



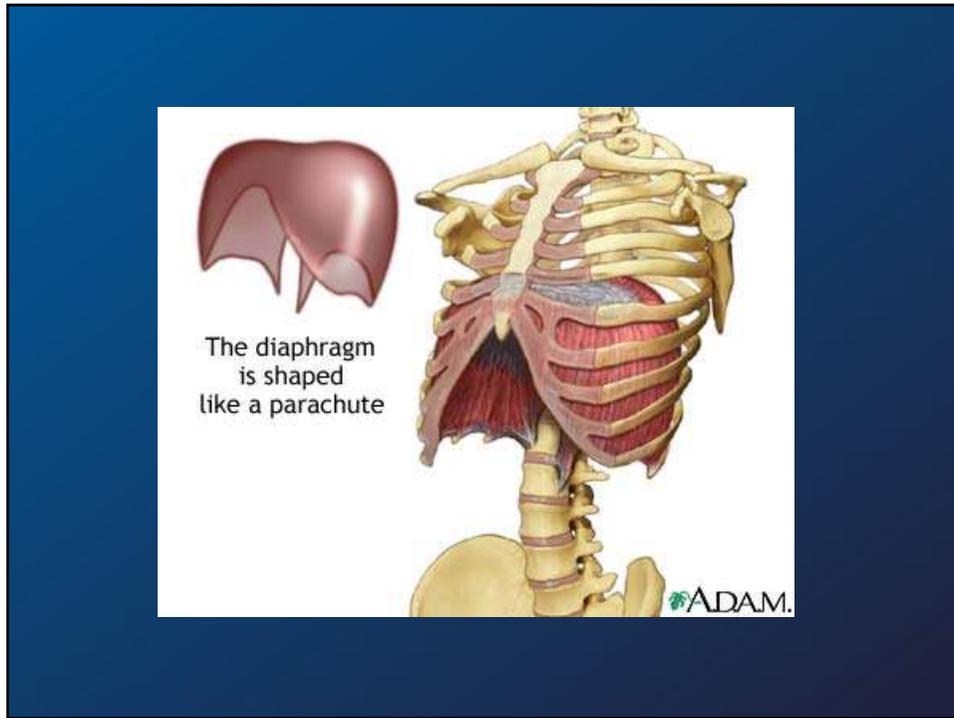
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Consists of:

1. Bony thorax
 - Protective framework
2. Respiratory system
 - Lungs and airways
3. Mediastinum
 - Space between the lungs

This diagram illustrates the thoracic cavity, showing the lungs in red, the airways in blue, and the mediastinum in white. The bony thorax is outlined in black.

2



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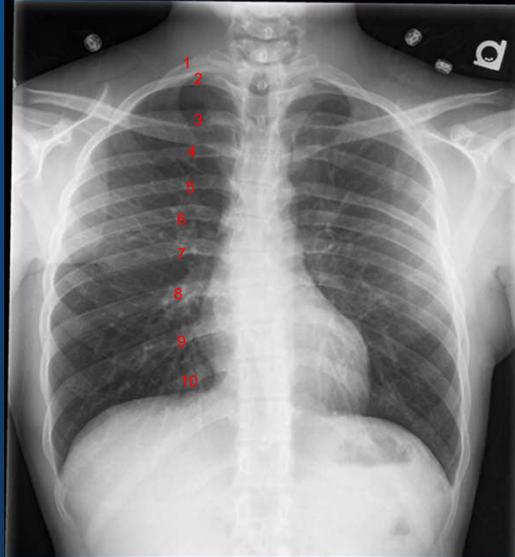
1. Bony Thorax

- Sternum (breastbone)
 - Manubrium
 - Body
 - Xiphoid
- Clavicles (collar bones)
 - Sternal end
- Scapulae (shoulder blades)
- 12 pairs of ribs
- 12 thoracic vertebrae
 - Intervertebral foramina

The image contains two photographs of the bony thorax. The top photograph shows a complete view of the thoracic cage, including the sternum, ribs, and clavicles. The bottom photograph shows a similar view but with the scapulae (shoulder blades) and clavicles removed, highlighting the rib cage and the thoracic vertebrae.

