

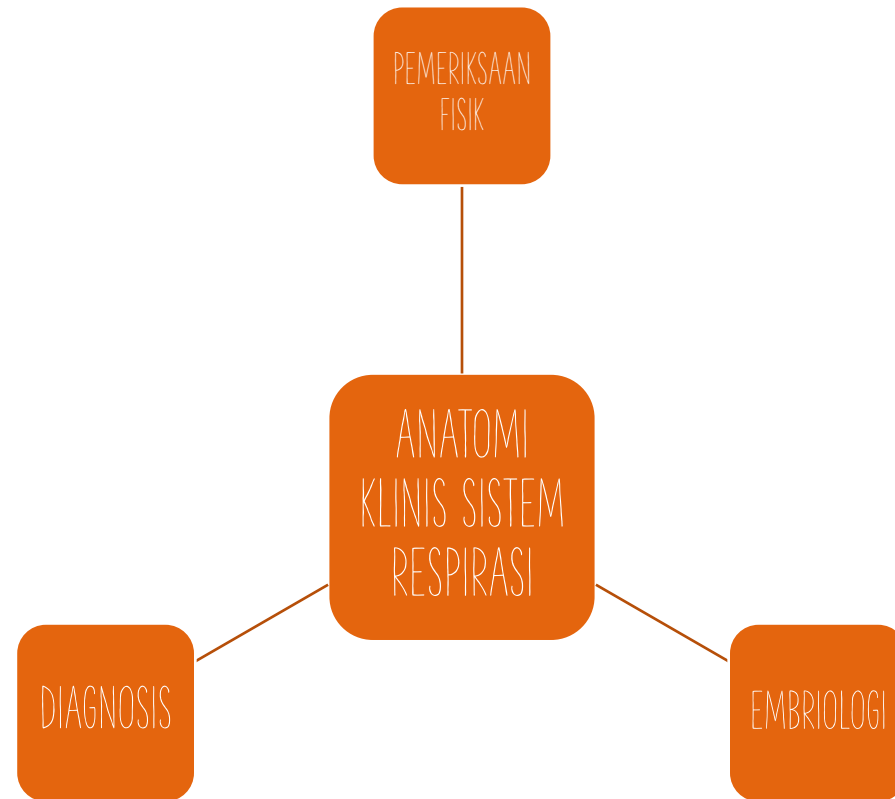
# ANATOMI KLINIS SISTEM RESPIRASI

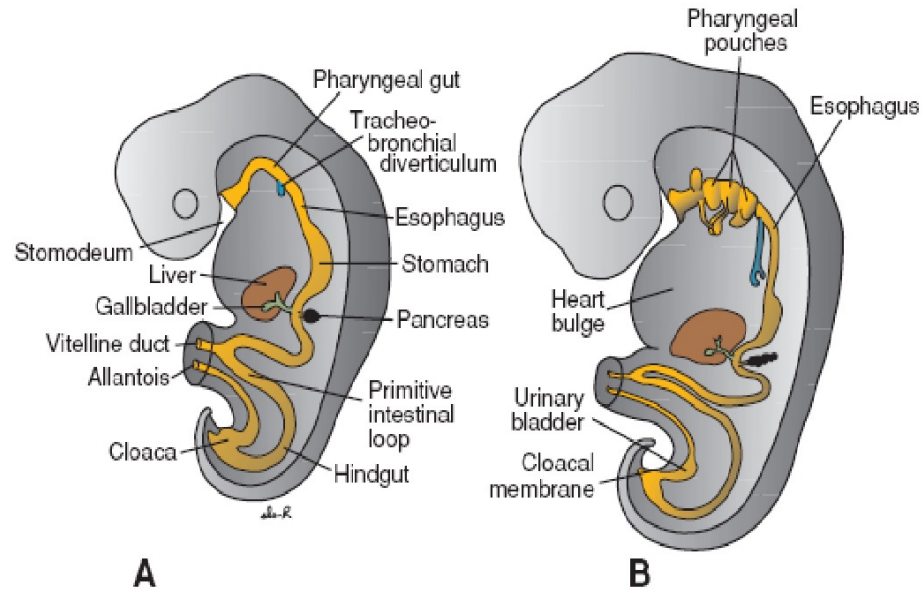
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dr. Anung Putri Illahika, M.Si  
LABORATORIUM ANATOMI FK UMM

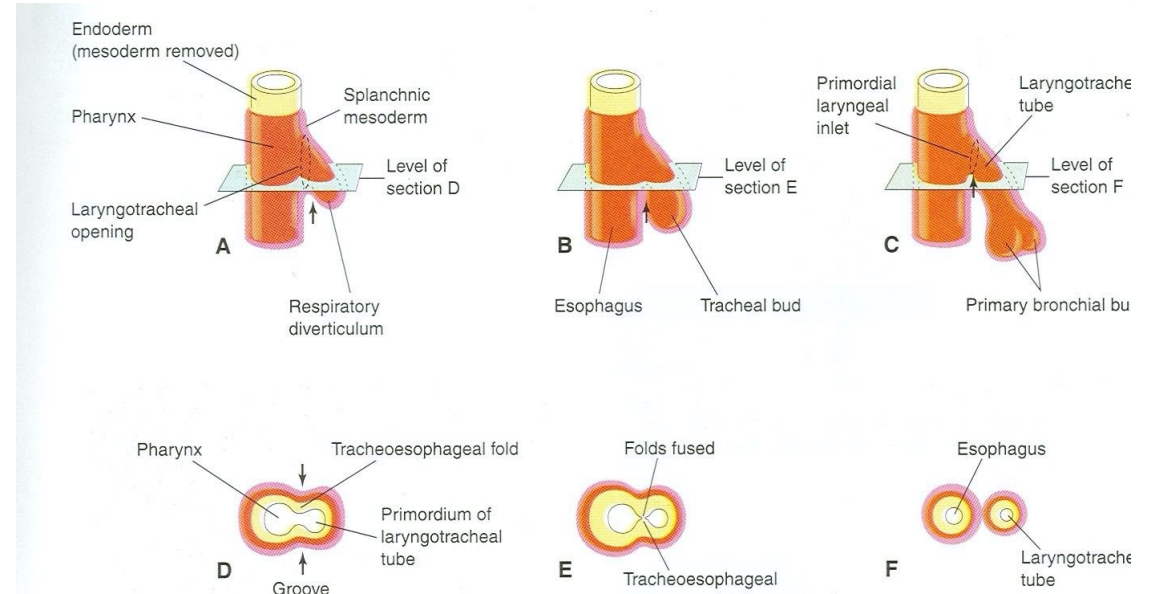
# TOPIK BAHASAN

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**Figure 13.5** Embryos during the fourth (A) and fifth (B) weeks of development showing formation of the gastrointestinal tract and the various derivatives originating from the endodermal germ layer.



