Laboratory Exercise 5: Respiratory anatomy list

1. Identify the following structures in models or diagrams, and be familiar with their functions

Nasal cavities • Nasal septum • Nasal concha • Paranasal sinuses • Hard palate • Soft palate	Pharynx • Nasopharynx • Oropharynx • Laryngopharymx
Larynx • Thyroid cartilage • Cricoid cartilage • Epiglottis • Vestibular folds – false vocal cords • Vocal folds – true vocal cords • glottis	Lower respiratory system structures • Trachea • Primary bronchi • Secondary bronchi • Tertiary bronchi….. • Terminal bronchioles • Respiratory bronchioles • Alveolar ducts • Alveoli
Respiratory membrane structures • Type I epithelium • Basement membrane • Capillary endothelium	Lungs and pleural coverings • Parietal pleura • Visceral pleura • Pleural cavity • Pleural fluid

2. Be able to characterize the type of epithelium that lines the respiratory tract in the following structures:

- Nasal cavities – pseudostratified columnar epithelium
- Nasopharynx – pseudostratified columnar epithelium
- Oropharynx – changes from pseudostratified columnar epithelium to stratified squamous (protection during swallowing)
- Laryngopharynx – stratified squamous epithelium
- Larynx – top part is pseudostratified columnar epithelium, lower part pseudostratified columnar epithelium
- Trachea and larger bronchi -- pseudostratified columnar epithelium
- As bronchi get smaller and progress to bronchioles, epithelium goes from pseudostratified columnar epithelium to columnar to cuboidal (in terminal bronchioles

3. Examine prepared slides of respiratory tract and lung tissue