

SNS COLLEGE OF PHYSIOTHERAPY

Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Coimbatore– 641035

COURSE NAME :CLINICAL CARDIOLOGY

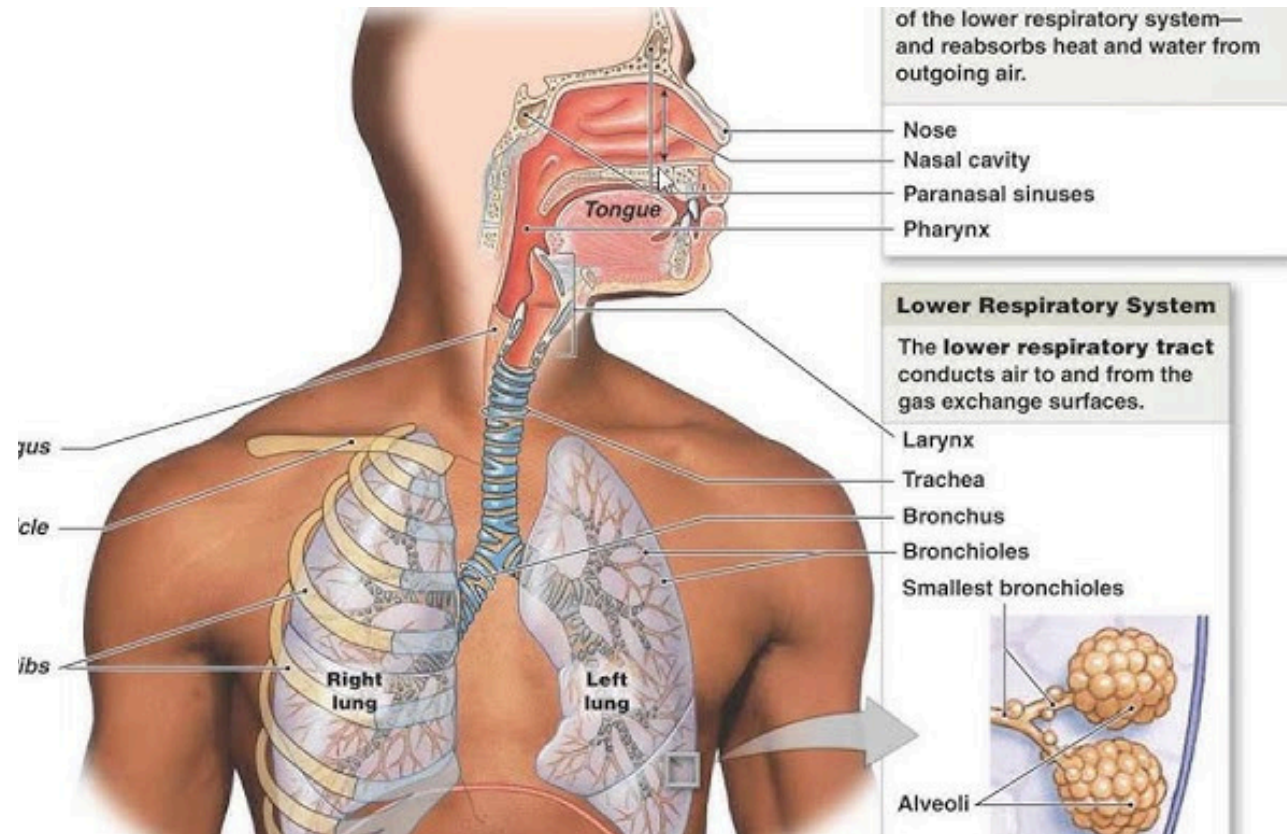
SUBJECT CODE :6286

TOPIC :LOWER RESPIRATORY TRACT