# EMBRIOLOGI

- PERKEMBANGAN LUNG BUD

# EMBRIOLOGI

## MATURATION OF LUNG

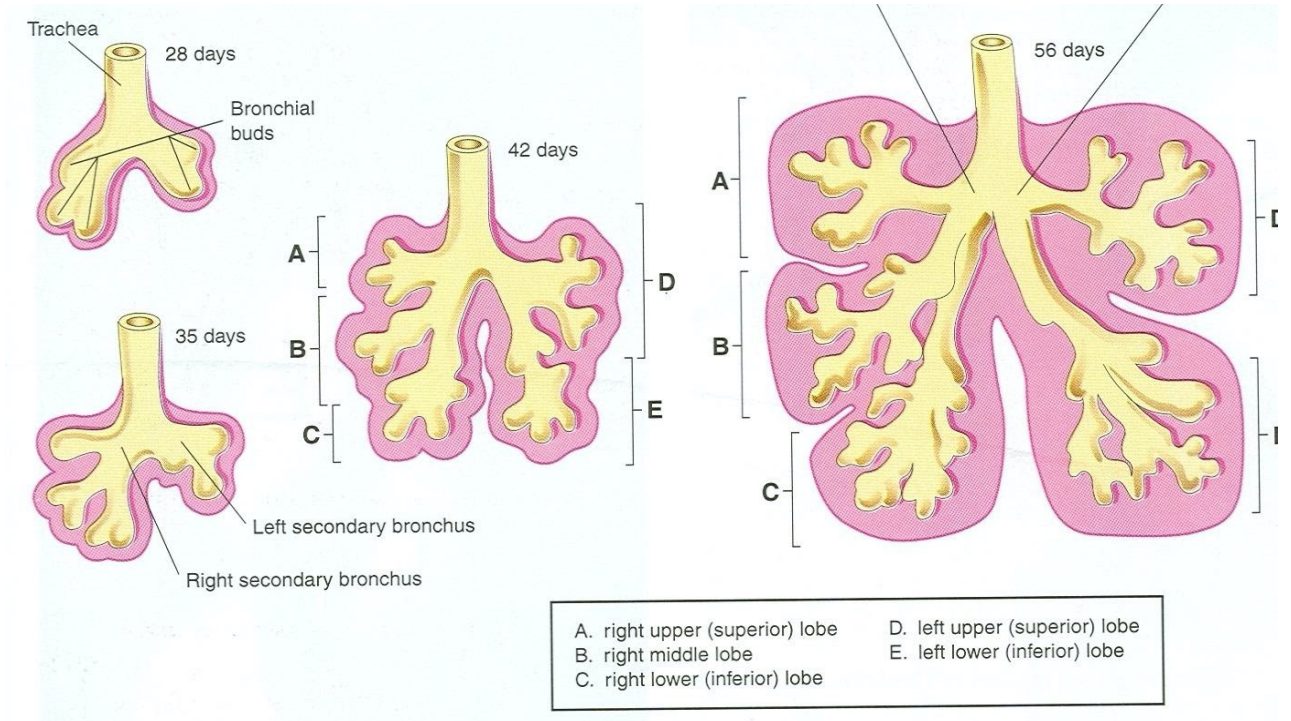


TABLE 12.1 Maturation of the Lungs

Pseudoglandular period	5–16 weeks	Branching has continued to form terminal bronchioles. No respiratory bronchioles or alveoli are present.
Canalicular period	16–26 weeks	Each terminal bronchiole divides into 2 or more respiratory bronchioles, which in turn divide into 3–6 alveolar ducts.
Terminal sac period	26 weeks to birth	Terminal sacs (primitive alveoli) form, and capillaries establish close contact.
Alveolar period	8 months to childhood	Mature alveoli have well-developed epithelial endothelial (capillary) contacts.

