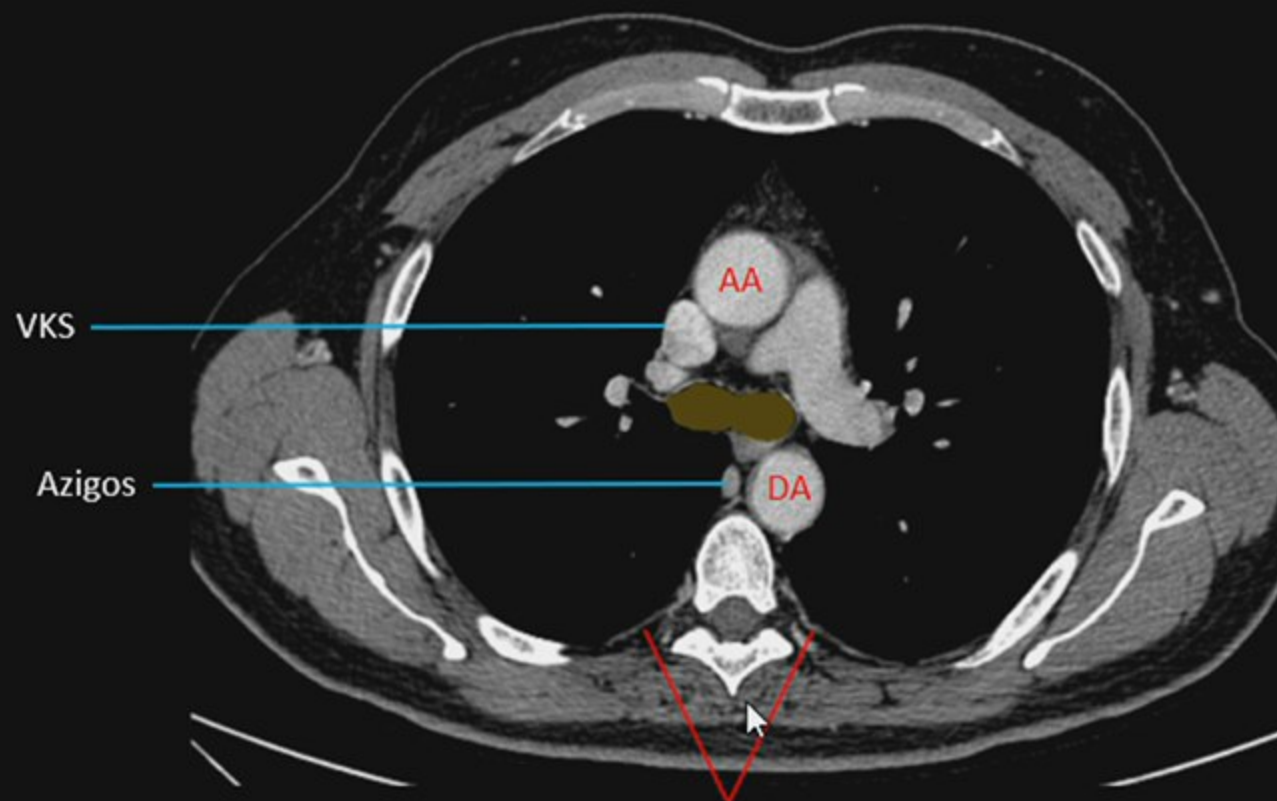


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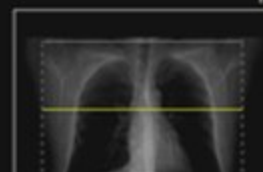


9 EYLUL UNIV HST
C: 60,0, W: 360,0
C=60,0, W=360,0 1/13
Z R L



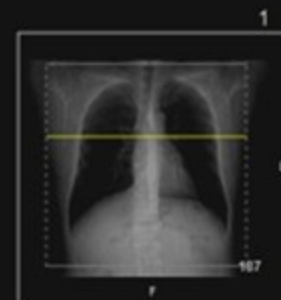
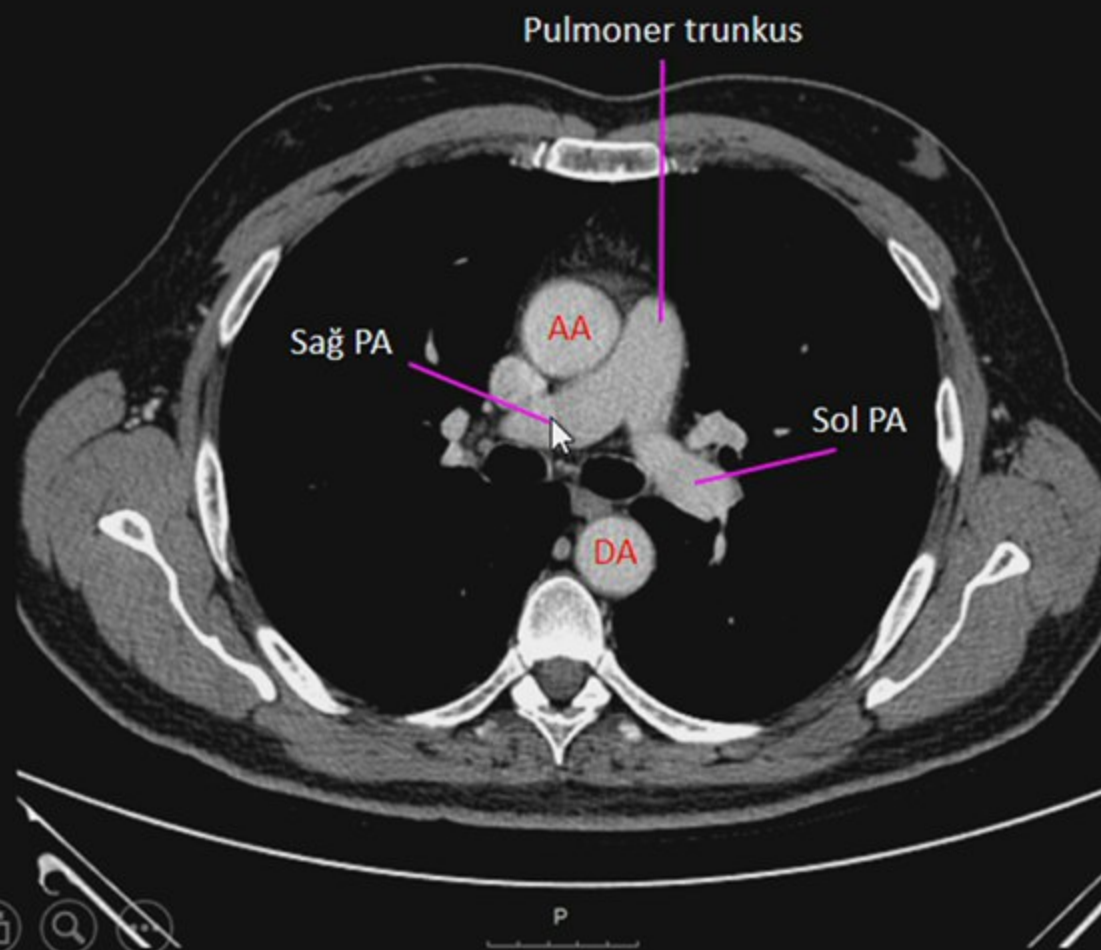
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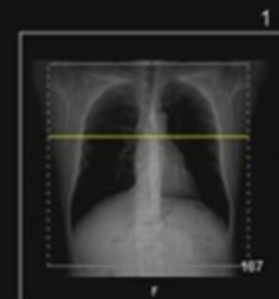
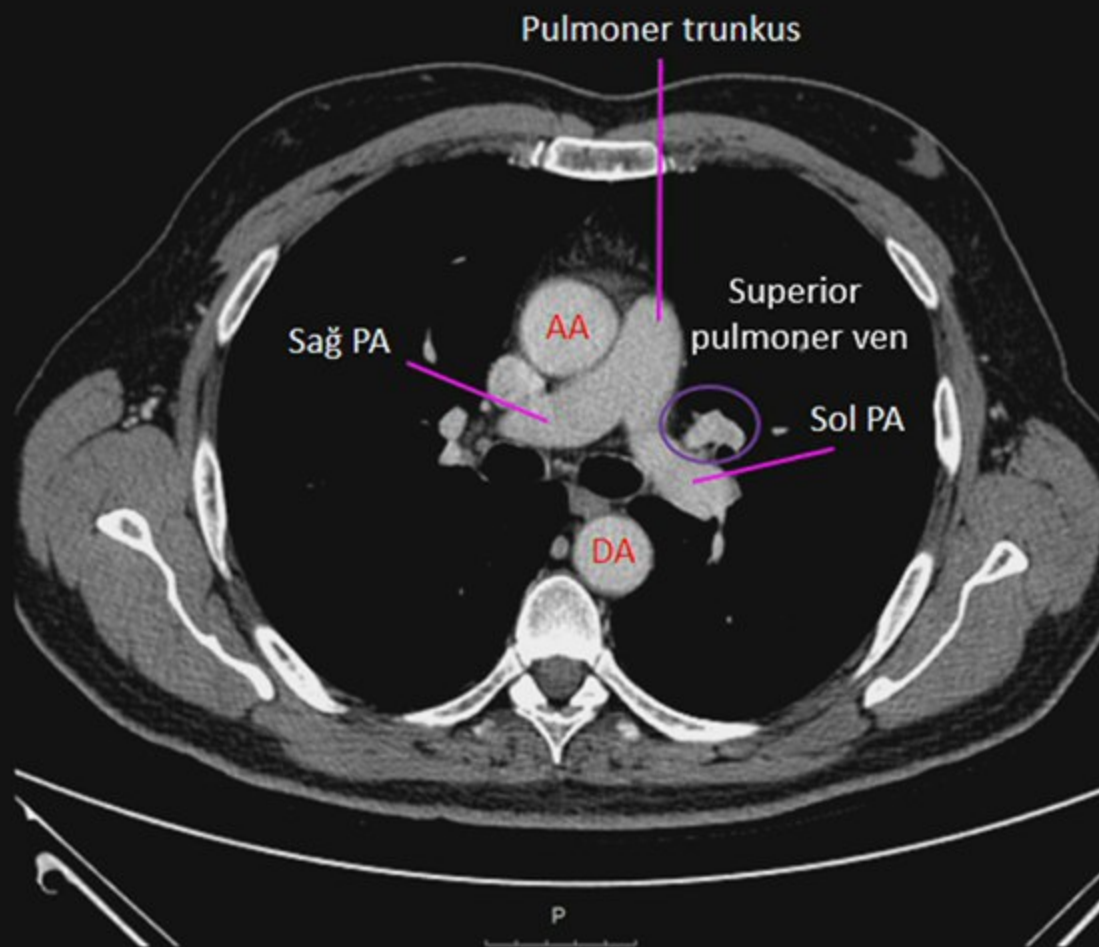


Posterior interkostal arter & venler

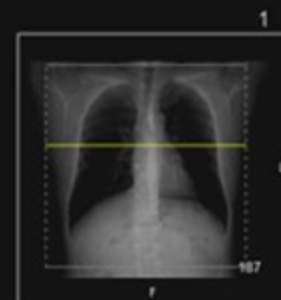
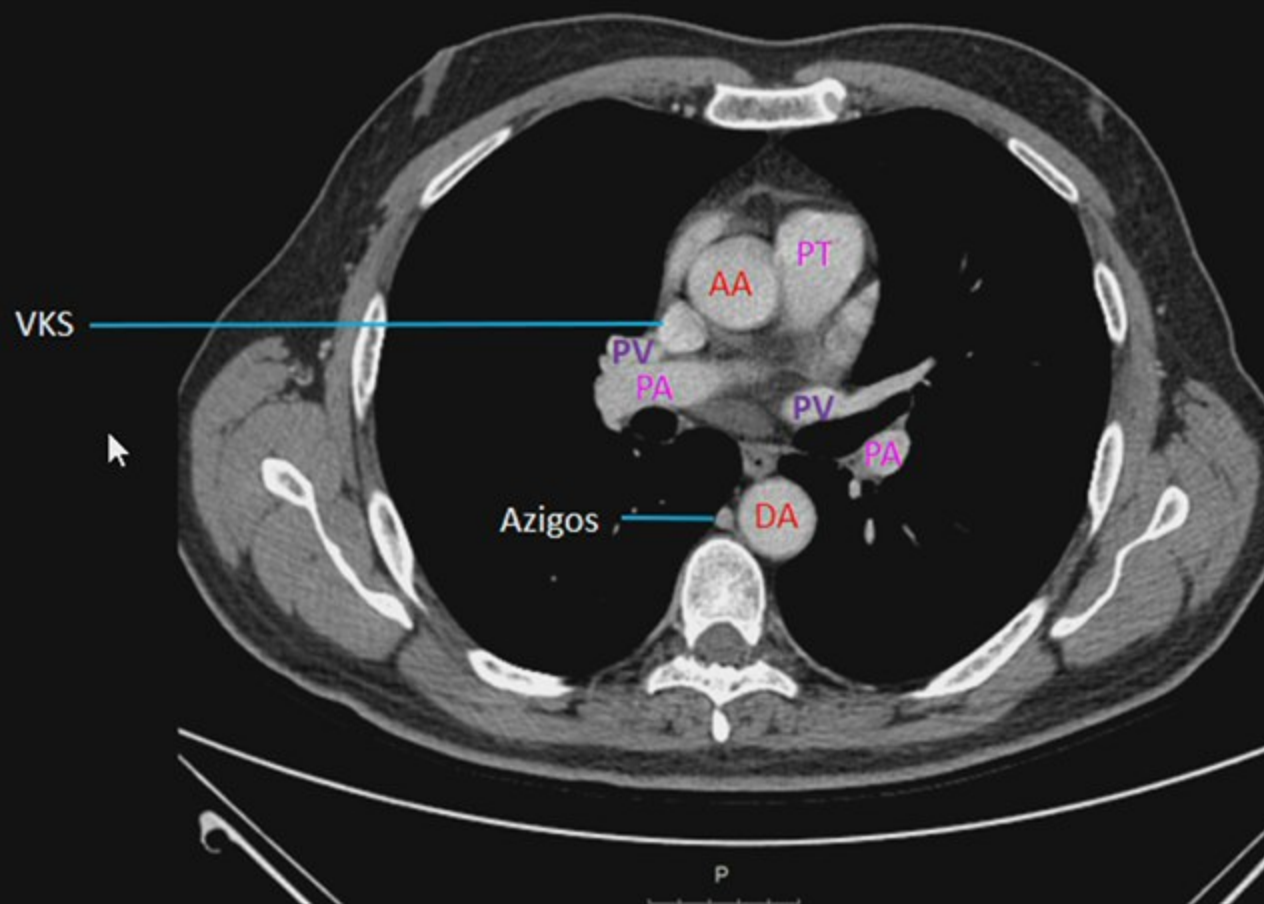
9 EYLUL UNIV HST
C: 60,0, W: 360,0
C=60,0, W=360,0 1/13
Z R L



9 EYLUL UNIV HST
C: 60,0, W: 360,0
C=60,0, W=360,0 1/13
Z R L



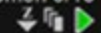
9 EYLUL UNIV HST
C: 40,0, W: 400,0
Abdomen 9/13
Z R L



9 EYLUL UNIV HST

C: 40,0, W: 400,0

Abdomen 9/13



Sağ aurikula

Sol aurikula

VKS

Azigos

DA

AA

PT

PV

PA

PV

PA

L

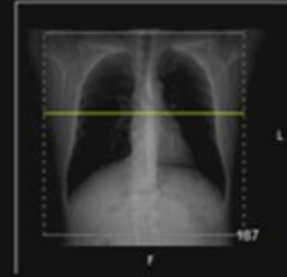
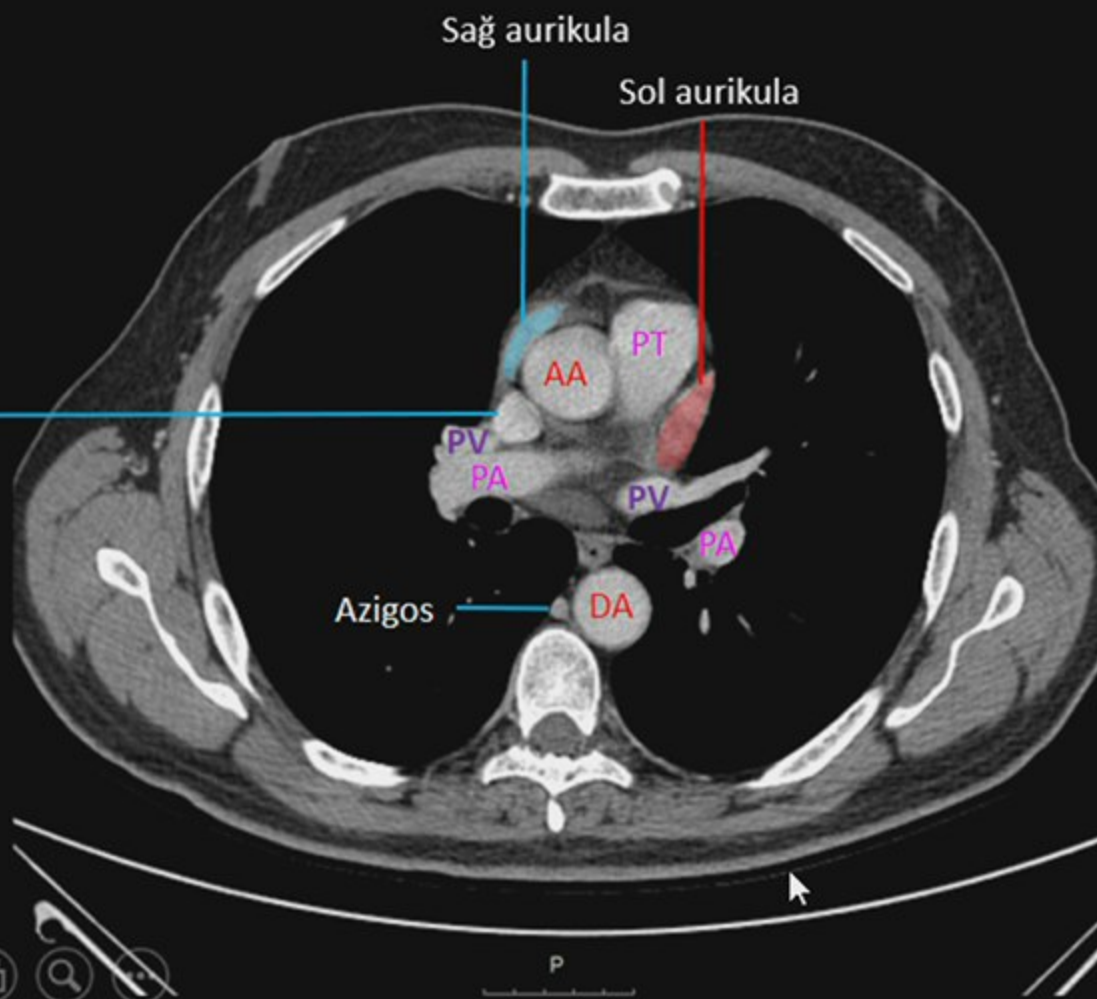
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L

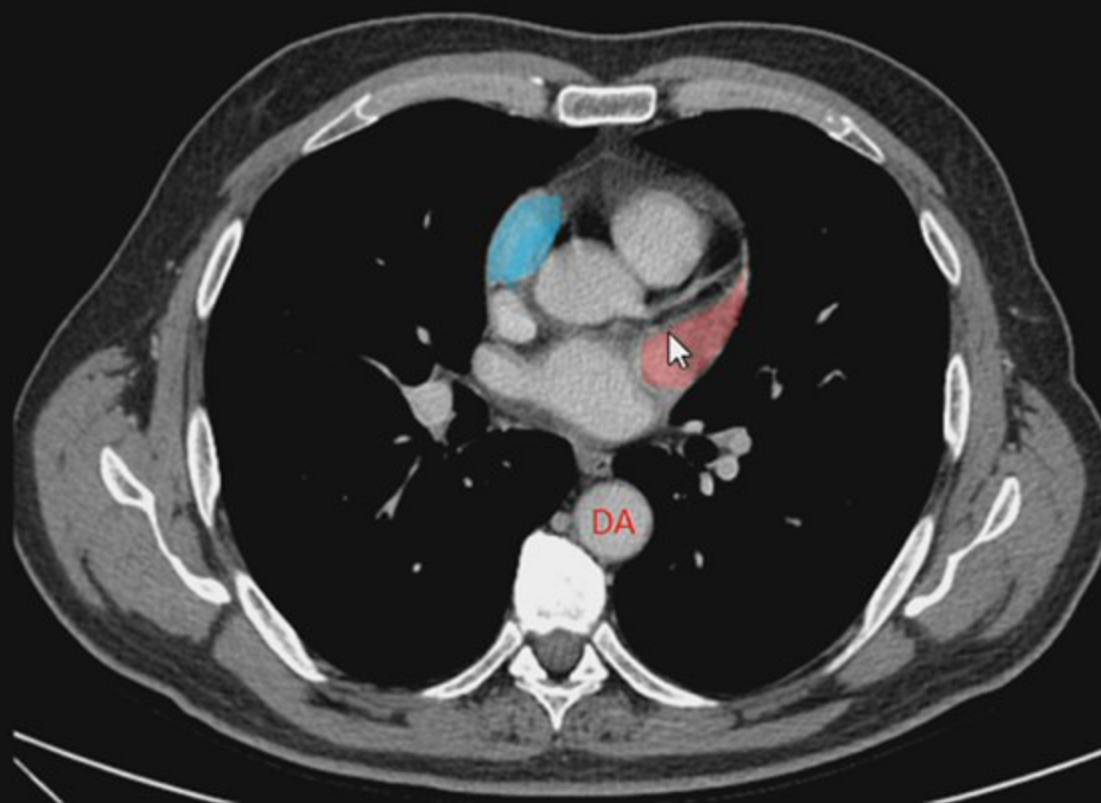
107



P

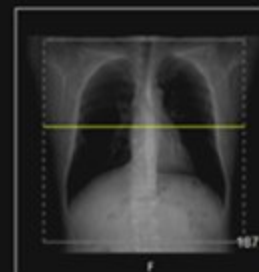


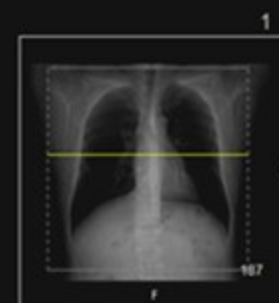
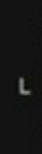
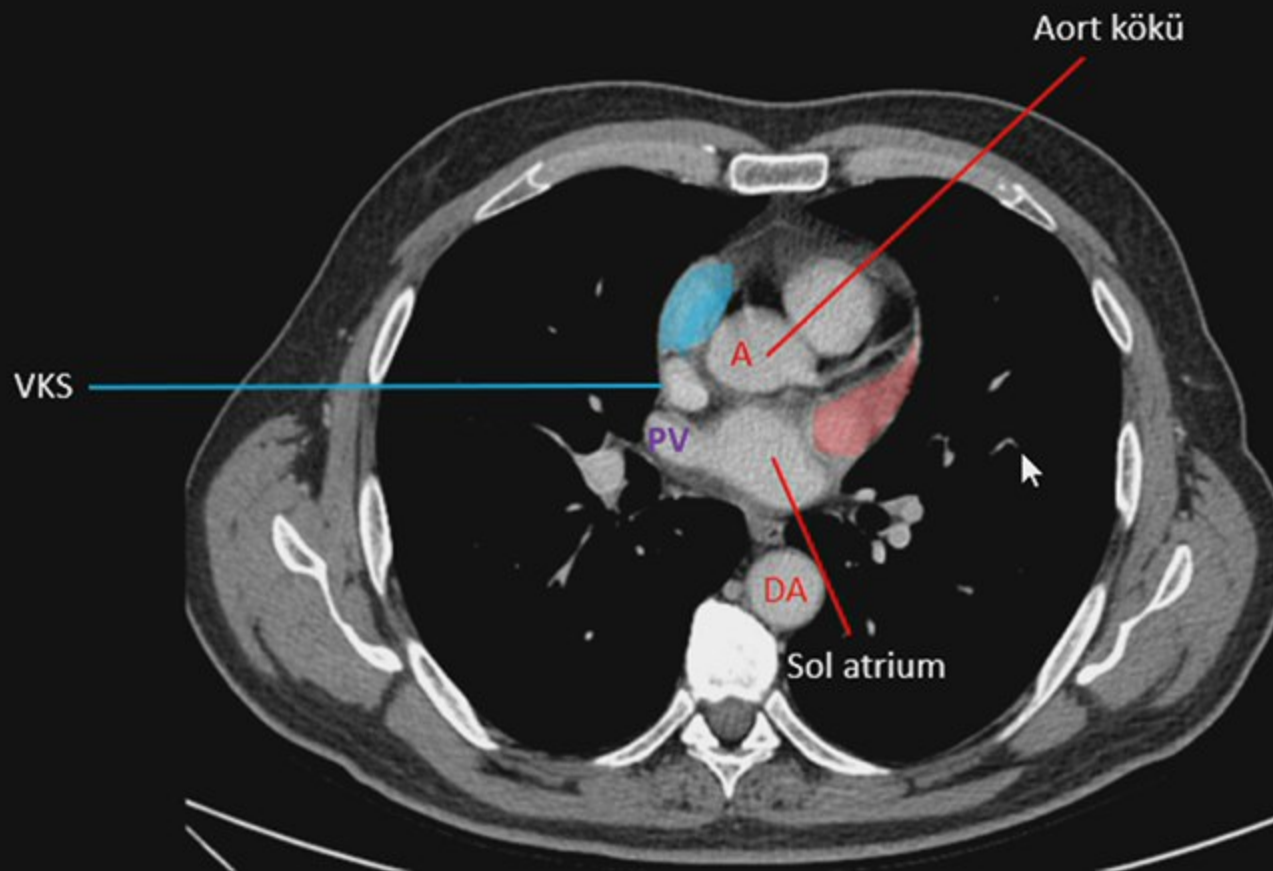
9 EYLUL UNIV HST
C: 40,0, W: 400,0
Abdomen 9/13
Z R L

