



Sick Call Screener Course

Respiratory System

(2.2)



Enabling Objectives

- 1.17 Utilize the knowledge of respiratory system anatomy while assessing a patient with a respiratory complaint
- 1.18 Utilize the knowledge of respiratory system physiology while assessing a patient with a respiratory complaint
- 1.19 Obtain history from a patient with a common respiratory system complaint



Enabling Objective (Cont.)

- 1.20 Perform a respiratory system examination
- 1.21 State signs and symptoms of common respiratory system disorders
- 1.22 State treatments for common respiratory system disorder
- 1.16 State Red Flag criteria



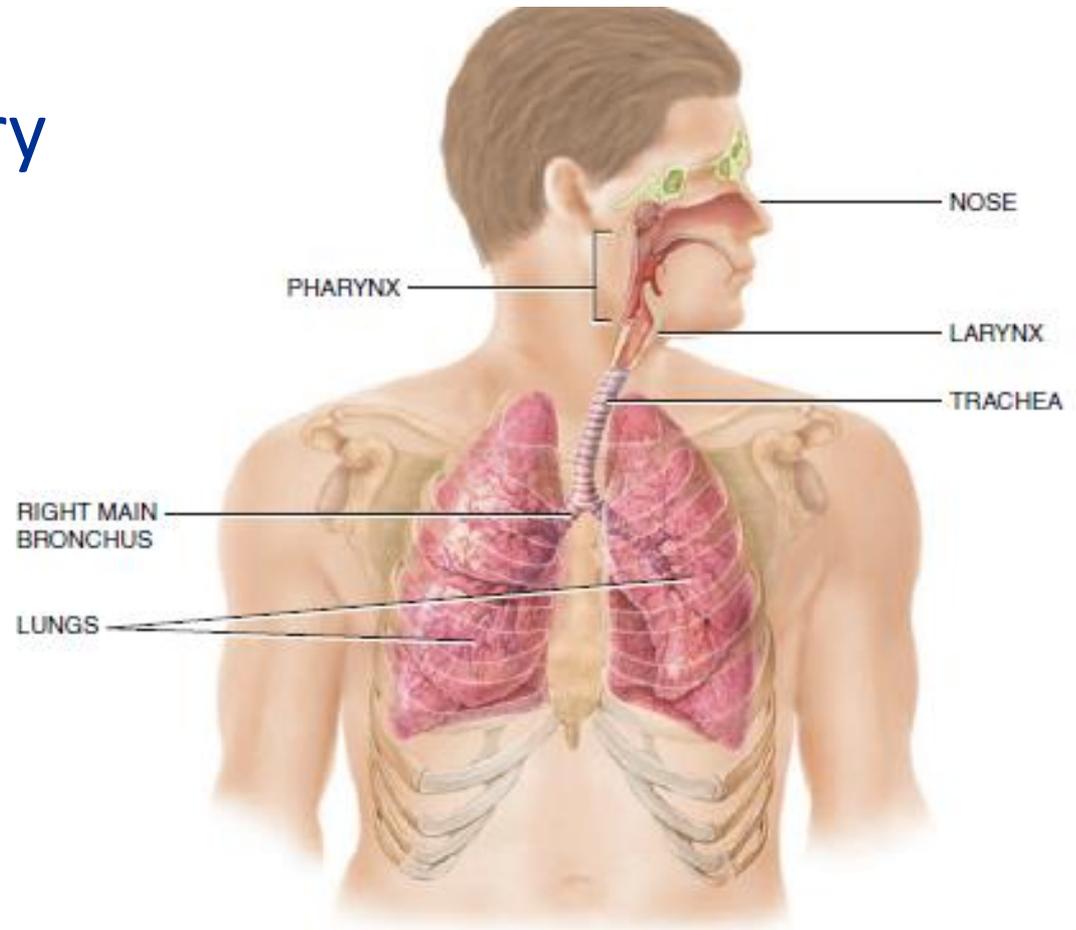
Introduction

- The respiratory system ventilates and oxygenates the body.
- Removes carbon dioxide (CO₂)
- Document and report respiratory system assessment findings to a provider.