# PEMERIKSAAN FISIK

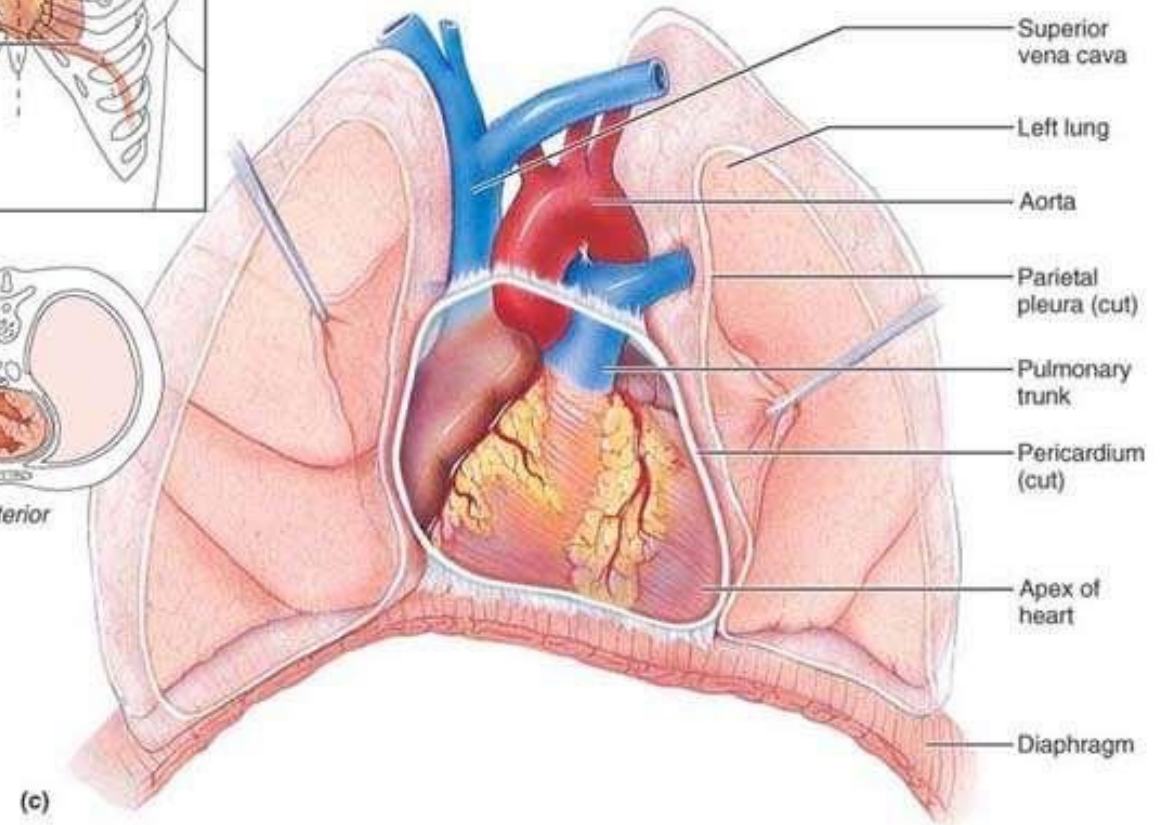
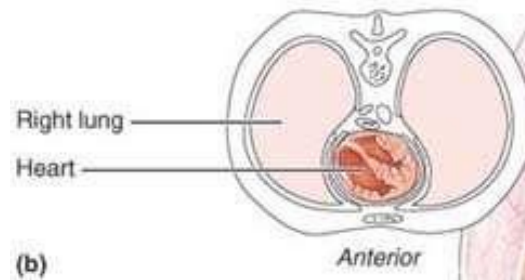
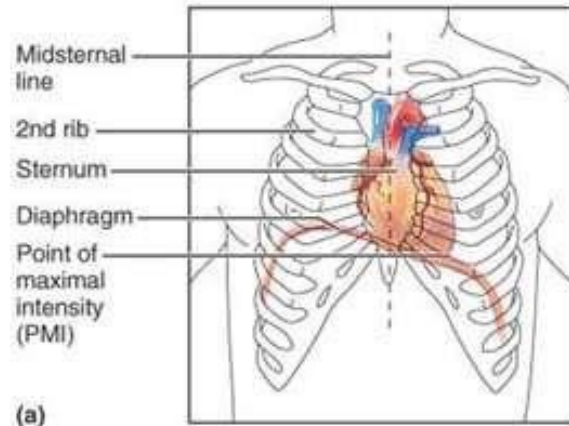
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- METODE:
  - INSPEKSI
  - PALPASI
  - PERKUSI
  - AUSKULTASI



