

Histology Lap – Respiratory System (Sections)

1. Section in the nose:

- Lining epithelium
- Submucosa & blood vessels
- Cartilage

2. Section in the larynx:

- Ventricle
- False vocal folds
- Gland
- True vocal folds
- Epithelium

3. Section in the trachea:

- Layers epithelium
- Cartilage
- Glands

4. Section in the primary bronchi (extrapulmonary):

- Lining epithelium
- Plates of cartilage

5. Section in the secondary bronchi (lobar bronchi – intrapulmonary):

- Lining epithelium
- Plates of cartilage
- Lung tissue
- Glands
- Smooth muscle

6. Section in tertiary bronchi (broncho-pulmonary segment – intrapulmonary):

- Lining epithelium
- Cartilage decreases (1–2 plates)
- Glands
- Smooth muscle

7. Large conducting bronchioles:

- Diameter decreases
- No cartilage
- Lining epithelium changes
- Glands
- Smooth muscle

8. Small bronchioles / terminal bronchioles:

- No cartilage
- Simple epithelium (ciliated + Clara cells)
- No glands
- Increased smooth muscle

9. Respiratory bronchioles:

- Change in epithelium → simple squamous
- Open on alveolar duct

10. Section in lung tissue:

- Alveolar duct
- Alveolar sac
- Alveoli
- Smooth muscle

11. Section in lung tissue:

- Septum & alveolar wall
- Types of cells:
 - Alveolar type I cells
 - Alveolar type II cells
 - Endothelial cells
- Respiratory membrane (with RBCs)

12. Section in lung tissue – Pleura:

- Lining epithelium
- Dust cells (alveolar macrophages)