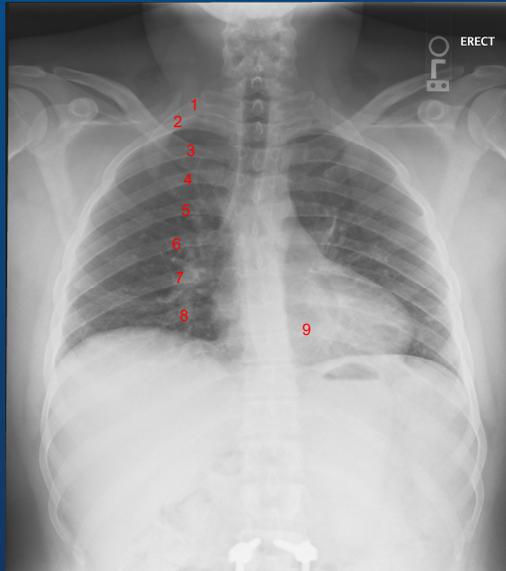
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Counting Ribs:



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Counting Ribs---Thoughts?



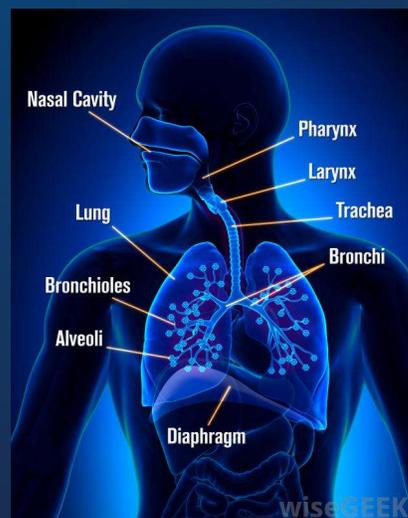
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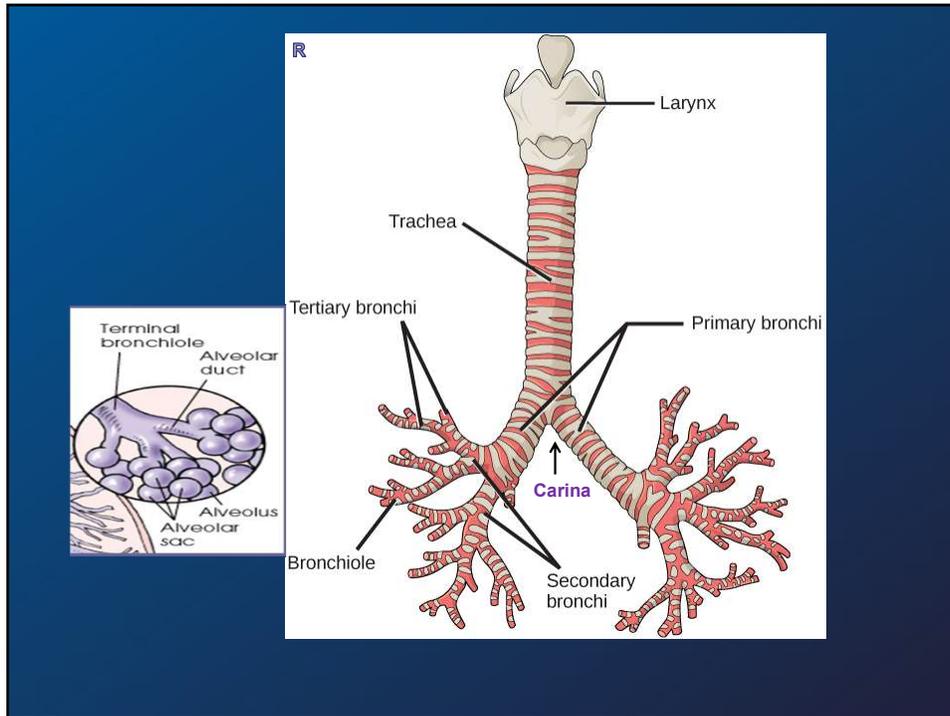
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2. Respiratory System