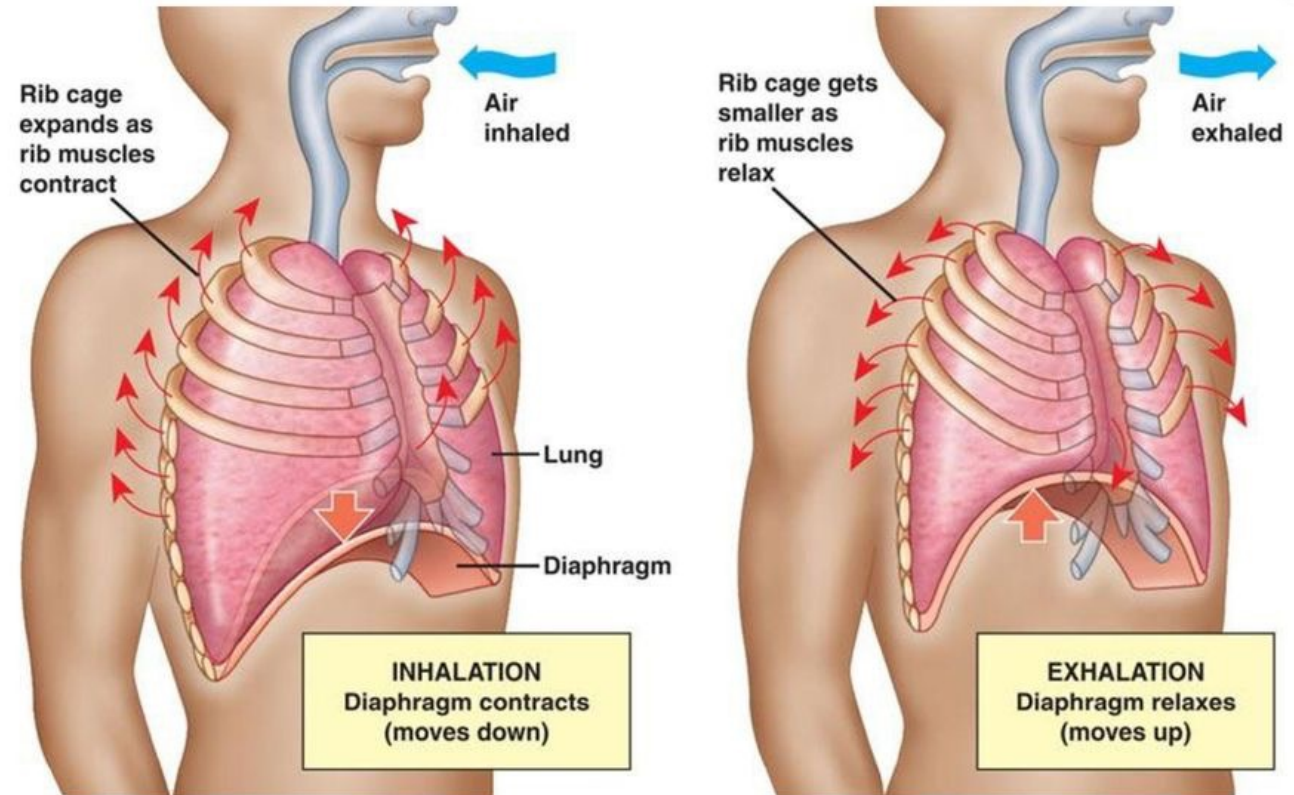
# RECALL ANATOMY

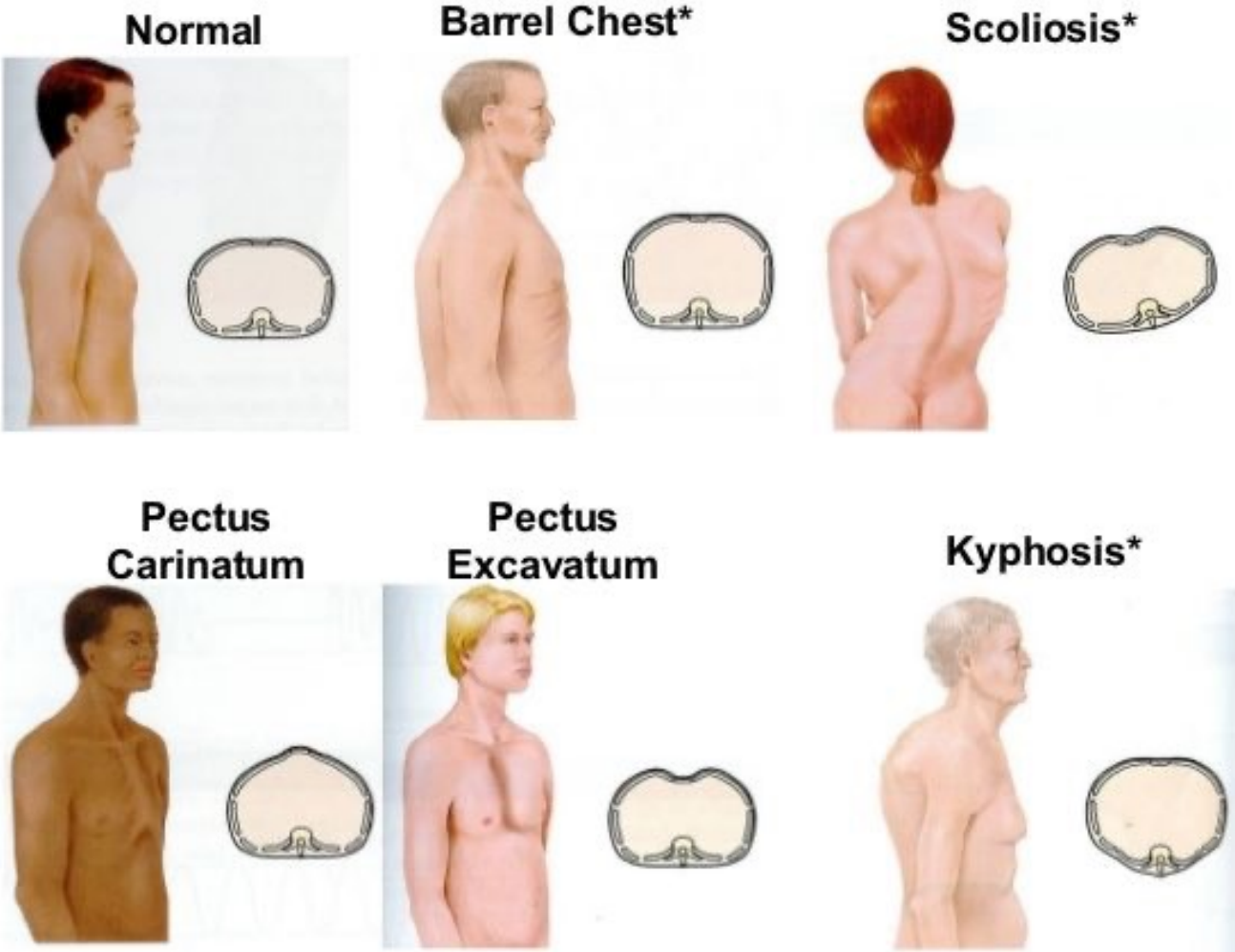
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# RECALL PHYSIOLOGY

## Mekanisme Inspirasi - Ekspirasi





# INSPEKSI THORAX

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Physical Examination and Health Assessment, Table 18-3 Jarvis 2008



# PALPASI (EKSPANSI THORAX)

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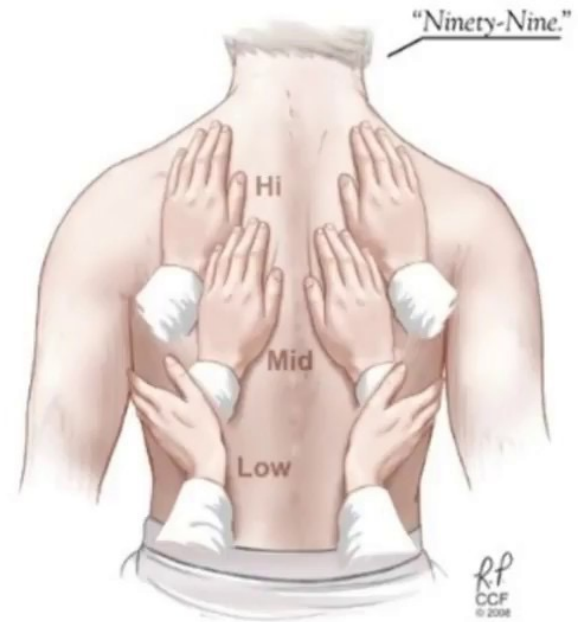
Pemeriksaan Ekspansi Paru (palpasi dinamis)



Pemeriksaan Ekspansi Paru Dinding Toraks Anterior & Posterior

# PALPASI (TACTILE FREMITUS)

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## Teknik Perkusi Dinding Toraks