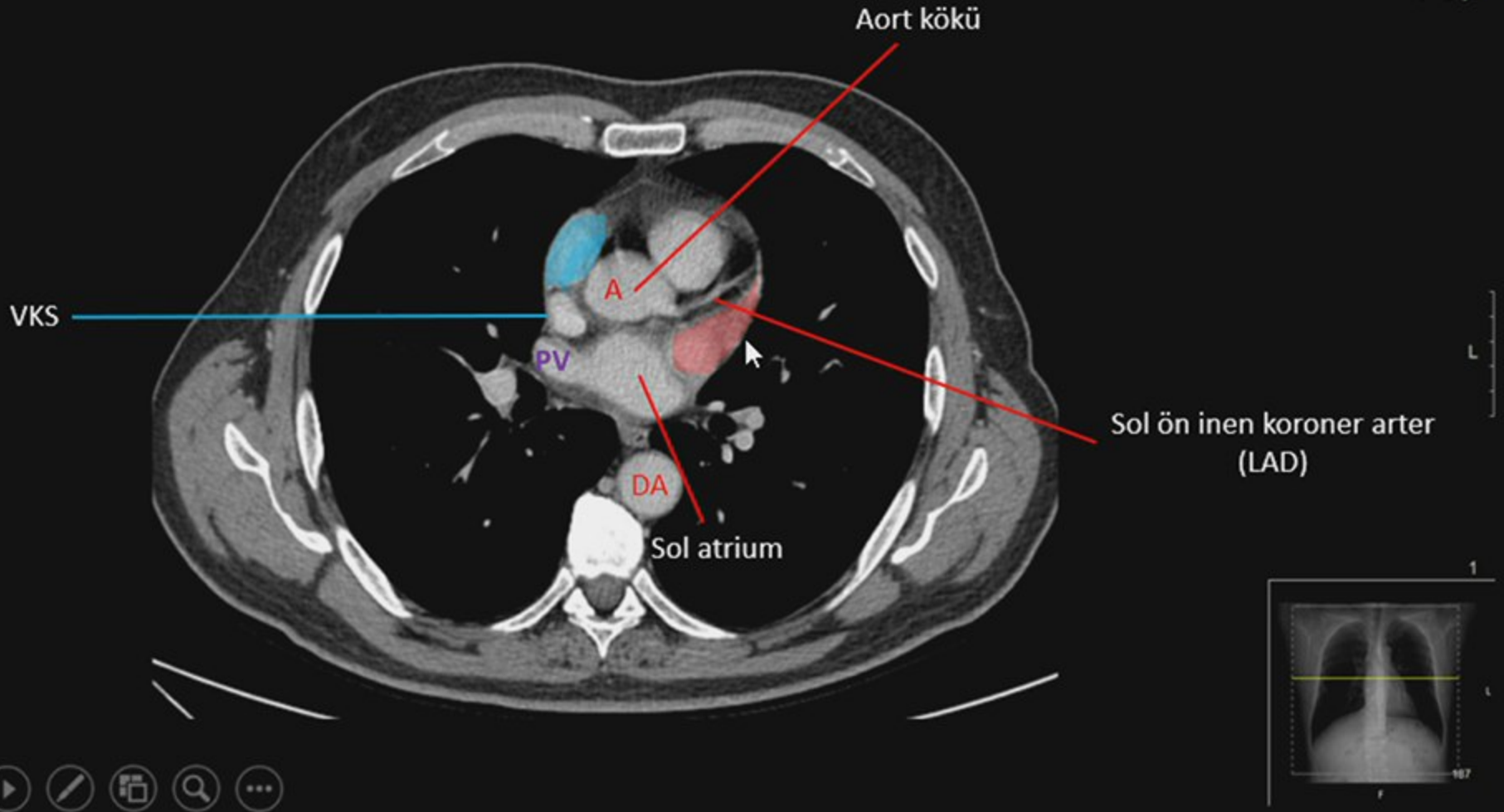


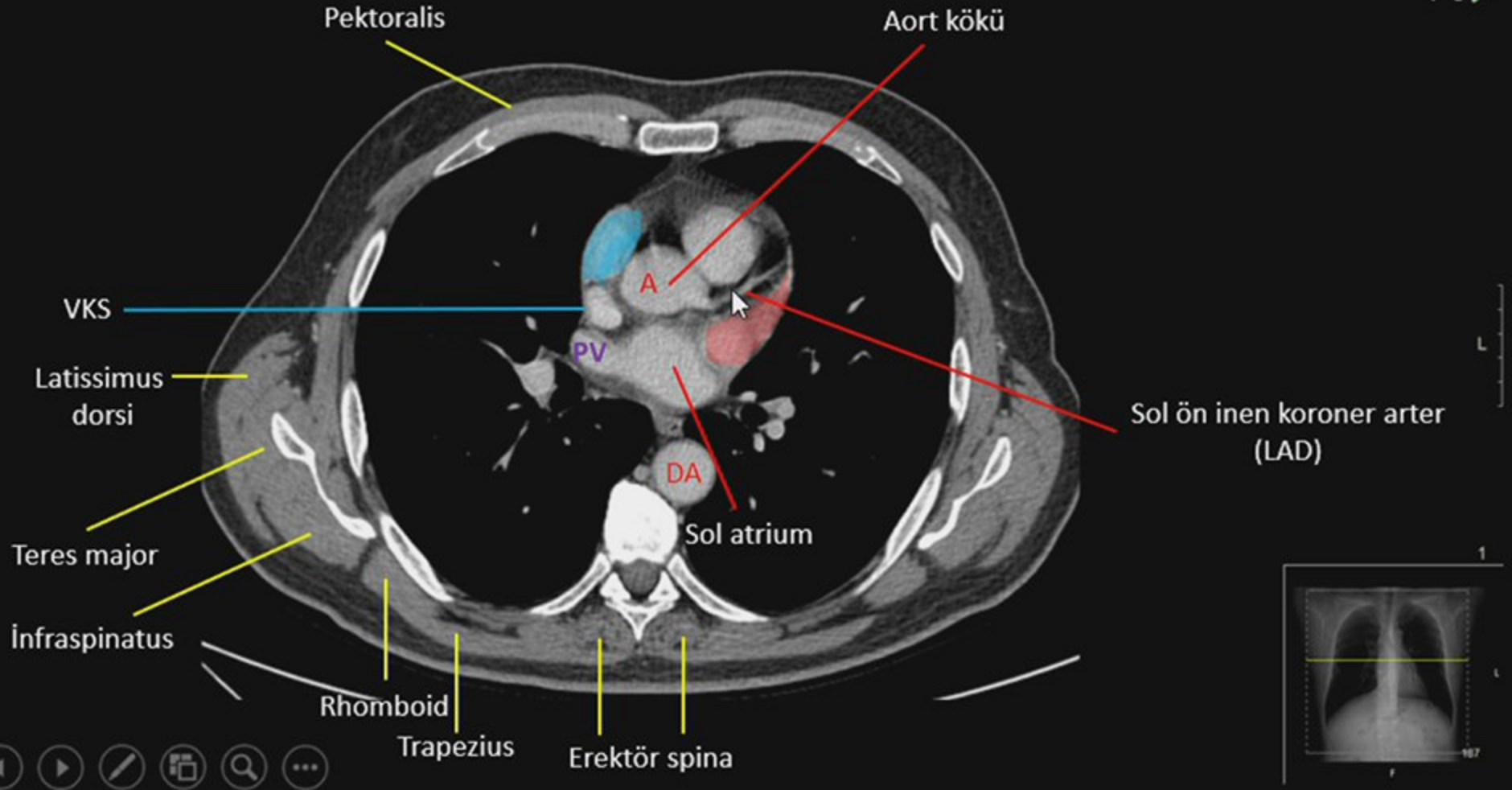
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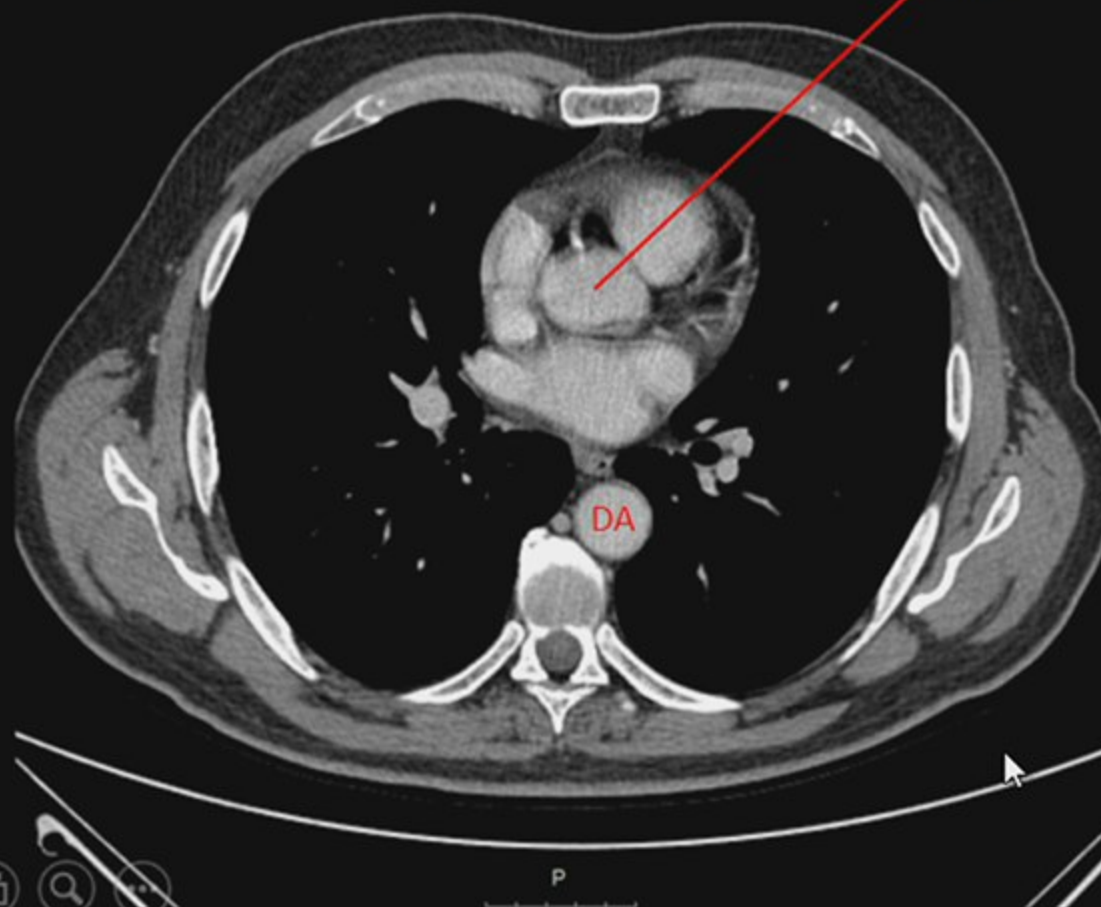
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C: 40,0, W: 400,0

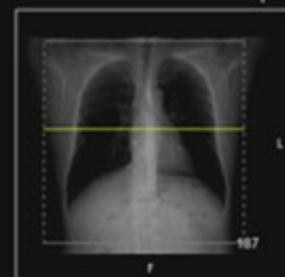
Abdomen 9/13



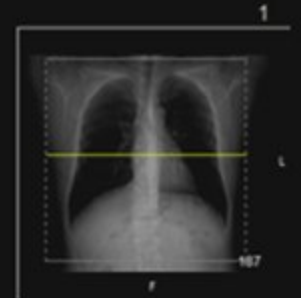
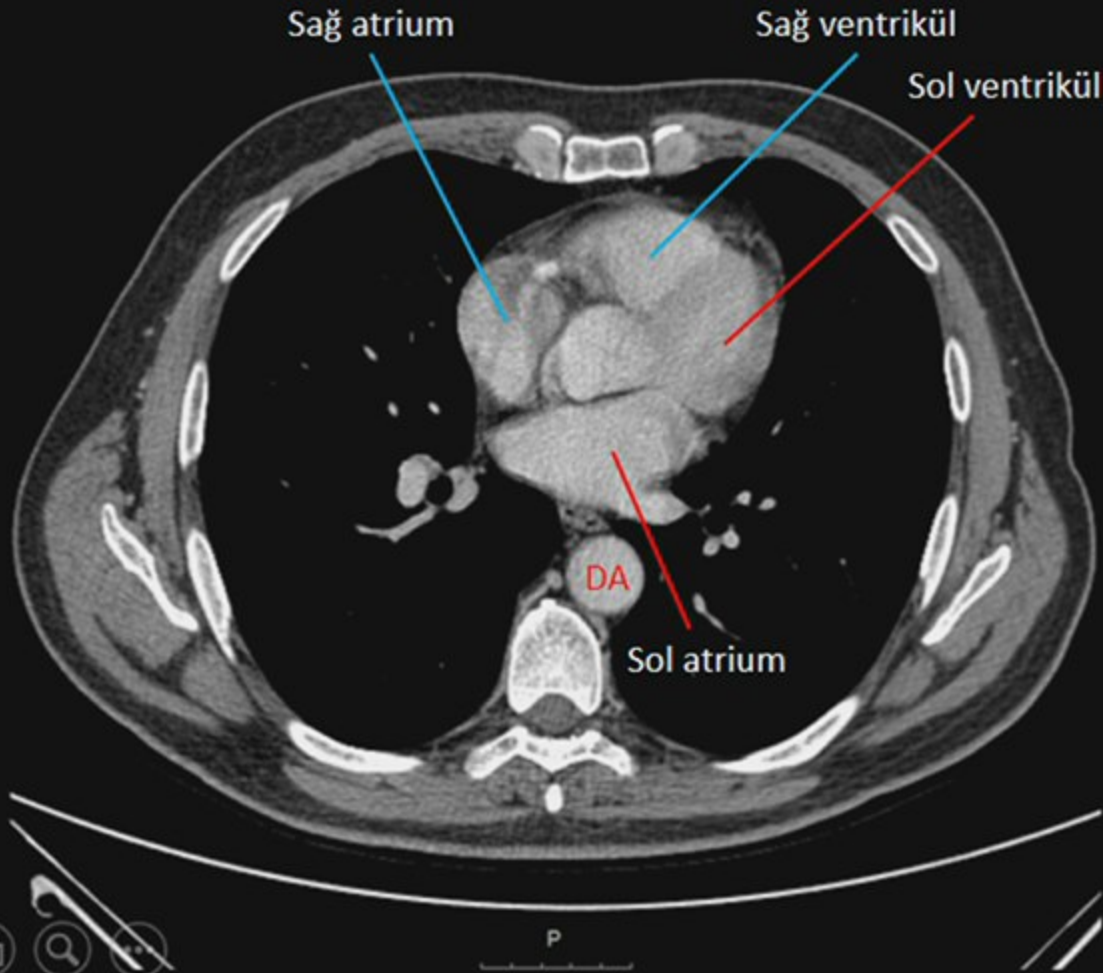
Aort kökü

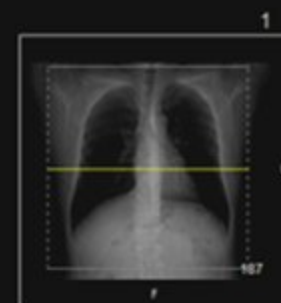
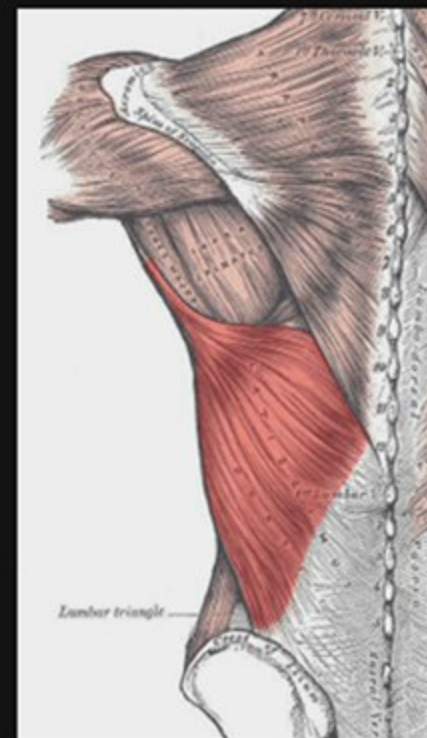
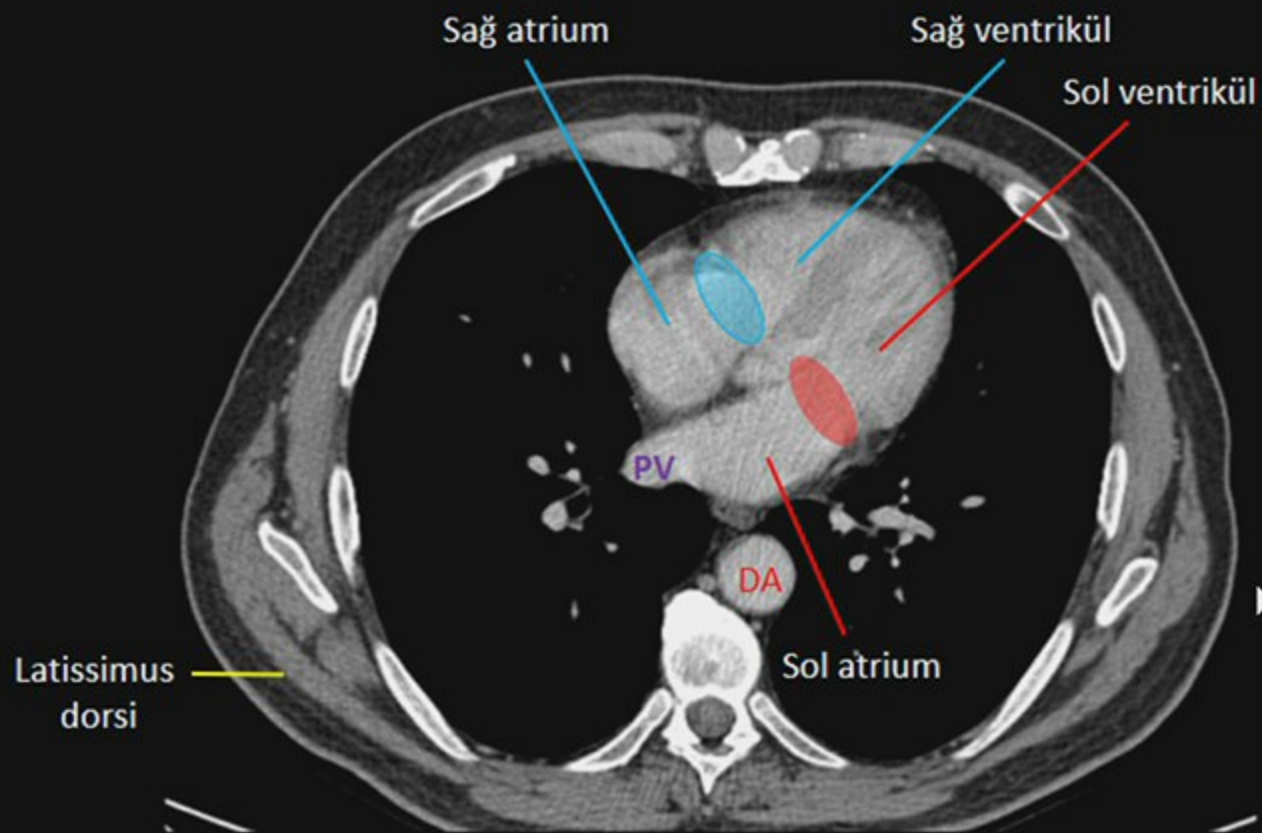


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9 EYLUL UNIV HST
C: 40,0, W: 400,0
Abdomen 9/13
Z R L





9 EYLUL UNIV HST

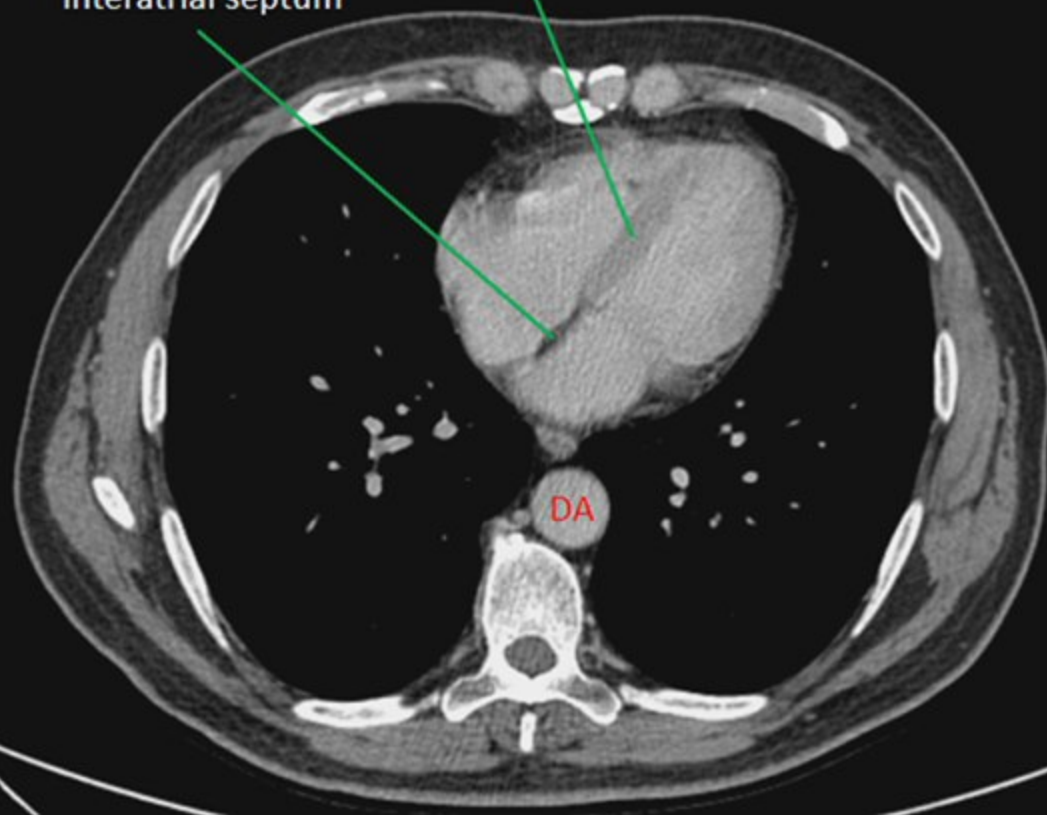
C: 40,0, W: 400,0

Abdomen 9/13



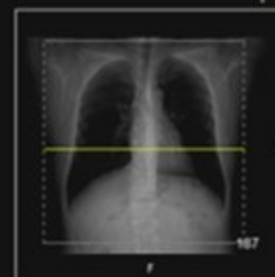
İnterventriküler septum

İnteratrial septum



L

1



9 EYLUL UNIV HST

C: 40,0, W: 400,0

Abdomen 9/13



Interv
Interatrial septum

Epikardial yağ

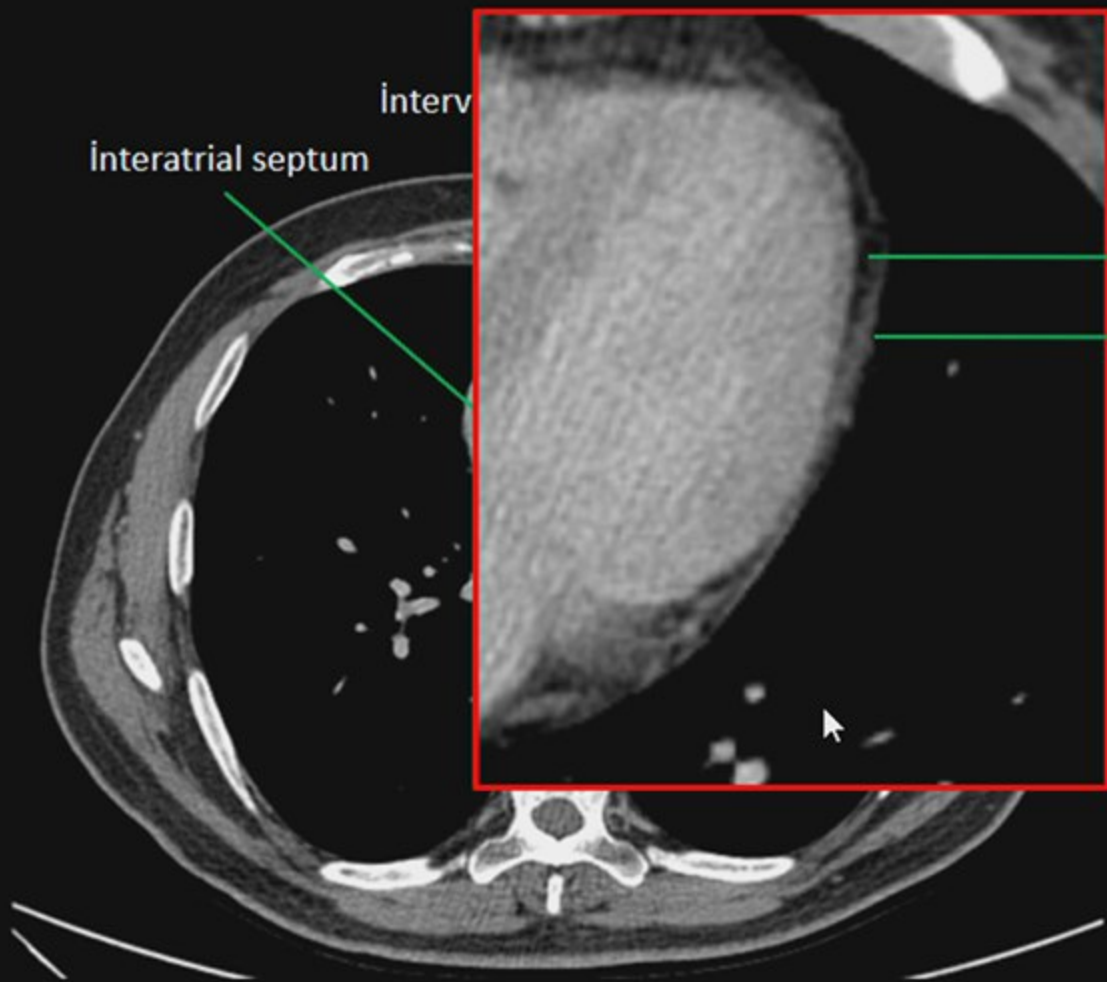
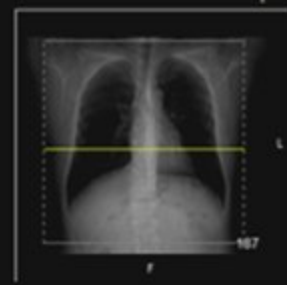
Perikard

L

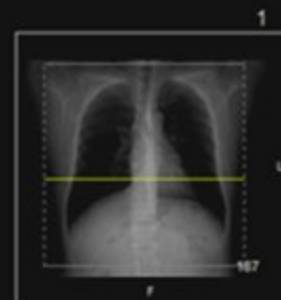
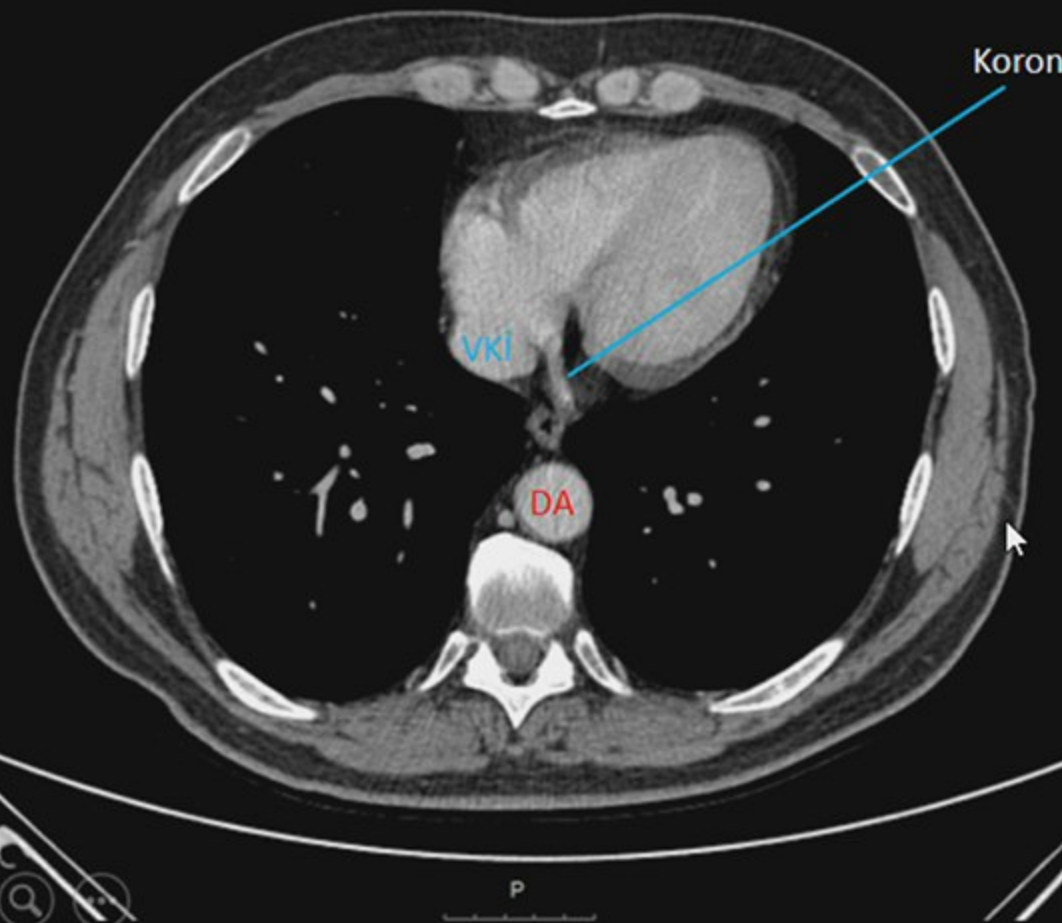
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L

107



9 EYLUL UNIV HST
C: 40,0, W: 400,0
Abdomen 9/13
Z R L



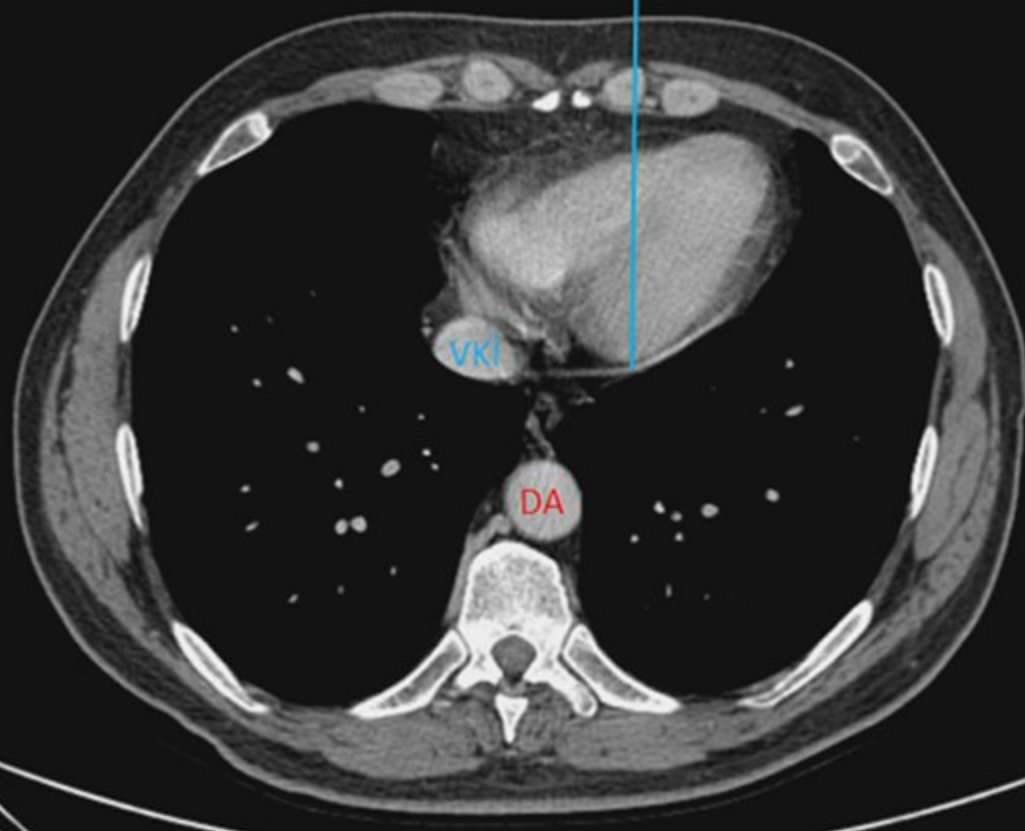
9 EYLUL UNIV HST

C: 40,0, W: 400,0

Abdomen 9/13



Frenik venler

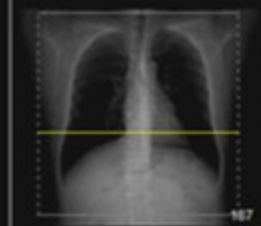


VKI

DA

L

1



L

167

P



9 EYLUL UNIV HST

C: 40,0, W: 400,0

Abdomen 9/13



Frenik venler

VKI

DA

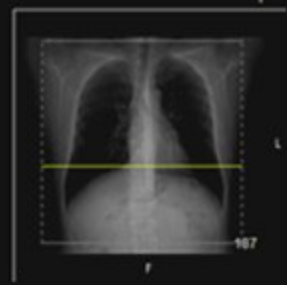
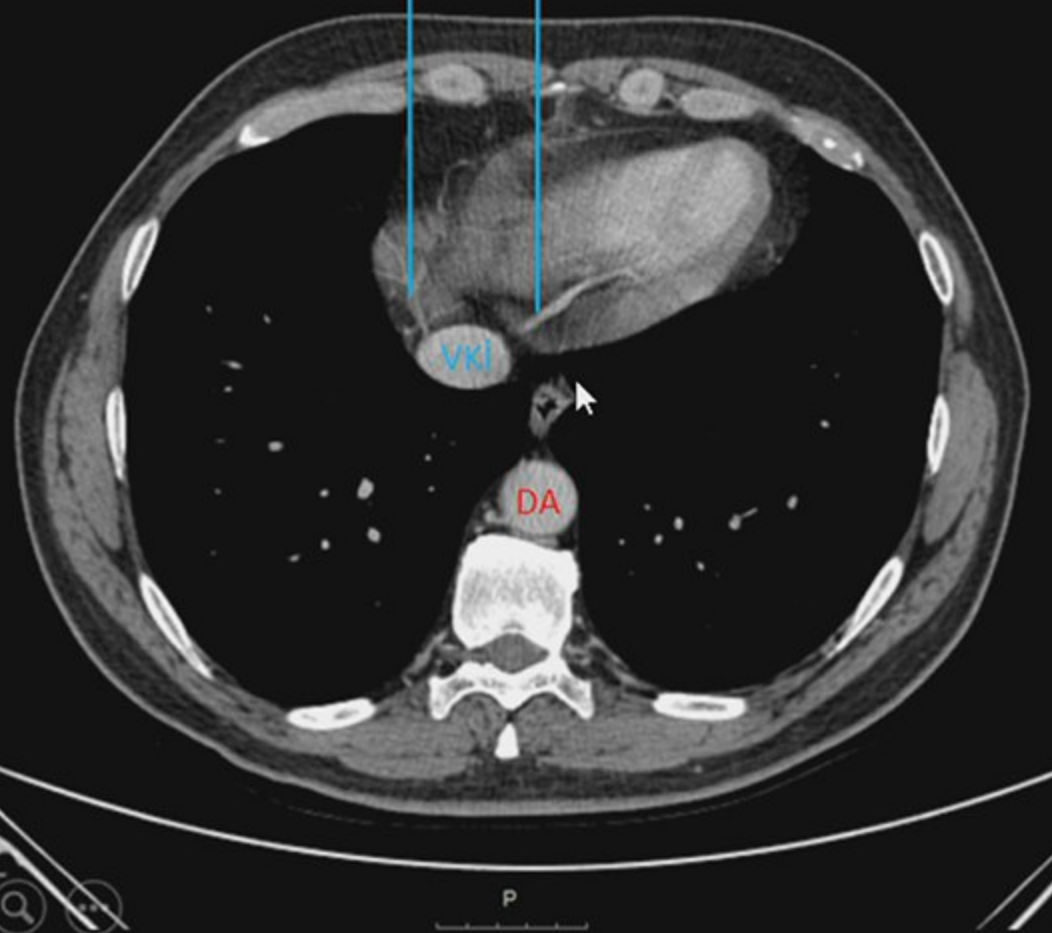
L