INTRODUCTION TO THE LOWER RESPIRATORY TRACT

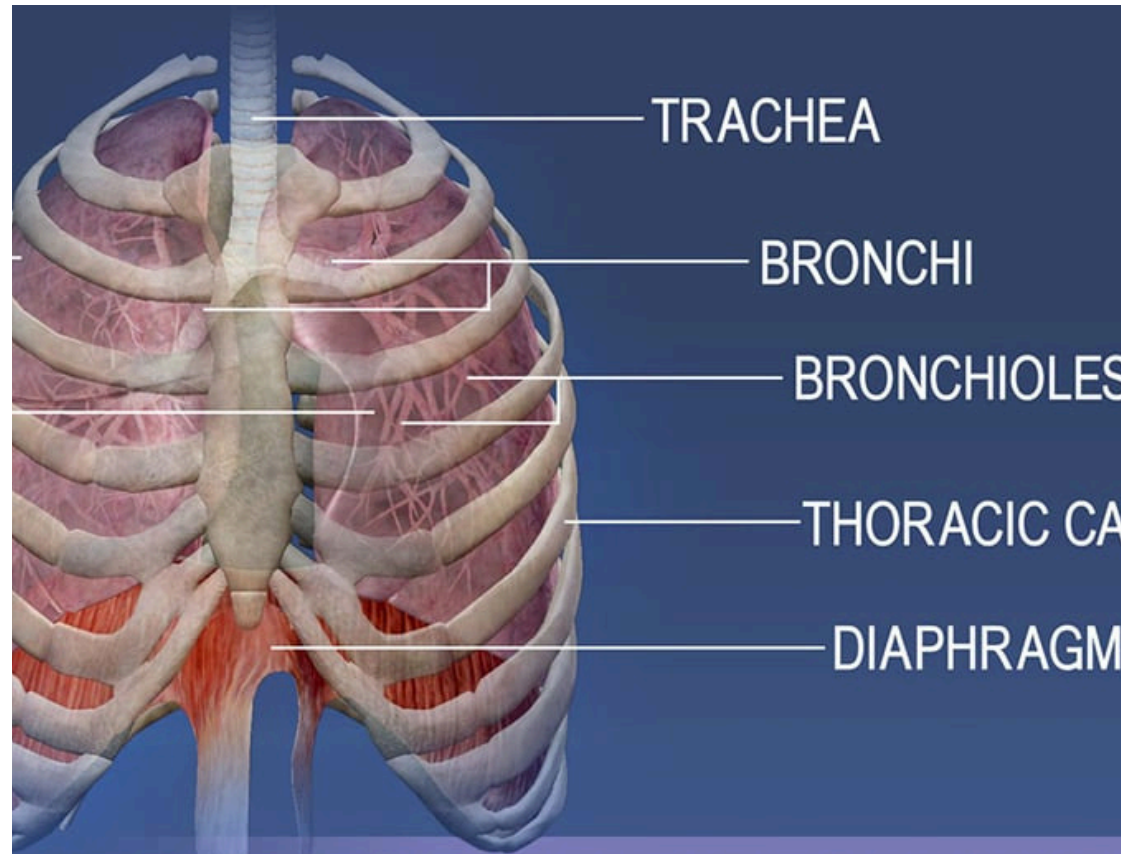
Definition

- The lower respiratory tract includes the air passages below the larynx that conduct air to the lungs and are responsible for gas exchange