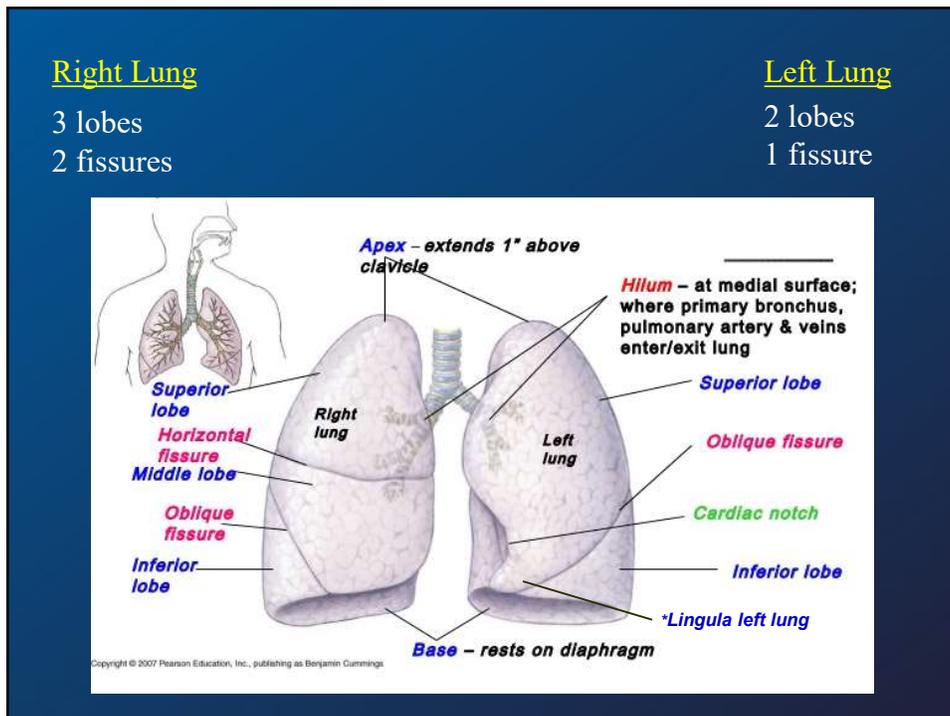
- **Purpose:** Exchange of gaseous substances between the air and blood
- **Four Divisions:**
 - Pharynx
 - Trachea
 - Bronchi
 - Lungs



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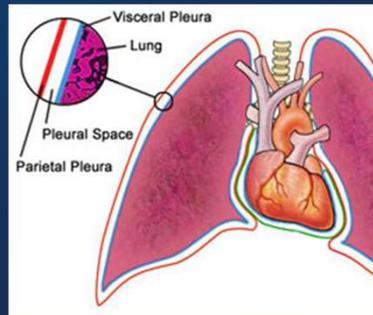
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Pleural Membranes

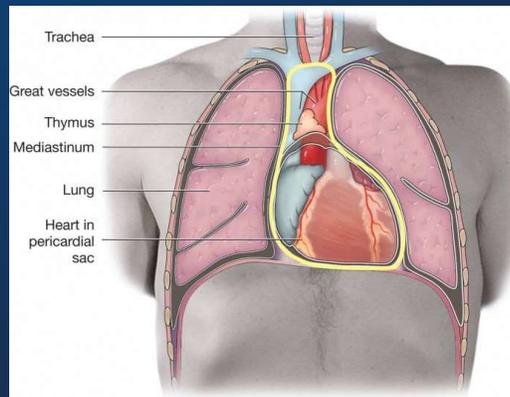
- Visceral Pleura – Attached to the surface of the lungs
- Parietal Pleura – Lines the thoracic cavity
- Pleural Cavity – Space between the two membranes filled with lubricating fluid



