

ANATOMY - for PHARMACY STUDENTS

histology – sections, structures required on the exam

2021/22/2 Semester

basic tissues, skin (1st week)

1)No. 006 SKIN HE

- identification
- epidermis layers
- connective tissue – fibrocyte, collagen fiber

2)No. 025 BONE TISSUE

- identification
- osteon (Haversian system) parts
- Volkmann's canal

3)No. 041 CARDIAC MUSCLE - HE

- identification
- cardiac muscle cell
- discus intercalaris / Eberth's line

4)No. 101 SPINAL CORD

- identification
- gray matter, white matter
- multipolar neuron (α – motoneuron): axon, dendrit, perikaryon, Nissl – granulation, myelin sheath

blood, lymphoid organs, vessels (3rd week)

5)No. 037 BLOOD SMEAR – MGG

- identification
- red blood cell,
- platelet
- monocyte
- granulocytes
- lymphocyte

6)No. 019 ARTERY AND VEIN – HE

- identification
- tunica intima
- tunca media
- tunica adventitia

respiratory tract, gastrointestinal tract I. (5th week)

7)No. 058 LUNG – HE

- identification
- hyaline cartilage
- bronchus
- bronchiole
- alveolus
- septum: blood-air barrier

8)No. 062 STOMACH – HE

- identification
- chief cell
- mucous neck cell
- parietal cell

9)No. 099 ILEUM– HE

- identification
- tunica mucosa
- tunica submucosa
- tunica muscularis
- intestinal villus
- Peyer's patch

gastrointestinal tract II. kidney and urinary tract (7th week)

10)No. 072 LIVER– TRICHROME

- identification
- liver lobule – vena centralis, sinusoid, hepatocyte
- portal triad – interlobular artery, vein and duct

11)No. 074 KIDNEY– HE

- identification
- cortex, medulla
- Malpighian corpuscle
- proximal and distal tubules
- Henle's loop
- JGA

genital organs, spermatogenesis, oogenesis, placenta
(9th week/8th week lecture)

12)No 082 OVARY

- identification
- oogonium
- Graafian follicle
- corpus luteum

13)No 084 UTERUS

- identification
- myometrium, endometrium
- spinocellular connective tissue, glands

14)No. 081 PROSTATE– HE

- identification
- urethra
- glands
- smooth muscle

15)No 078. TESTIS– HE

- identification
- tubuli seminiferi contorti – spermatogonium, spermatocyte, spermatid,
- Leydig - cell (hormon)

16)No 085 PLACENTA

- identification
- fetal side with vessels
- chorionic villi – fetal vessels and blood
- intervillous space- maternal blood
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nervous system and sensory organs histology,
endocrine organs (12th week)

17)No. 022 CORTEX CEREBRI – CHRESYL VIOLET

- identification
- gray and white matter
- primary sensory cortex
- primary motor cortex– Betz-cells – pyramidal cells – stratum pyramidale internum

18)No. 029 EYE – HE

- identification
- tunica fibrosa bulbi – sclera, cornea
- tunica vasculosa bulbi – iris, corpus ciliare, choroidea
- tunica nervosa bulbi – pars optica retinae – layers
- chambers of eye
- vitreous body
- lens
- iridocorneal junction – Schlemm's canal- humor aequosus circulation

19)No. 105 HYPOPHYSIS– Gömöri

- identification
- adenohipophysis (hormons!)
- neurohipophysis (hormons!)
- neurosecretion

20)No. 102 THYROID GLAND – HE

- identification
- follicular epithelium
- kolloid

21)No. 032 ADRENAL GLAND – HE

- identification
- cortex – zona glomerulosa, zona fasciculata, zona reticularis (hormons!)
- medulla – chromaffin cells (hormon!)
- adipose tissue – capsula adiposa renalis