

Dyspnea or Breathlessness

- ~~The~~ Feeling of an uncomfortable need to breathe, which may be present in health (exercise) or as well as disease.

Pathophysiology

- 1) Bronchial. }
Intertitial. } → Stimulate vagal nerve.
Pleural }
- 2) Increased mechanical load to the respiratory muscle → Spinal afferents.
- 3) Hypoxia, Hypercapnia, Acidosis → Chemoreceptors in Carotid Body.
- 4) Cortical drive
- 5) Limbic system (Emotion)

All these in turn stimulate the Medulla oblongata (Respiratory centre)

Causes:

System 1) CVS

Acute → Acute Pulmonary oedema.

Chronic → Chronic Heart failure.
occasional Myocardial infarction.
dyspnea

2) Respiratory

Acute =

Upper → laryngeal oedema (Anaphylaxis)

Inhaled foreign body.

Lower \Rightarrow ① Acute severe Asthma

② Acute exacerbation of COPD.

③ Acute respiratory Distress Syndrome

④ Pneumonia.

⑤ Lobar collapse

⑥ Pulmonary embolism

⑦ Pneumothorax

Chronic exertional:

① COPD

② Bronchial asthma

③ Lung Cancer

④ Interstitial lung Disease (Sarcoidosis, Pneumoconiosis)

⑤ Chronic Pulmonary Thromboembolism.

⑥ Large Pulmonary Effusion

⑦ Lymphangitis Carcinomatosa.

3) Others:

Acute: Metabolic acidosis (Diabetic ketoacidosis, Lactic acidosis, Uremia).

- Psychogenic (Panic or Anxiety).

Chronic \Rightarrow Anemia, Obesity,

Questions to be asked

① How does your breathing at rest and overnight?

② Do your breathing normal some days?

③ How long you can walk?

④ How does it starts?

⑤ What triggers your breathlessness?

⑥ History (childhood) - ⑦ Associated complaints?

Breathless Scale.

Grade 1: Not only strenuous exercise.

Grade 2: when hurrying or walking uphill,

Grade 3: walk slower than others, stops after 15 min.

Grade 4: stops after 100 yards.

Grade 5: Too breathless to leave house or even undressing.

Investigation?

- ① ...
- ② ...
- ③ ...
- ④ ...
- ⑤ ...
- ⑥ ...
- ⑦ ...
- ⑧ ...
- ⑨ ...
- ⑩ ...
- ⑪ ...
- ⑫ ...
- ⑬ ...
- ⑭ ...
- ⑮ ...
- ⑯ ...
- ⑰ ...
- ⑱ ...
- ⑲ ...
- ⑳ ...
- ㉑ ...
- ㉒ ...
- ㉓ ...
- ㉔ ...
- ㉕ ...
- ㉖ ...
- ㉗ ...
- ㉘ ...
- ㉙ ...
- ㉚ ...
- ㉛ ...
- ㉜ ...
- ㉝ ...
- ㉞ ...
- ㉟ ...
- ㊱ ...
- ㊲ ...
- ㊳ ...
- ㊴ ...
- ㊵ ...
- ㊶ ...
- ㊷ ...
- ㊸ ...
- ㊹ ...
- ㊺ ...
- ㊻ ...
- ㊼ ...
- ㊽ ...
- ㊾ ...
- ㊿ ...