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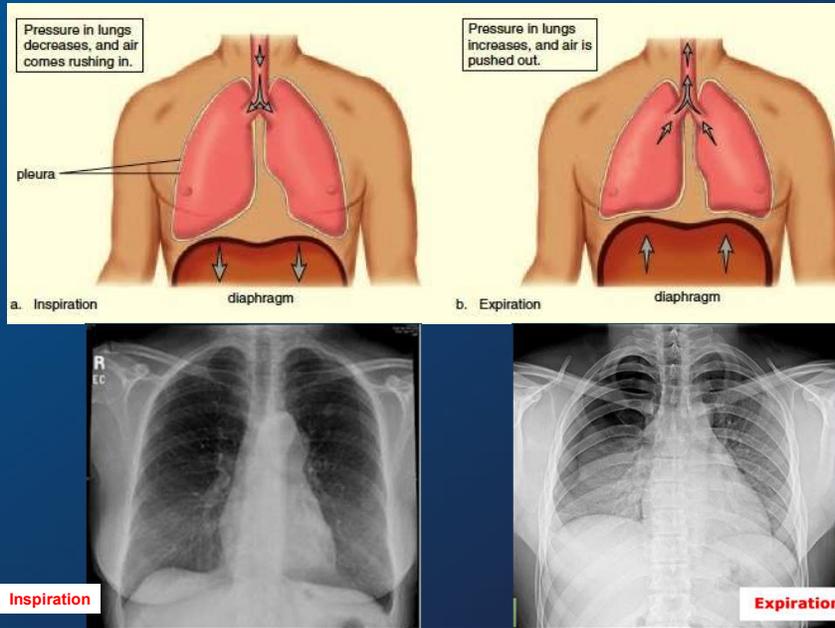
3. Mediastinum

- Medial portion of the thoracic cavity between lungs
- Structures within:
 - Heart and Great Vessels
 - Trachea
 - Esophagus
 - Thymus Gland
 - Lymphatics, Nerves