# PERKUSI THORAX

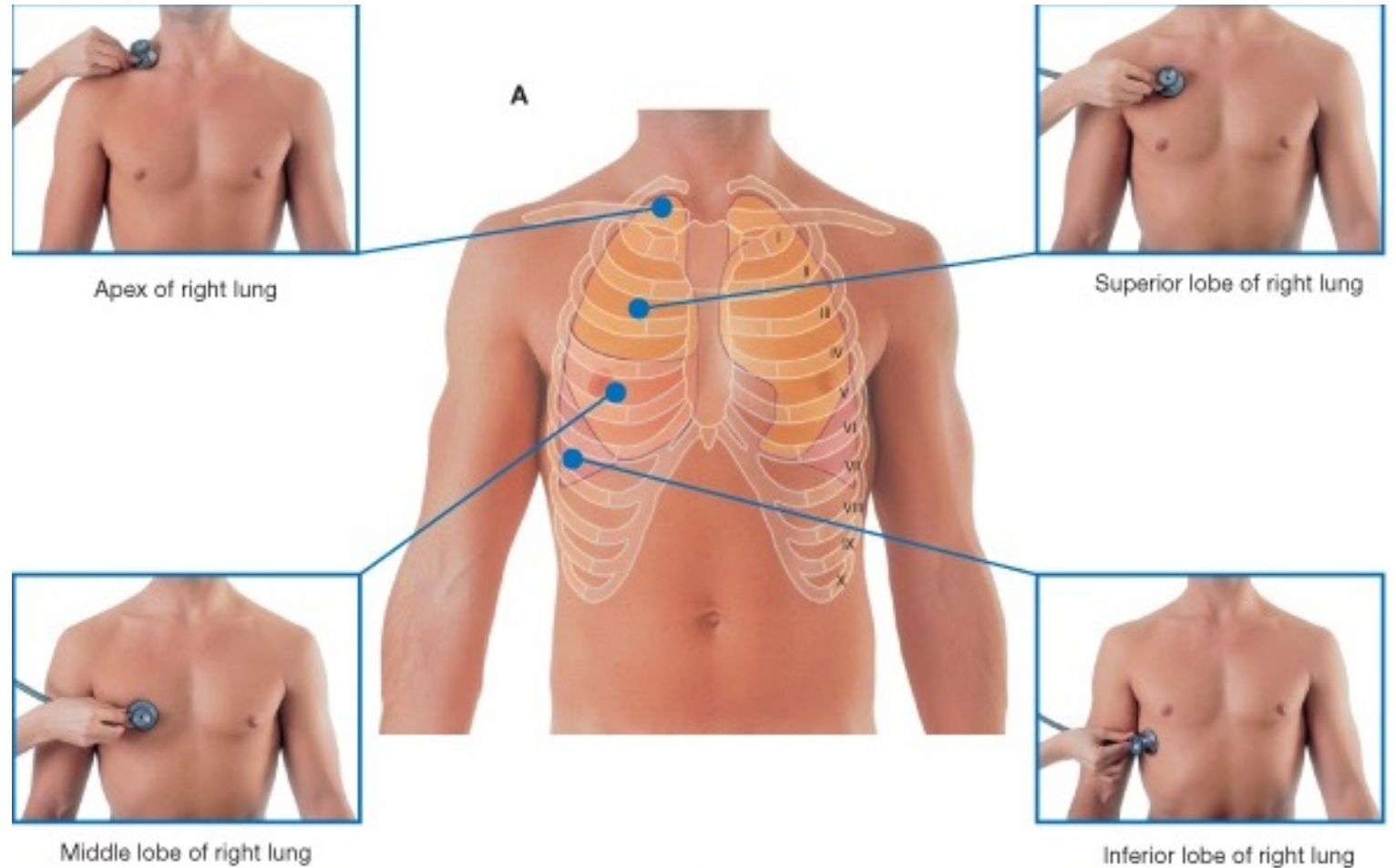
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Lokasi Titik Perkusi Dinding Toraks Anterior & Posterior