1

L

167

P



9 EYLUL UNIV HST
C: 40,0, W: 400,0
Abdomen 9/13
Z R L



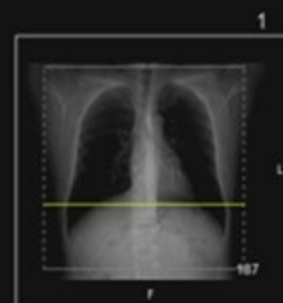
L

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P

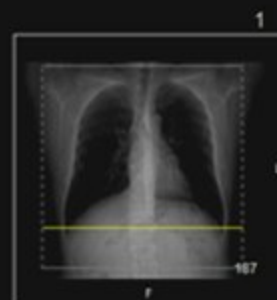
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C: 40,0, W: 400,0
Abdomen 9/13
Z R L

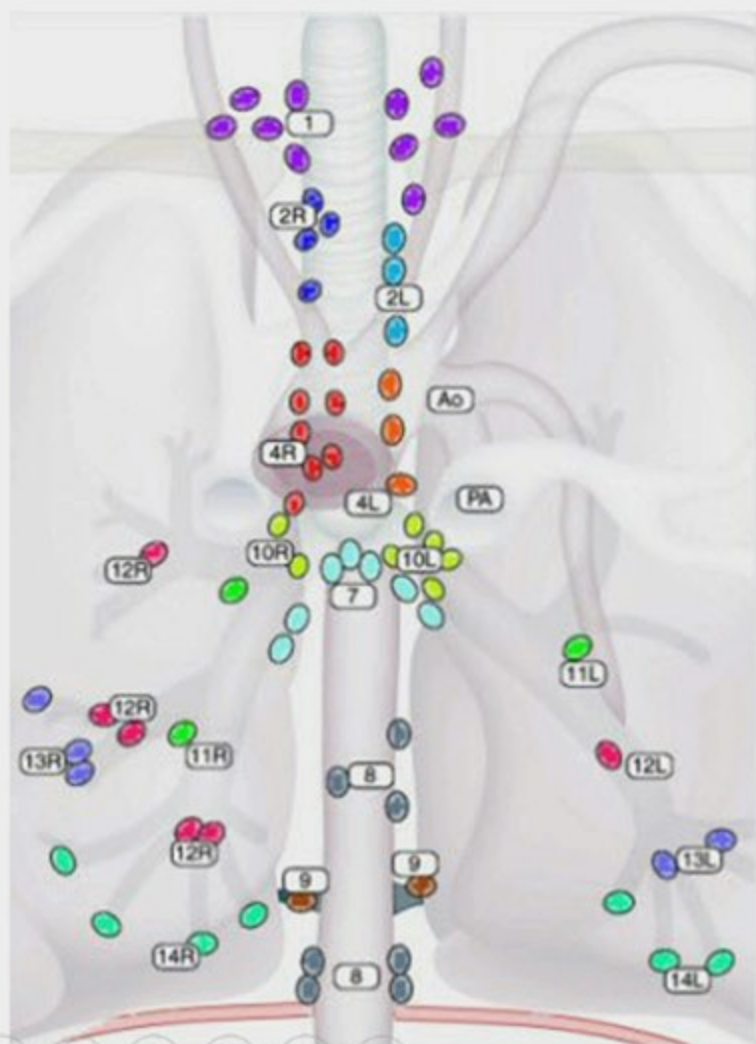


9 EYLUL UNIV HST

C: 40,0, W: 400,0

Abdomen 9/13





Supraclavicular zone

- 1. Low cervical, supraclavicular and sternal notch nodes

Superior mediastinal nodes

Upper zone

- 2R. Upper paratracheal (right)
- 2L. Upper paratracheal (left)
- 3a. Prevascular
- 3p. Retrotracheal
- 4R. Lower paratracheal (right)
- 4L. Lower paratracheal (left)

AP zone

- 5. Subaortic
- 6. Para-aortic (ascending aorta or phrenic)

Aortic nodes

Inferior mediastinal nodes

Subcarinal zone

- 7. Subcarinal

Lower zone

- 8. Paraesophageal (below carina)
- 9. Pulmonary ligament

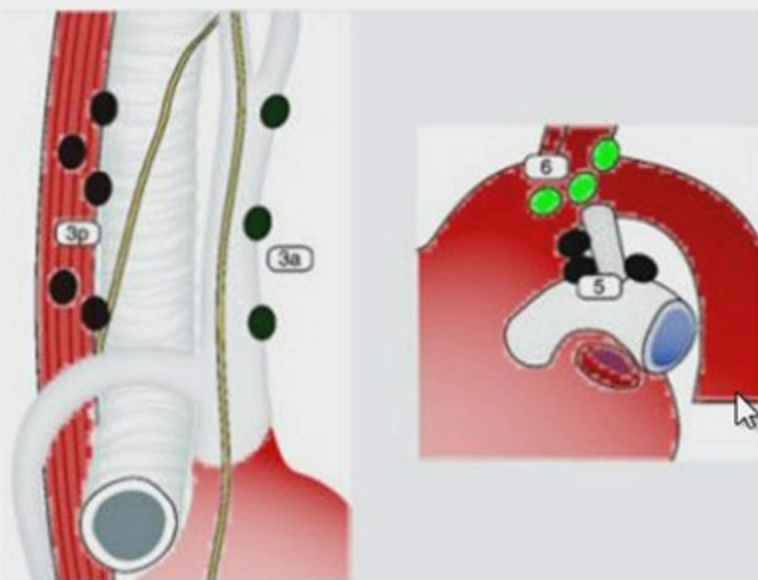
N1 nodes

Hilar/interlobar zone

- 10. Hilar
- 11. Interlobar

Peripheral zone

- 12. Lobar
- 13. Segmental
- 14. Subsegmental



Supraclavicular zone

- 1. Low cervical, supraclavicular and sternal notch nodes

Superior mediastinal nodes

Upper zone

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N1 nodes

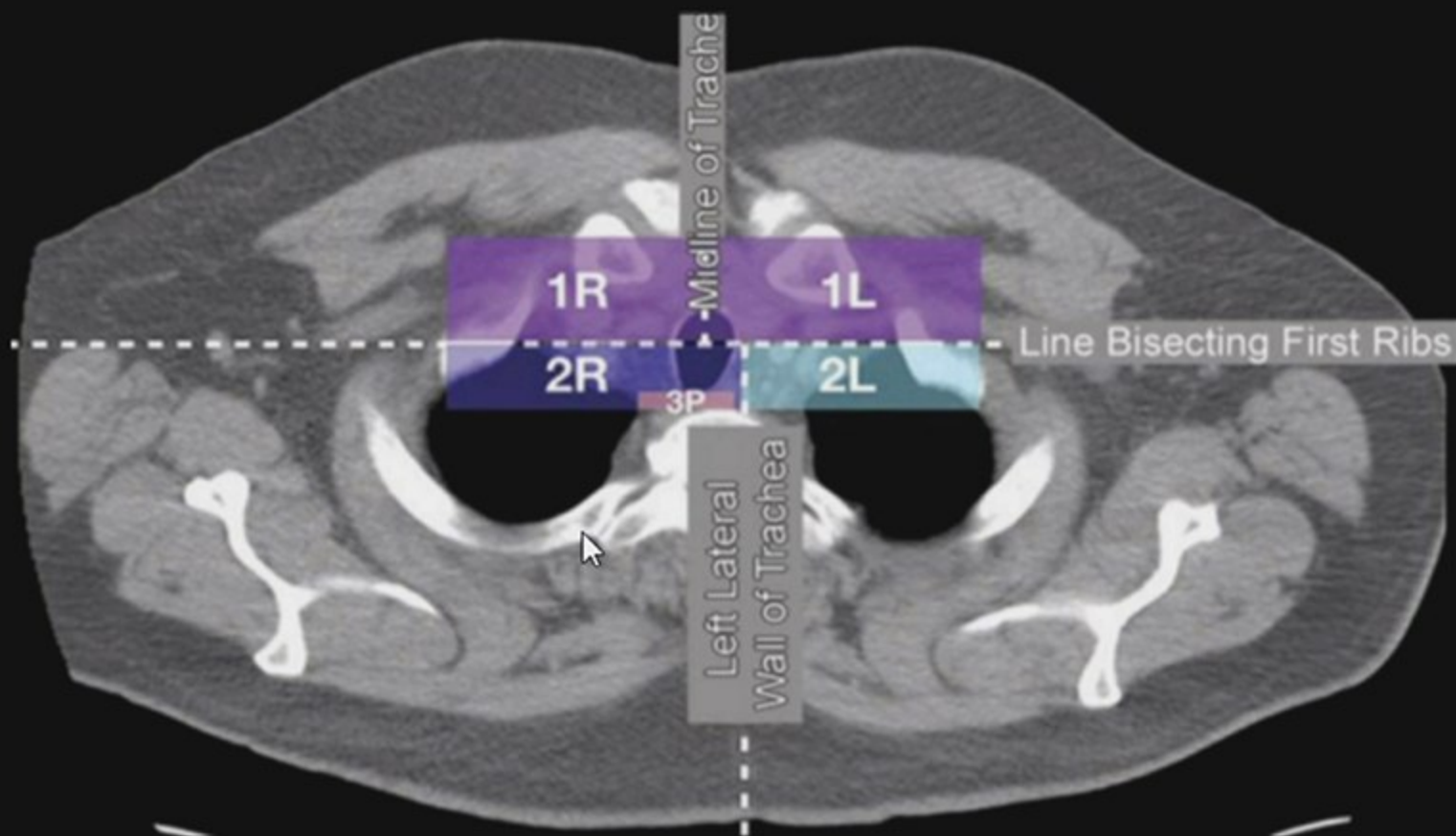
Hilar/interlobar zone

- 10. Hilar
- 11. Interlobar

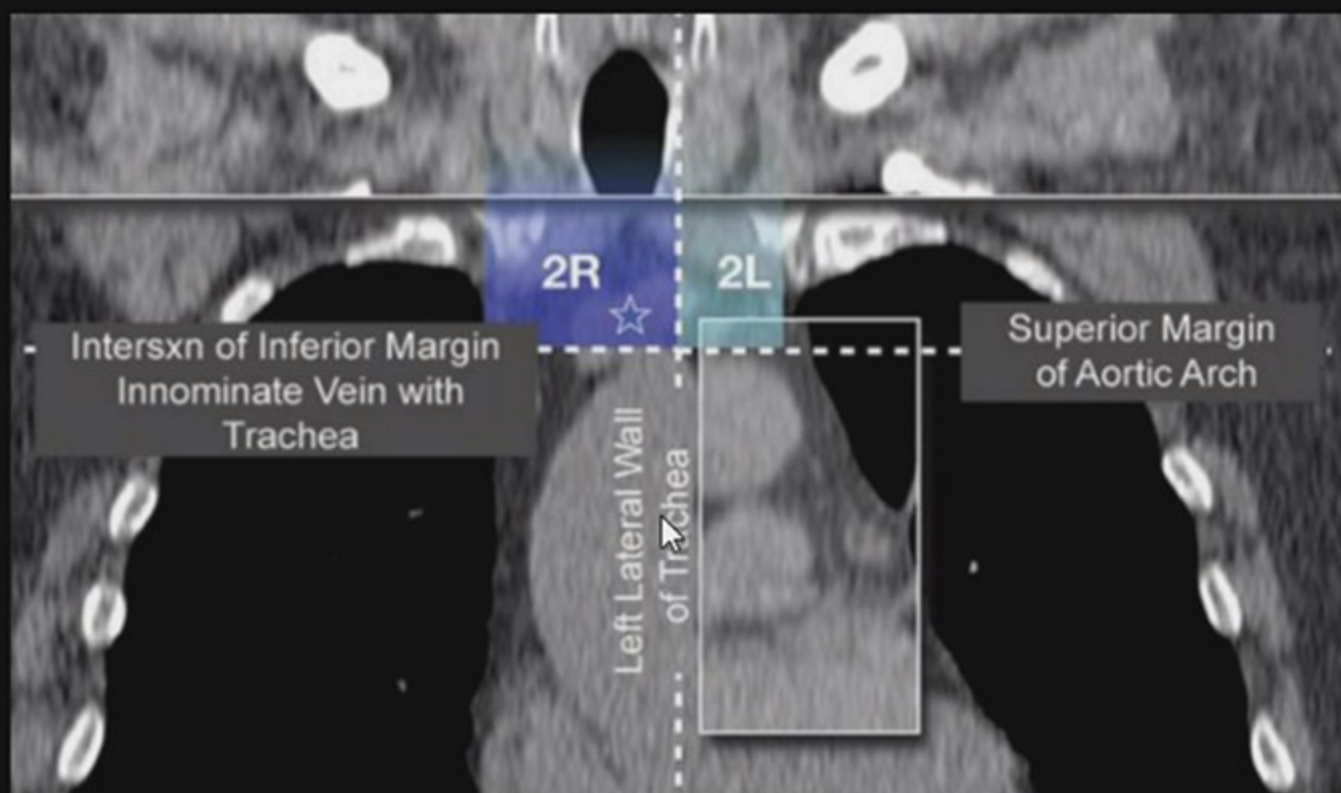
Peripheral zone

- 12. Lobar
- 13. Segmental
- 14. Subsegmental

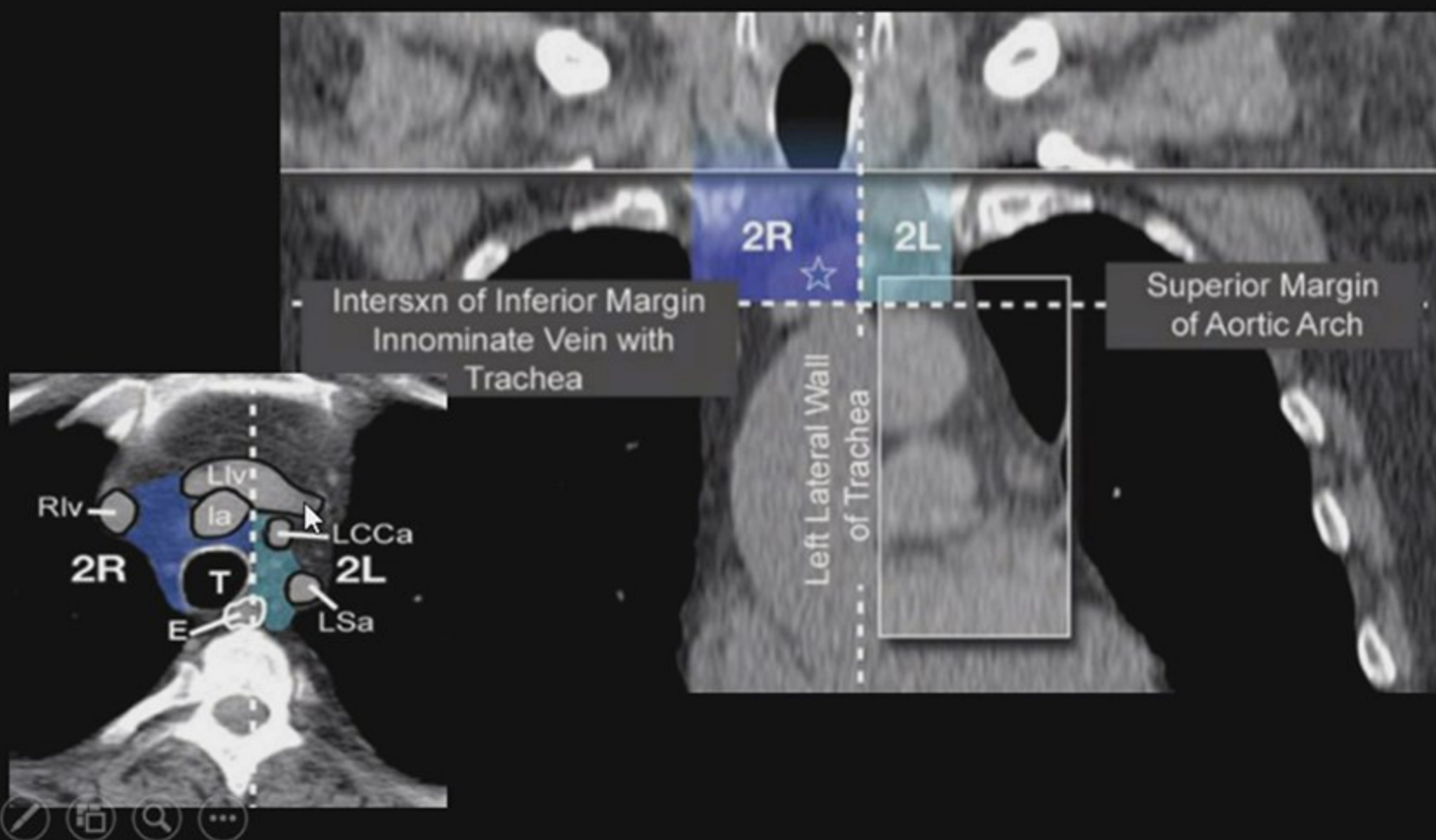
Alt servikal - Supraklavikular - Sternal çentik



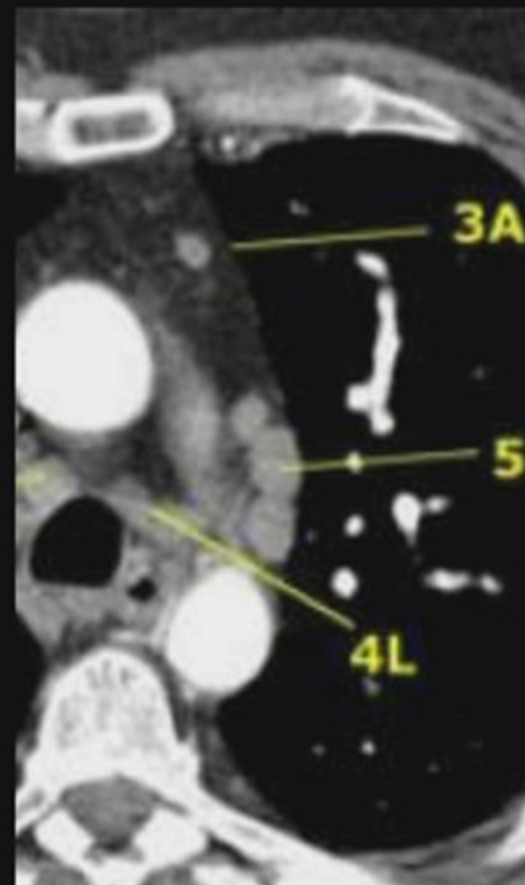
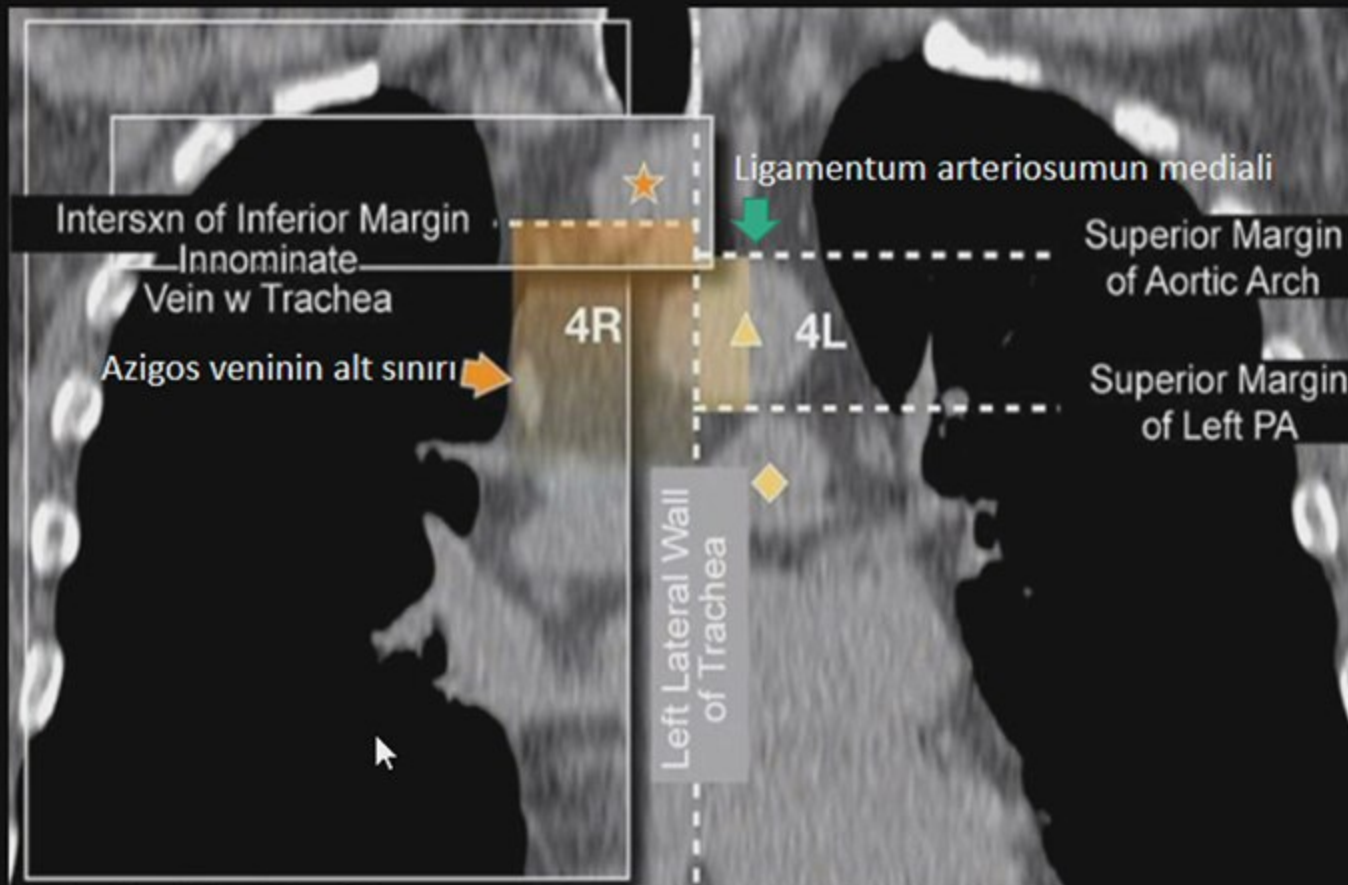
Üst paratrakeal



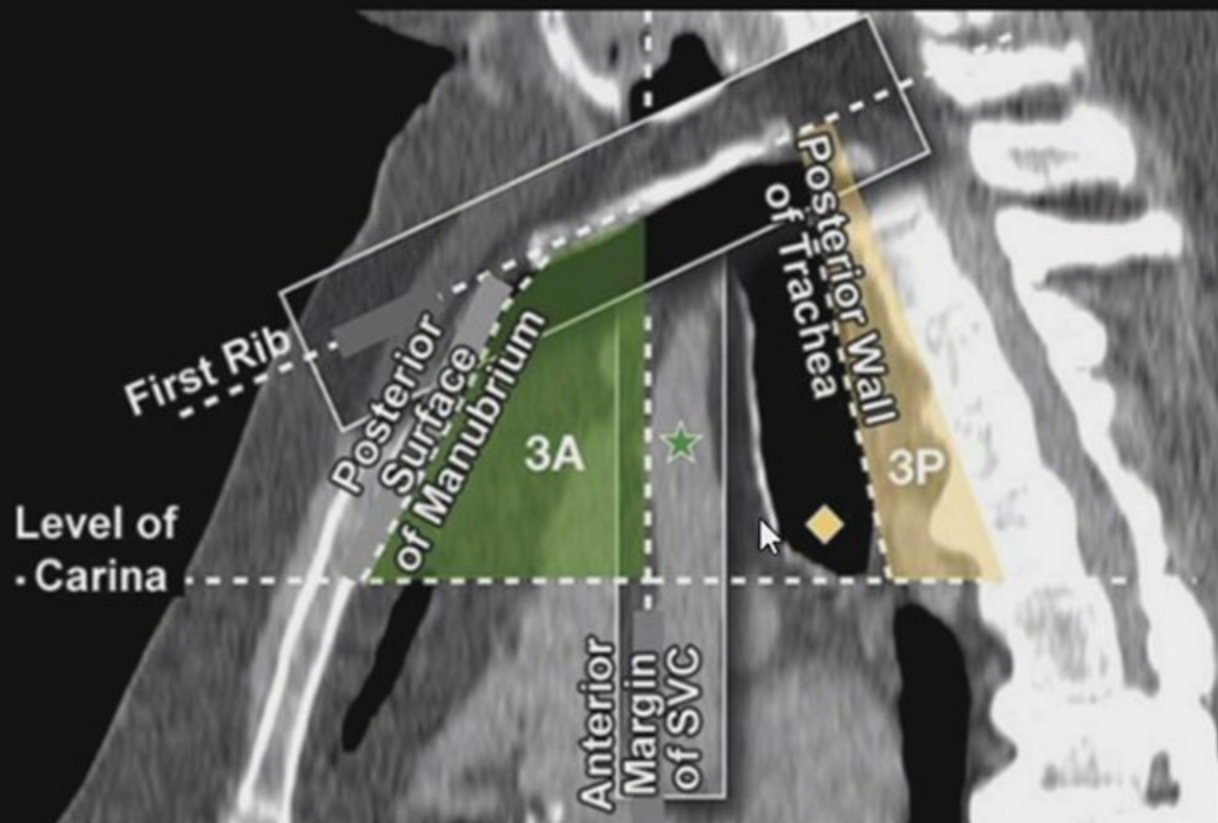
Üst paratrakeal



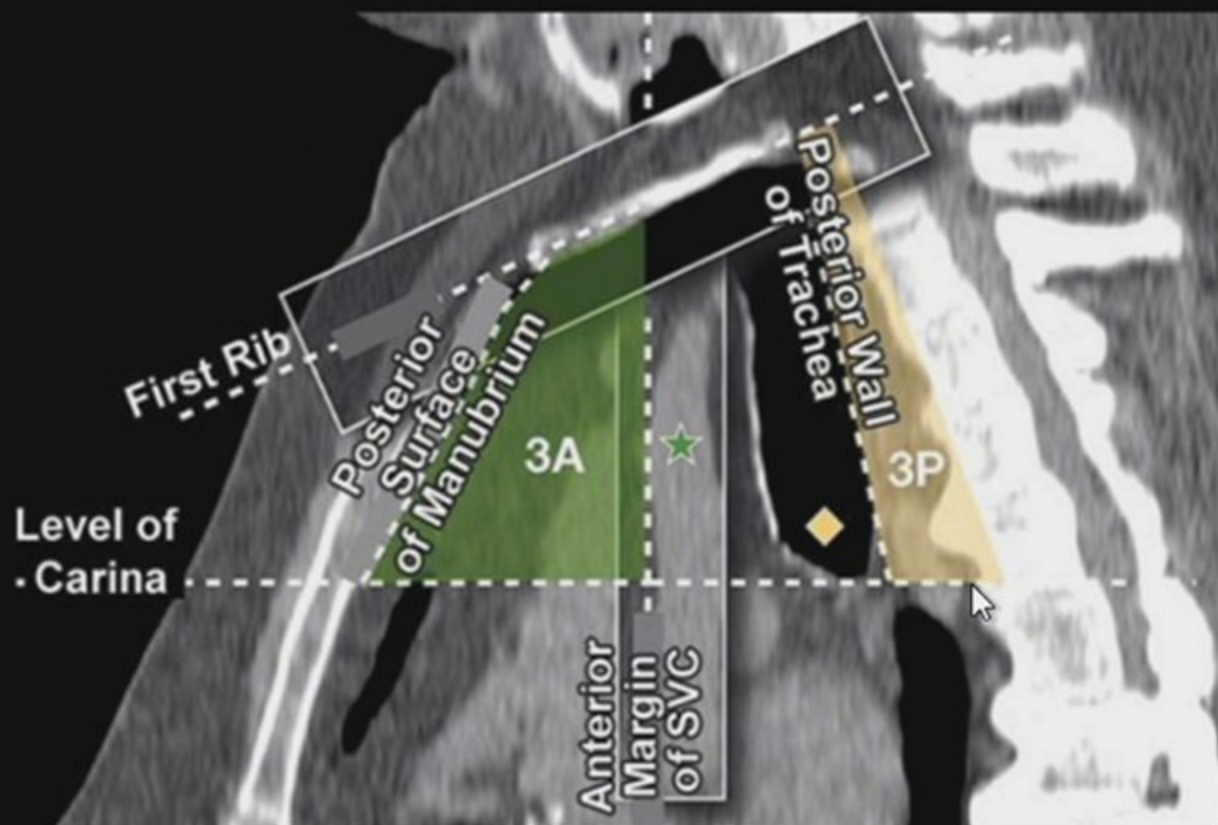
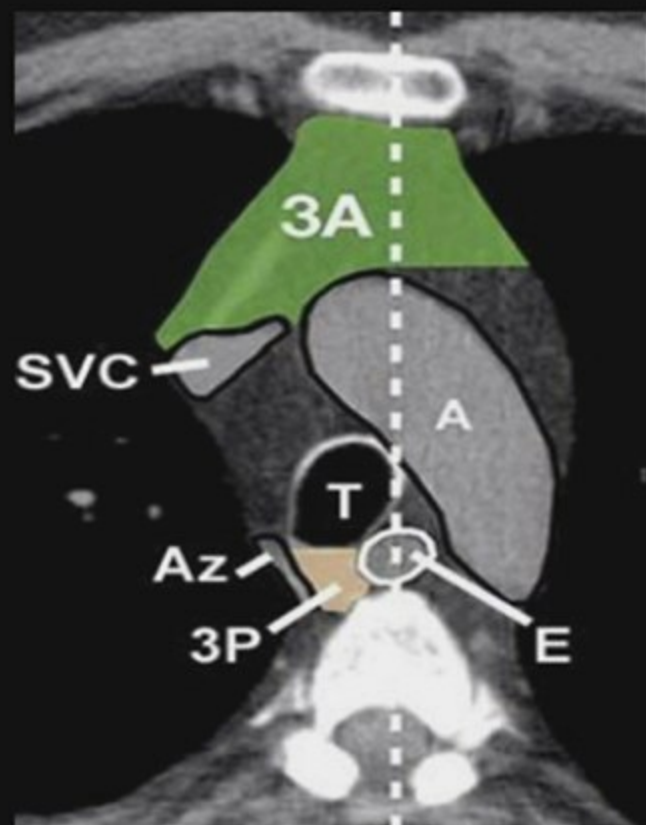
Alt paratracheal