Anatomy and Physiology

- Upper Respiratory Tract
 - Nose
 - Nasopharynx
 - Oropharynx



(From Principles of Anatomy and Physiology, 14th Ed.)



Anatomy and Physiology (Cont.)

- Lower Respiratory Tract
 - Larynx
 - Trachea
 - Bronchi
 - Lungs
 - Right: upper, middle and lower lobes
 - Left: upper and lower lobes



Thorax

- Anterior:
 - Sternum, manubrium, xiphoid process and costal cartilage
- Laterally:
 - 12 pairs of ribs
- Posteriorly:
 - 12 thoracic vertebrae

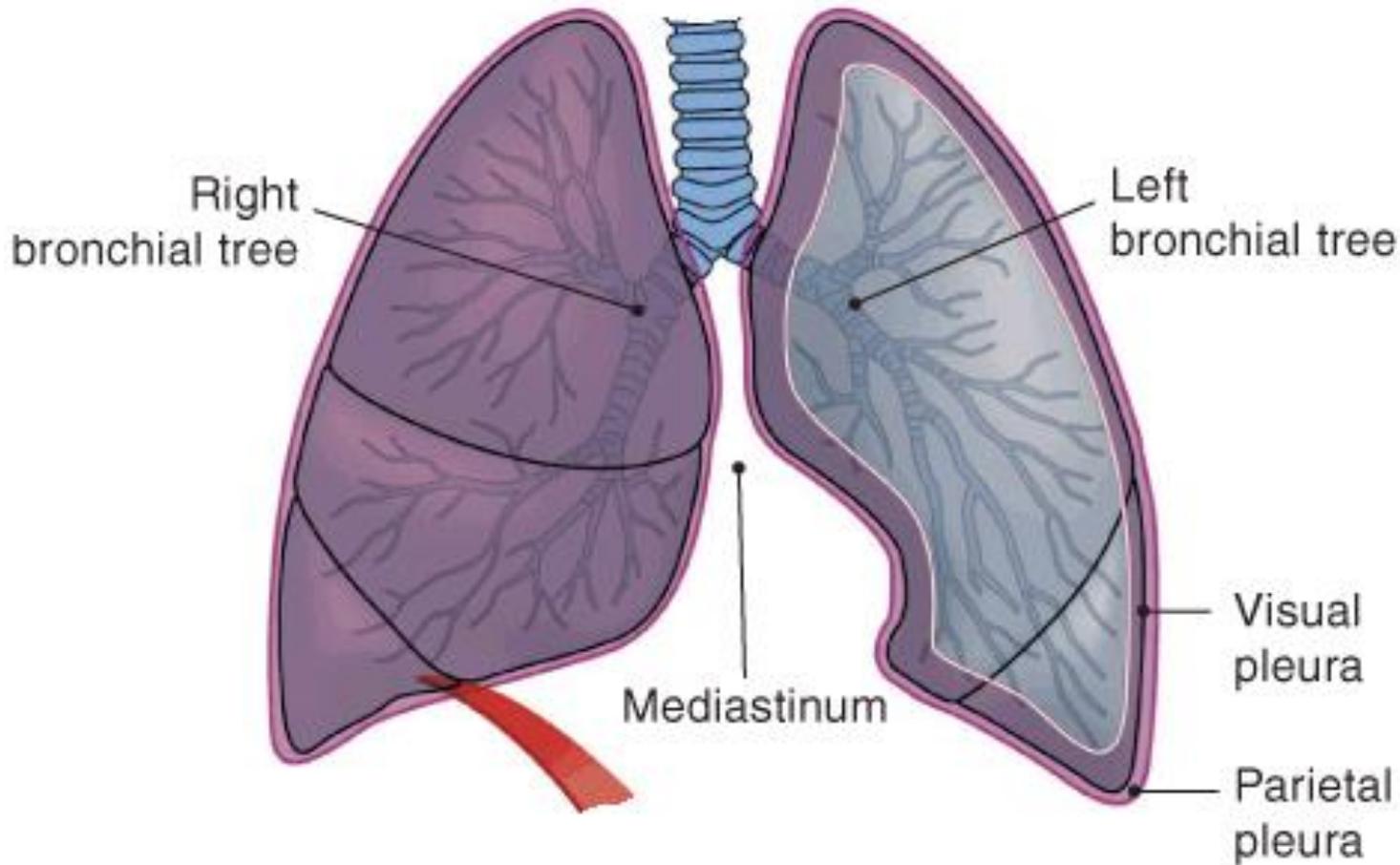


Respiratory Muscles

- Diaphragm
- Intercostal Muscles
- Sternocleidomastoid and Trapezius Muscles



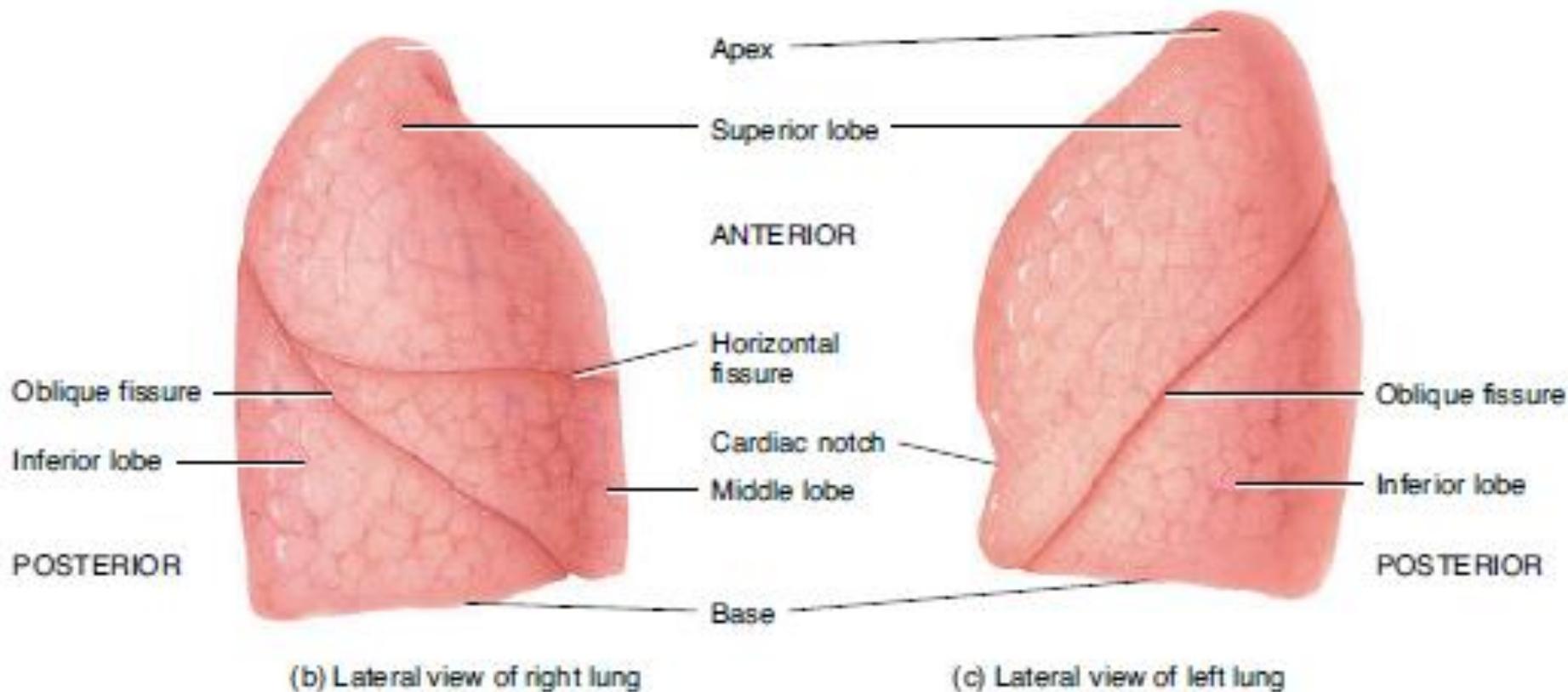
Interior Chest



(Figure 2.24, Physical Rehabilitation 6th Ed., 2014, <https://statref.com>)



Lungs



(From Principles of Anatomy and Physiology, 14th Ed.)