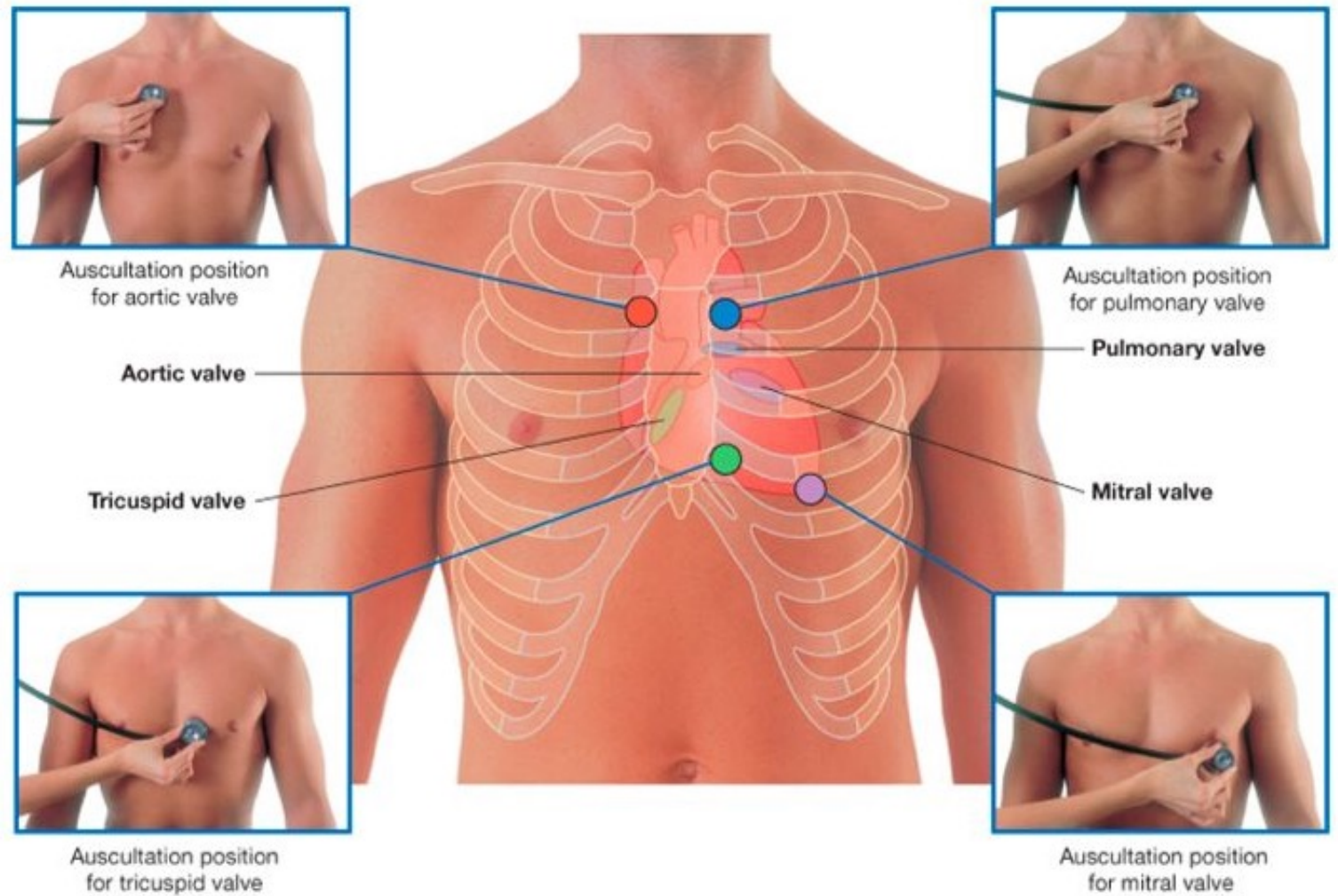
# AUSKULTASI SUARA NAFAS

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# AUSKULTASI SUARA JANTUNG

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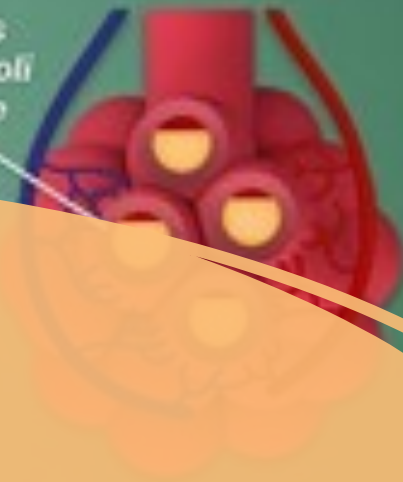


# Acute Respiratory Distress Syndrome (ARDS)



Healthy alveoli

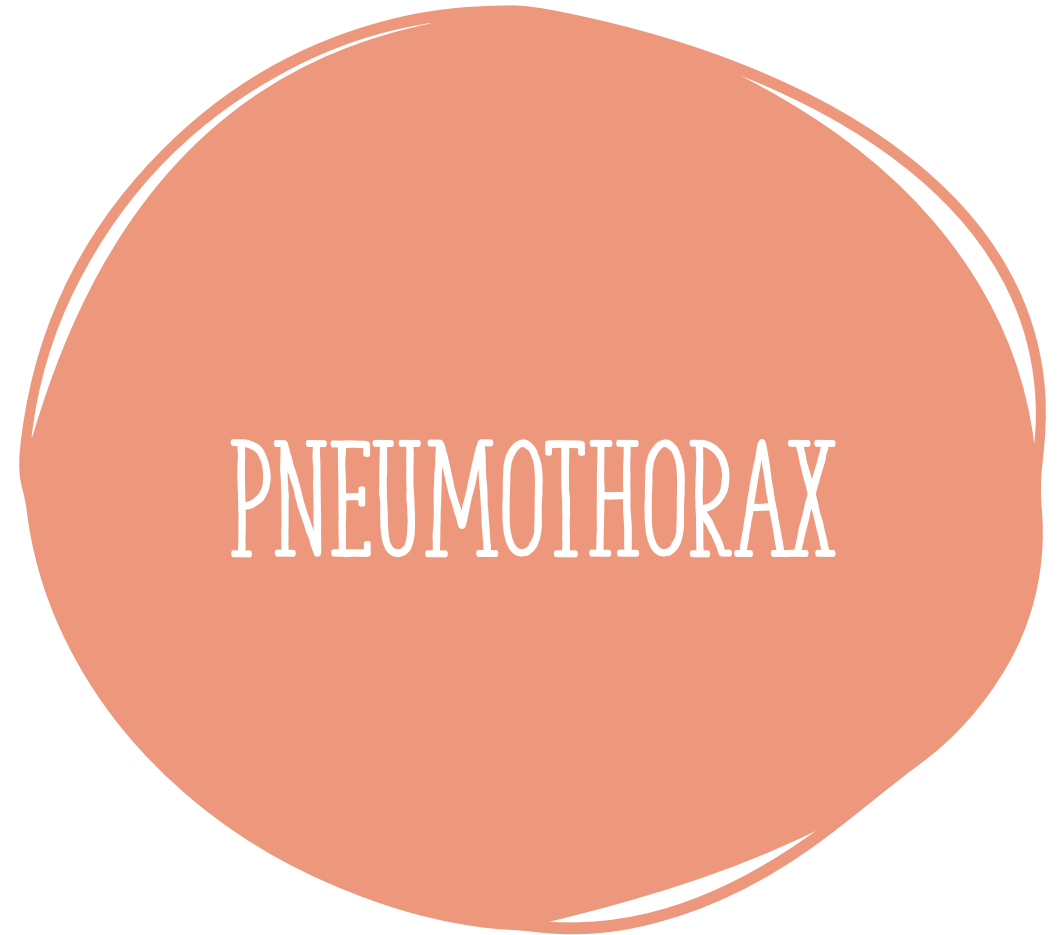
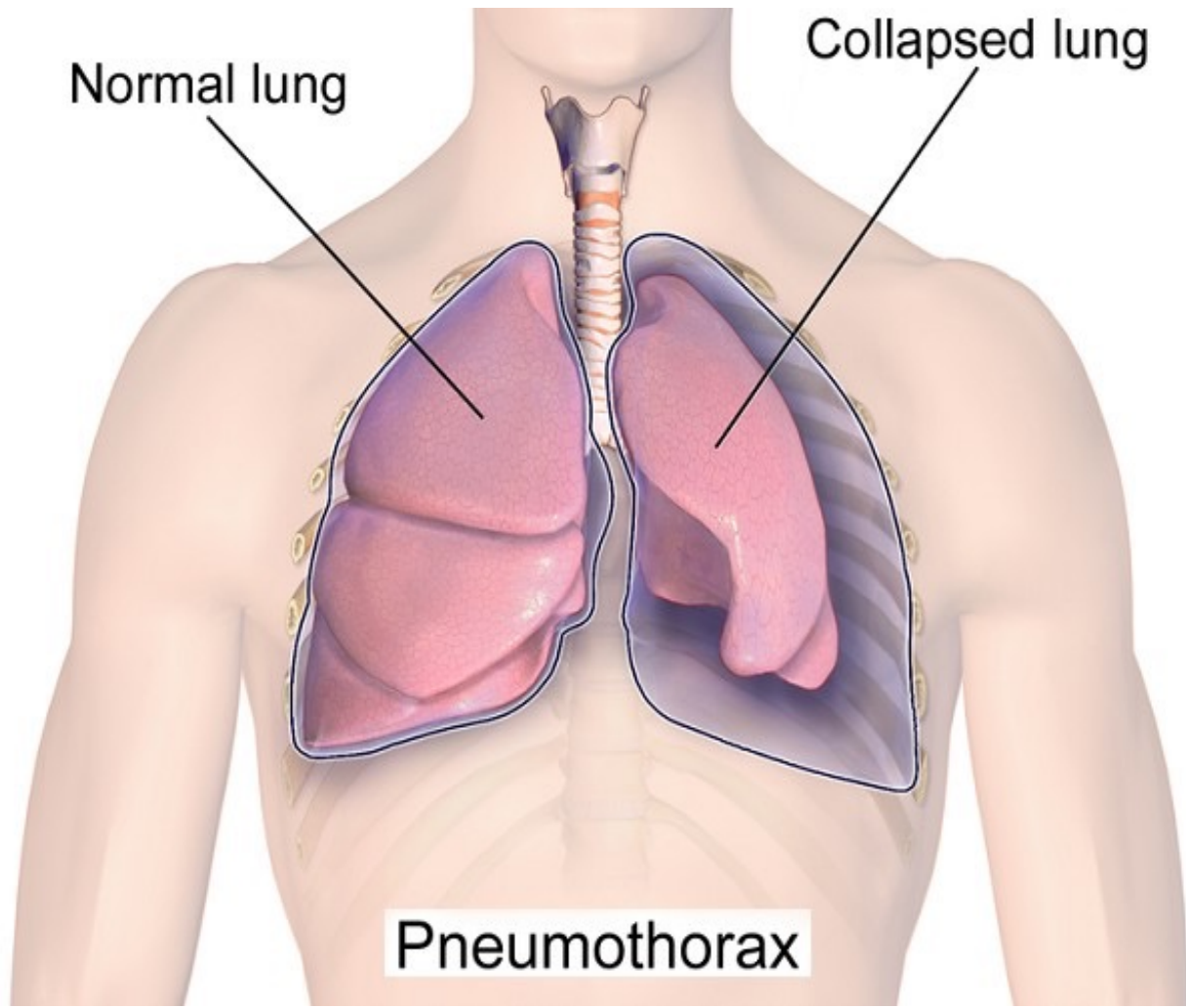
Thickening of the walls and fluid inside the alveoli prevents gas exchange