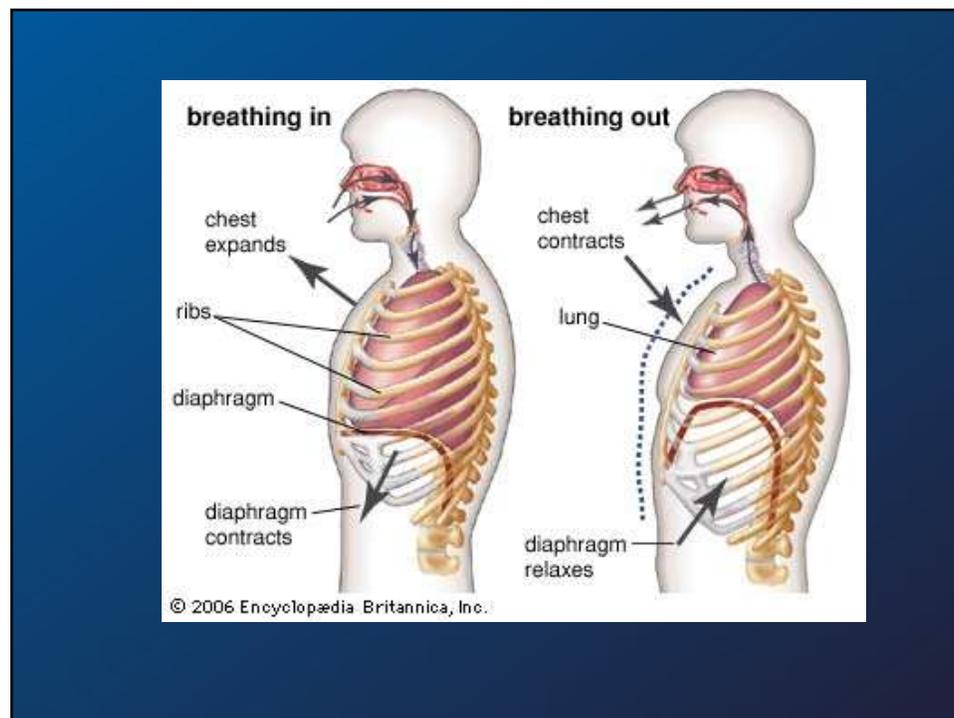


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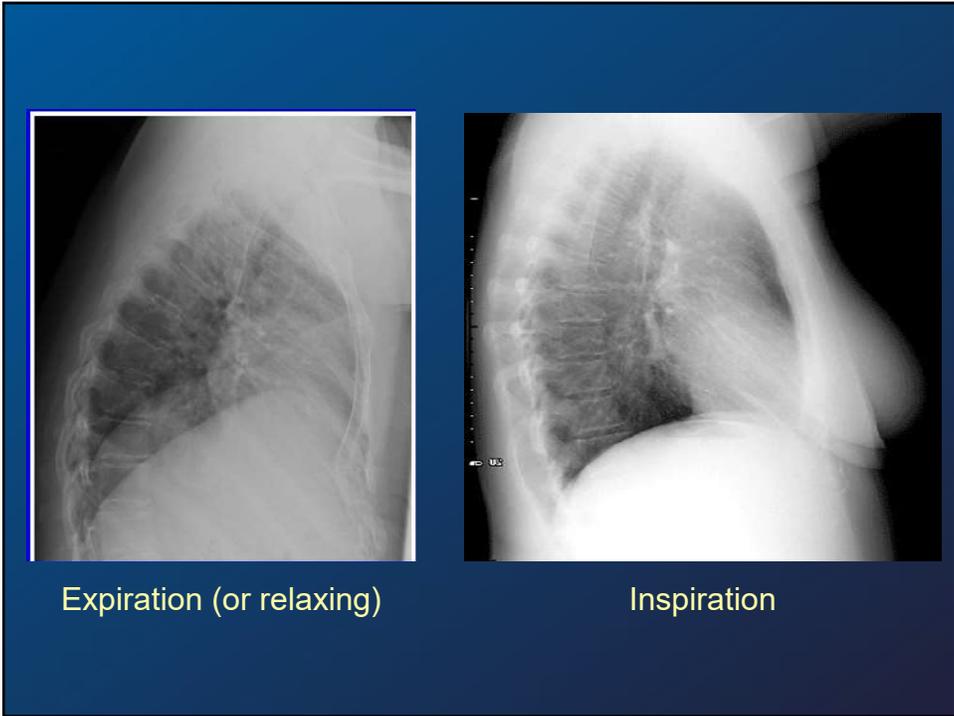
Lung Movement