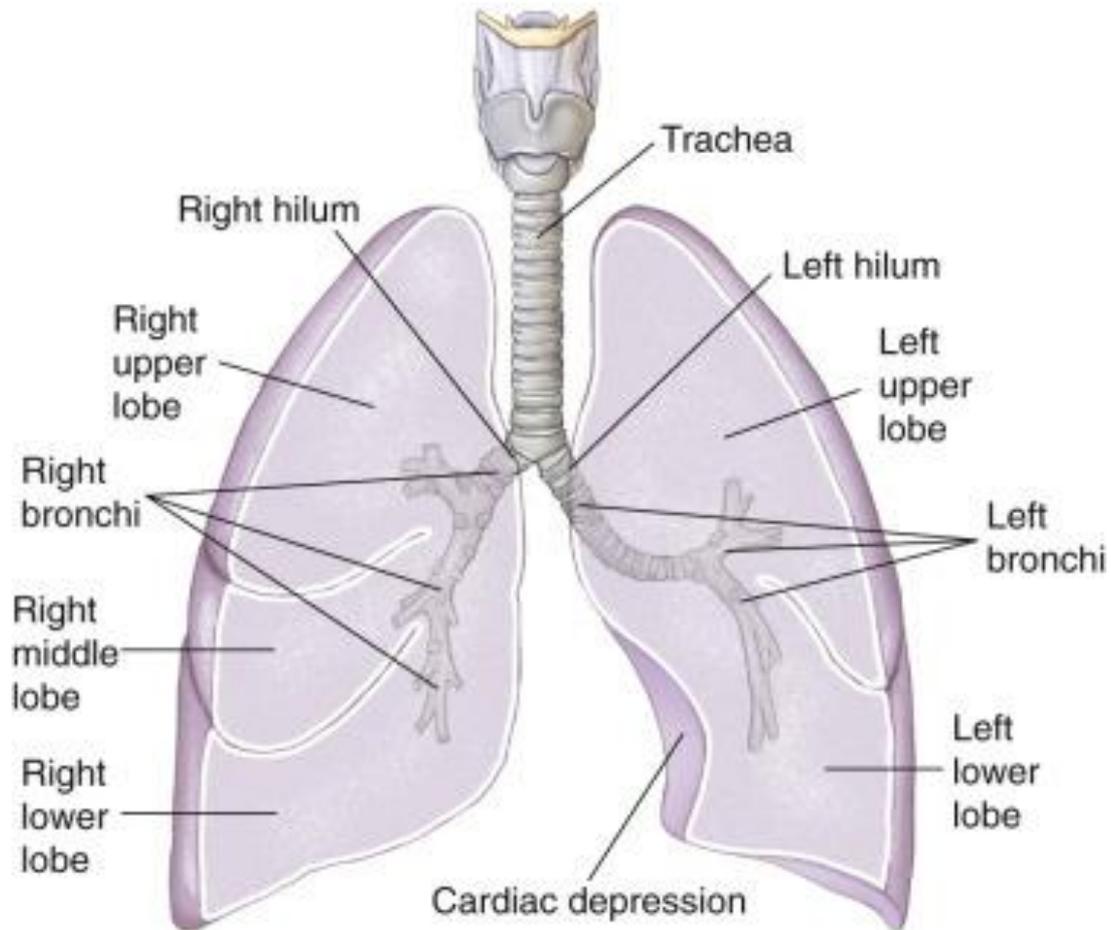
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Relevant, Responsive, Requested