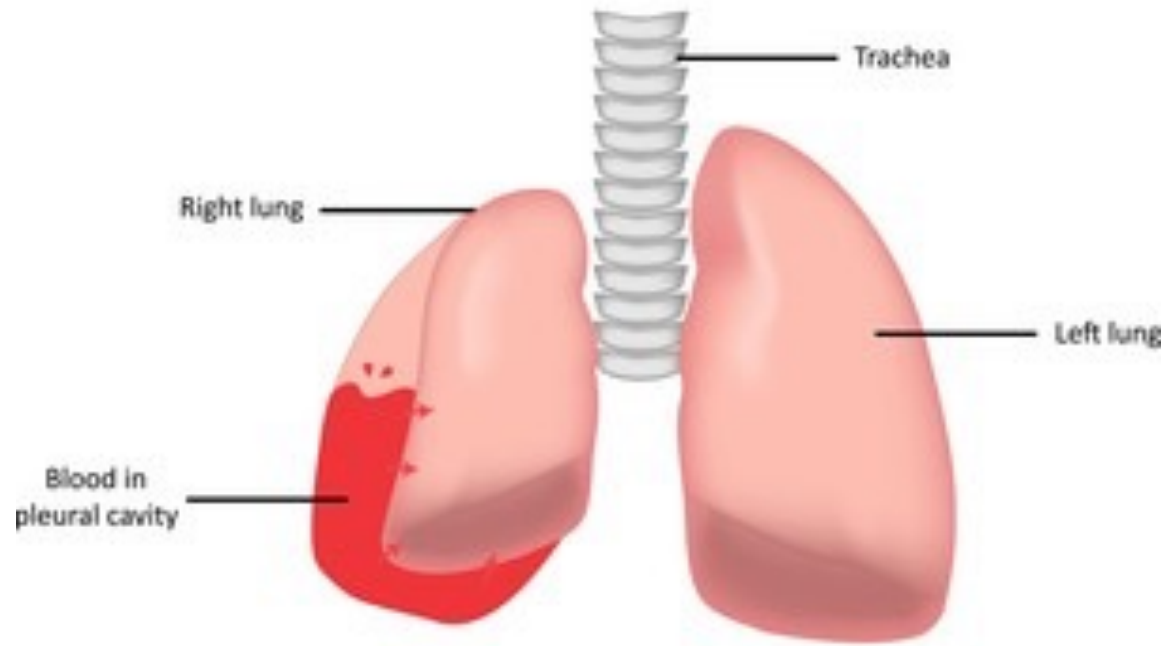
Alveoli with ARDS

## DIAGNOSIS

ACUTE RESPIRATORY DISTRESS SYNDROME



# Hemothorax



**Haemorrhagic  
Pleural Effusion**

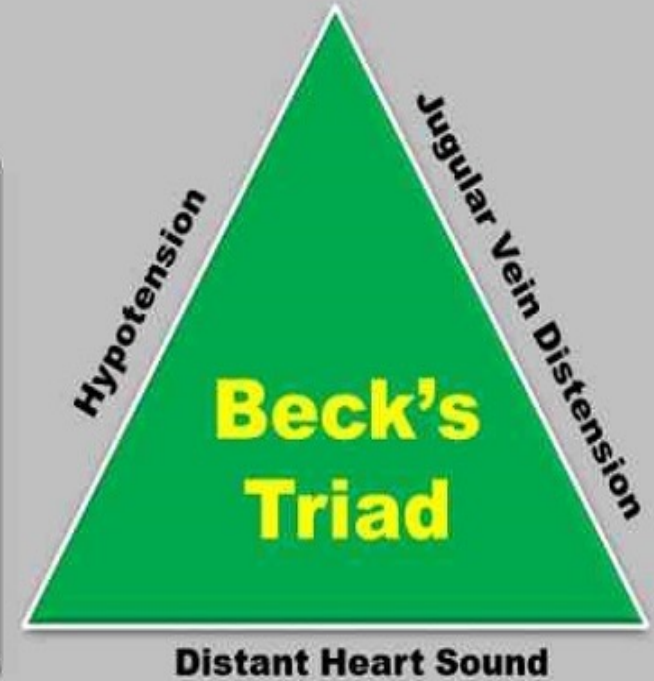
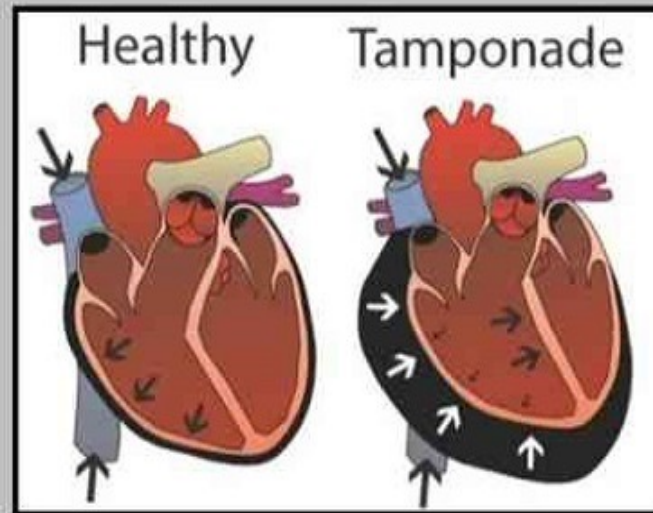
**Healthy Lung**