COMPONENTS

- Trachea
- Bronchi
- Bronchioles
- AlveoliLungs

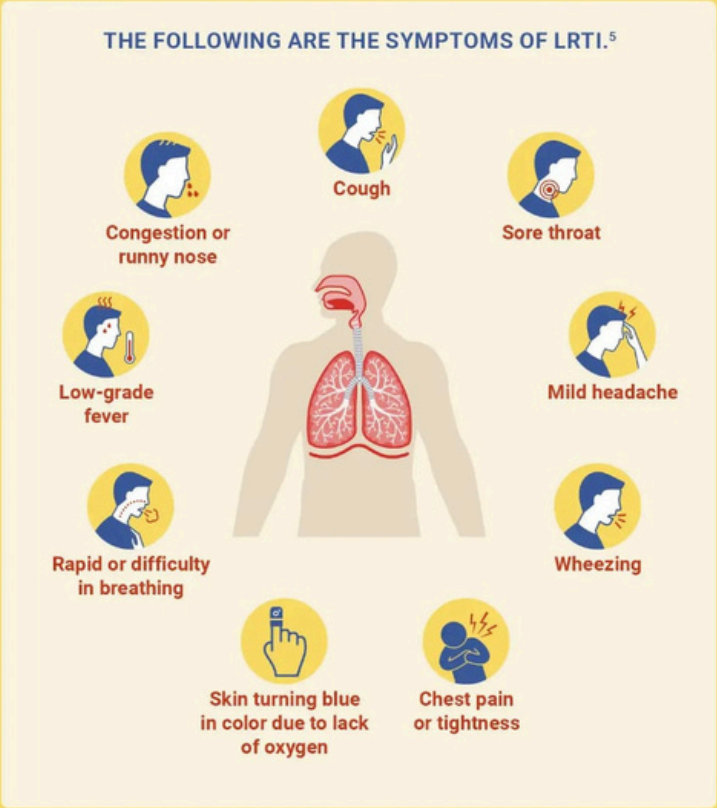


SYMPTOMS

**DECODING SYMPTOMS FOR
LOW RESPIRATORY TRACT INFECTION**

**63% MALE AND 37% FEMALE CHILDREN WERE FOUND
TO SUFFER FROM LRTI IN INDIA.⁴**

THE FOLLOWING ARE THE SYMPTOMS OF LRTI.⁵

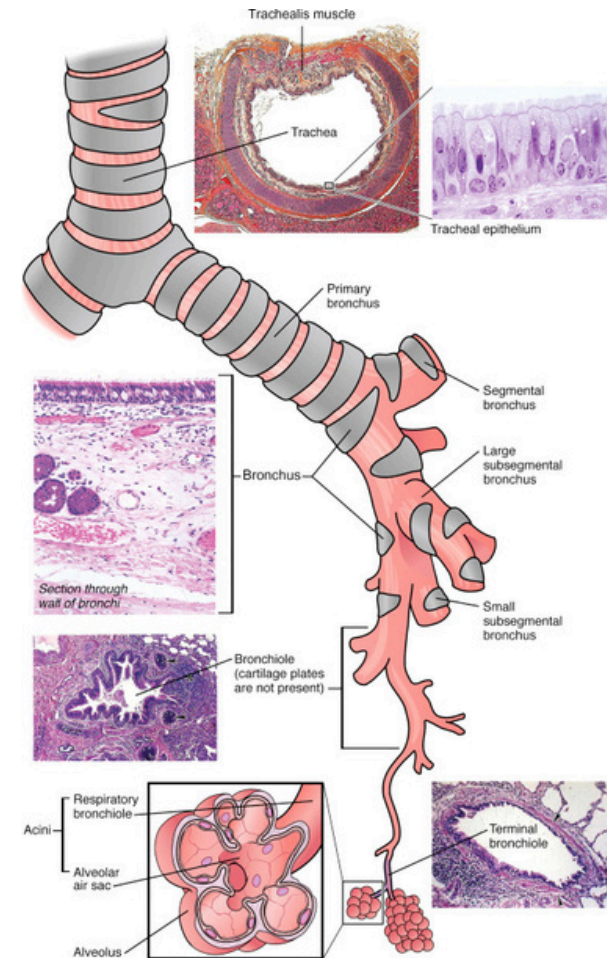


The infographic features a central illustration of a human torso with the respiratory system highlighted in red. Surrounding this central image are ten circular icons, each representing a different symptom. The symptoms are arranged in a circular pattern around the torso. At the bottom of the infographic, there is a text box with a warning to contact a doctor immediately if any of these symptoms are noticed.

Contact your doctor immediately if you notice above symptoms!