2.2-2-10



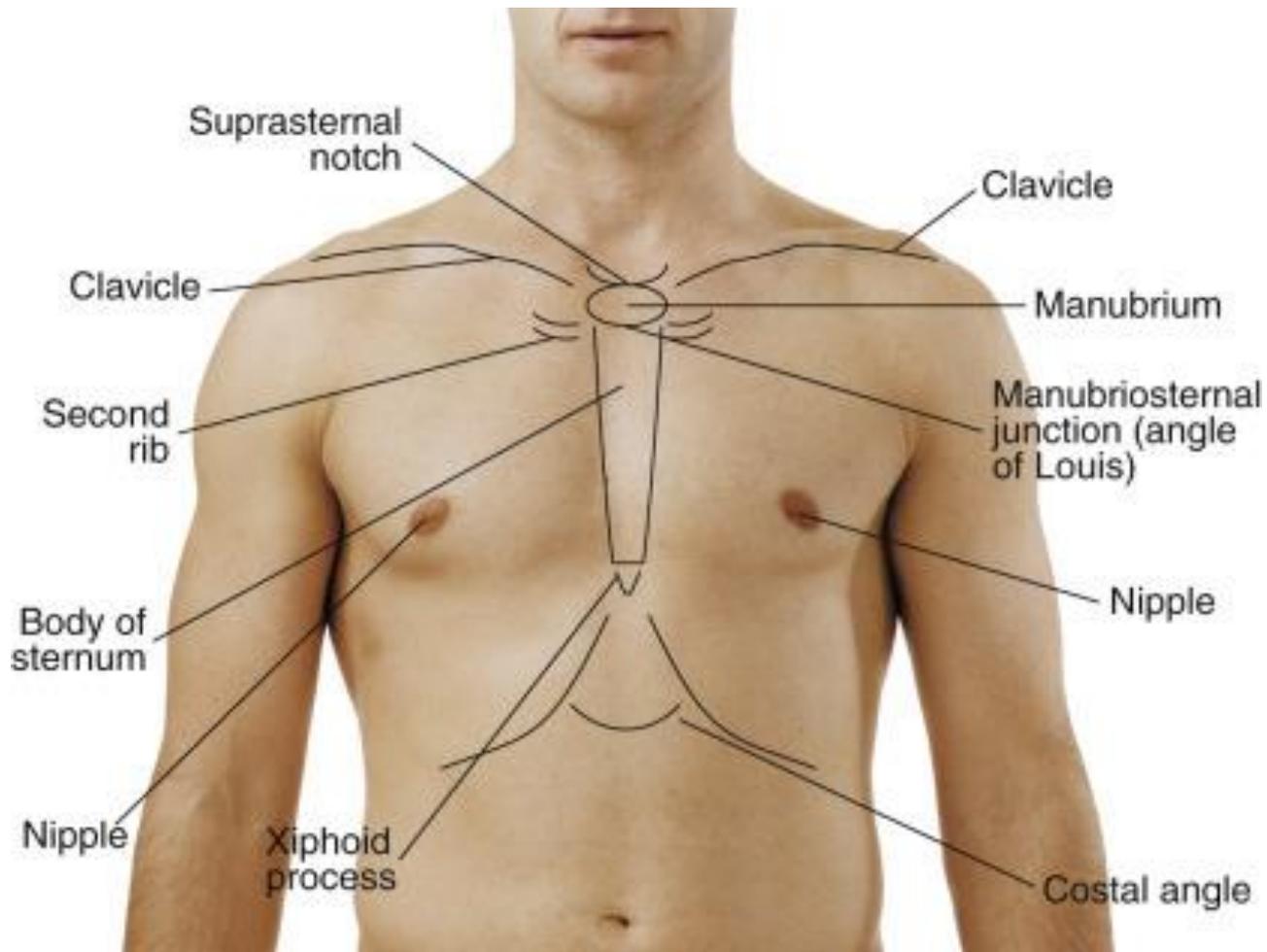
Tracheobronchial Tree



(From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)



Anatomic Landmarks



(From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)

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History

- Chief Complaint (CC)
- History of present illness (HPI)
- Review of Systems
- Past Medical & Surgical History (PMHx & PsurgHx)
- Family history
- Social history



Cough HPI

- Onset
- Location
- Duration
- Characteristics
- Aggravates
- Relieves
- Temporal Factors
- Severity



Cough PMHx and PSurgHx

- Thoracic, nasal, or pharyngotracheal trauma, surgery
- hospitalizations or pulmonary disorders
- Chronic diseases
- Testing
- Immunizations



(From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)

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Family Hx

- Tuberculosis
- Cystic fibrosis
- Emphysema
- Malignancy
- Clotting disorder



(U.S. Air National Guard photo by Staff Sgt. Kristina Overton, www.dvidshub.net)

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2.2-2-16



Social Hx

- Tobacco use
- Exercise
- Exposure risk
- Travel
- Hobbies



(U.S. Navy photo by Mass Communication Specialist 2nd Class (SW) Terah L. Bryant., www.dvidshub.net)

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2.2-2-17



ROS

- Constitutional
- Ear, Nose and Throat
- Cardiac
- Gastrointestinal



Examination

- Will be conducted with a HEENT, abdominal, heart and blood vessel exam.
- Every exam should begin with a general impression and vital signs.