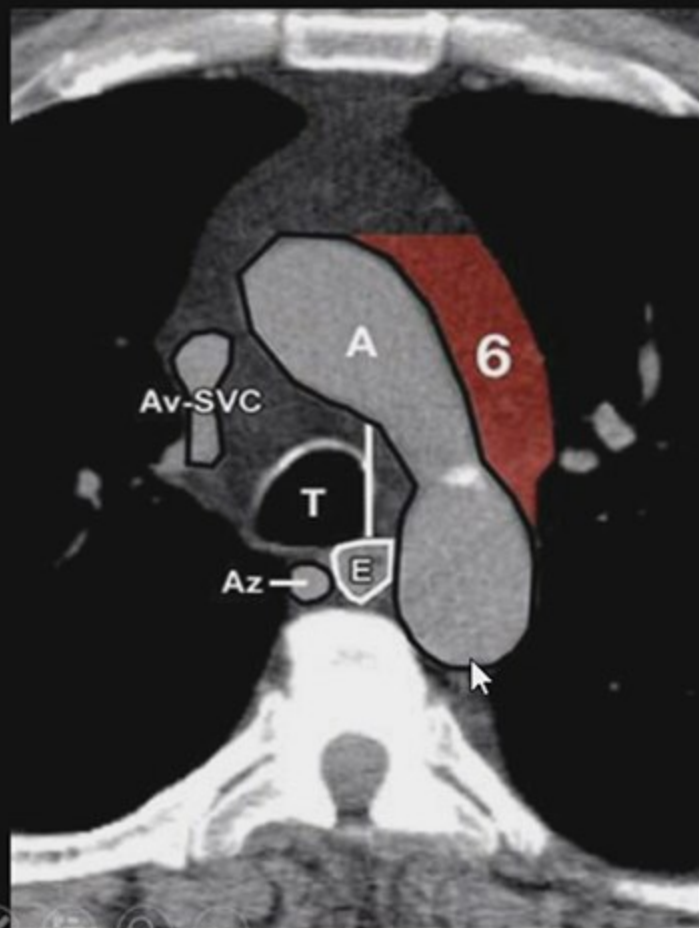
Prevasküler - Retrotrakeal



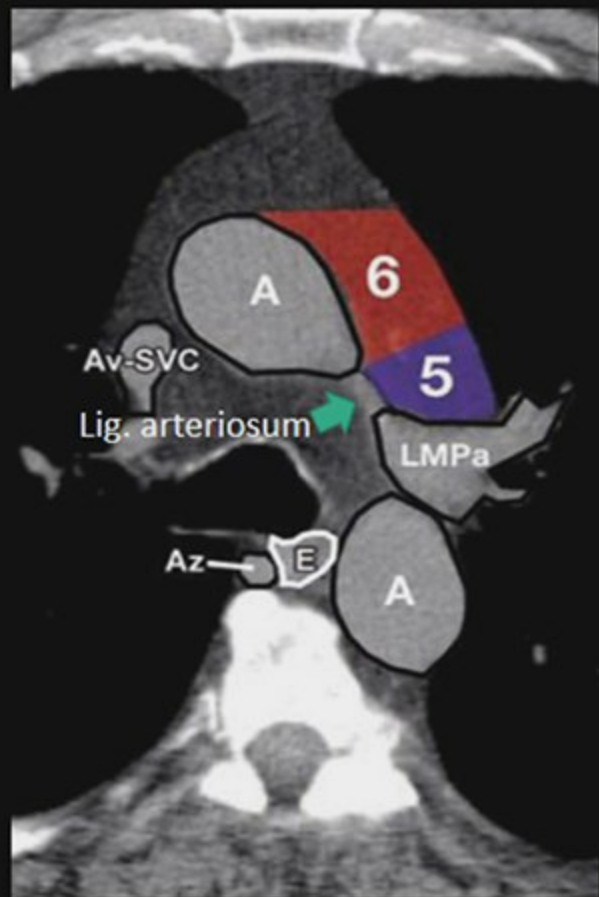
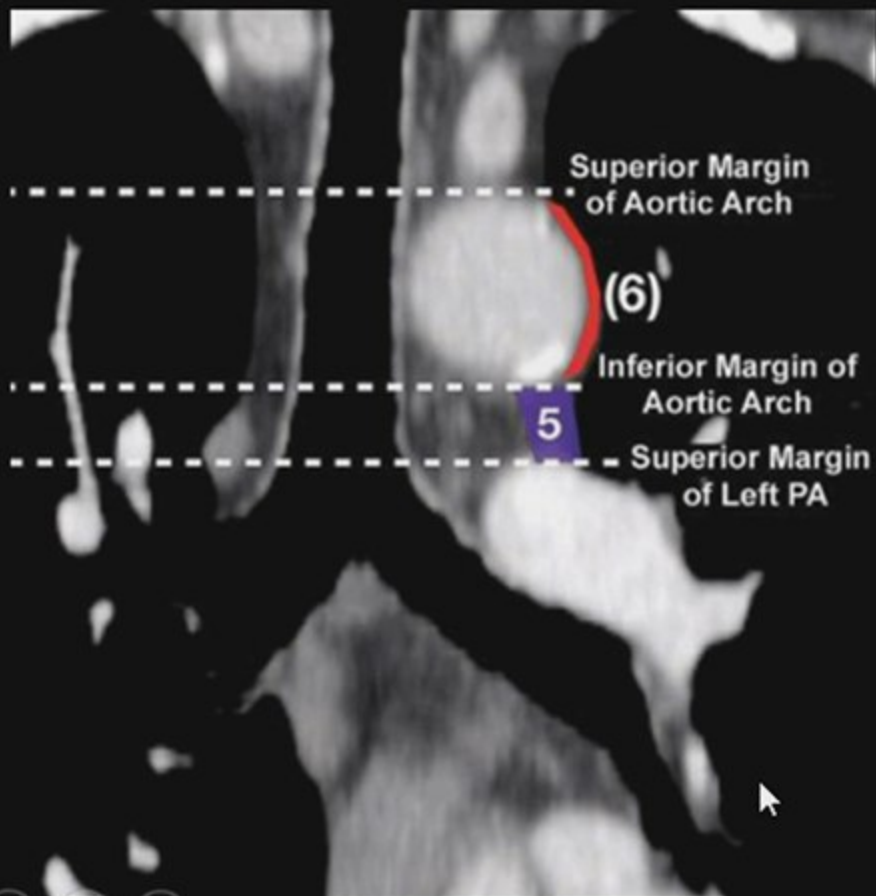
Prevasküler - Retrotrakeal



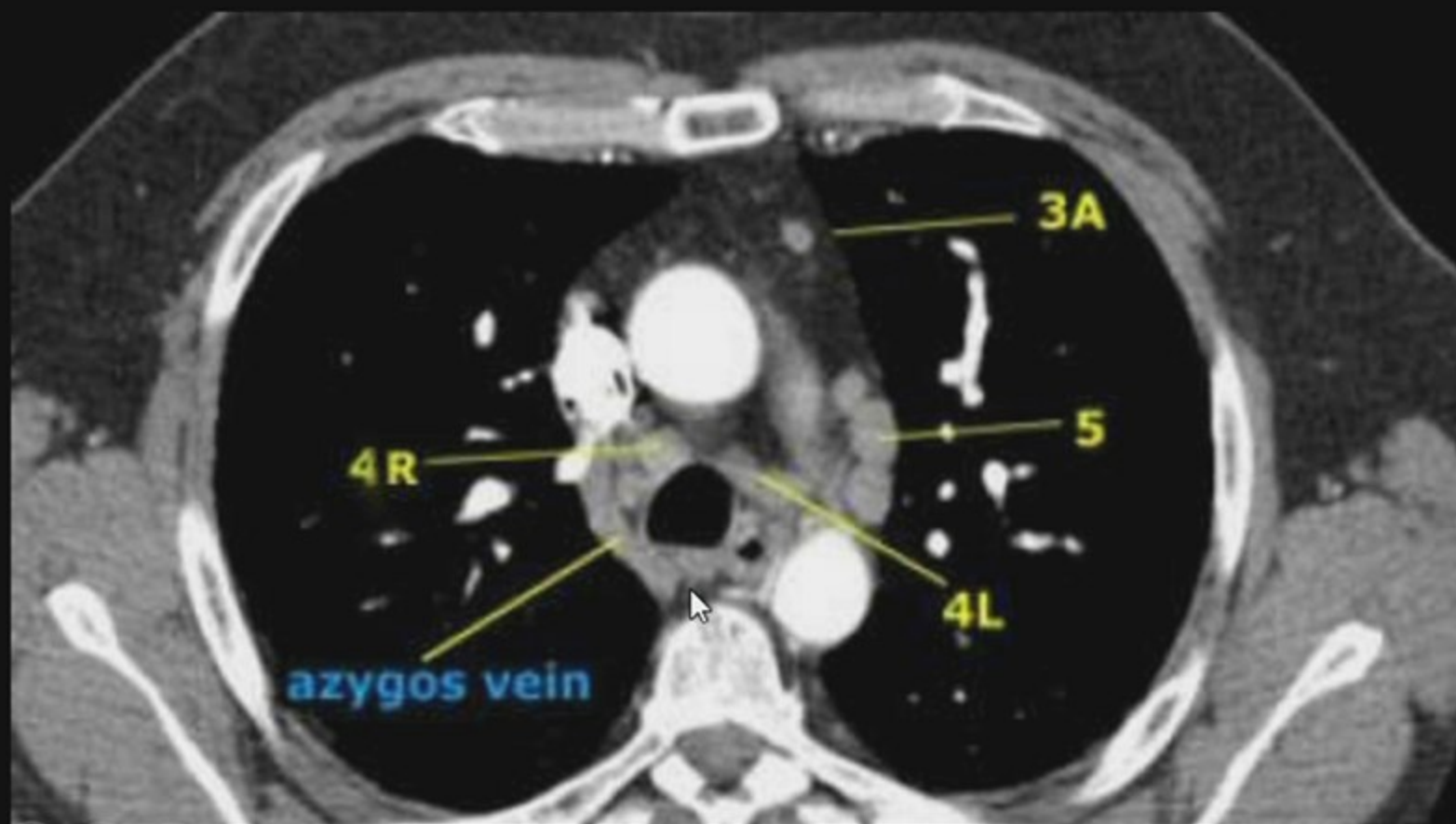
Paraaortik



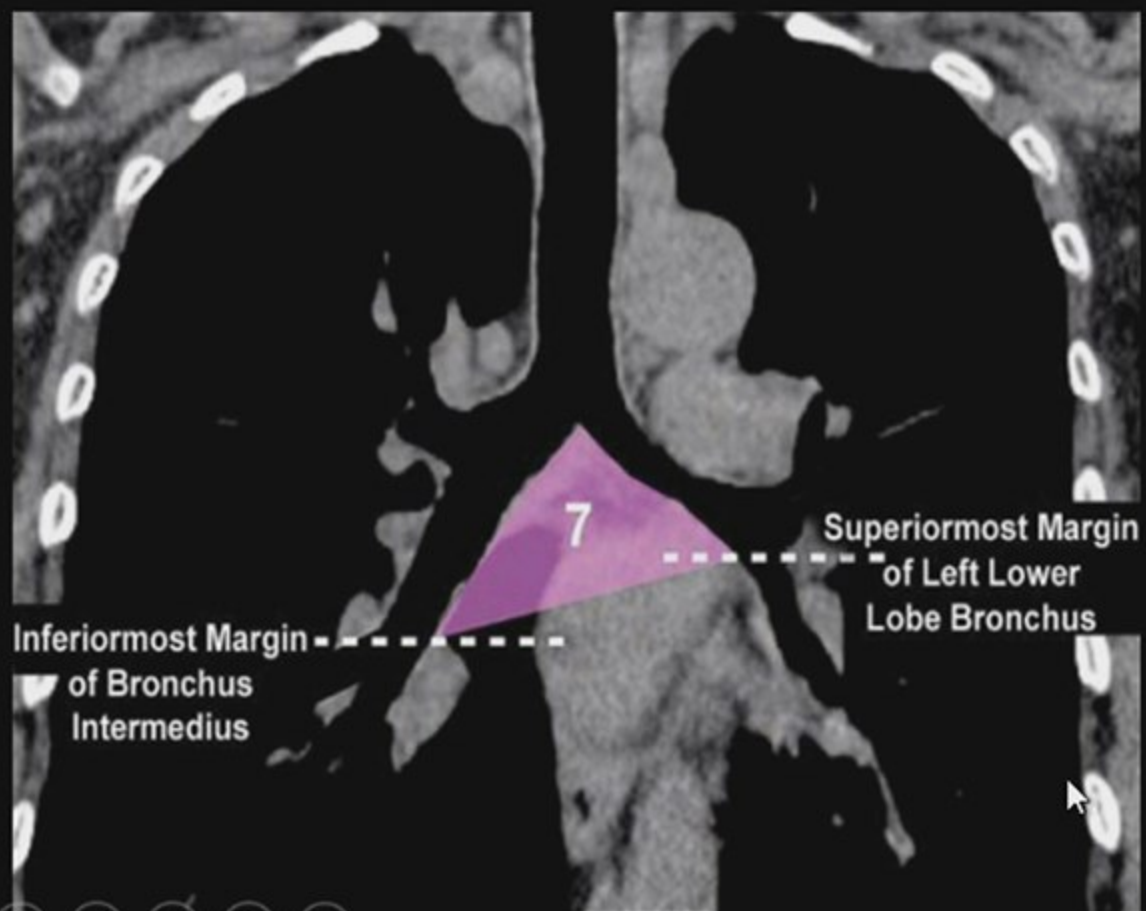
Paraaortik – Subaortik (Aortikopulmoner pencere)



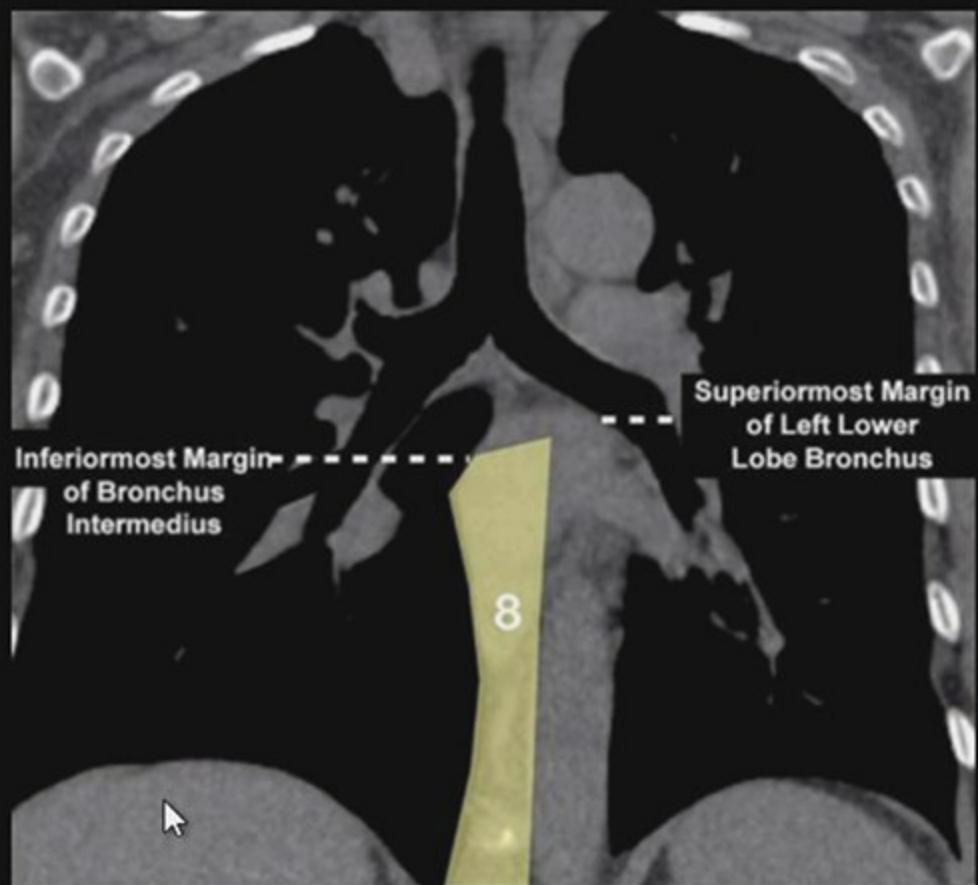
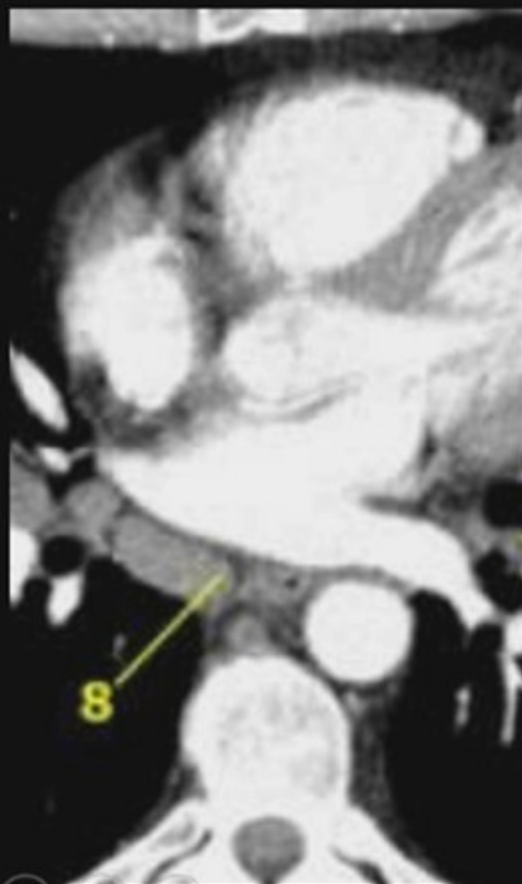
Paratracheal- Subaortik



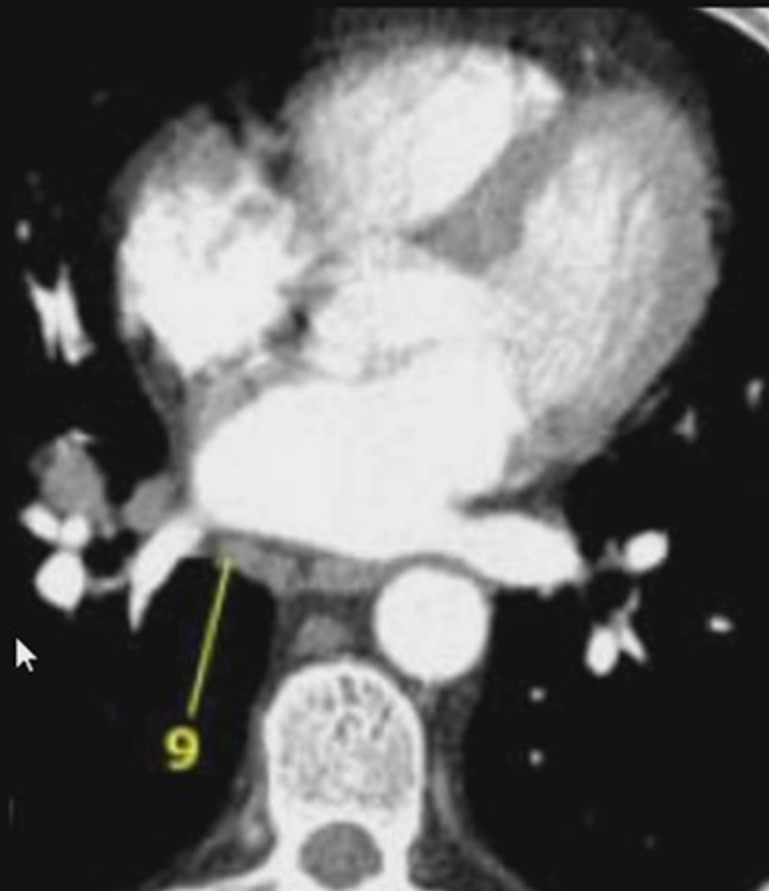
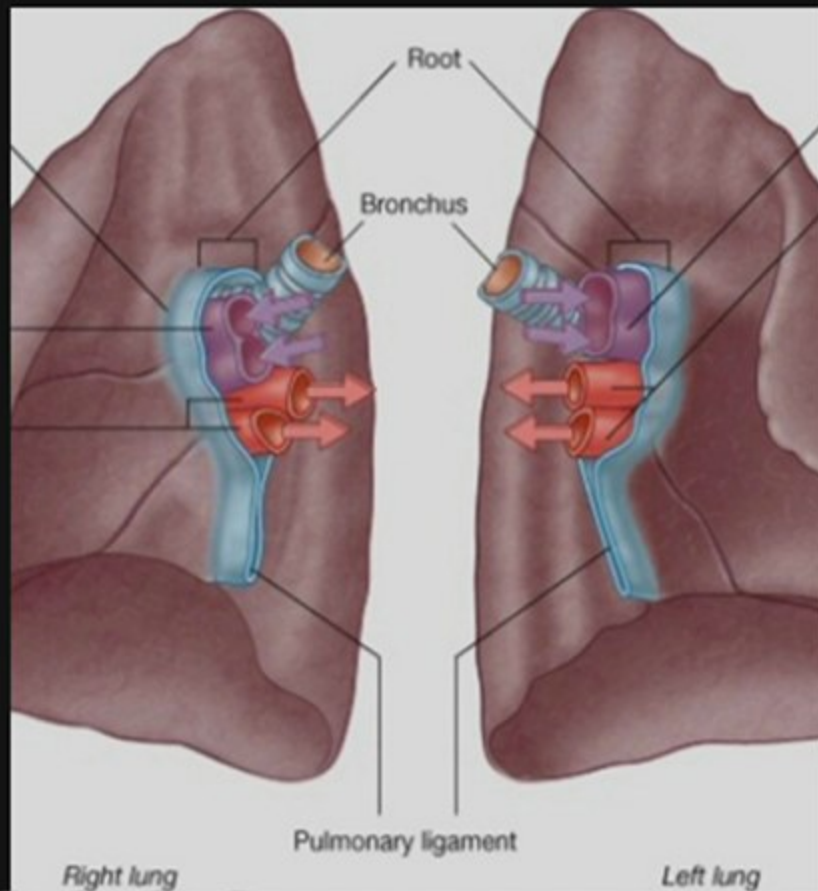
Subkarinal



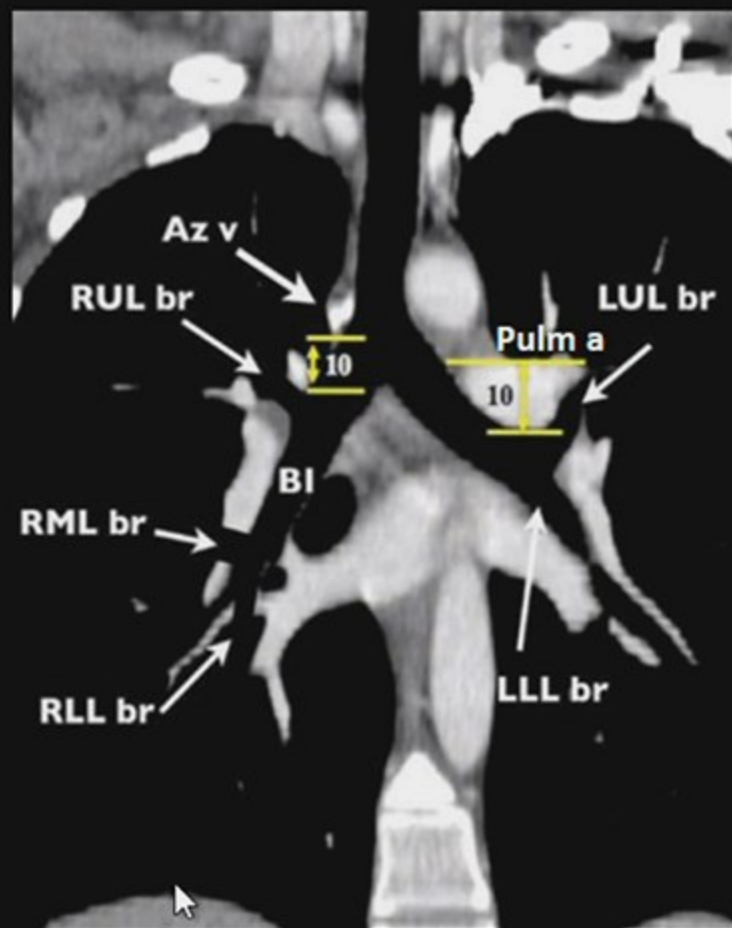
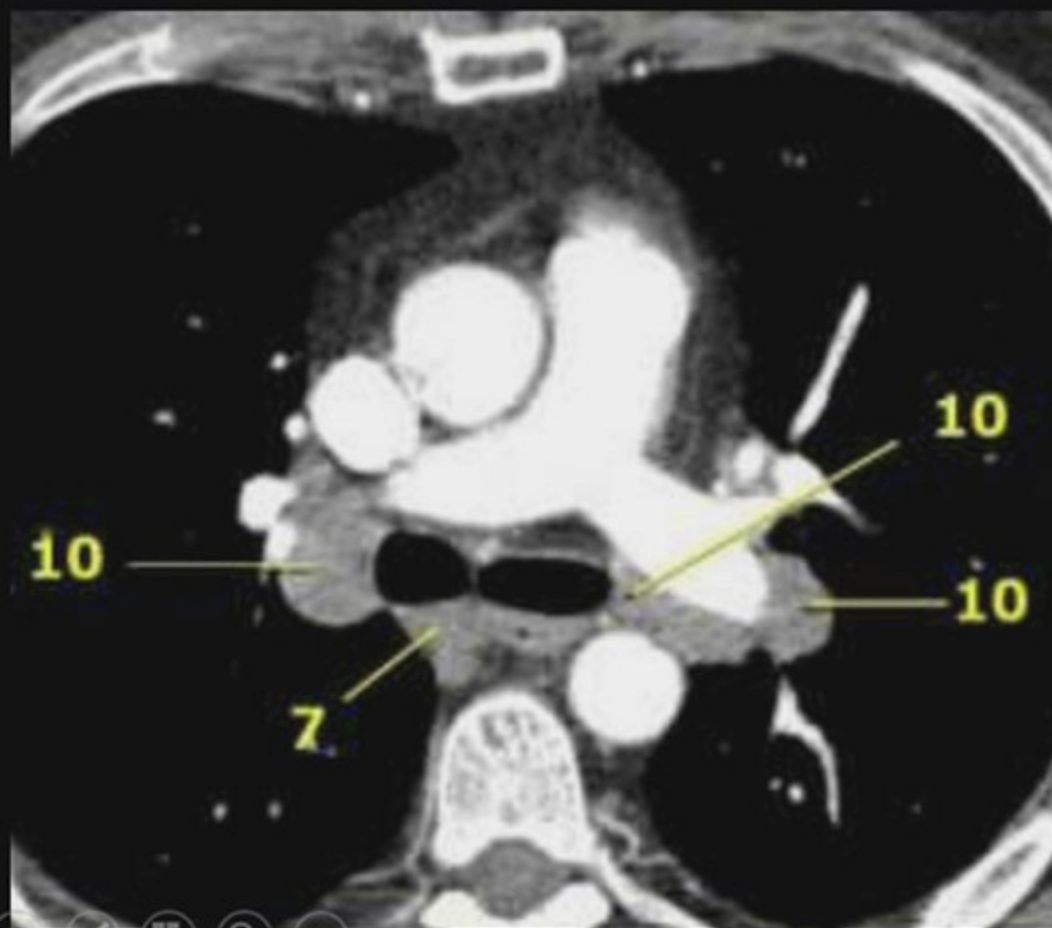
Paraözefageal