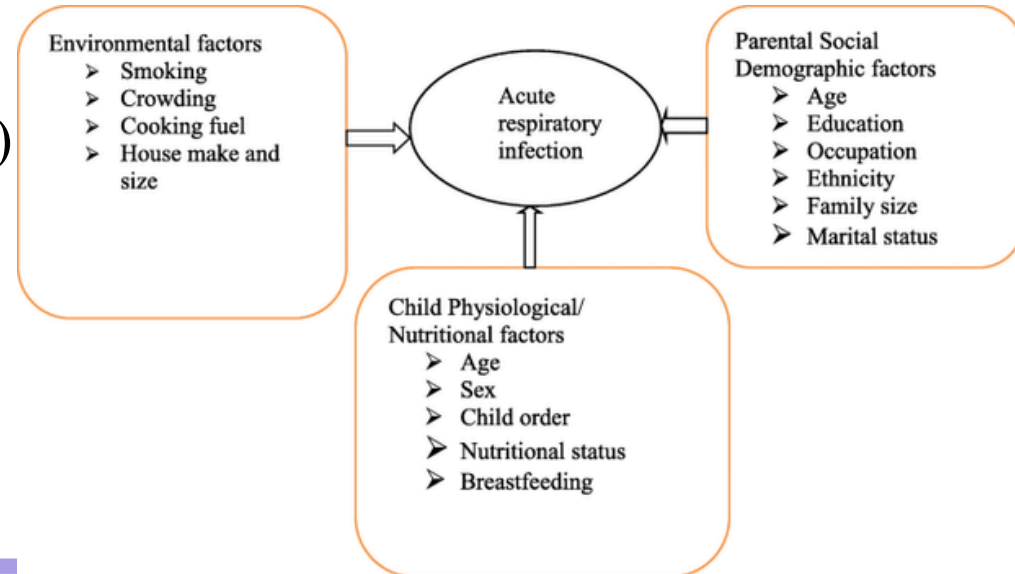
FUNCTIONS

- Conduction of air
- Gas exchange (oxygen and carbon dioxide)
- Protection by cough reflex
- Regulation of acid–base balance



RISK FACTORS

- Smoking and tobacco use
- Air pollution
- Occupational dust and chemical exposure
- Recurrent respiratory infections
- Chronic lung diseases (COPD, asthma)
- Weak immunity (HIV, diabetes, steroids)
- Old age and childhood
- Poor nutrition
- Overcrowding and poor ventilation



MANAGEMENT

Medications

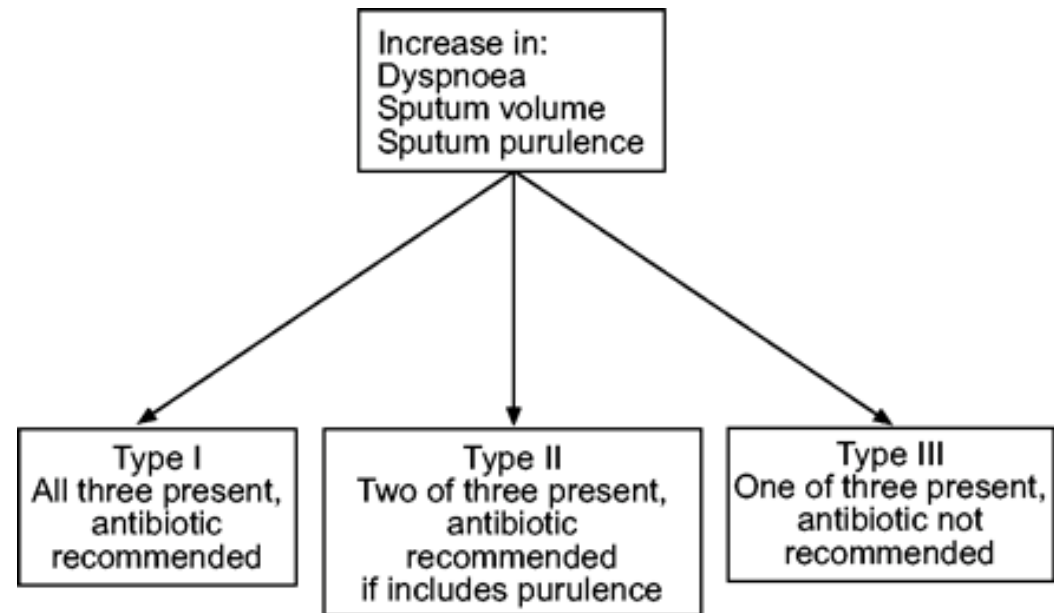
- Antibiotics (for bacterial infection)
- Bronchodilators
- Corticosteroids
- Oxygen therapy (if hypoxia present)

Chest physiotherapy:

