



Breath Sounds

COMPLETE

TYPES

Normal

Vesicular

Abnormal

Diminished

Absent

Bronchial

Added / Adventitious

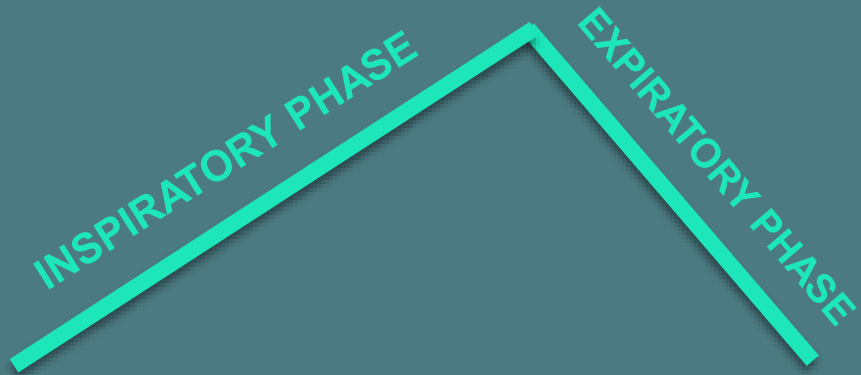
Wheeze

Crackles

Pleural Rub

Stridor

VESICULAR BREATH SOUNDS



- Audible in most of the lungs
- Soft and Low pitched
- Inspiration phase longer than Expiration
- No gap in between the two phases

Abnormal Breath Sounds

- 1. Diminished**
- 2. Absent**
- 3. Bronchial**
- 4. Added or Adventitious**

Abnormal Breath Sounds

1. Diminished



2. Absent

3. Bronchial

4. Added or Adventitious

- i. Emphysema
- ii. Pneumonia
- iii. Bullae
- iv. Thick chest wall
- v. Shallow breathing

Abnormal Breath Sounds

1. Diminished

2. Absent



3. Bronchial

4. Added or Adventitious

- i. Pleural effusion
- ii. Pneumothorax
- iii. Lung Collapse
- iv. Lung cavity

Abnormal Breath Sounds

1. Diminished
2. Absent
3. Bronchial
4. Added or Adventitious

Bronchial Breath Sounds

INSPIRATORY PHASE

EXPIRATORY PHASE

- Abnormal, if heard distant from main airways
- Loud and Tubular
- High pitched
- Inspiratory and expiratory phases
 - Equal in length
- Gap between both phases

Bronchial Breath Sounds

INSPIRATORY PHASE

EXPIRATORY PHASE

- Consolidation
- Lobar Collapse with patent bronchus
- Lung Cavity
- Over surface of large effusion

Added / Adventitious Sounds

- 1. Wheezes**
- 2. Crackles / Crepitations**
- 3. Pleural rub**
- 4. Stridor**

Added / Adventitious Sounds

Wheezes



- Continuous sounds with musical quality
- During expiration
- Indicates narrowing of airways
 - Bronchospasm
 - Secretions in small airways

Added / Adventitious Sounds

Wheezes



Low Pitched
High Pitched

Added / Adventitious Sounds

Low pitched wheeze

- ***Sonorous*** wheeze -
have snoring like quality
- ***Rhonchi***
- Heard when smaller airways
become narrow due to secretions
like in COPD patients

High Pitched wheeze

- ***Sibilant*** wheeze
- Small airway narrowing due
to bronchospasm
 - Polyphonic
 - Monophonic

Added / Adventitious Sounds

**Crackles or
Crepitations**



- Non-musical quality, interrupted sounds
- During Inspiration
- Abrupt opening of collapsed smaller airways and alveoli
- Mimics sound of ripping open Velcro

Added / Adventitious Sounds

**Crackles or
Crepitations**



- Early inspiratory
- Mid inspiratory
- Late inspiratory
- Biphasic

Added / Adventitious Sounds

Crackles or Crepitations

Fine Crepitations

- Bronchiolitis
- Pulmonary edema
- Pulmonary fibrosis

Coarse Crepitations

- COPD
- Resolving pneumonia
- Lung abscess
- Tuberculous lung cavities
- Bronchiectasis

Added / Adventitious Sounds

Pleural Rub



- Not the lung sound
- Generated from lung pathology
- Inflammation of pleural surfaces
- Roughened visceral & parietal pleurae slides over each

Added / Adventitious Sounds

Pleural Rub



- Low pitched
- Grating Sound
- Inspiratory hold maneuver to differentiate between pleural & pericardial rub
 - Pericardial rub will continue

Added / Adventitious Sounds

Stridor



- High pitched
- Monophonic, coarse sound
- Turbulent airflow through a partially obstructed airway
- Supraglottis, Subglottis, or Trachea

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