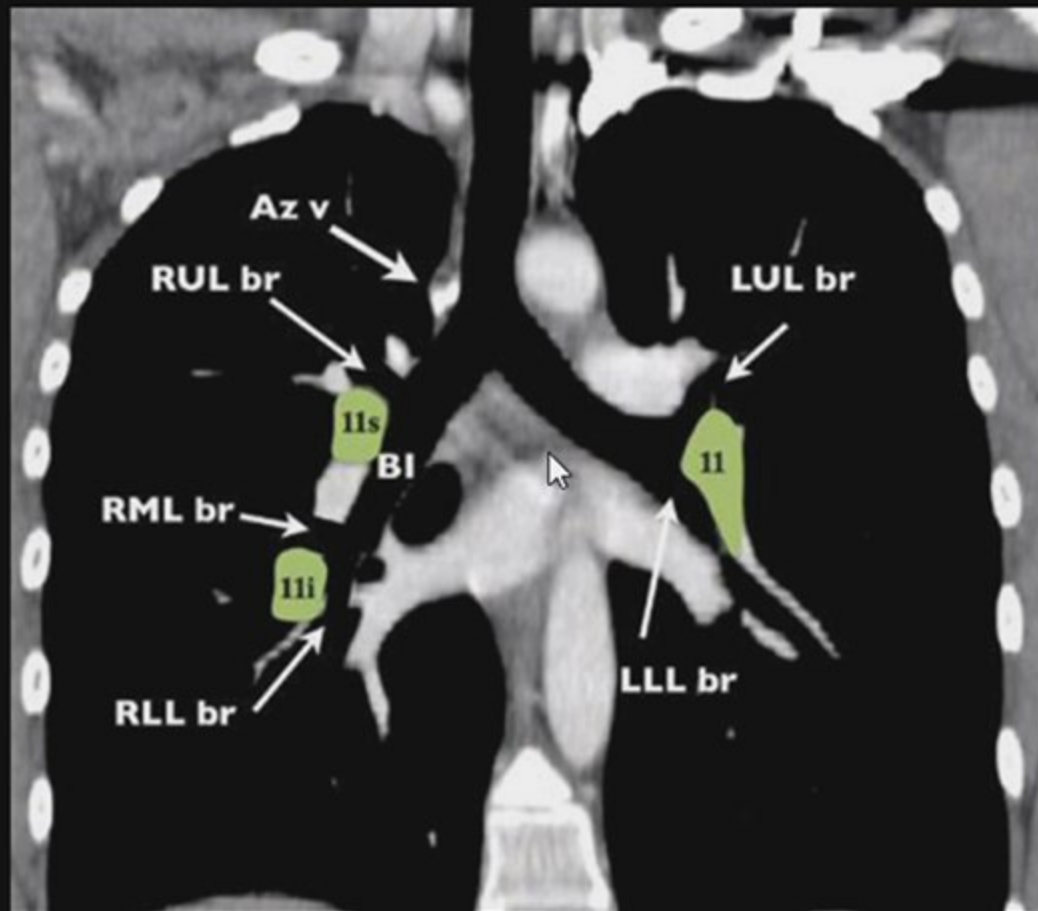
Pulmoner ligaman



Hiler

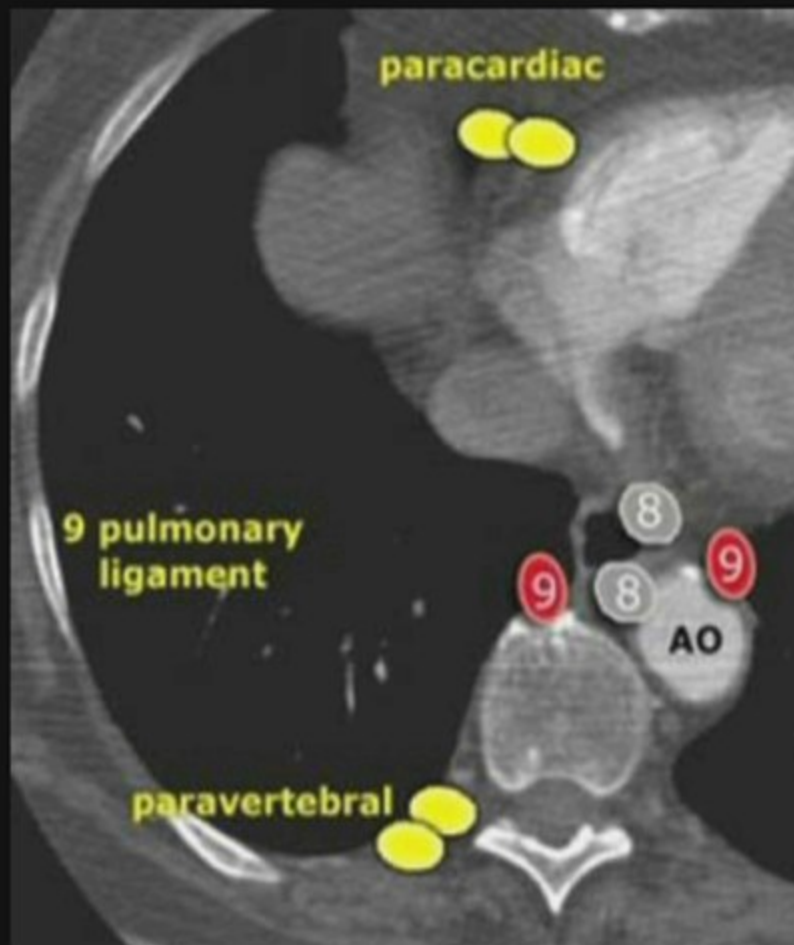


Interlobar - Lobar - Segmental - Subsegmental



internal mammarian

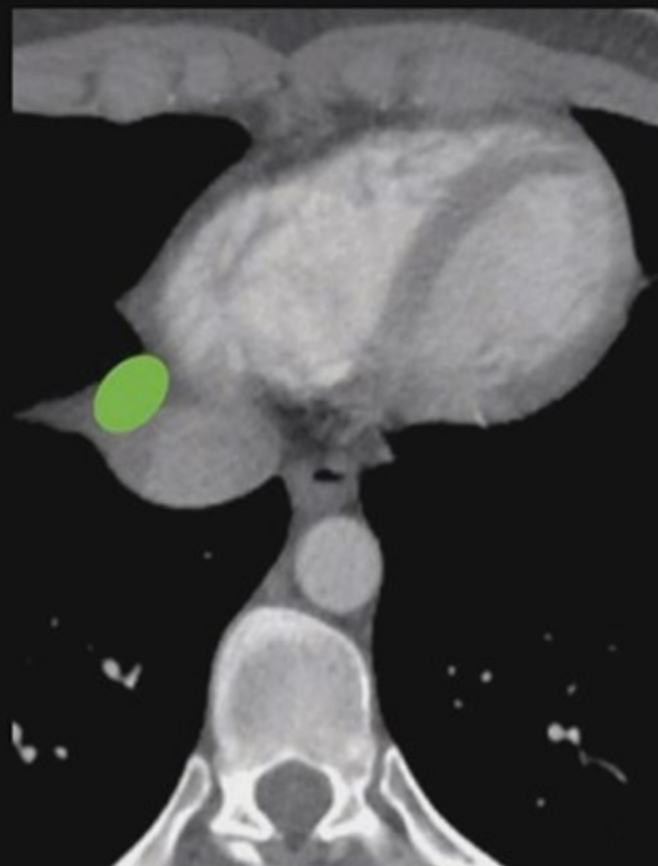
interkostal



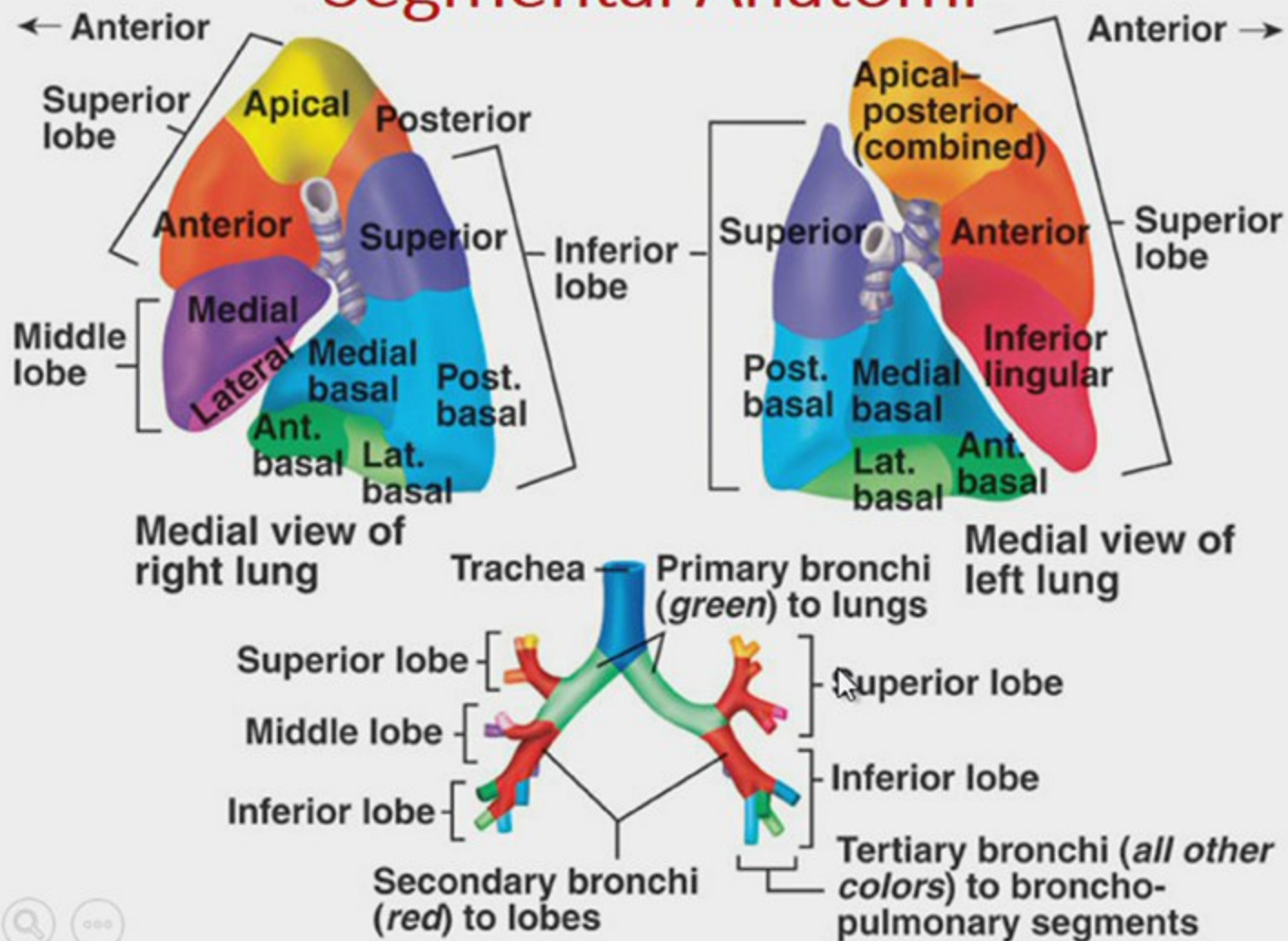
Anterior diyafragmatik



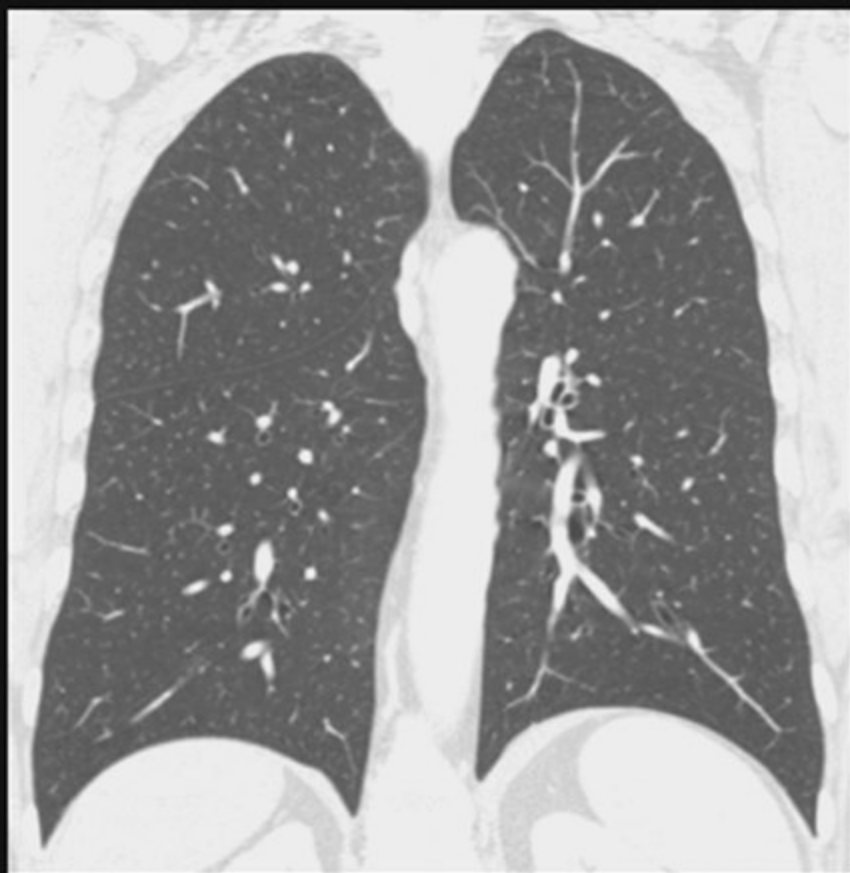
Orta diyafragmatik



Segmental Anatomy



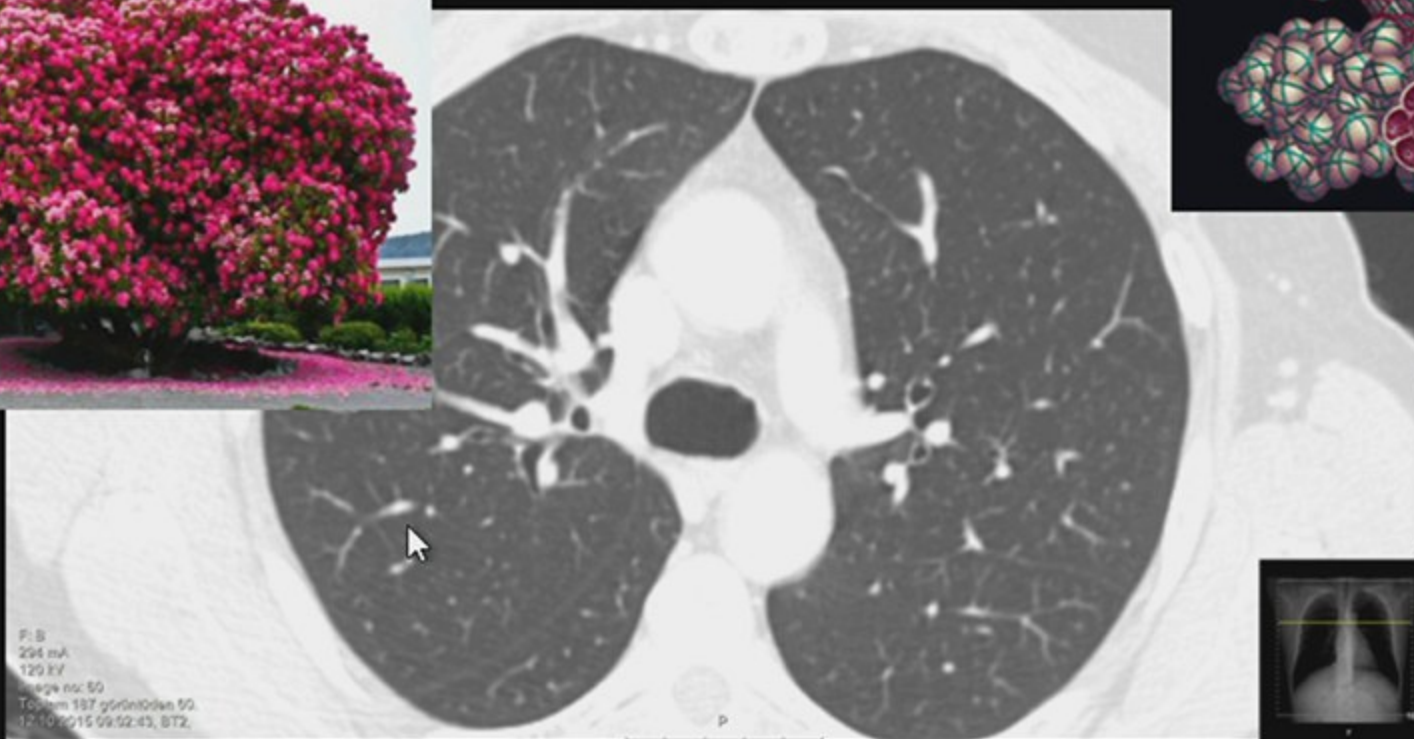
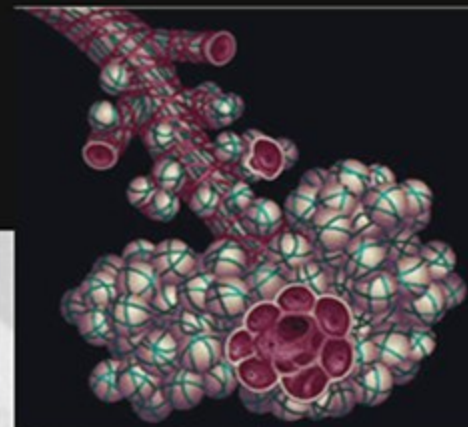
Fissürler



Rhododendron

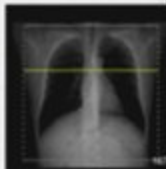
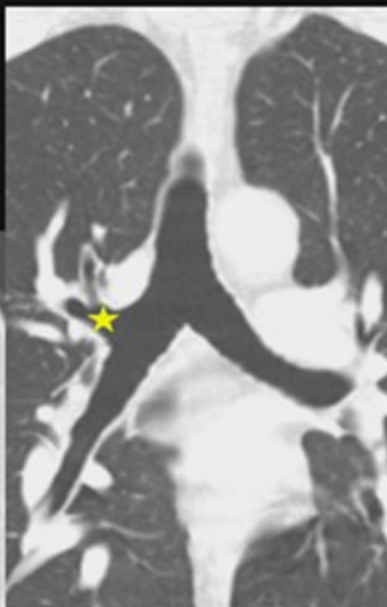


Bronş Ağacı



Üst lob bronşu

R



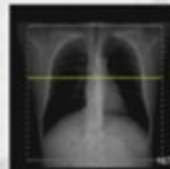
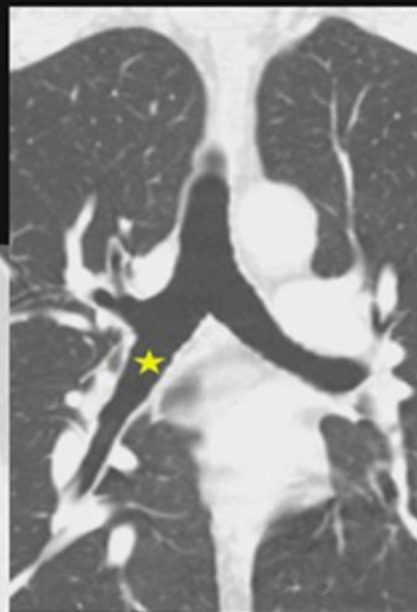
Apikal-anterior-posterior segment

R



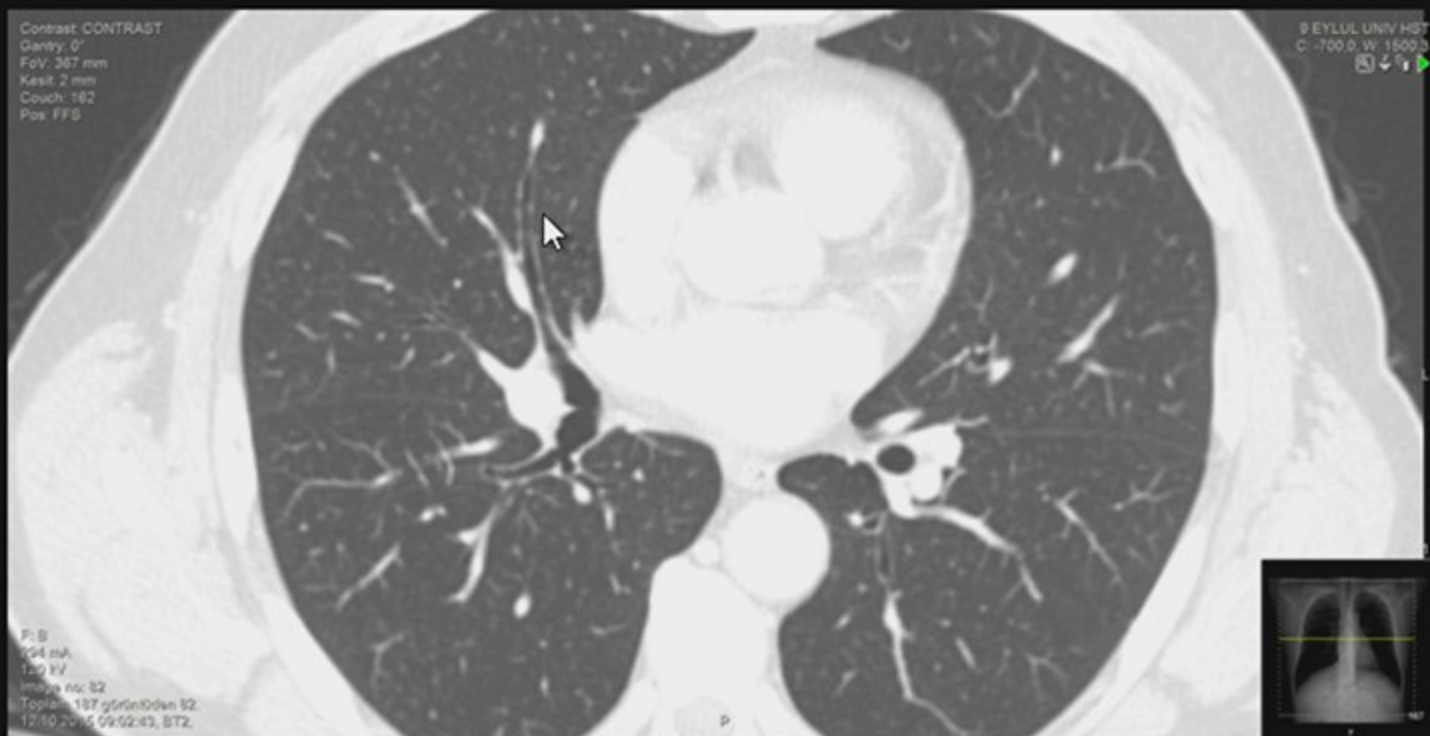
Bronkus intermedius

R



Orta ve alt lob bronşları

R



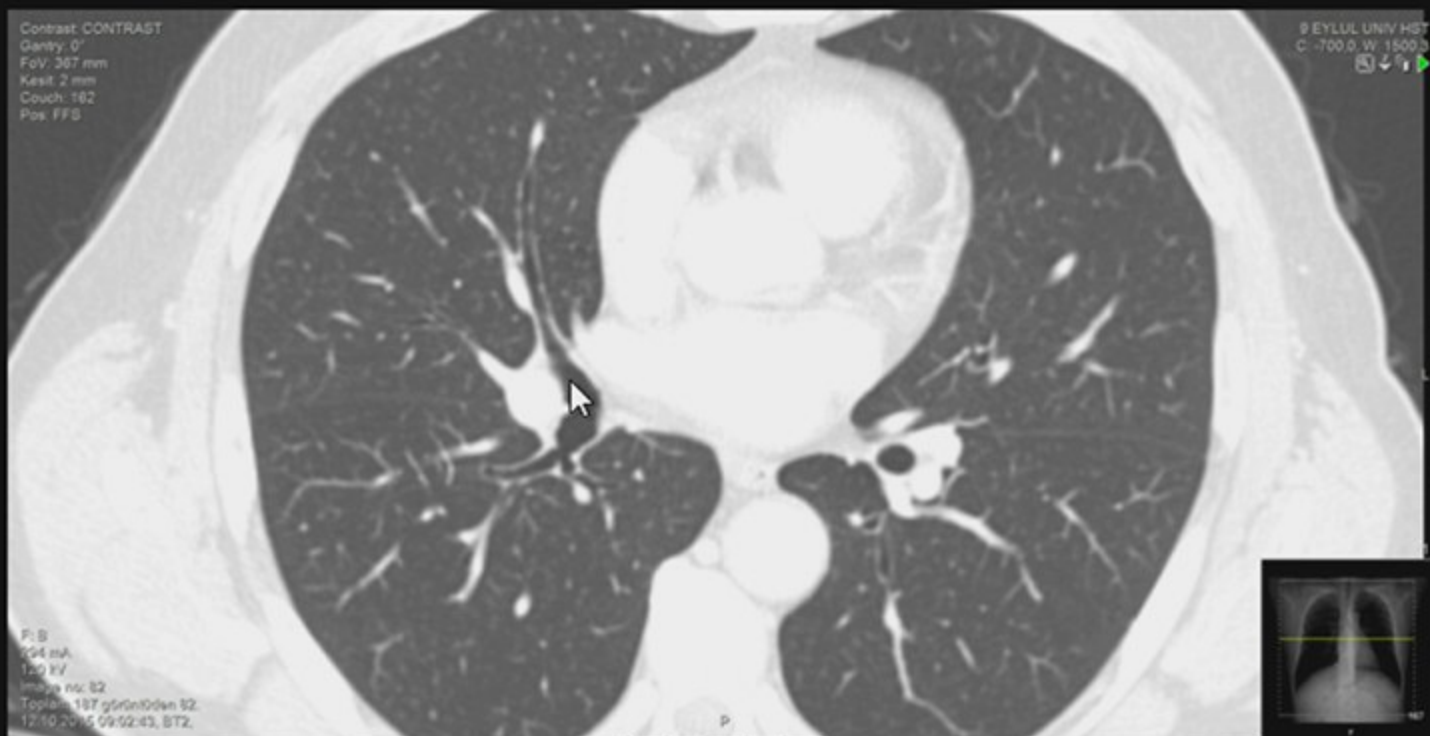
Lateral-medial segment

R

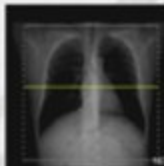


Superior segment

R

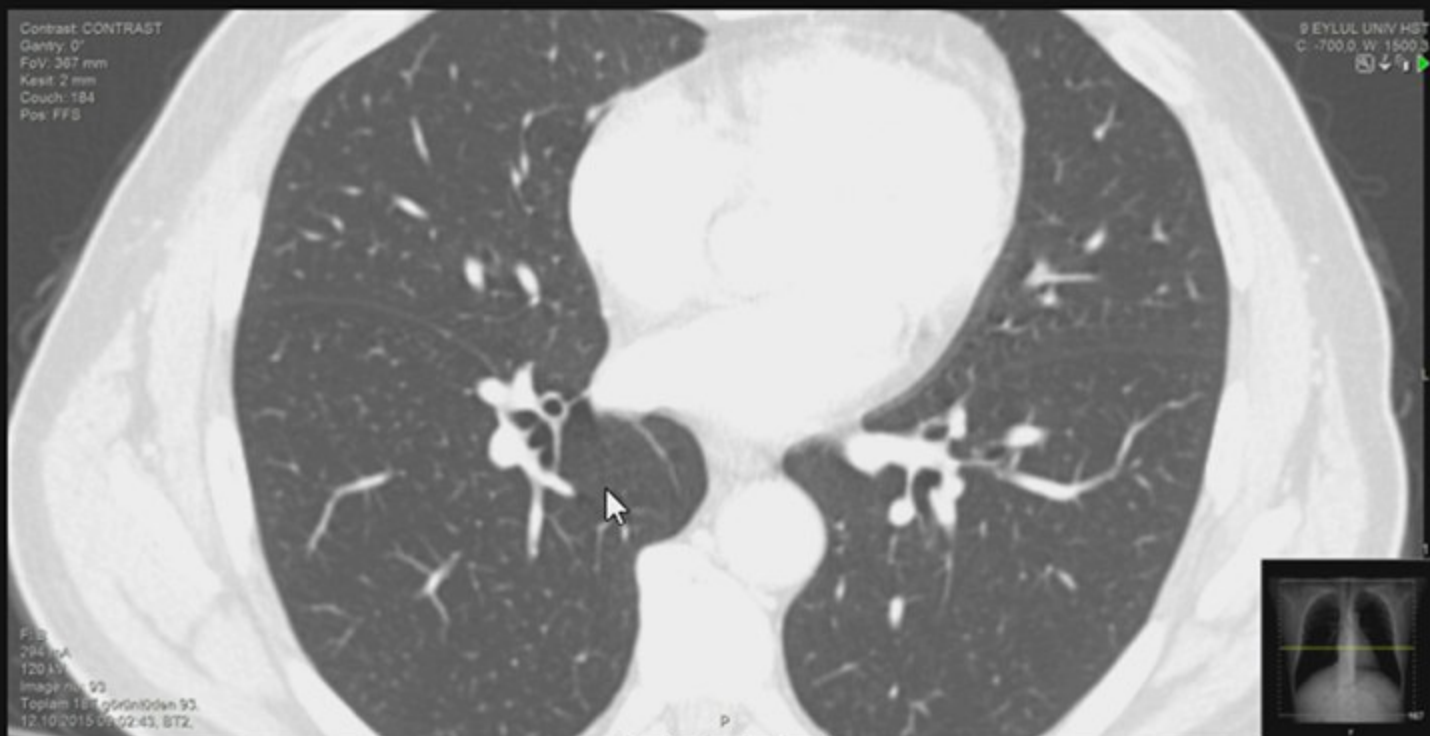


R

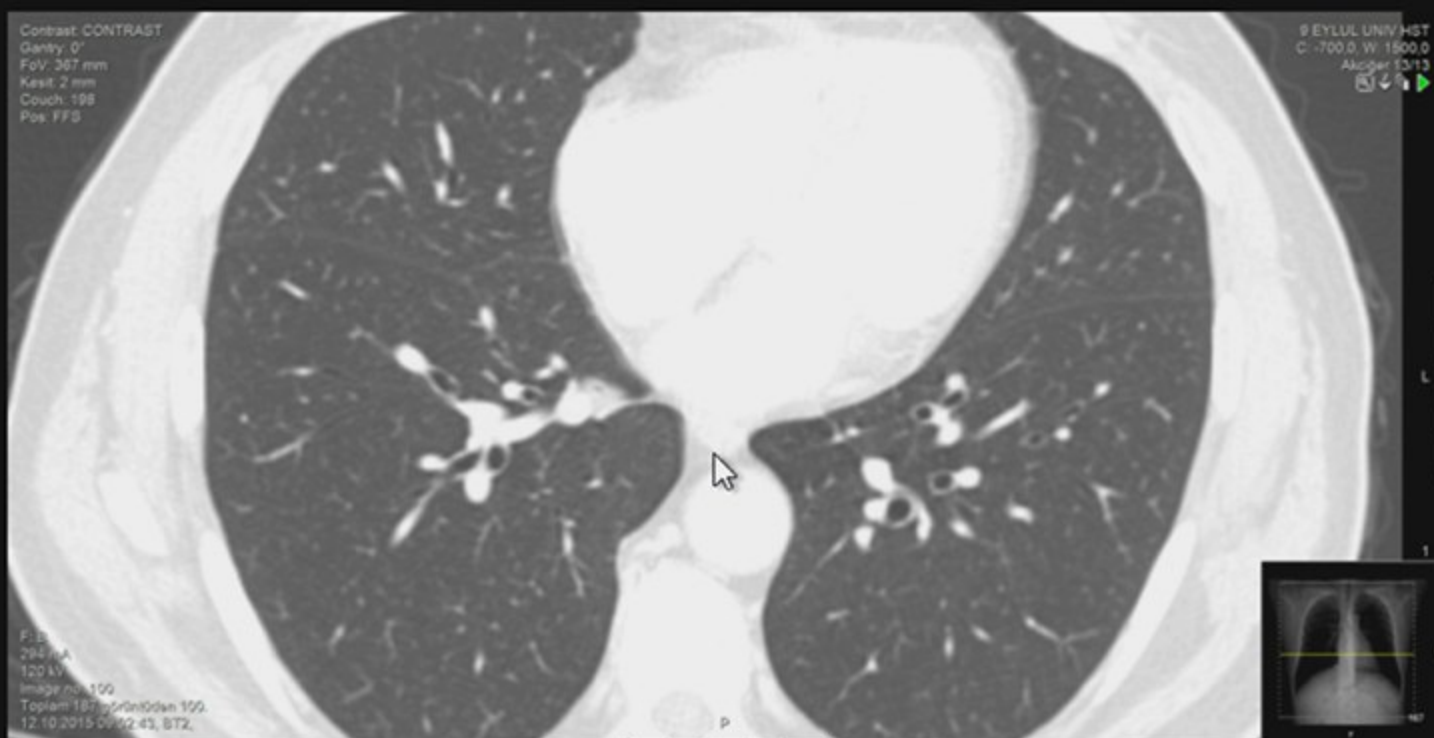


Medial-anterior-lateral-posterior segment

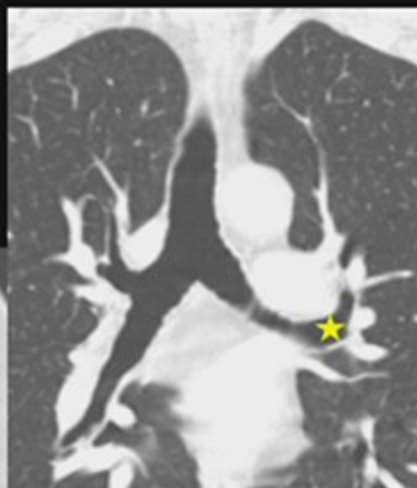
R



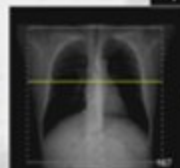
R



Sol üst lob bronşu



L



Apikoposterior segment



Anterior segment



Apikoposterior segment



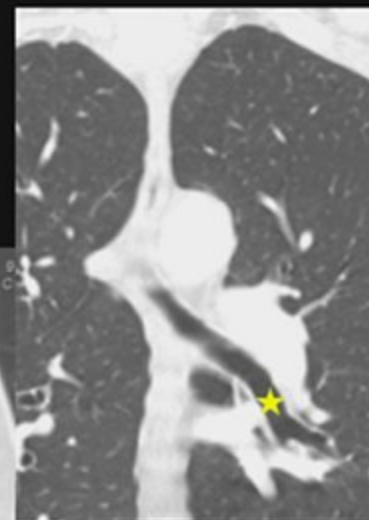
Apikoposterior segment



Lingular segment (superior - inferior)