Inspection

- Position patient
- Use a drape if necessary
- Note shape and symmetry
- Check clavicle symmetry
- Check position of the chest
- Observe respirations
- Observe the lips and nails for cyanosis



Palpation

- Palpate thoracic muscles and skeleton
- Palpate for crepitus
- Check for pleural friction
- Palpate for thoracic expansion
- Tactile Fremitus
- Examine the trachea

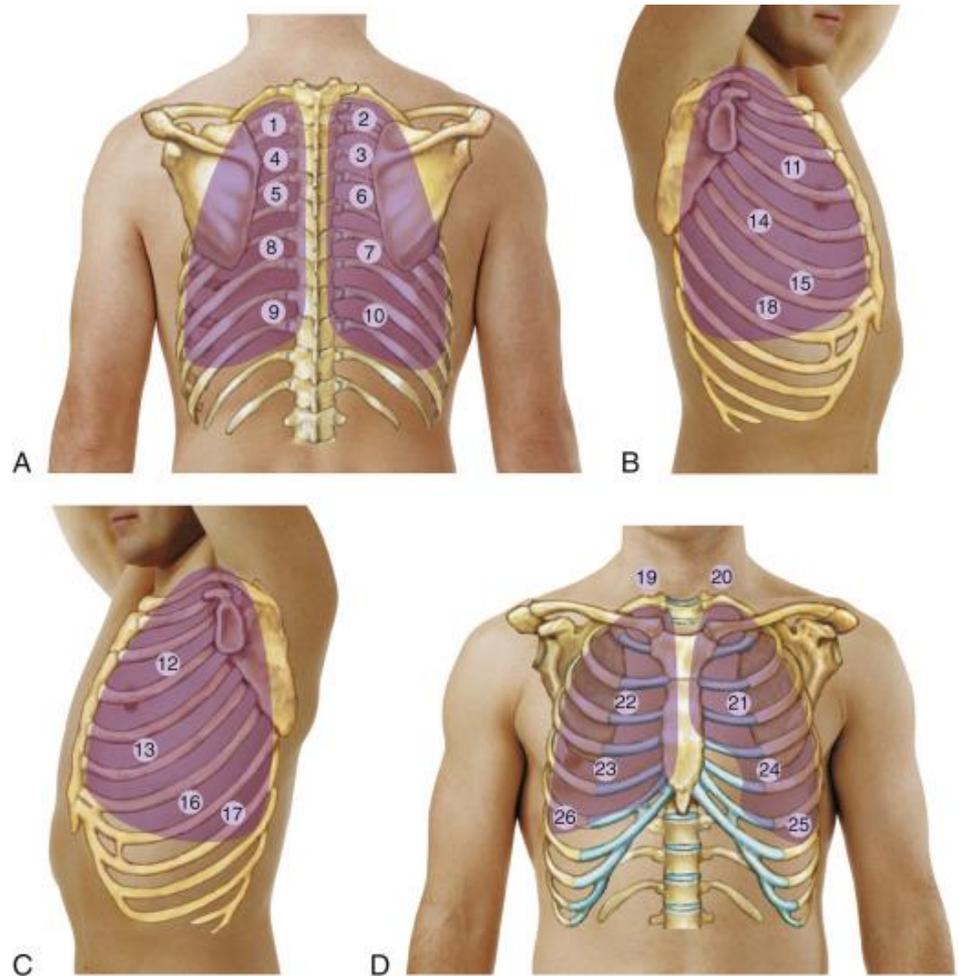


All Photos: (From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)



Percussion

- Techniques
- Compare all areas bilaterally
- Check for:
 - Tone
 - Intensity
 - Pitch
 - Duration
 - Quality

