

# Visual Examination

- Consider the impact of chest shape on the respiratory condition of the patient
  - [Barrel chest](#)
  - Kyphosis
  - [Scoliosis](#)
  - [Pectus excavatum \(funnel chest\)](#)
  - [Pectus carinatum](#)



# Visual Assessment of Thorax

- Thoracic scars from previous surgery
- Chest symmetry
- Use of accessory muscles
- Bruising
- In drawing of ribs
- Flail segment [www.nejm.org/doi/full/10.1056/NEJMicm0904437](http://www.nejm.org/doi/full/10.1056/NEJMicm0904437)
- Paradoxical breathing /seesaw breathing
- Pursed lip breathing
- Nasal flaring

# Palpation

- For vibration of secretion
- Surgical emphysema
- Symmetry of chest movement
- Tactile vocal fremitus
- Check for a tracheal tug
- Palpate Nodes

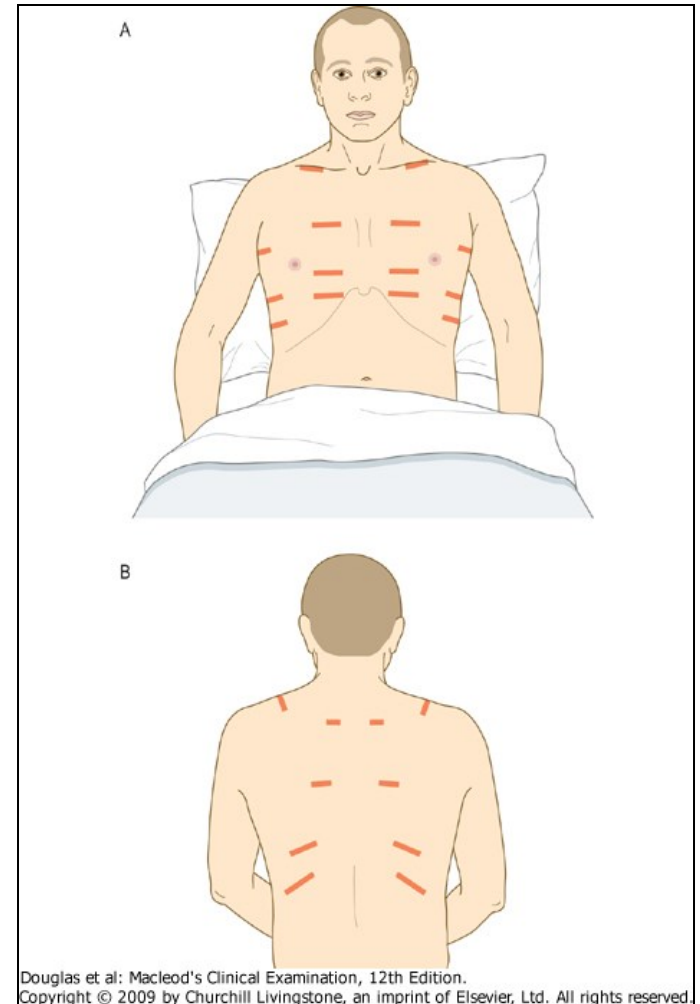


<http://www.ncbi.nlm.nih.gov/books/NBK368/>

<https://m.youtube.com/watch?v=uzgdaJCf0Mk>

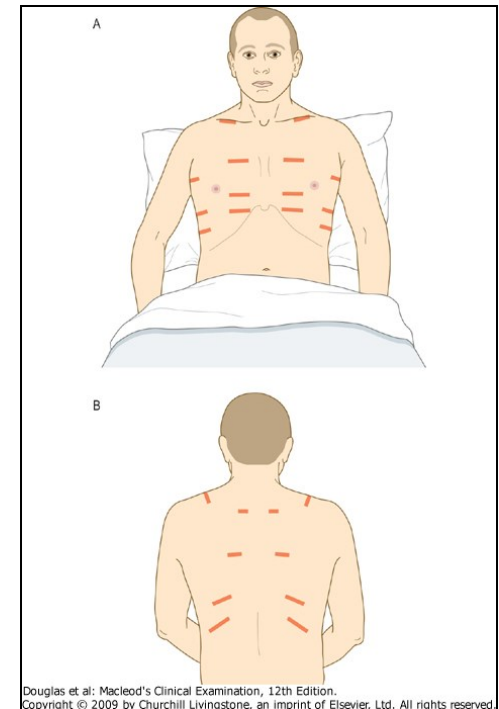
# Auscultation

- Is there any air entry?
- Differentiate
  - Normal vesicular sounds
  - Bronchial breathing
  - Wheeze
  - Distinguish crackles
    - Fine
    - Coarse
    - During inspiration or expiration
    - Profuse or scanty
  - Absent sounds
  - Vocal resonance



# Percussion

- Tapping of the middle phalanx of the left middle finger with the right middle finger
- Sounds should be resonant but may be
  - Hyper resonant
  - Dull
  - Stony Dull



<b>Pathological Process</b>	<b>Expansion</b>	<b>Mediastinal Displacement</b>	<b>Percussion Note</b>	<b>Breath Sounds</b>	<b>Further Examination</b>
<b>Consolidation</b>	Reduced on affected side	None	Dull	Bronchial breathing	↑ Vocal resonance ↑ Whispering pectoriloquy
<b>Collapse</b>	Reduced on affected side	Towards affected side	Dull	Reduced	None
<b>Pleural effusion Empyema</b>	Reduced on affected side	Towards opposite side	Stony dull	Reduced/ Absent	Occasional rub
<b>Asthma</b>	Reduced throughout	None	Resonant	Normal/ Reduced	Wheeze
<b>COPD</b>	Reduced throughout	None	Resonant/ Hyper-resonant	Normal/ Reduced	Wheeze
<b>Pulmonary Fibrosis</b>	Normal or reduced throughout	None	Normal	Normal	Bibasal crepitations
<b>Pneumothorax</b>	Reduced on affected side	Towards opposite side	Hyper-resonant	Reduced/ Absent	None

<http://www.cram.com/flashcards/test/lung-sounds-886428> sign up and test yourself.