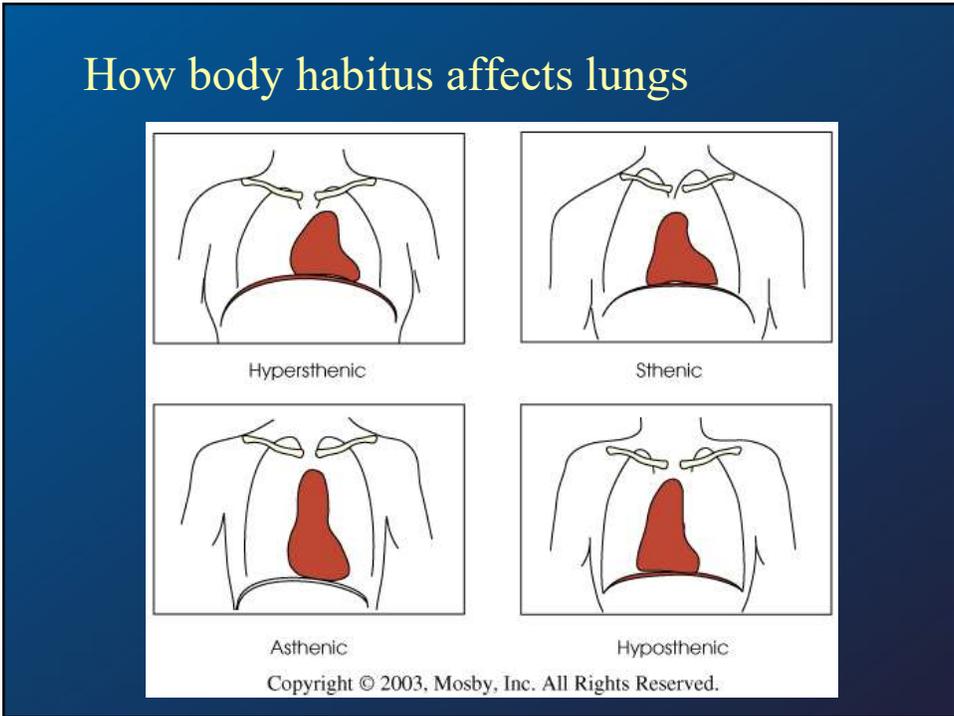
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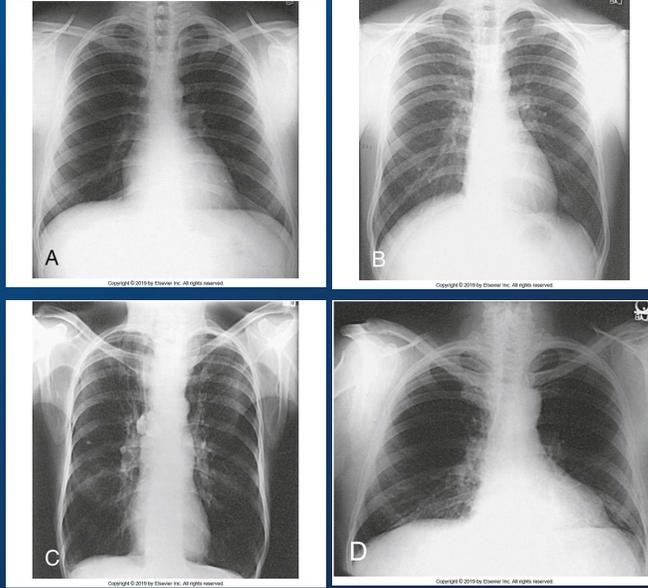


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Body Habitus



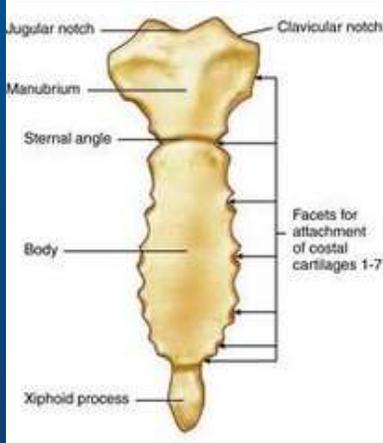
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Positioning Landmarks for Chest Radiography:



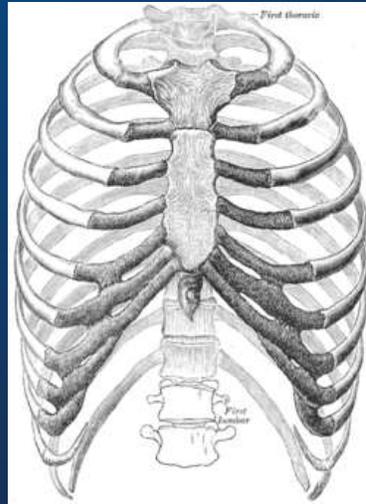
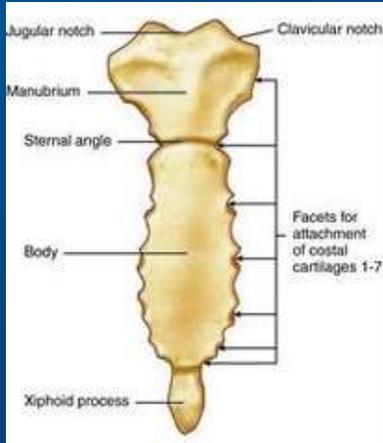
"Vertebral Prominens"
C -7 Spinous Process