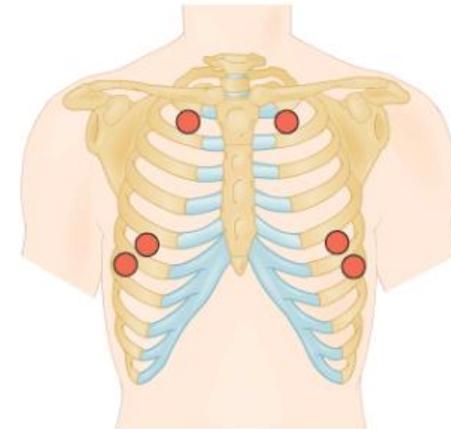


(From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)



Auscultation

- Listening to lungs
- Abnormal lung sounds
 - Adventitious (added)
 - Wheezes
 - Crackles
 - Rhonchi
 - Pleural Friction Rub



Anterior view



Posterior view

(From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)



Examination Summary

- On inspection:
- On palpation:
- On percussion:
- On auscultation:



This Image was released by the United States Navy with the ID [110516-F-CF975-075](#)

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2.2-2-24



URI

- Description
- Subjective
- Objective
- Treatment Plan
- Patient Education



STAT!Ref: Davis's Drug Guide for Nurses 15th ed., <https://online.statref.com/>

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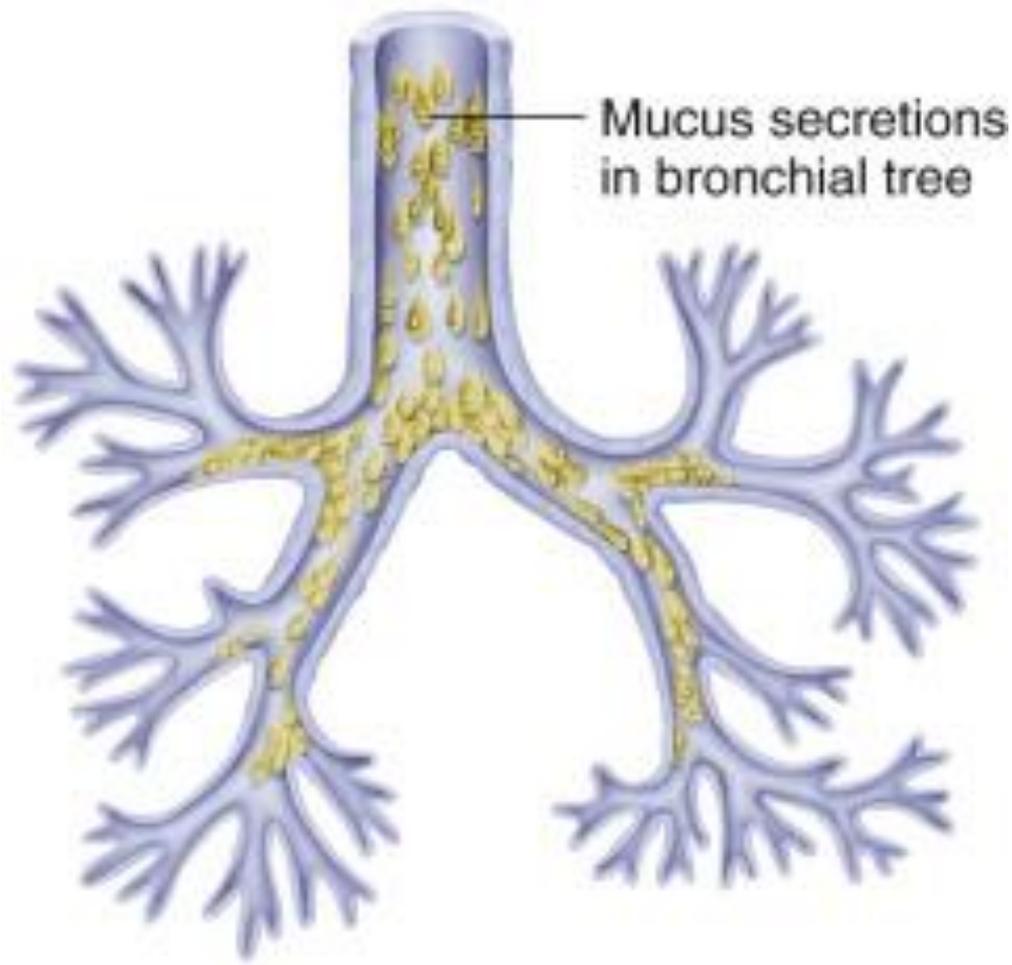
Relevant, Responsive, Requested

