



Histology Slides For MBBS 1st Year [With Identification Points]

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In this post, you can view and download all the important Histology slides in the 1st year of MBBS.

It includes both general and systemic slides. Along with the pictures of the histological slides, two indentification points have also been mentioned for your understanding and convenience.

You can bookmark this page for a quicker revisit.

There are dozens of **Histology Textbooks** out there, making it difficult for medical students to decide which ones to purchase. To make it easier for you, I've handpicked **BEST** and **MOST RECOMMENDED** textbooks:



Click here to check out MCI recommended books for MBBS 1st Year.

Cartilage

Hyaline cartilage



- Cell nests of chondrocytes present.
- Territorial and interterritorial matrix present.
- Perichondrium present.

Yellow elastic cartilage



- Large singly arranged chondrocytes in lacunae.
- Perichondrium present.

White fibrocartilage



- Chondrocytes of similar size present between collagen bundles.
- Perichondrium absent.

Compact Bone

Transverse section of bone



- Presence of osteocytes in lacunae.
- Haversian system present with concentric lamellae.

Longitudinal section of bone



Points of identification:

- Osteocytes present.
- Longitudinal section of the haversian system and Volkmann's canal seen.

Muscular Tissue

Skeletal muscle



Points of identification:

- Cylindrical muscle fibers with prominent striations.
- Presence of peripherally arranged flattened multinuclei.

Cardiac muscle



- Branching fibers with striations present.
- Intercalated discs and centrally placed nucleus present.

Nervous Tissue

Peripheral nerve (transverse section)



- Nerve fibres arranged in fasiculi.
- Endoneural, perineual and epineural connective tissues seen.

Optic nerve (transverse section)



Points of identification:

- Presence of 3 layers of meninges.
- Presence of central artery and vein along with nerve fiber bundles.

Ganglia

Spinal ganglion



- Presence of round pseudounipolar neurons in groups.
- Presence of nerve fibers in the form of bundles in between ganglion cells.

Sympathetic ganglion



Points of identification:

- Presence of small and scattered multipolar neurons with eccentric nuclei.
- Presence of satellite cells.

Blood Vessels

Muscular/Medium sized artery



Points of identification:

- Thick tunica media with numerous smooth muscle fibers.
- Presence of internal elastic lamina thrown into folds.

Elastic/Large sized artery



- Presence of three layers tunica intima, tunica media and tunica adventitia.
- Tunica media is more prominent with more elastic fiber and few smooth muscle fibers.

Large vein



- Presence of 3 layers tunica intima, tunica media and tunica adventitia.
- Tunica adventitia is more prominent with muscular patches seen.

Salivary Glands

Serous salivary gland



- Presence of serous acini with round basal nuclei and small lumen.
- Presence of lobar and interlobular ducts.

Mucous salivary gland



- Presence of mucous acini with flattened basal nucleus.
- Presence of interlobular and intralobular ducts.

Mixed salivary gland



- Presence of mucous and serous acini with serous demilunes.
- Presence of lobar and interlobar ducts.

Lymphoid Tissue

Lymph node



- Presence of lymphatic nodules in cortex
- Presence of medullary cords and sinuses in the medulla.

Thymus



- Presence of lobules with lymphoid tissue.
- Presence of Hassall's corpuscles in the medulla.





- Presence of thick capsule and trabeculae.
- Red pulp containing splenic cords and sinusoids and white pulp present.

Palatine tonsil



Points of identification:

- Presence of crypts.
- Presence of subepithelial lymphoid nodule.

Integumentary System

Thin skin



Points of identification:

- Presence of dermis and epidermis.
- Presence of dermis with hair follicles and sebaceous glands.

Thick skin



- Presence of dermis and thick epidermis.
- Presence of dermis with sweat glands.

Tongue

- Presence of different kinds of papillae with skeletal muscle fibers.
- Presence of glands and stratified nonkeratinized squamous cell lining.

Fungiform, filliform papillae



Circumvallate papillae



Endocrine Glands

Pituitary gland



- Presence of pars anterior with acidophils and basophils.
- Presence of pars nervosa with pituicytes and pars intermedius with colloid.

Thyroid gland



- Presence of thyroid follicles filled with colloid.
- Presence of parafollicular cells.

Parathyroid gland



- Cords of cells with numerous sinusoids.
- 2 types of cells chief (smaller, more in number, central large spherical nuclei) and oxyntic cells (larger, lesser in number).