Sol alt lob bronşu

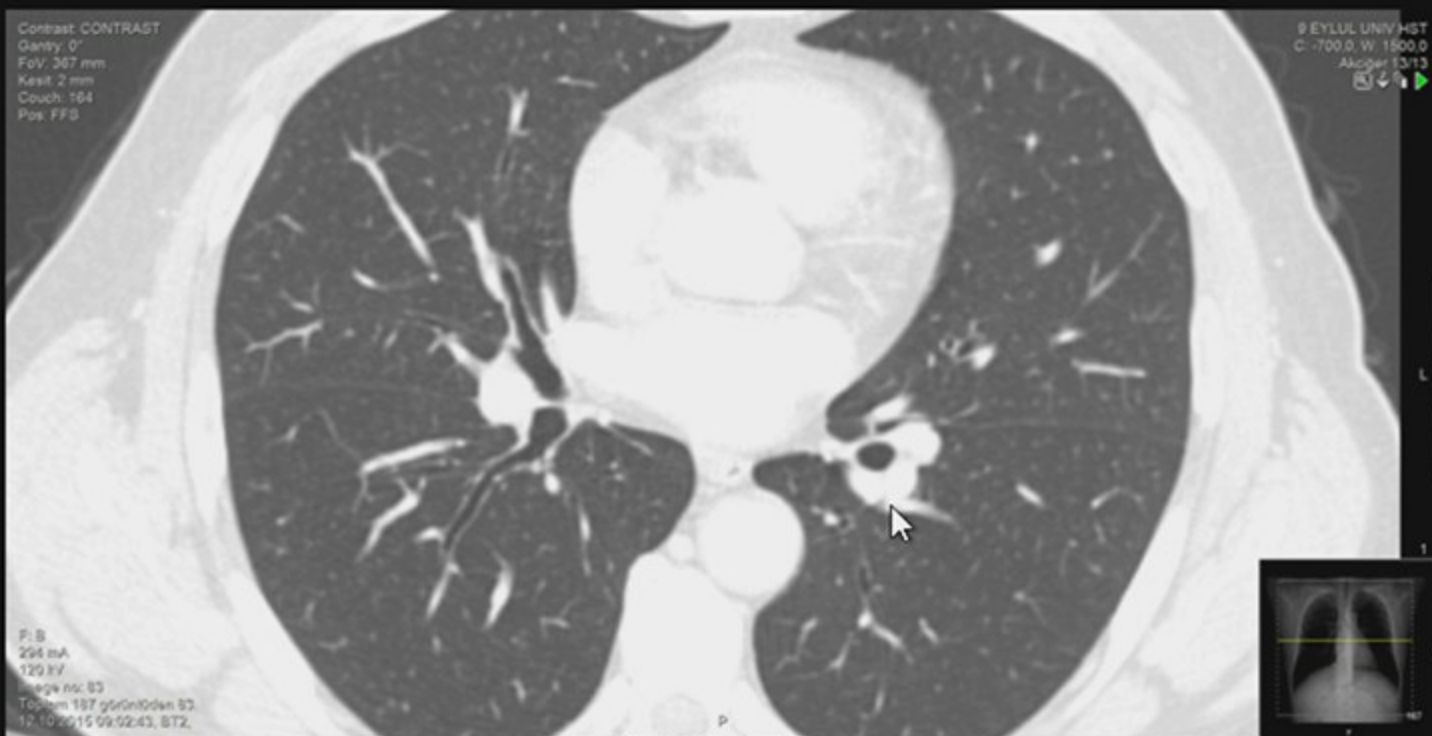


L

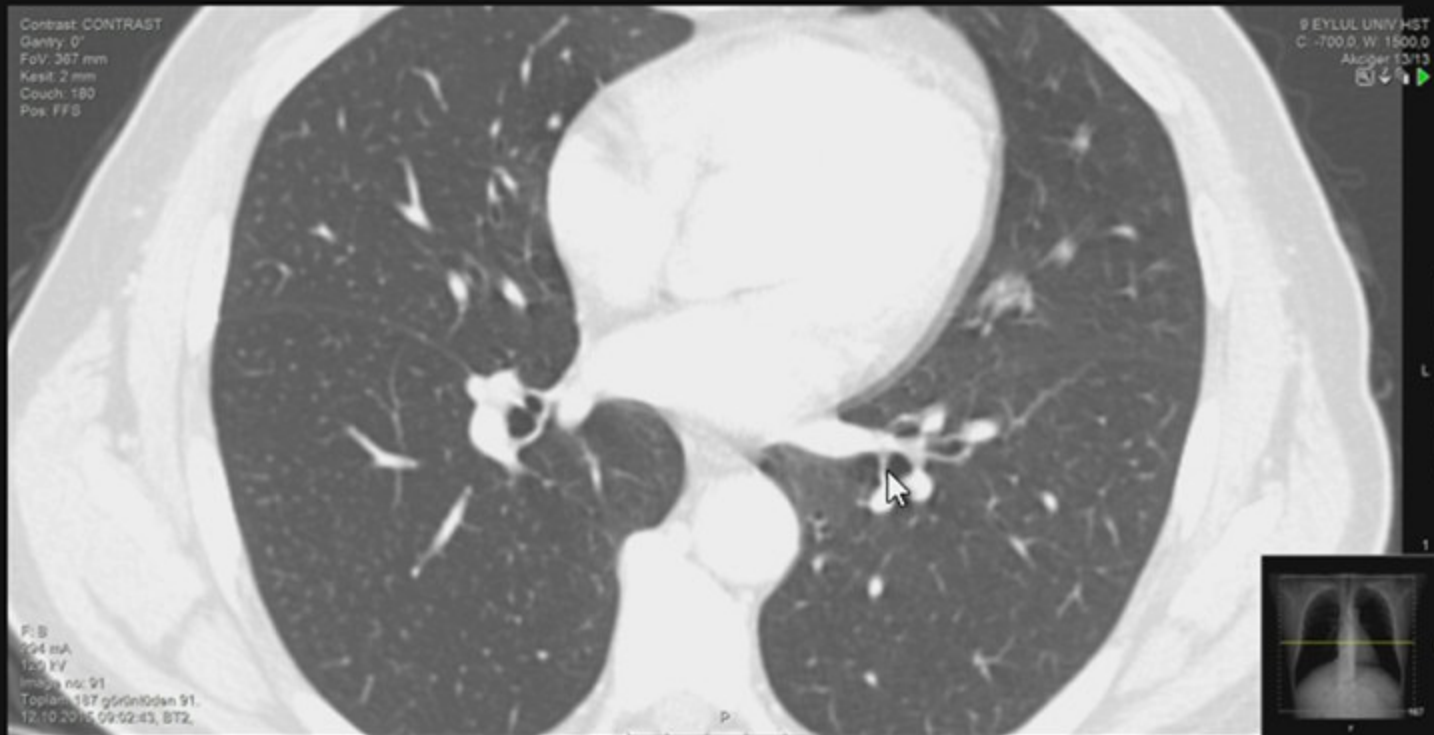


Superior segment





Posterior - lateral - anteromedial segment





9 ETLA UNIV HST
C: -750 D. W: 1800.0
Wedge: 13/13



9 ETLA UNIV HST
C: -750 D. W: 1800.0
Wedge: 13/13



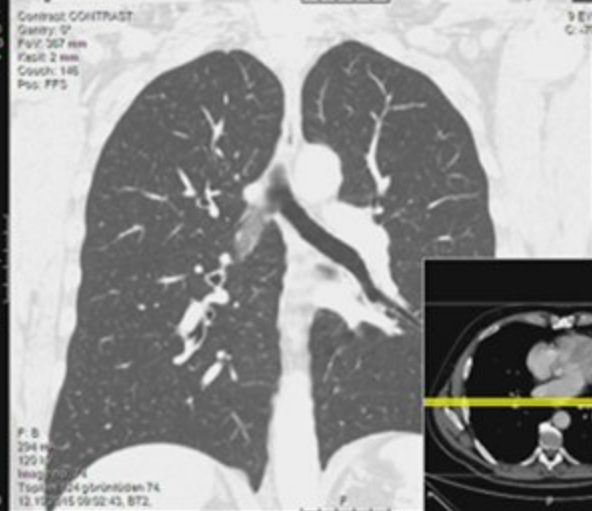
9 ETLA UNIV HST
C: -750 D. W: 1800.0
Wedge: 13/13



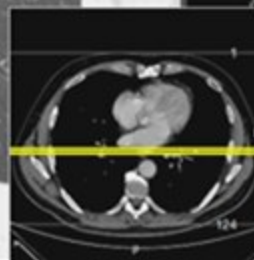
9 ETLA UNIV HST
C: -750 D. W: 1800.0
Wedge: 13/13



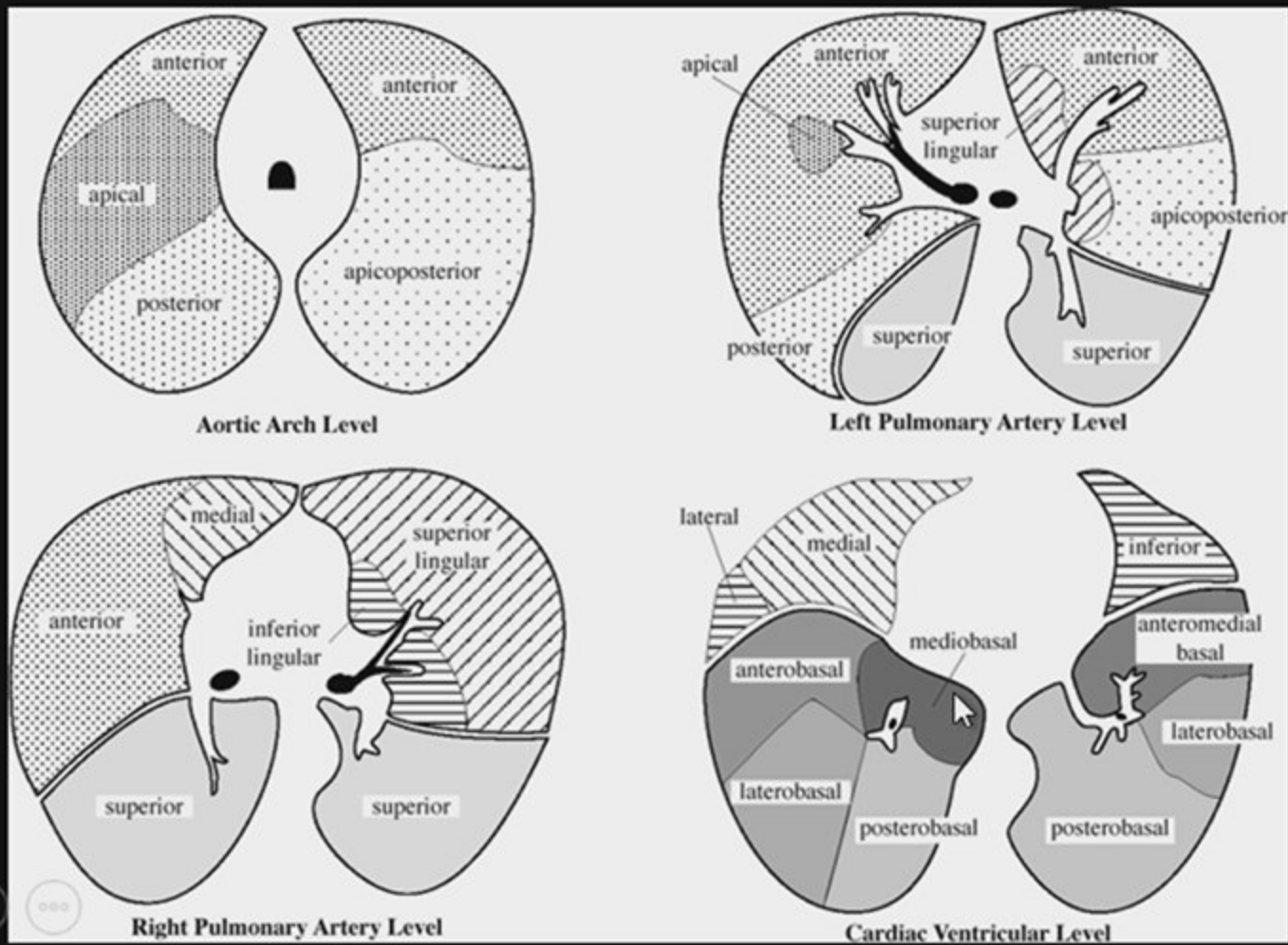
9 ETLA UNIV HST
C: -750 D. W: 1800.0
Wedge: 13/13



9 ETLA UNIV HST
C: -750 D. W: 1800.0
Wedge: 13/13



Dahnert W. F. - Radiology Review Manual



Bronchopulmonary segments: annotated CT

Case contributed by Dr Peter Jernsey

Diagnosis not applicable



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Case information

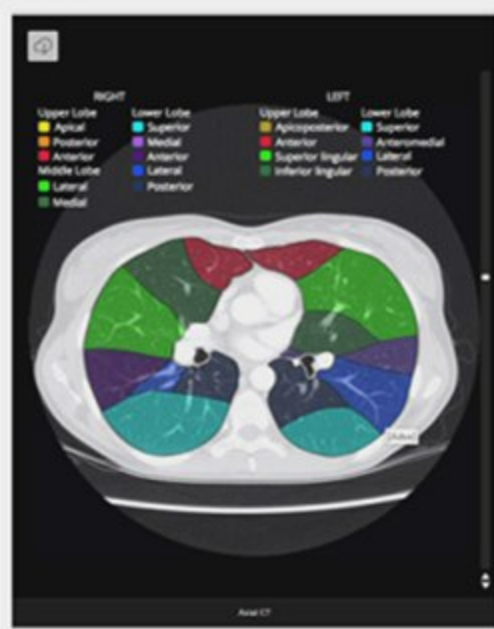
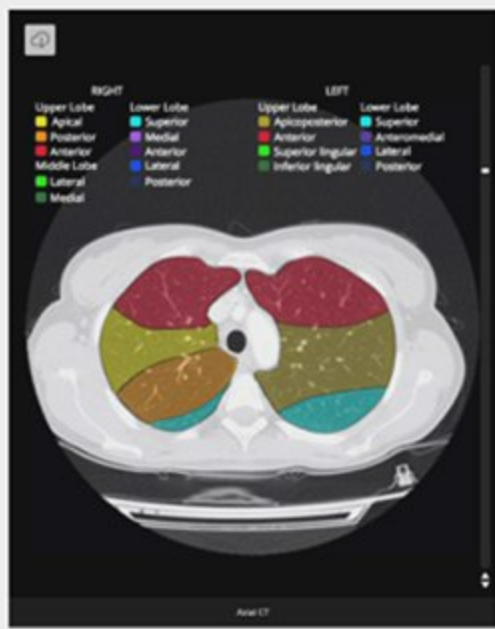
Presentation

NA

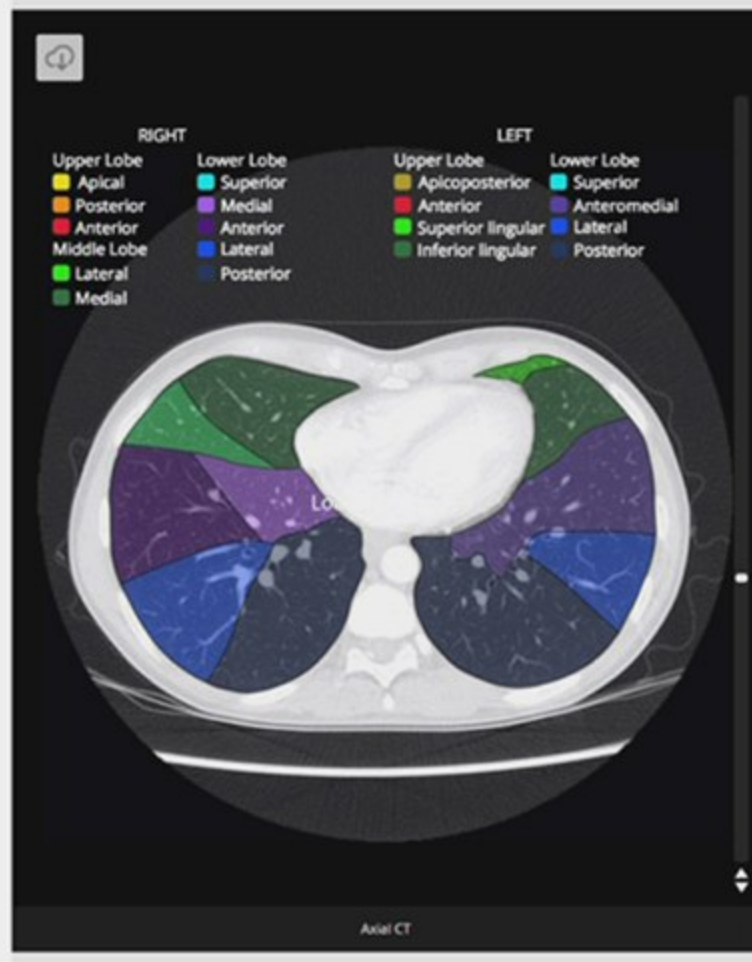
Patient Data

GENDER: Female

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ANNOTATED IMAGE





Lobar and Segmental Lung Anatomy on CT



Thoracic Radiology



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13,517 views



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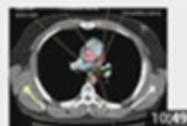
129



3

Up next

Autoplay



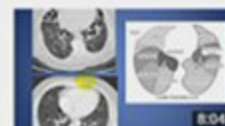
Anatomy of a Transverse CT of the Thorax

Dr. Eva Sweeney
3,666 views



CT anatomy of the chest - DRE 2 - Dr Mamdouh Mahfouz

Mamdouh Mahfouz
18,455 views



Radiology Rounds 06 Normal CT segmental Lung Anatomy

Hisham Alkhatib
87 views



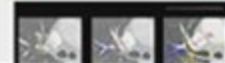
How To Read a Chest CT: Basic Search Pattern

Sarel Gaur MD
31,893 views



Normal Chest CT with labels

James Smimiotopoulos
36,087 views



R Hilar lung anatomy on CT

Ara Vaporcuyan
4,337 views

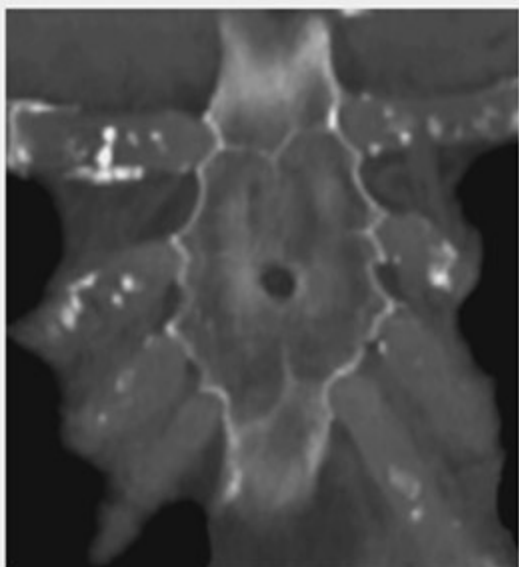
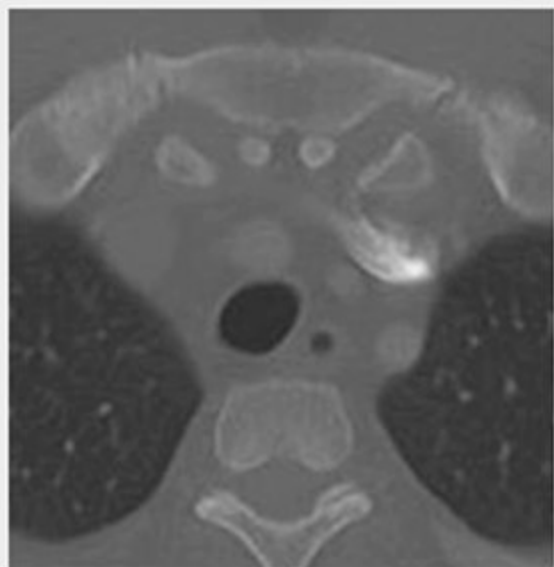
VARYASYONLAR



Kemik yapılar

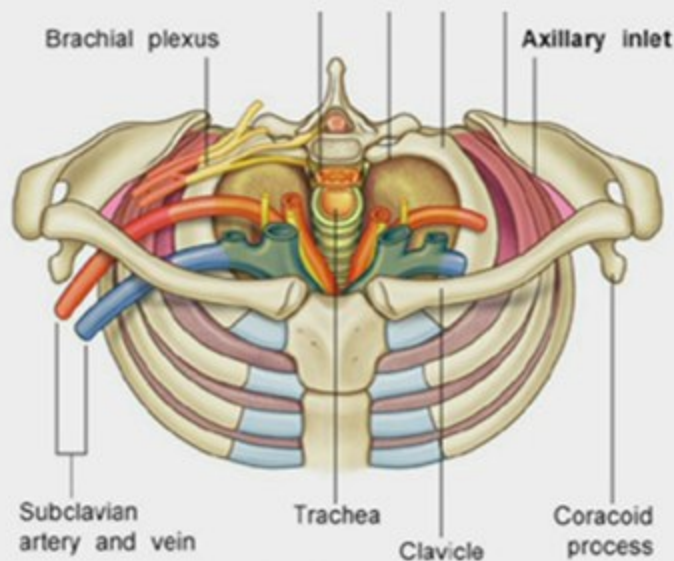
- Episternal (suprasternal) ossiküller (%4)
- Sternal foramen (%5)
- Kostal varyasyonlar (%2)

%16 Kısa kosta (6-8. kotlar), füzyon ve köprüleşme (%0.3), bifid kosta (%0.2)

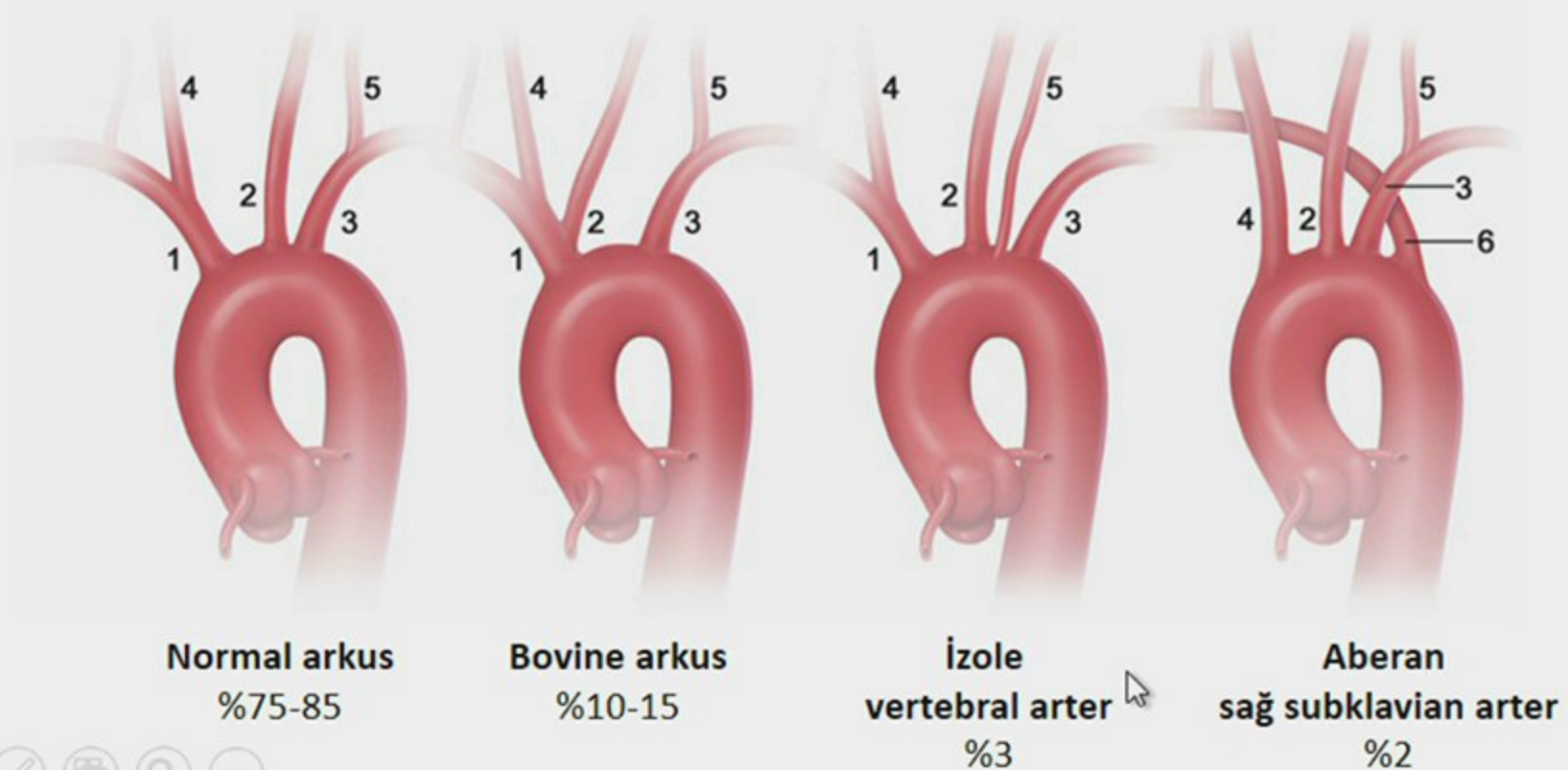


Servikal kot (Aksesuar kot)

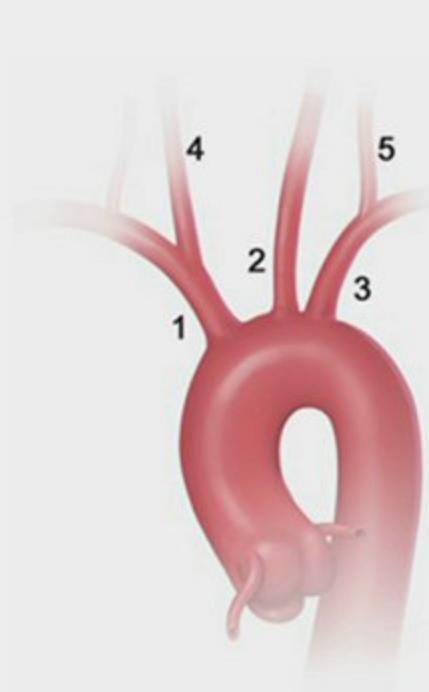
- % 0.5
- C7 vertebra düzeyinde aksesuar kot
- Brakial pleksusa /subklavian artere bası



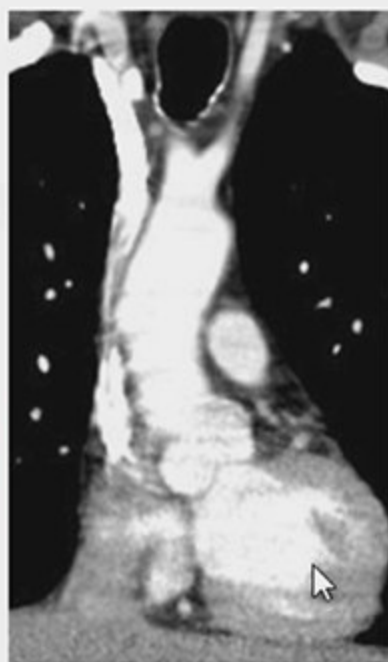
Arkus aorta dallarının varyasyonları



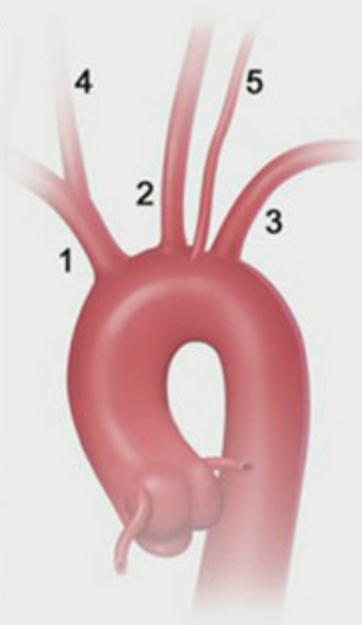
Arkus aorta dallarının varyasyonları



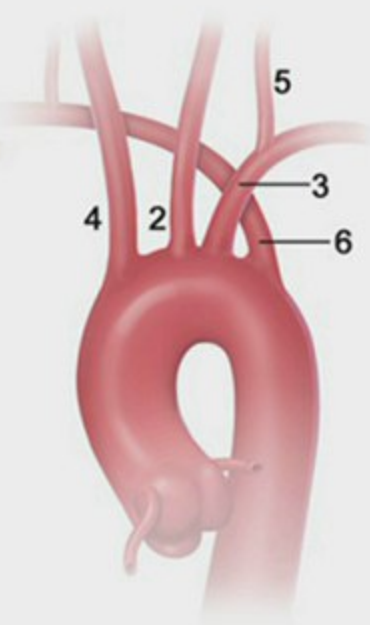
Normal arkus
%75-85



Bovine arkus
%10-15

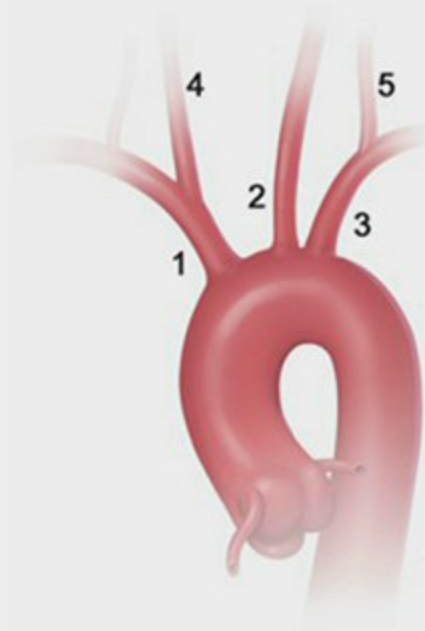


**İzole
vertebral arter**
%3

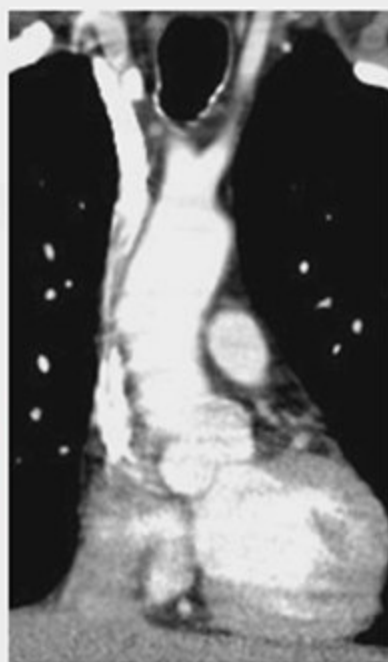


**Aberan
sağ subklavian arter**
%2

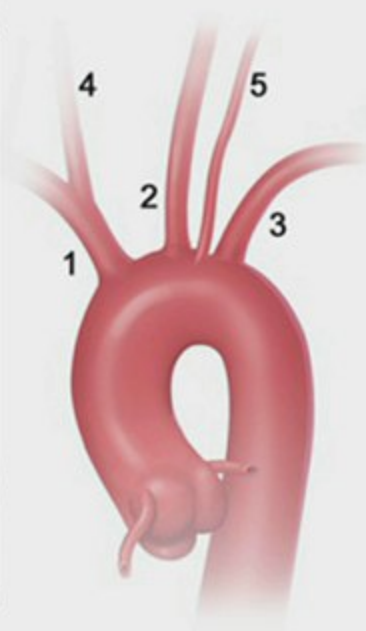
Arkus aorta dallarının varyasyonları



Normal arkus
%75-85



Bovine arkus
%10-15



**İzole
vertebral arter**
%3



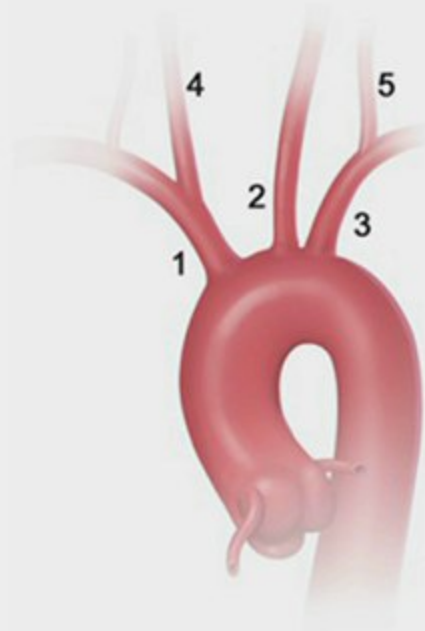
**Aberan
sağ subklavian arter**
%2

Sağ arkus aorta

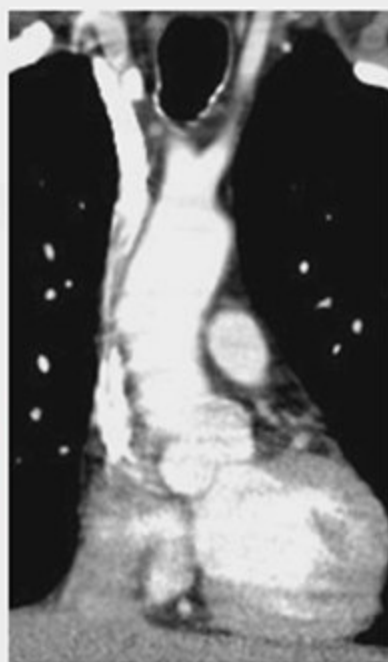
- Sıklığı %0.1
- 3 Tip;
 - Ayna imajı (%59)
 - Aberan sol subklavian ile birlikte (ALSA) (%39.5)
 - Arkustan izole olan sol subklavian arter ile birlikte (<%1)