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Acute Bronchitis

- Description
- Subjective Data
- Objective Data
- Treatment Plan

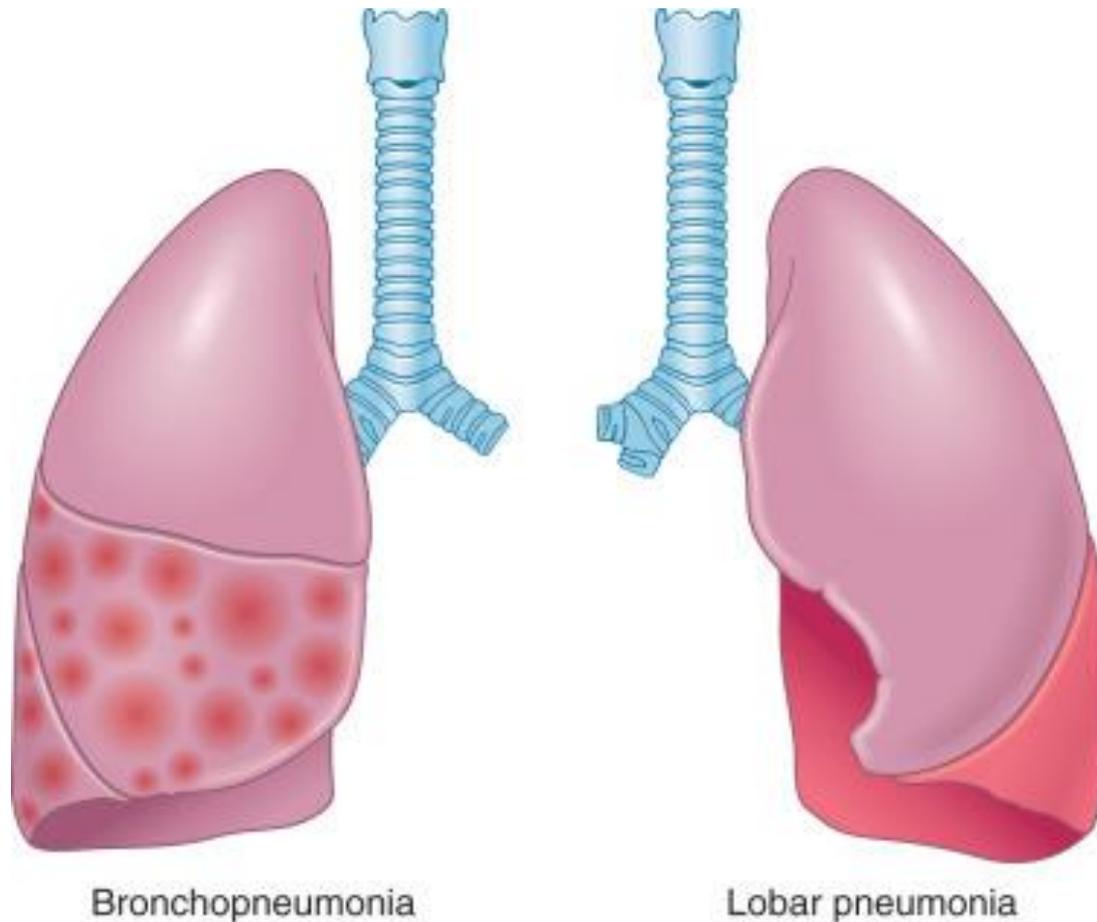


(From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)



Community-Acquired Pneumonia

- Description
- Subjective Data
- Objective Data
- Treatment Plan



(From Seidel's Guide to Physical Examination 9th Ed., www.clinicalkey.com)

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2.2-2-27



Influenza

- Description
- Pathophysiology
- Subjective Data
- Objective Data
- Treatment Plan



Asthma

- Description
- Subjective Data
- Objective Data
- Referral Criteria
- Treatment Plan



Summary and Review

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Questions



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2.2-2-32



Application

- Job Sheet SCSC 2.2-3, Respiratory Lab
- SCSC Performance Test 3