Suprarenal gland



- Presence of cortex and medulla.
- Presence of secretory cells and sympathetic neurons.

Special Senses

Cornea



- Presence of anterior limiting lamina.
- Presence of thick substantia propria with keratocytes.

Retina



- Presence of 10 layers.
- Presence of external and internal limiting lamina.

Central Nervous System

Spinal cord



- Presence of H shaped gray mater.
- Presence of central canal.

Cerebellum



- Presence of molecular layer and granular layer and white mater.
- Presence of Purkinje cells in Purkinje cell layer.

Cerebrum



- Presence of superficial pia mater and inner white mater.
- Presence of stellate cells and giant pyramidal cells.

Respiratory System

Epiglottis



- Yellow elastic cartilage present.
- Yellow elastic cartilage covered by stratified squamous epithelium on the oral side and pseudostratified columnar epithelium on the respiratory side.

Trachea



- Presence of hyaline cartilaginous plates.
- Presence of mucous and serous glands in lamina propria.





- Presence of various bronchioles.
- Presence of alveoli lined by simple squamous epithelium.

Gastrointestinal Tract

Esophagus



Points of identification:

• Presence of 4 layers of GIT.

• Presence of esophageal glands in submucosa.

Stomach (fundus)



- Presence of 4 layers of GIT.
- Presence of fundic glands, gastric pits and mucosal folds.

Stomach (pylorus)



Points of identification:

- Presence of four layers of GIT.
- Presence of pyloric glands, and abundant mucous neck cells.

Duodenum



- Presence of 4 layers of GIT.
- Presence of Brunner's glands in submucosa and villi on mucous membrane.

Jejunum



- Presence of 4 layers of GIT.
- Presence of intestinal crypts and tongue shaped villi.

lleum



- Presence of 4 layers of GIT.
- Presence of Peyer's patches and finger shaped villi.

Large intestine



- Presence of 4 layers of GIT.
- Presence of taenia coli and tubular glands in folds with goblet cells.

Appendix



- Presence of 4 layers of GIT.
- Lymphatic nodules present in submucosa.

Liver



- Hexagonally arranged hepatocytes with portal triad.
- Presence of central vein.

Gallbladder



- Presence of 3 layers of GIT.
- Absence of submucosa.

Pancreas



- Presence of pancreatic acini.
- Presence of islets of Langerhans.

Urinary System

Kidney



- Presence of cortex and medulla with cut sections of PCT, DCT, etc.
- Presence of medullary rays and renal corpuscles.

Ureter



- Presence of star shaped lumen lined by transitional epithelium.
- Presence of 3 muscle coats.

Urinary bladder



- Presence of transitional epithelial lining.
- Presence of ill-defined muscle coat

Male Reproductive System

Testis



- Presence of seminiferous tubules with spermatozoa.
- Presence of interstitial cells between the tubules.

Epididymis



- Presence of highly convoluted efferent ductules with stereocilia.
- Presence of smooth muscle around the ductules.

Vas deferens



- Presence of narrow irregular lumen with mucosal folds.
- Presence of thick circularly arranged muscle coat.

Prostate



- Presence of prostatic acini separated by fibromuscular tissue.
- Presence of amyloid body

Female Reproductive System





- Presence of follicles with oocytes in diff erent stages of maturity.
- Presence of germinal epithelium

Uterine tube



- Presence of primary, secondary, tertiary mucosal folds and its lumen.
- Presence of circular muscle coat.

Uterus

- Presence of thick myometrium with smooth muscle.
- Presence of uterine glands in endometrium.





- Chorionic villi of different stages seen.
- Intervillous space filled with maternal blood and RBCs.

Umbilical cord



- Presence of 2 umbilical arteries and 1 umbilical vein.
- Presence of Wharton's jelly.

Hope you found the article helpful! Do share it with your batchmates.

Good luck Medicoholics! Until next time.



4 thoughts on "Histology Slides For MBBS 1st Year [With Identification Points]"



Gopika S

May 1, 2021 at 5:37 pm



Aastha

December 12, 2021 at 2:13 pm

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Hi! My name is Tauseef Khan. Currently, I'm a medical student pursuing MBBS (Bachelor of Medicine and Bachelor of Surgery) in Bangalore, Karnataka, India. IN more about me...

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