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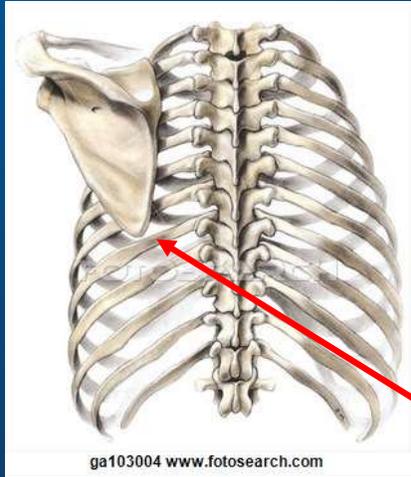
Manubrial (Jugular) Notch = T2, T3

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Xiphoid Process = T 9
Xiphoid Tip = T 10

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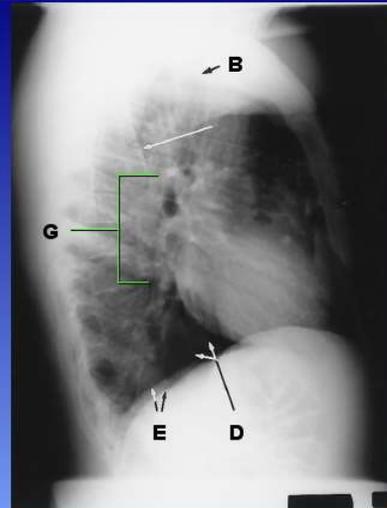
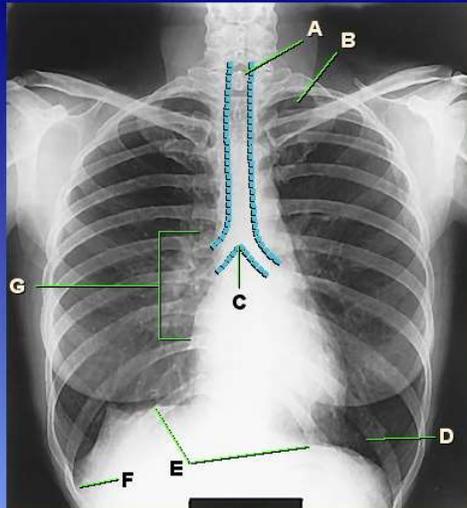


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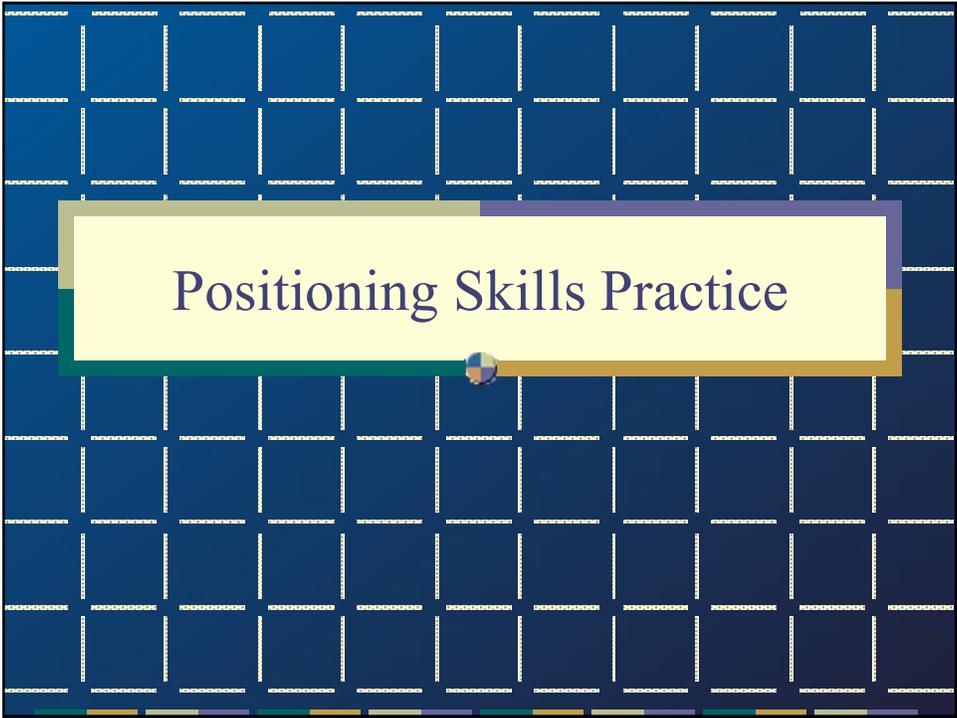
Inferior angle of the scapulae = T 7