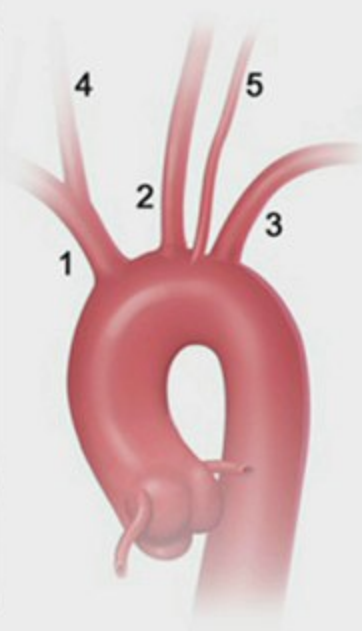
Arkus aorta dallarının varyasyonları



Normal arkus
%75-85



Bovine arkus
%10-15



**İzole
vertebral arter**
%3



**Aberan
sağ subklavian arter**
%2

Sağ arkus aorta

- Sıklığı %0.1
- 3 Tip;
 - Ayna imajı (%59)
 - Aberan sol subklavian ile birlikte (ALSA) (%39.5)
 - Arkustan izole olan sol subklavian arter ile birlikte (<%1)



Sağ arkus aorta

- Sıklığı %0.1
- 3 Tip;
 - Ayna imajı (%59)
 - Aberan sol subklavian ile birlikte (ALSA) (%39.5)
 - Arkustan izole olan sol subklavian arter ile birlikte (<%1)



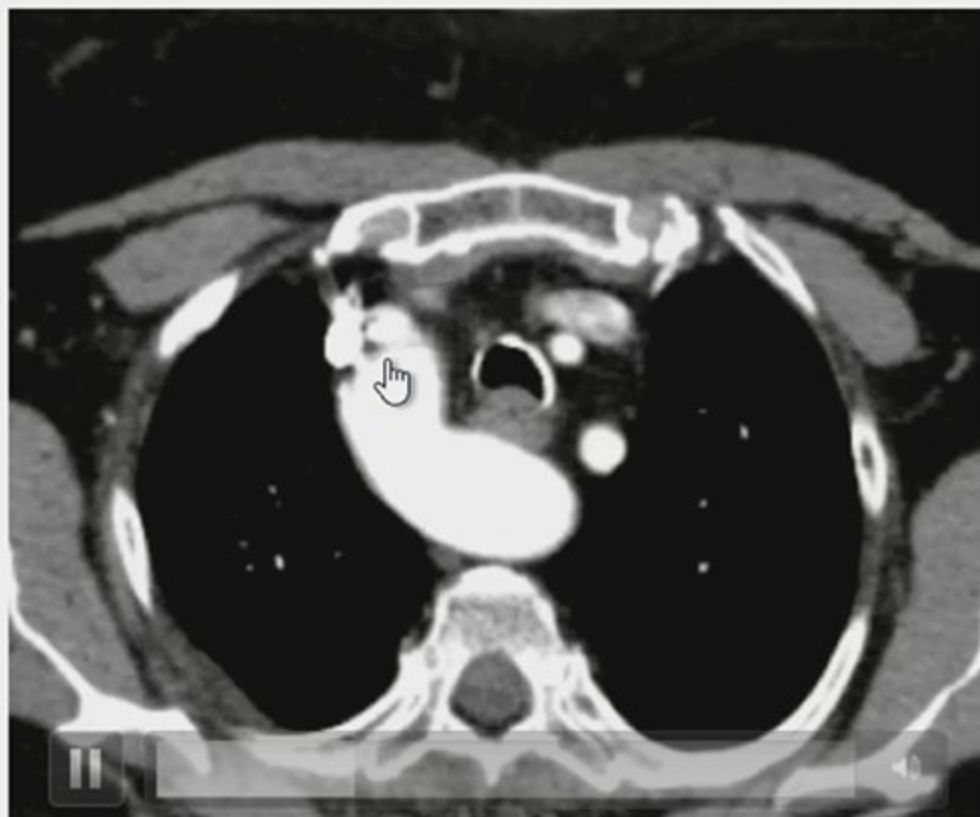
Sağ arkus aorta

- Sıklığı %0.1
- 3 Tip;
 - Ayna imajı (%59)
 - Aberan sol subklavian ile birlikte (ALSA) (%39.5)
 - Arkustan izole olan sol subklavian arter ile birlikte (<%1)



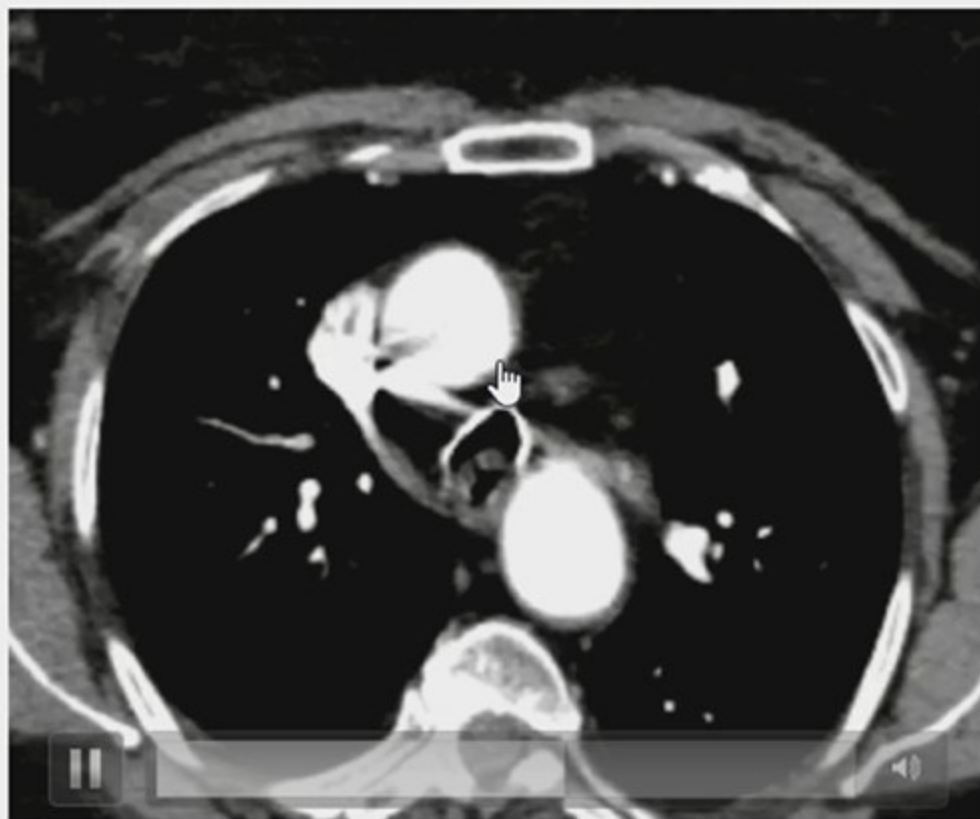
Sağ arkus aorta

- Sıklığı %0.1
- 3 Tip;
 - Ayna imajı (%59)
 - Aberan sol subklavian ile birlikte (ALSA) (%39.5)
 - Arkustan izole olan sol subklavian arter ile birlikte (<%1)



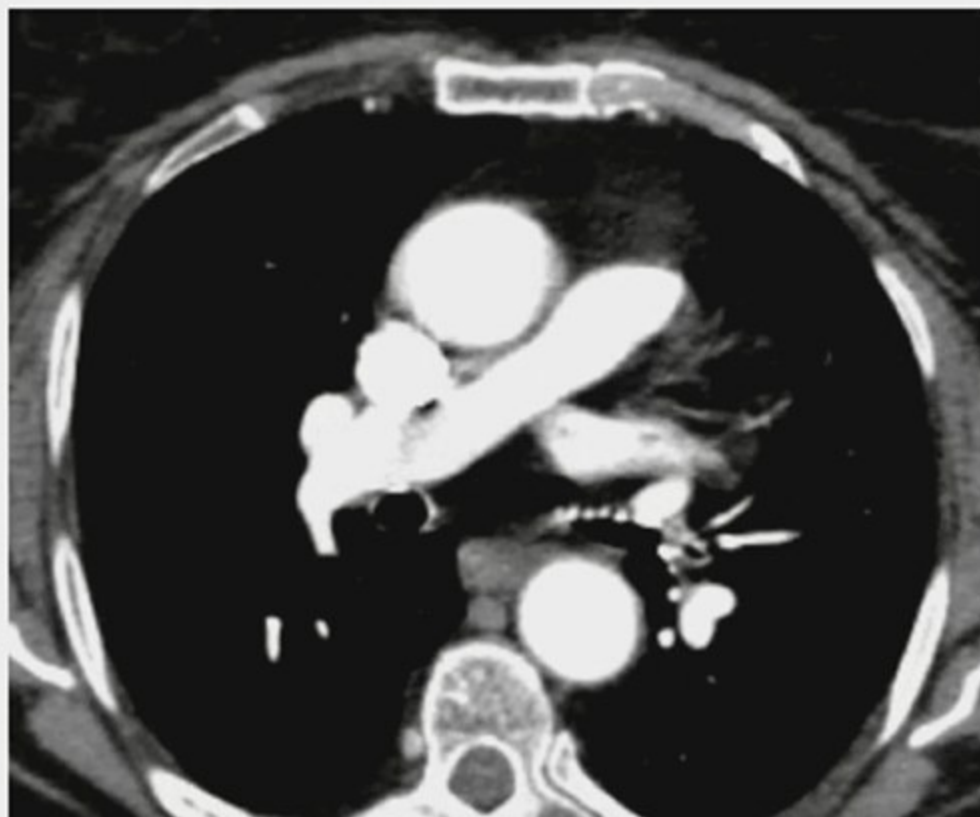
Sağ arkus aorta

- Sıklığı %0.1
- 3 Tip;
 - Ayna imajı (%59)
 - Aberan sol subklavian ile birlikte (ALSA) (%39.5)
 - Arkustan izole olan sol subklavian arter ile birlikte (<%1)



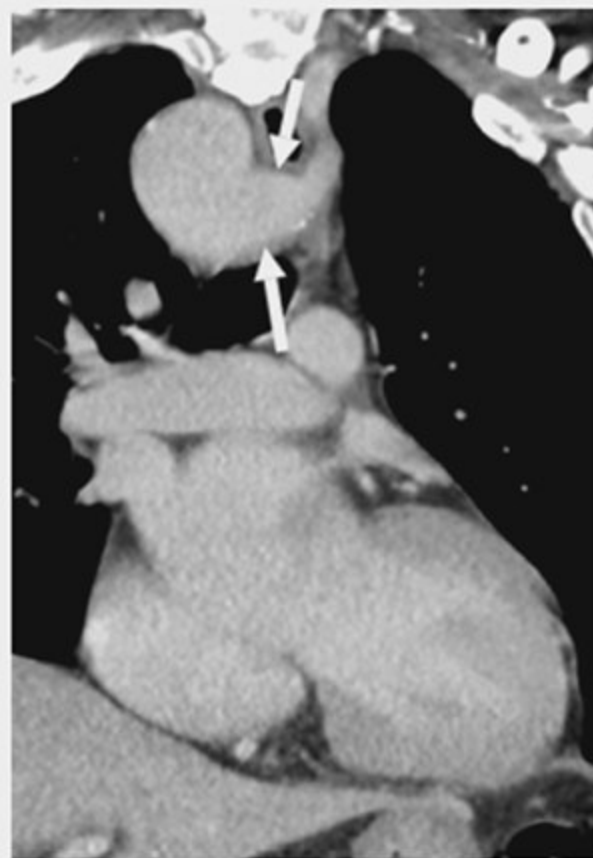
Sağ arkus aorta

- Sıklığı %0.1
- 3 Tip;
 - Ayna imajı (%59)
 - Aberan sol subklavian ile birlikte (ALSA) (%39.5)
 - Arkustan izole olan sol subklavian arter ile birlikte (<%1)



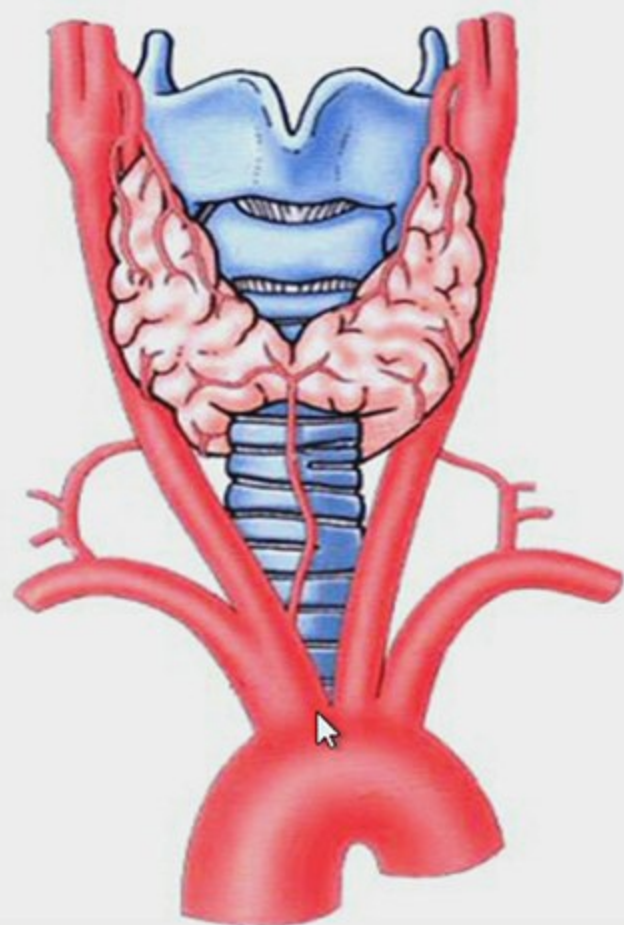
Kommerell Divertikülü

- Aberan subklavian arterde → %60
 - Sağ / sol aberan subklavian arter
 - Sağ / sol aortik ark
- Fuziform/sakküler anevrizmatik dilatasyon



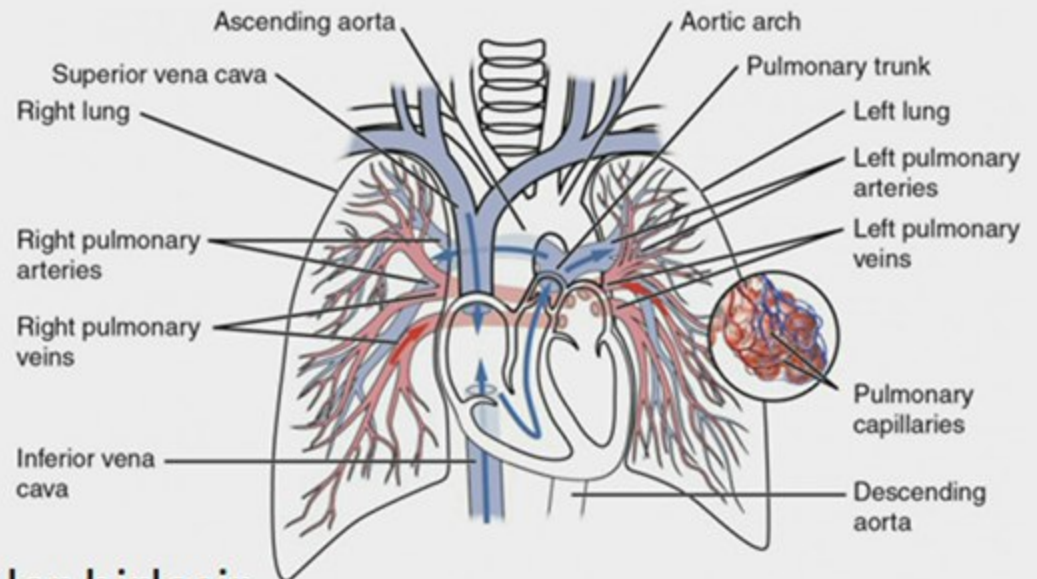
Tiroid ima arter

- %10
- Tiroid glandı istmusu
- En sık brakiosefalik arterden (%4)
 - Arkus
 - Sağ ana karotid
 - Subklavian
 - İnternal torasik
- Trakeotomi öncesinde bilinmesi önemli



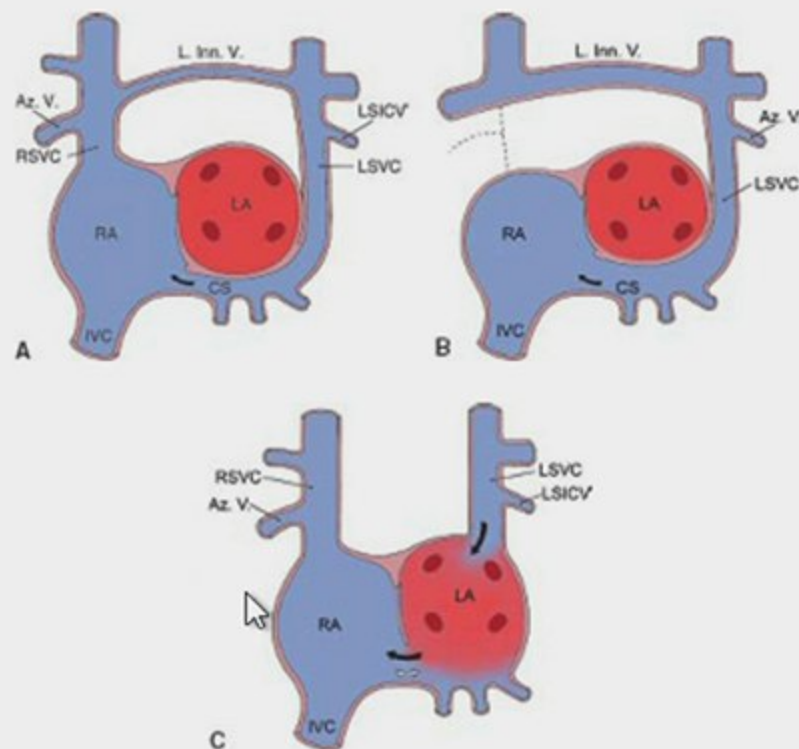
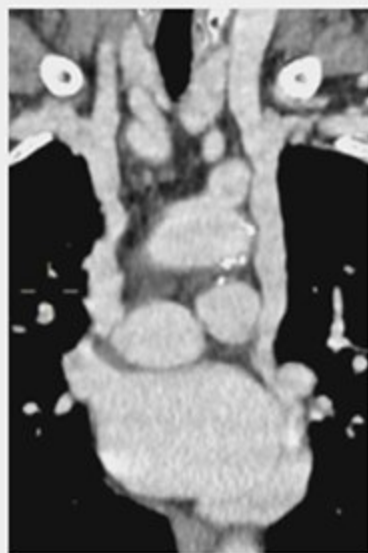
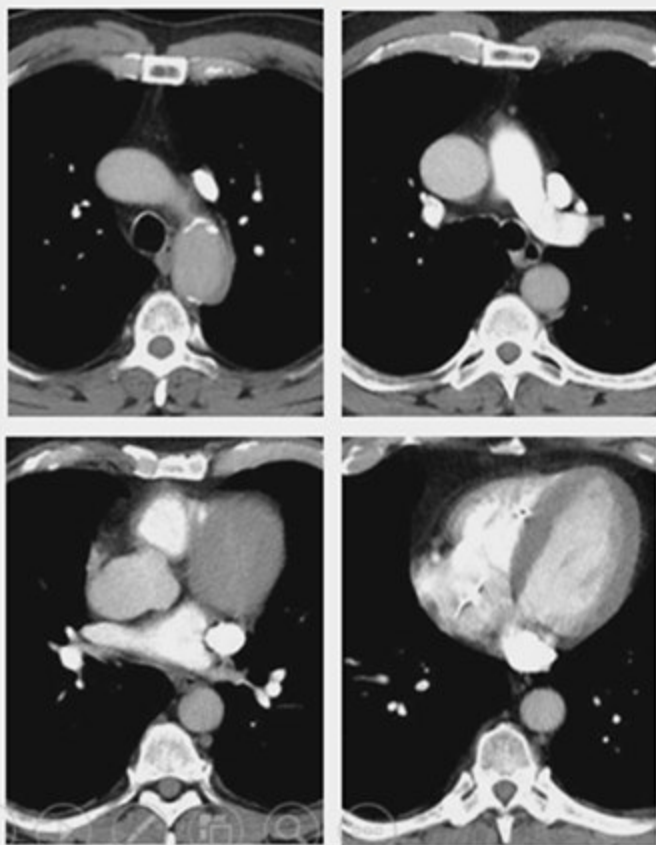
Pulmoner Venler

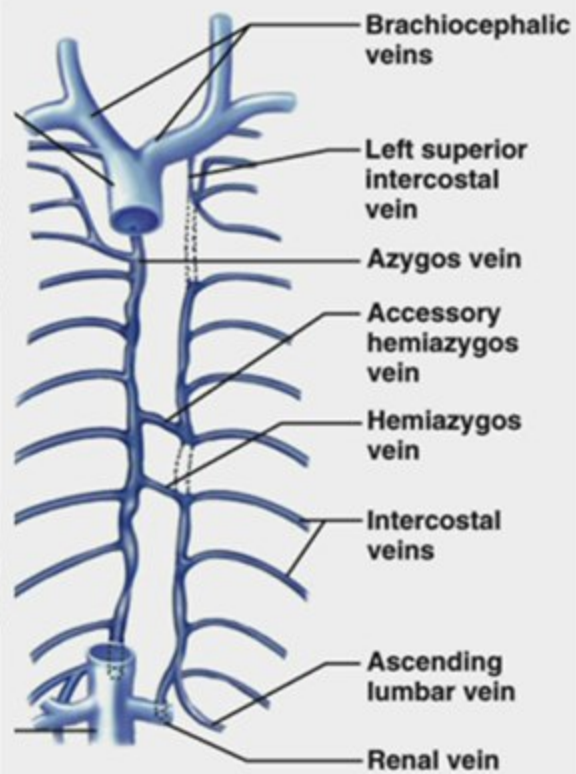
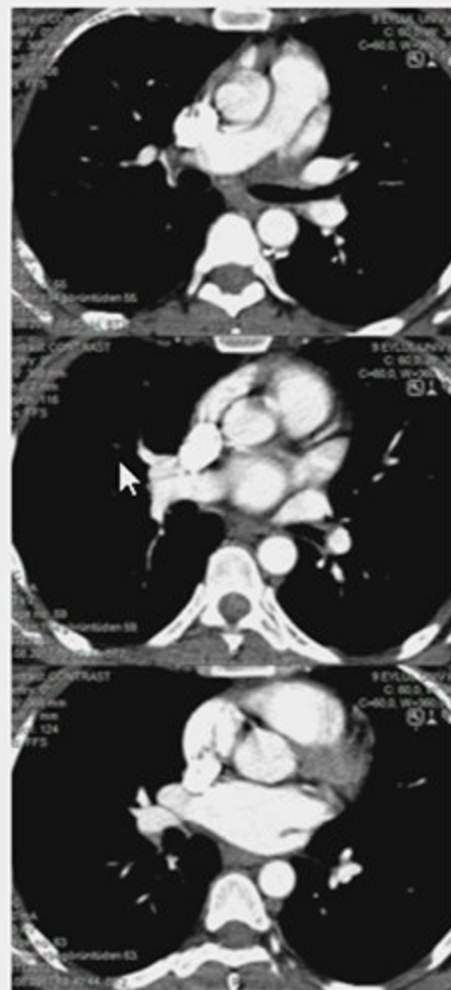
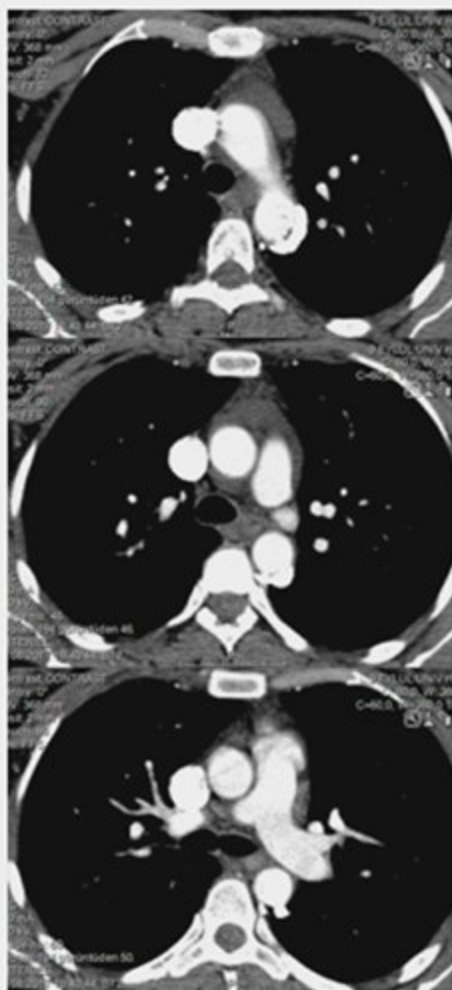
- Tipik anatomi (%70)
- Superior ve inferior pulmoner venler birleşir
- Aksesuar pulmoner venler
 - Sağ orta aksesuar pulmoner ven (2 tane)
 - Sağ üst ve orta orta aksesuar pulmoner ven
 - Sağ alt lob superior segment veni
 - Sağ alt lob bazal segment veni



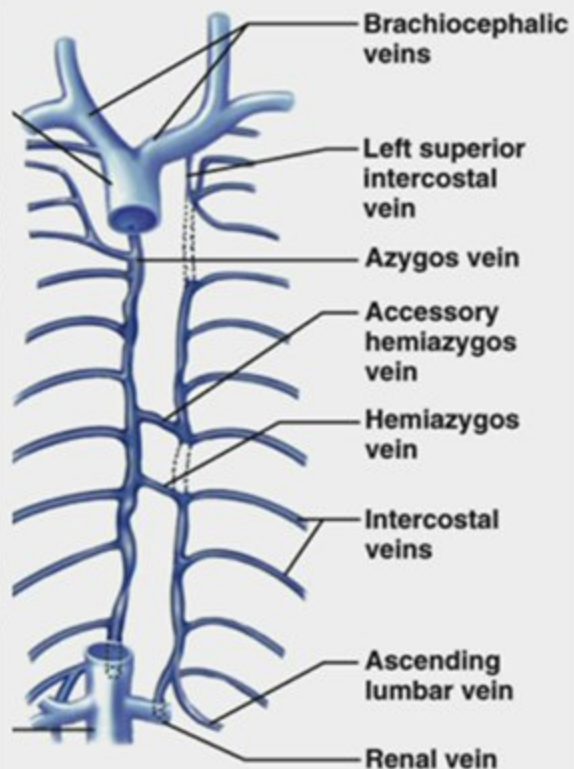
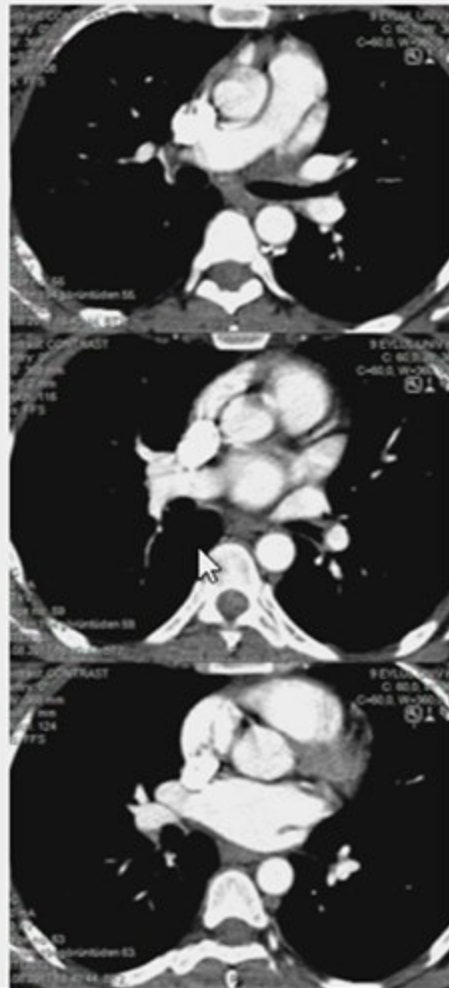
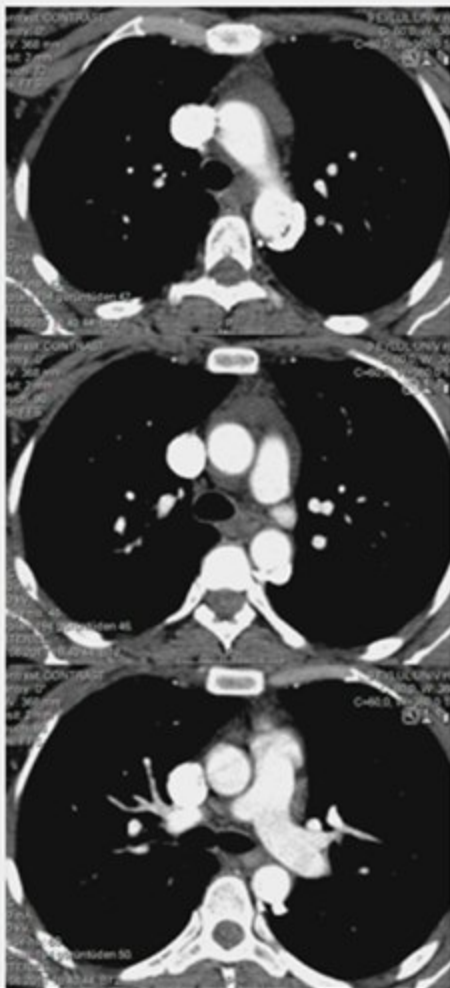
Persistan sol superior vena kava

- En sık görülen torasik venöz varyasyon (%0.3-0.5)



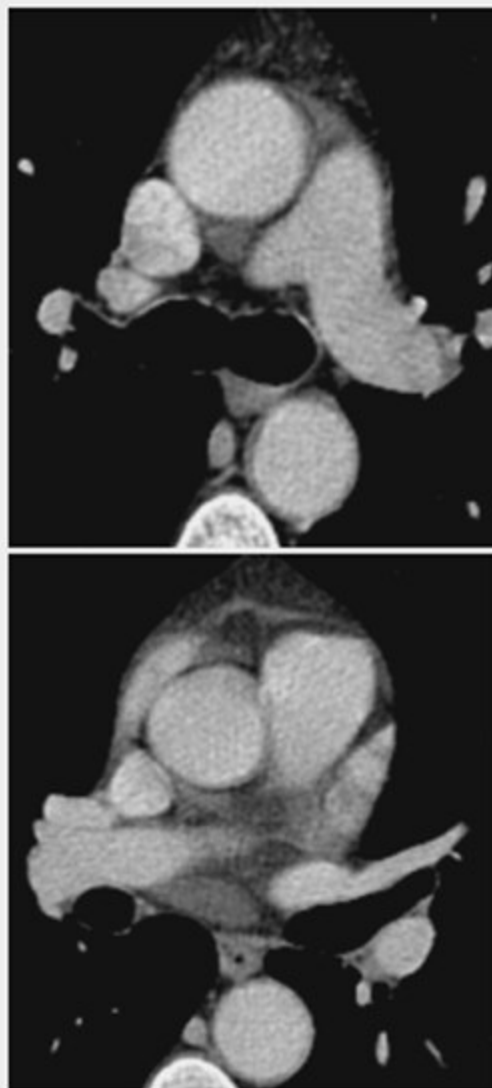
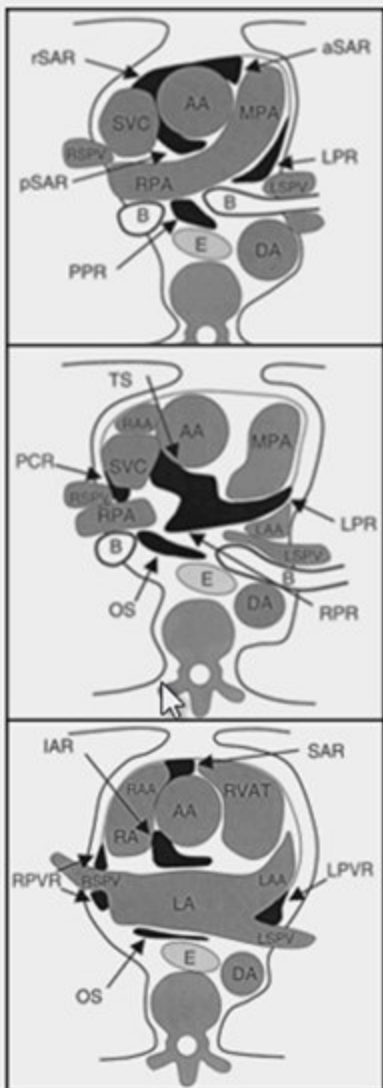