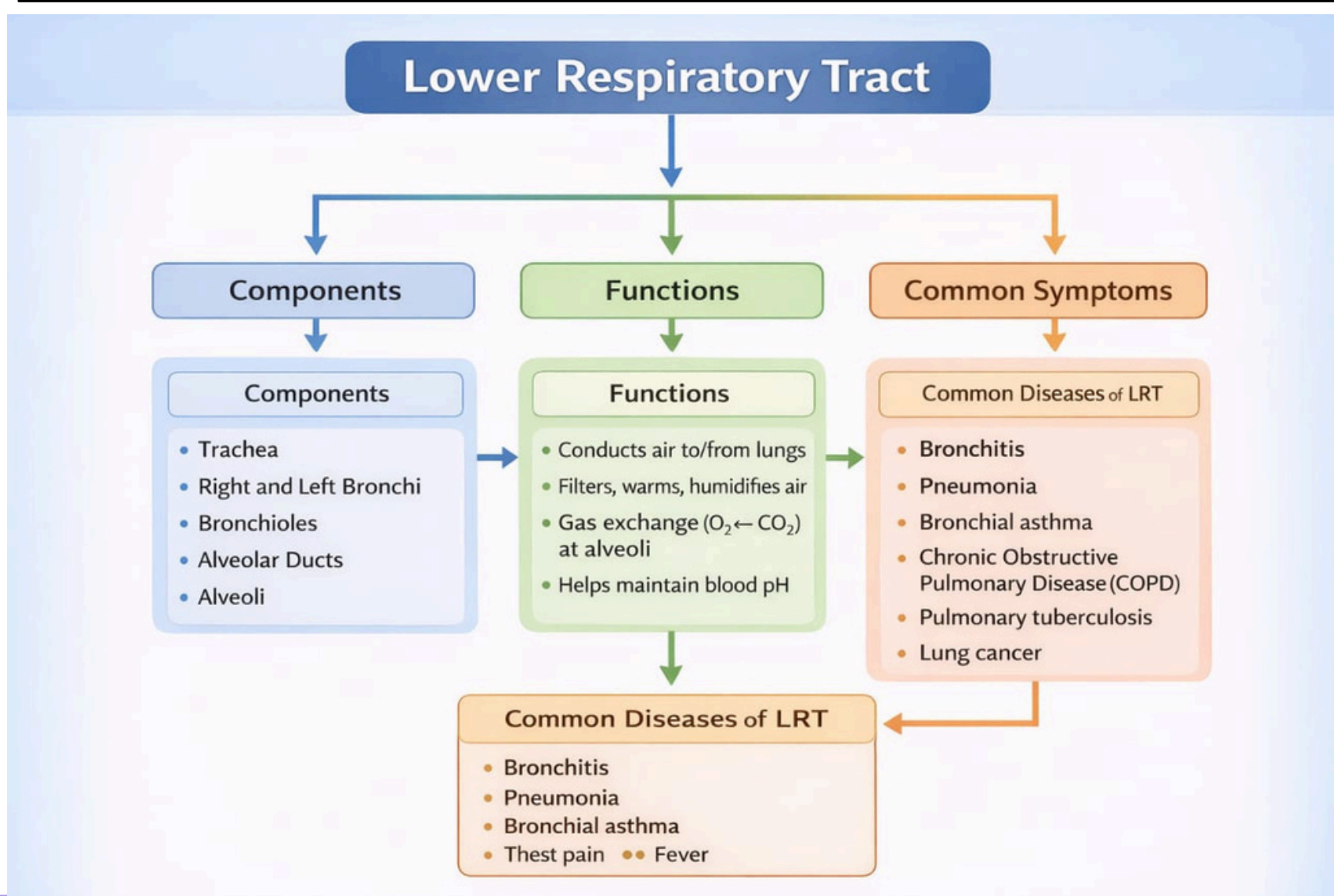
- Breathing exercises
- Postural drainage
- Percussion and vibration

Vaccination:

- Influenza,
- pneumococcal
- Supportive care:
- Adequate fluids, nutrition, rest



FLOW CHART



IN CLASS ASSESSMENT

1. Define the lower respiratory tract
2. Name any two components of the lower respiratory tract
3. What is the primary function of alveoli?
4. Name the tube that connects the larynx to the bronchi
5. Which part of the lower respiratory tract is mainly involved in gas exchange?

IN CLASS ASSESSMENT

1. List the components of the lower respiratory tract.
2. Mention any two functions of the lower respiratory tract.
3. Name any two common diseases affecting the lower respiratory tract.
4. Write two symptoms of lower respiratory tract infection.
5. Differentiate between bronchi and bronchioles (any two points).

THANK YOU