

LOCATIONS OF DIFFERENT EPITHELIAL CELLS

1. SIMPLE SQUAMOUS EPITHELIUM

- Endothelium covering internal surface of heart, blood vessels and lymph vessels
- Mesothelium lining pericardial, pleural and peritoneal cavities
- Type I alveolar cells

2. SIMPLE CUBOIDAL EPITHELIUM

- Epithelium lining follicles of thyroid gland
- Epithelium lining distal convoluted tubules of kidneys

3. SIMPLE COLUMNAR EPITHELIUM

- Internal surface of stomach, intestines, gallbladder and uterus

4. STRATIFIED SQUAMOUS KERATINIZED EPITHELIUM

- Epidermis

5. STRATIFIED SQUAMOUS NON-KERATINIZED EPITHELIUM

- Lining epithelia of most of the oral cavity, oropharynx, esophagus

6. STRATIFIED CUBOIDAL EPITHELIUM

- Lining of some exocrine glands like pancreas and salivary glands
- Lining of ducts of sweat glands

7. STRATIFIED COLUMNAR EPITHELIUM

- Lining epithelia of conjunctiva of eye
- Lining of some parts of male urethra

8. TRANSITIONAL EPITHELIUM (UROTHELIUM)

- Lining the lower urinary tract

9. PSEUDOSTRATIFIED COLUMNAR EPITHELIUM

- Lining conducting part of respiratory system i.e. nose, nasopharynx, trachea, bronchi
- Lining of male genital ducts i.e. duct of epididymus and ductus deferens

10. NEUROEPITHELIAL CELLS

- Taste buds
- Vestibulocochlear receptor system of internal ear

11. MYOEPITHELIAL CELLS

- Found around the secretory acini of mammary, salivary, lacrimal and sweat glands

12. MICROVILLI

- Intestinal mucosal surface

- Luminal surface of cells lining the proximal convoluted tubules of kidney

13. KINOCILIA

- On tall cells of pseudostratified columnar epithelium of conducting part of respiratory tract
- On neuroepithelial cells of sensory regions of internal ear

14. STEREOCILIA

- On epithelial cells lining duct of epididymus and vas deferens
- On neuroepithelial cells of internal ear

CONNECTIVE TISSUE EXAMPLES

LOOSE CONNECTIVE TISSUE

- Subcutaneous tissue (superficial and deep fascia)
- Mesentery
- Omentum

DENSE IRREGULAR CONNECTIVE TISSUE

- Deep fascia
- Capsules of organs like thyroid gland, prostate gland, liver, kidney, testes etc.
- Perichondrium of cartilage
- Periosteum of bone

DENSE REGULAR CONNECTIVE TISSUE

- Tendons
- Ligaments
- Aponeurosis

DENSE REGULAR ELASTIC CONNECTIVE TISSUE

- Elastic ligaments such as
 - The true vocal cords
 - Ligament flava of vertebral column
 - Suspensory ligament of penis

RETICULAR CONNECTIVE TISSUE

- Bone marrow
- Spleen
- Lymph nodes

WHITE ADIPOSE TISSUE

- Present in subcutaneous tissue as a layer called panniculus adiposus
- Subcutaneous tissue of abdominal wall, axilla, buttocks and thigh
- Around the kidneys
- Mesentery
- Omenta

BROWN ADIPOSE TISSUE

- Large amount found in newborn
- In adult human, found in

- Posterior triangle of neck
- Mediastinum
- Around abdominal aorta
- Around kidneys

CARTILAGE LOCATIONS

HYALINE CARTILAGE

- Initial skeleton of fetus
- Epiphyseal cartilages (growth plates) of growing bones
- Major laryngeal cartilages i.e. cricoid cartilage, thyroid cartilage, arytenoid cartilage
- Cartilage in wall of trachea and bronchi
- Costal cartilages
- Articular cartilages of bones
- Nasal cartilage

FIBROCARTILAGE

- Intervertebral discs
- Disc of pubic symphysis
- Intra-articular disc of sternoclavicular and temporomandibular joints
- Menisci of knee joint
- Labrum glenoidale (of shoulder joint) and labrum acetabulare (of hip joint)

ELASTIC CARTILAGE

- Auricle of external ear
- Epiglottis of larynx
- Wall of external auditory meatus and auditory tube