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Clinical Seminar Course Flow

Radiographic Procedures: Mon, Wed, Fri for Clin Sem I
Mon, Tues, Thursday for Seminars II – IV

WHAT	WHERE	WHAT TO BRING
Demonstration of procedure(s)	Voice-over ppt. on Edvance	Positioning Notes for reference or additional note taking
Anatomy Lecture specific to anatomical section	Classroom/Virtual	Anatomy PPT given
Image Critique and Pathology Lecture	Classroom/Virtual	Image Critique PPT given
Positioning Skills Practice	MI Skills Lab	Positioning notes for reference – however should not be used while positioning! *Remember mask, eye protection, badges and for future semesters lead markers as well!
Exam	Computer Lab	Bring your knowledge ☺ And Workbook assignment!!

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Positioning Skills Practice



- **For this semester, will complete Positioning Skills Practice on both views of the chest (PA & Lateral)**
 - Includes everything from checking orders to dismissing the patient
- **Come to the lab prepared!**
 - Complete reading assignment
 - Watch Demonstration power point on Edvance
 - Review positioning notes
- **Observation by faculty will occur – positive and constructive feedback will be give based on performance.**
 - Feedback is recorded and will be used for assessing the student's overall performance on evaluations and Progress Reports.

**Positioning Skills practices will be part of all Clin Sem courses*

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Expectations of Positioning Skills Practice

Expectations	Acceptable Performance	Performance Needs Improvement
<p>Students will be prepared to properly demonstrate the following skills for the procedures being performed:</p> <ul style="list-style-type: none"> • patient positioning • tube angles • SID • collimation • lead marker placement • shielding • breathing instructions • align tube and IR 	<p>Correct positioning of patient for view(s) being performed.</p> <p>Appropriate manipulation of room equipment including SID, tube angles and collimation</p> <p>Accurate lead marker placement</p> <p>Adequate shielding of the gonadal region</p> <p>Effective breathing instructions</p>	<p>Gross mal-positioning of patient for view(s) being performed</p> <p>Inability to properly manipulate equipment or unsafe use of room equipment to obtain proper SID, tube angle, and/or collimation.</p> <p>Grossly incorrect tube angle, SID, and/or collimation used</p> <p>Placement of incorrect marker or marker placement on the wrong anatomical side</p> <p>Excessive hesitation or the need for repeated intervention from the proctoring CI</p>

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Positioning Skills Practice

(Name)	Verify orders	ID pt	Change pt	Intro self & CI	LMP/preg	Shield	Set technique	Proper SID	Correct breathing	Positioning	Marker	Collimation	Protocol	Image analysis	Document	Other views
CKR																
Fingers & thumb																
Hand & Wrist																
Forearm & Elbow																
Forefoot, foot, heel																
Ankle, tib/fib																
Abdomen																
Adv. CXR																
FINAL PSP																