

ANATOMY - for PHARMACY STUDENTS

histology – sections, structures required on the exam
2023/24/2 Semester

identification is generally required

basic tissues, skin (1st week)

No. 6 SKIN HE

- epidermis layers
- connective tissue – fibrocyte, collagen fiber

No. 25 BONE TISSUE

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

No. 41 CARDIAC MUSCLE - HE

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

blood, lymphoid organs, vessels (3rd week)

No. 37 BLOOD SMEAR – MGG

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

No. 19 ARTERY AND VEIN – HE

- tunica intima
- tunica media
- tunica adventitia

No. 43a THYMUS – HE

- cortex
- medulla
- Hassal's body

respiratory tract, gastrointestinal tract (6th week)

No. 58 LUNG – HE

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

No. 62 STOMACH – HE

- chief cell
- mucous neck cell
- parietal cell

No. 99 ILEUM– HE

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

No. 72 LIVER– TRICHROME

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

urinary tract, genital organs (9th week)

No. 74 KIDNEY– HE

- cortex, medulla
- Malpighian corpuscle
- parts of nephron

No 82. OVARY

- ovarian follicle, Graafian follicle
- corpus luteum

No 84. UTERUS

- myometrium, endometrium
- spinocellular connective tissue, glands

No 78. TESTIS– HE

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

nervous system and sensory organs histology, endocrine organs (12th week)

No. 101 SPINAL CORD

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

No. 22 CORTEX CEREBRI – CHRESYL VIOLET

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

No. 29 EYE – HE

- 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

No. 105 HYPOPHYSIS– Gömöri

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

No. 102 THYROID GLAND – HE

- follicular epithelium
- kolloid

No. 32 ADRENAL GLAND – HE

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

No 85. PLACENTA

- fetal side with vessels
- chorionic villi – fetal vessels and blood
- intervillous space- maternal blood