Sol superior interkostal ven



Perikardial resesler

- **aSAR**; anterior superior aortic recess
- **pSAR**; posterior superior aortic recess
- **LPR**; left pulmonary recess
- **LPVR**; left pulmonic vein recess
- **OS**; oblique sinus
- **PCR**; postcaval recess
- **PPR**; posterior pericardial recess
- **RPVR**; right pulmonary vein recess
- **rSAR**; right superior aortic recess
- **RPR**; right pulmonary recess
- **TS**; transverse sinus





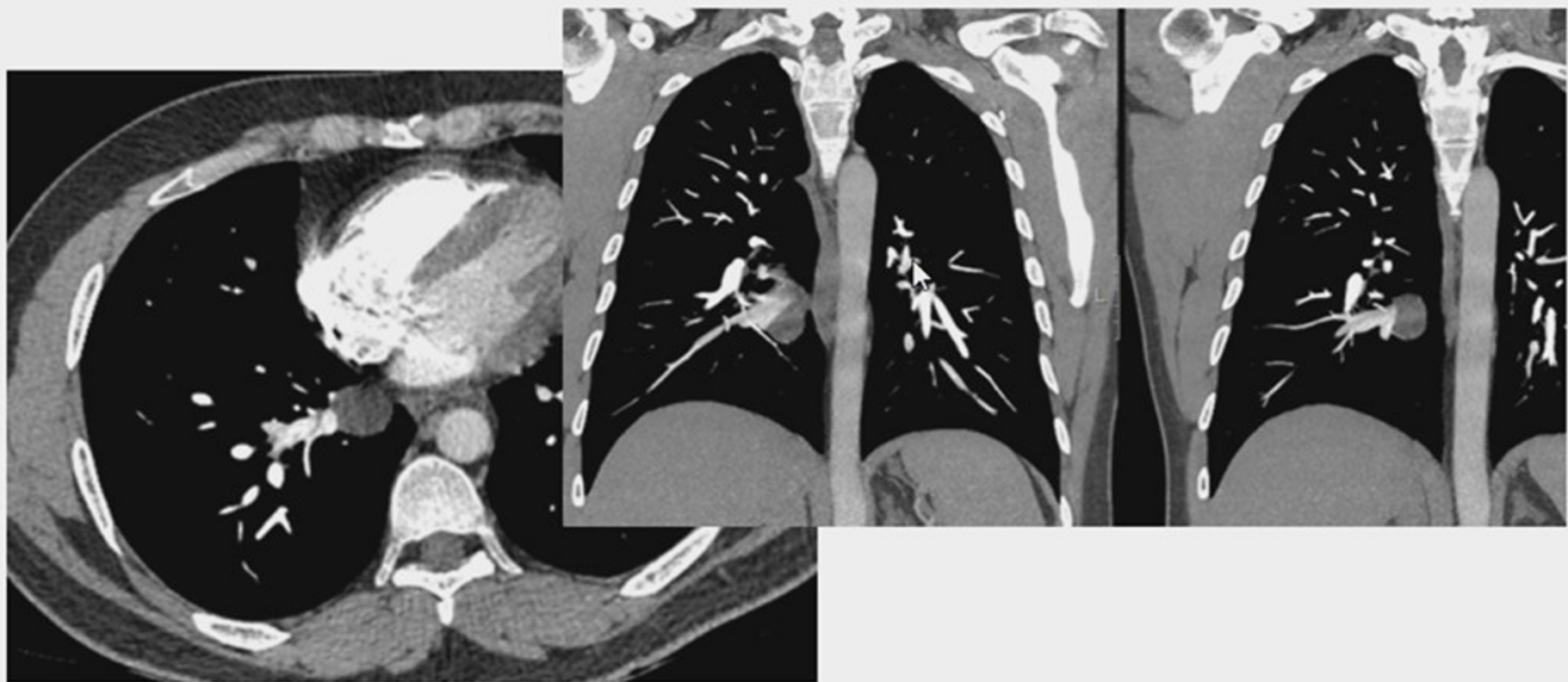




Sağ superior aortik rezes «High-riding variant»

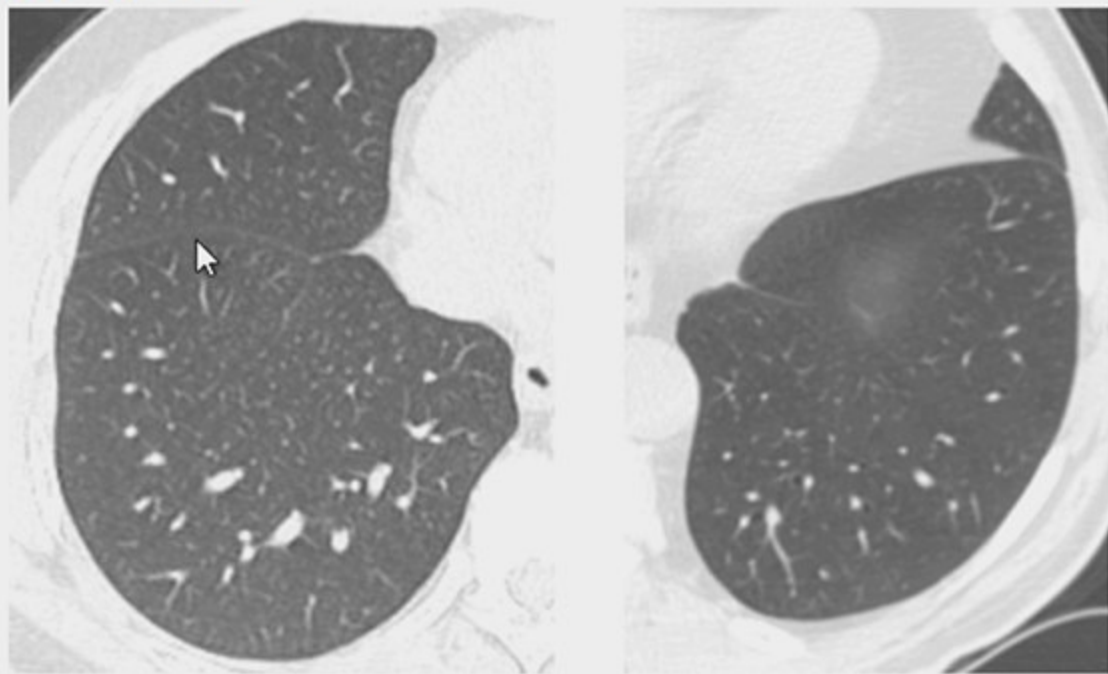


Right pulmonary vein recess



Parietal trigon

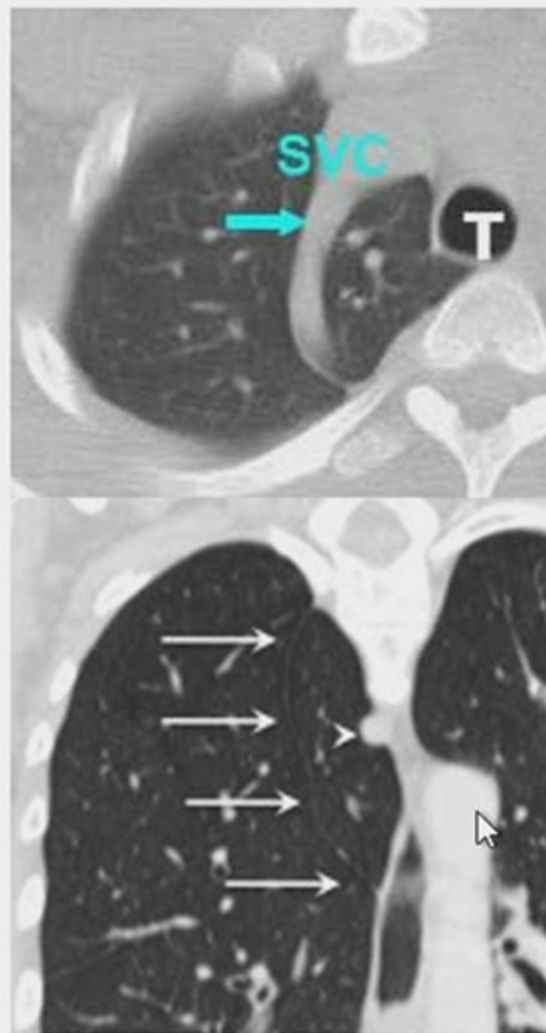
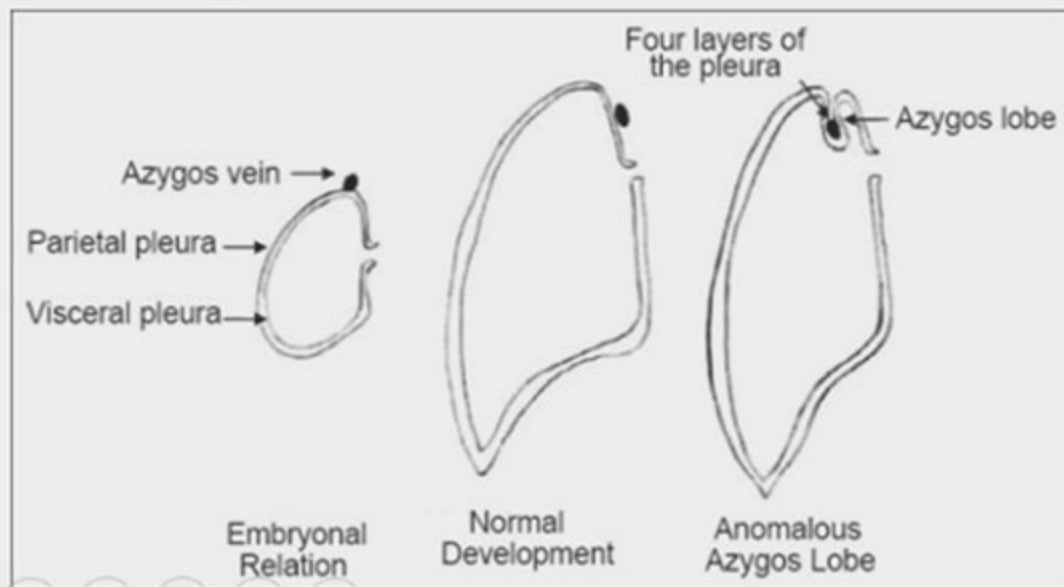
- Parietal plevranın fissür içerisine protrüzyonu ile oluşan
- Yağ doku içeren cepler

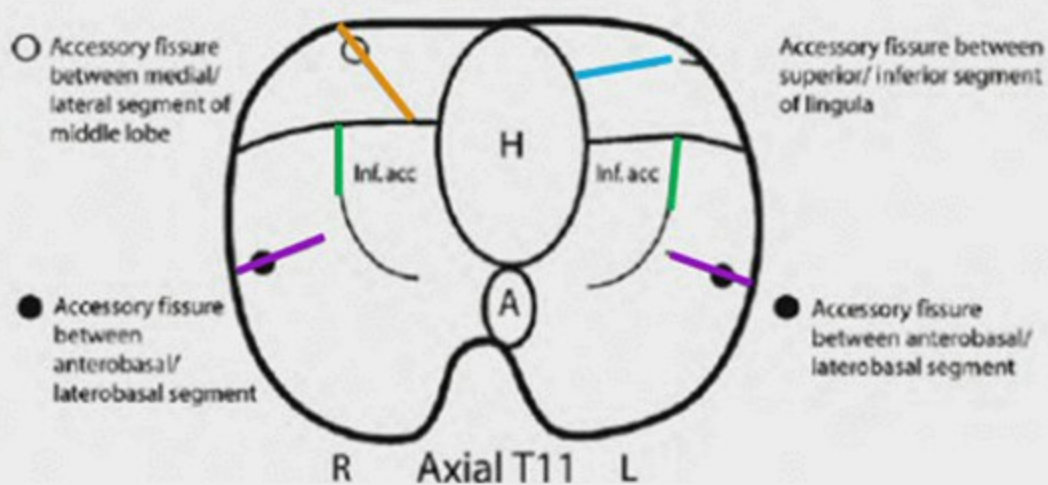
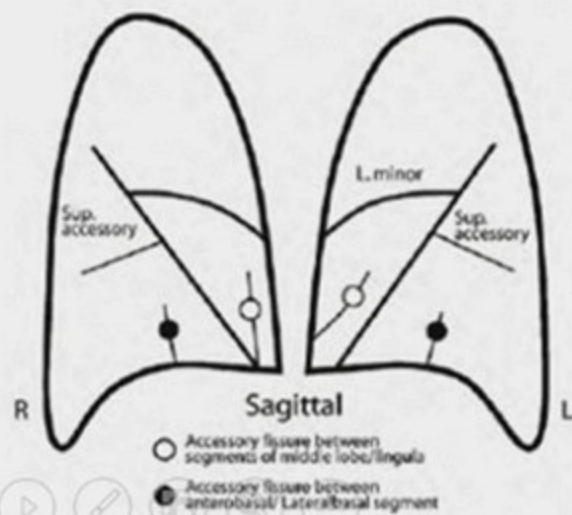
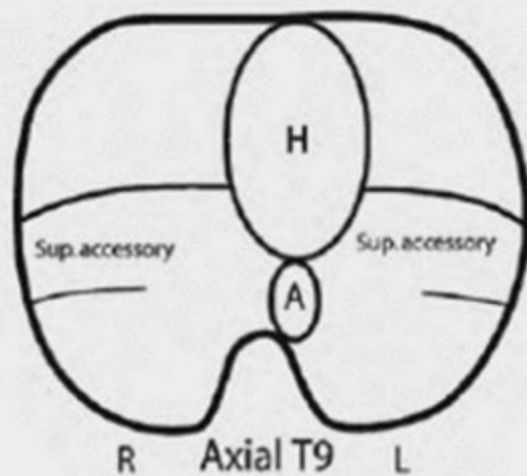
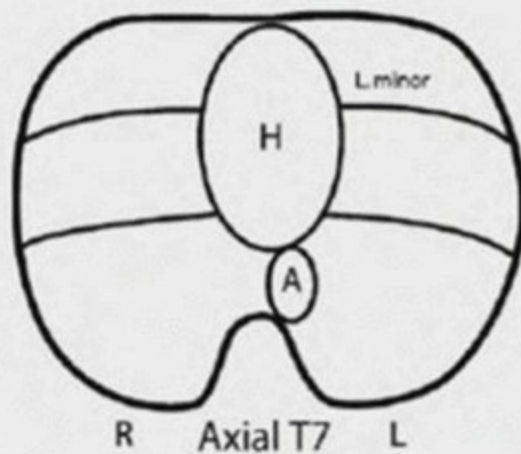
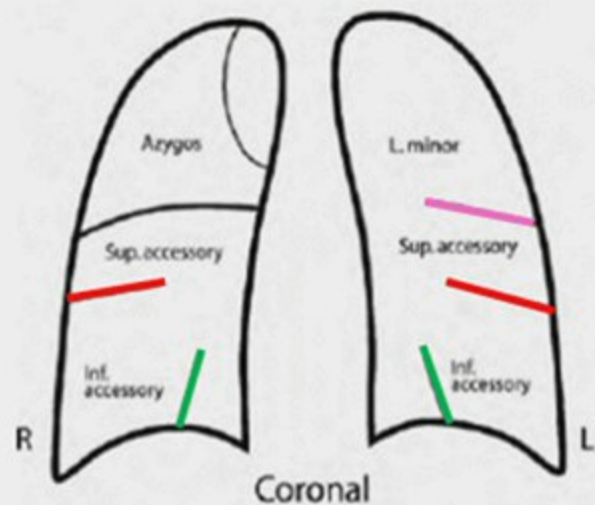


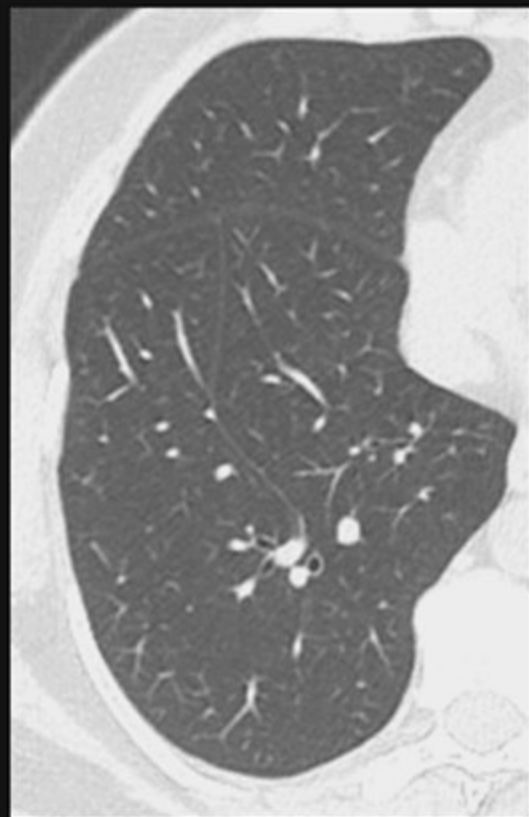
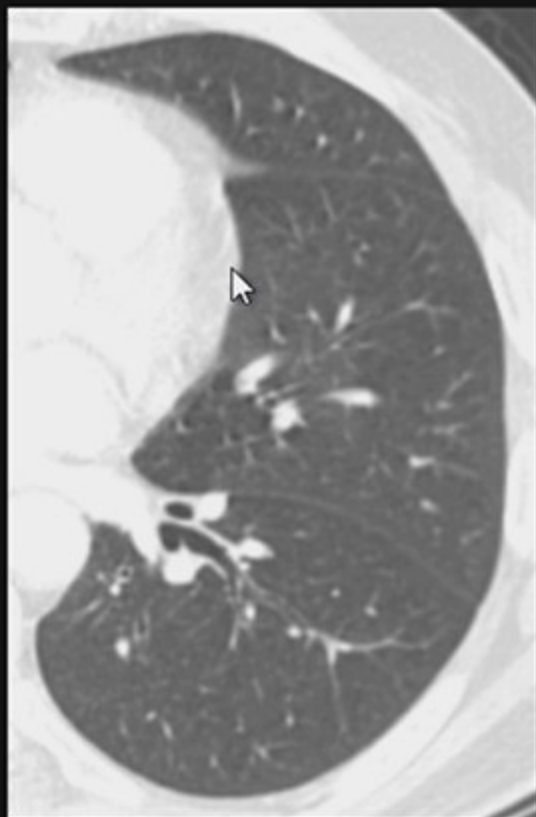
Aksesuar fissürler

- **Azigoz Fissür ve Azigoz Lobu (%1)**

- E:K=2:1
- Boş azigoz fissür

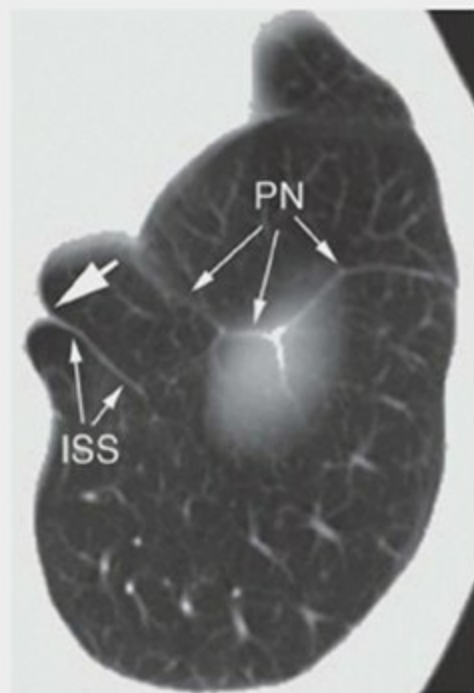
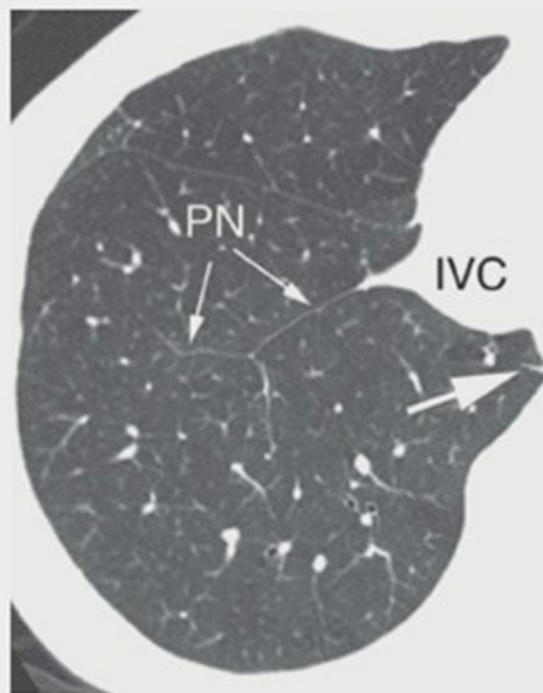
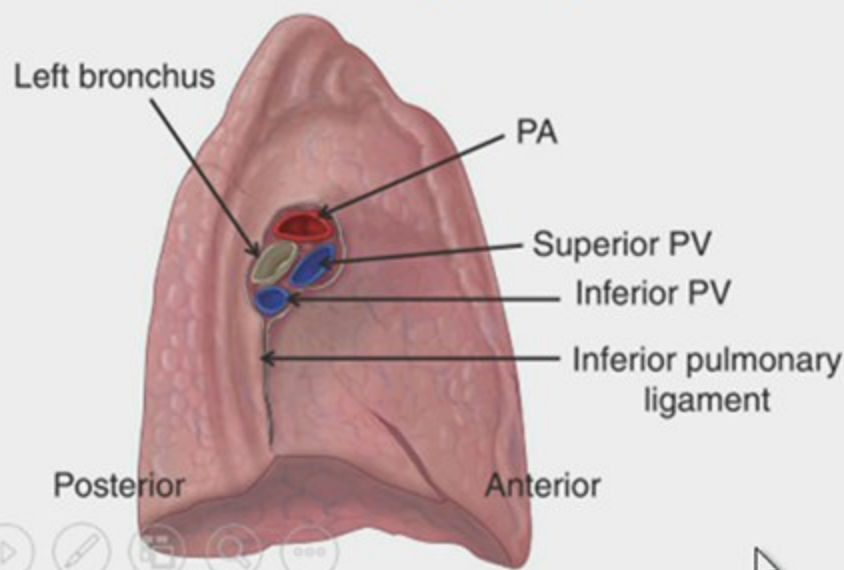






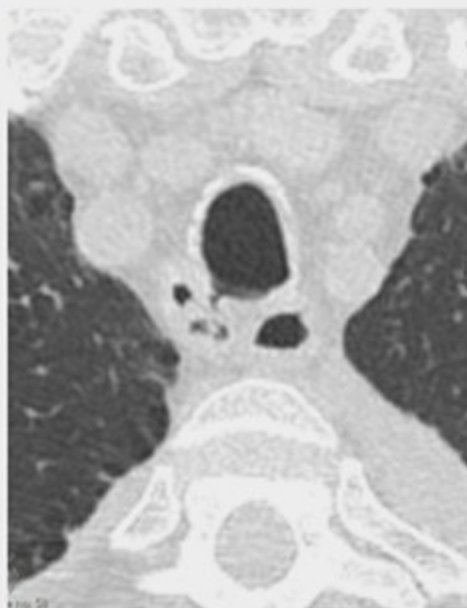
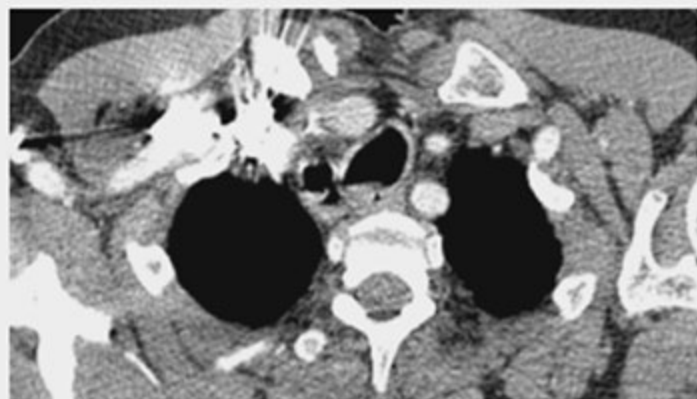
Inferior pulmoner ligaman

- Hilusu saran visseral plevra yapraklarının alt lob medialindeki uzantıları
- BT de görülme sıklığı %40-70
- ***Inter-sublobar septum***; inferior pulmoner ligamandan parankim içine uzanan lineer opasite
- ***Frenik sinirlerin refleksiyonları***



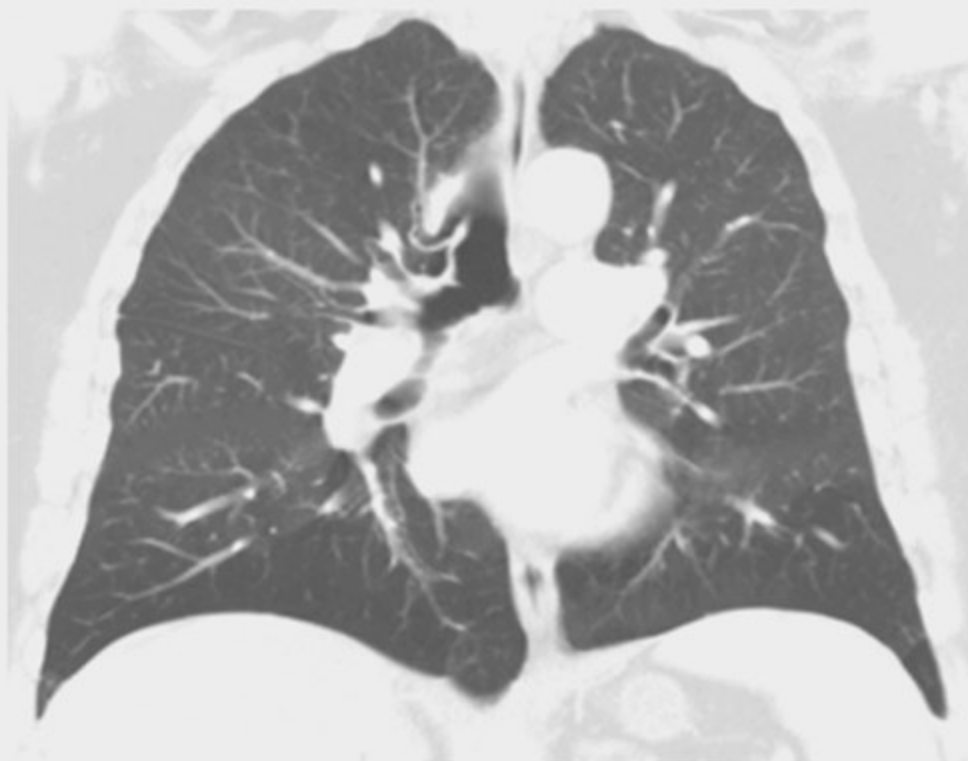
Trakeal Divertikül

- %0.75-1
- Torasiks girişi seviyesinde
- Sağ posterolateral / lateral duvarda
- Konjenital / edinsel (kr. öksürük)
- Ayırıcı tanı;
 - Laringosel, faringosel
 - Zenker divertikülü
 - Lenfoepitelyal kist
 - Bronkojenik kist



Trakeal bronkus (Bronkus suis)

- %0.1-2
- Sağ
- Karinadan <2 cm uzakta
- Supernumerary / displaced



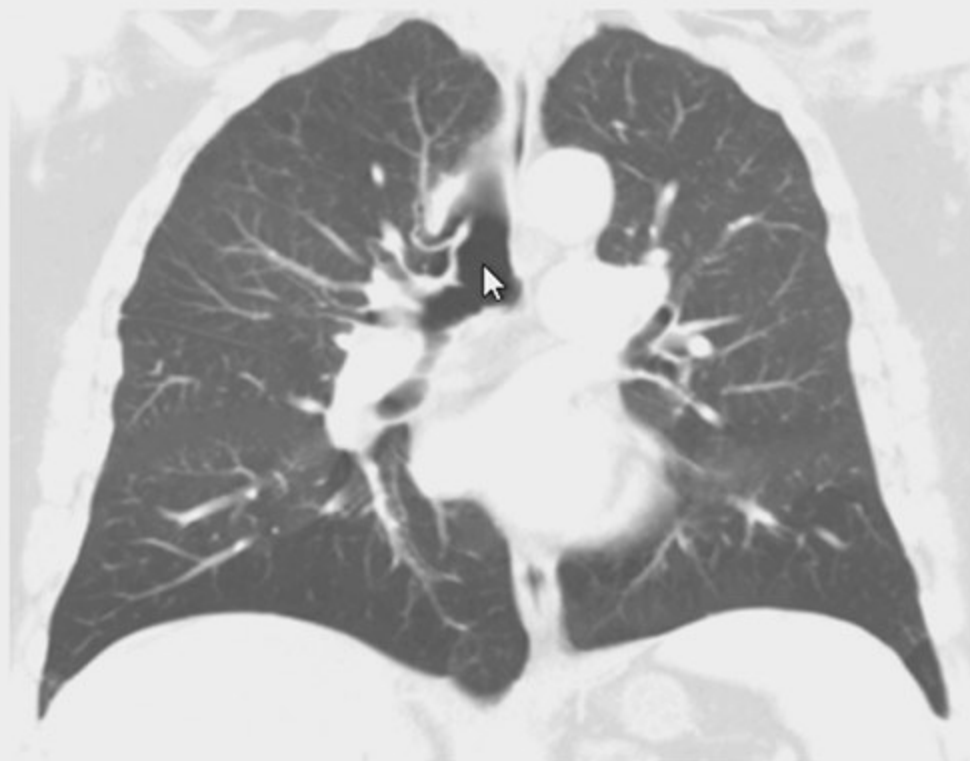
Kardiak Bronkus

- %0.09-0.5
- Bronkus intermediusun medial kesiminden çıkar
- Mediale ve kalbin arkasına doğru



Trakeal bronkus (Bronkus suis)

- %0.1-2
- Sağ
- Karinadan <2 cm uzakta
- Supernumerary / displaced



Kardiak Bronkus

- %0.09-0.5
- Bronkus intermediusun medial kesiminden çıkar
- Mediale ve kalbin arkasına doğru





Teşekkürler...

Dr. N. Sinem Gezer

DEÜTF Radyoloji Anabilim Dalı

drsinemgezer@gmail.com