shutterstock.com · 327023219

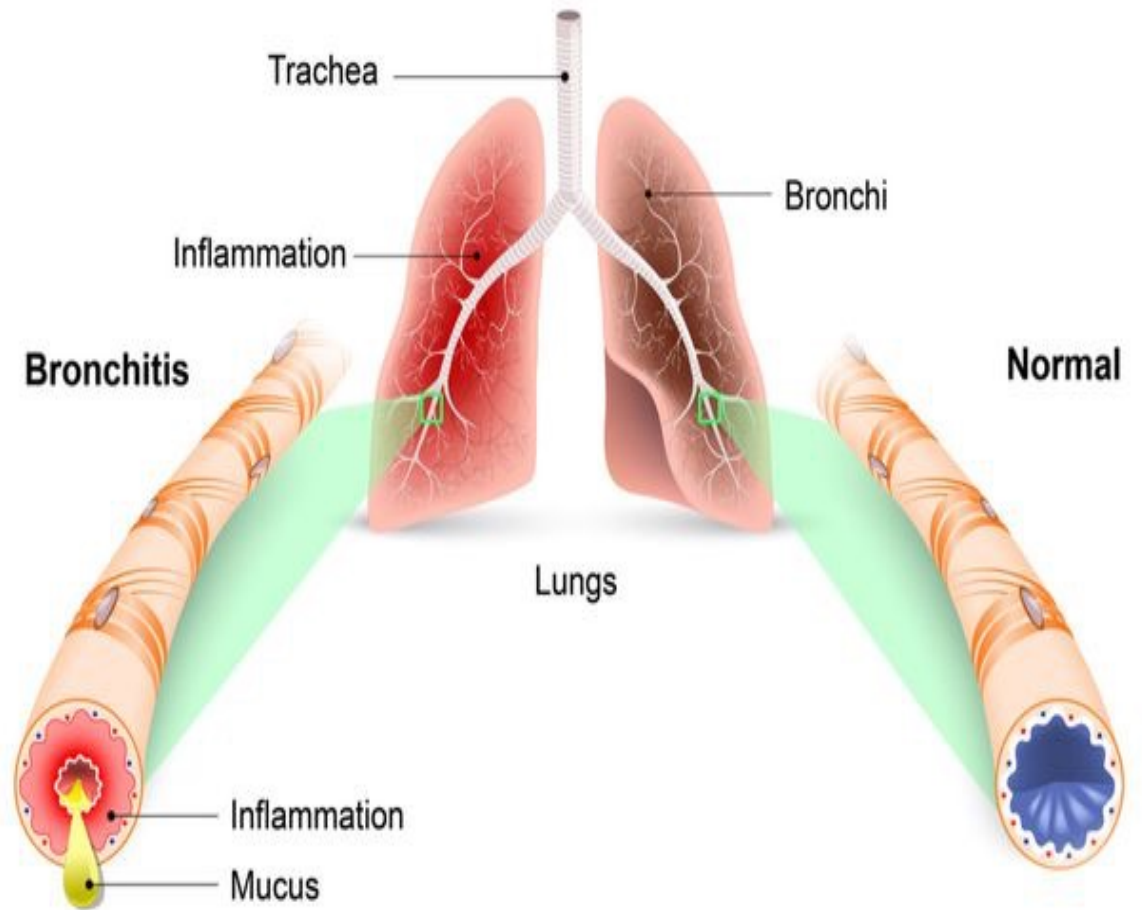
HEMOTHORAX

# CARDIAC TAMPONADE

## Beck's Triad: Signs of Cardiac Tamponade



# BRONKHITIS





# Mensyukuri Nikmat Islam yang Allah Subhanahu wata'ala karuniakan kepada kita

فَمَنْ يُرِدِ اللَّهُ أَنْ يَهْدِيَهُ يَشْرَحْ صَدْرَهُ  
لِلْإِسْلَامِ ۗ وَمَنْ يُرِدْ أَنْ يُضِلَّهُ يَجْعَلْ  
صَدْرَهُ ضَيِّقًا حَرَجًا كَأَنَّمَا يَصَّعَّدُ فِي  
السَّمَاءِ ۗ كَذَلِكَ يَجْعَلُ اللَّهُ الرِّجْسَ عَلَى  
الَّذِينَ لَا يُؤْمِنُونَ

Barangsiapa yang Allah menghendaki akan memberikan kepadanya petunjuk, niscaya Dia melapangkan dadanya untuk (memeluk agama) Islam. Dan barangsiapa yang dikehendaki Allah kesesatannya, niscaya Allah menjadikan dadanya sesak lagi sempit, seolah-olah ia sedang mendaki langit. Begitulah Allah menimpakan siksa kepada orang-orang yang tidak beriman. (QS. Al-An'am:125)

ALLAH SWT SANGAT DETAIL DALAM MEMBERIKAN PERLINDUNGAN

HIDUNG

EPIGLOTIS

PLEURA

PERICARDIUM

DINDING THORAX



YouTube

dakwahsunnahbogor