

ANATOMY

PLAN OF PRACTICAL CLASSES FOR FOREIGN STUDENTS THE THIRD SEMESTER

Week	Practical class
1.	Cardiovascular system. Pulmonary and systemic circulation. Blood vessels, lymphatic vessels. Embryonic origins. Innervation of vessels.
2.	Heart, its external and internal features. Conducting system. Pericardium. Sinuses of the pericardium. Blood supply and innervation of the heart.
3.	Arteries and veins of the head and the neck. Anastomoses.
4.	Arteries and veins of the trunk: thorax, abdomen, pelvis. Anastomoses. Arteries and veins of upper girdle and upper limb. Arteries and veins of lower girdle and lower limb. Lymphatic system. Capillaries, vessels, trunks, ducts. Lymph nodes
5.	Immune system. Central lymphatic organs: bone marrow, thymus. Peripheral lymphatic organs: spleen, lymph nodes, tonsils, mucous-associated lymphoid tissue (MALT): gut-associated lymphoid tissue (GALT), bronchus-associated lymphoid tissue (BALT); skin-associated lymphoid tissue (SALT). Embryonic origin. Location. Neurovascular supply, lymphatic drainage.
6.	Endocrine system. Central endocrine organs: hypothalamus, pituitary gland, pineal gland. Hypothalamic-pituitary axis. Portal system of pituitary gland. Peripheral endocrine organs: thyroid, parathyroid, suprarenal glands. Embryonic origin. Hormones, target cells and organs; biological effects. Location. Neurovascular supply, lymphatic drainage.
7.	Colloquium 5. Cardiovascular, lymphatic, immune endocrine systems
8.	Respiratory system. Embryonic origin. Upper airways: nasal cavity (respiratory region, olfactory region), paranasal sinuses, pharynx. Lower airways: larynx, trachea, bronchial tree. Olfactory pathway. Lungs. Mediastinum: definition, borders, divisions and content. Neurovascular supply and lymphatic drainage.
9.	Alimentary system. Oral vestibule, oral cavity: palate (hard and soft), teeth (deciduous and permanent; dental formula), tongue. Floor of oral cavity. Lymphoepithelial ring (Pirogov-Waldeyer's ring). Greater salivary glands (parotid, submandibular, sublingual). Pharynx (oropharynx and laryngopharynx). Esophagus. Location. Neurovascular supply, lymphatic drainage. Gustatory pathway. General sensation of tongue.
10.	Stomach. Small and large intestine. Liver. Pancreas. Peritoneum and its derivatives in upper and lower abdomen. Intraperitoneal, mesoperitoneal and extraperitoneal (retroperitoneal and subperitoneal) organs
11.	Neurovascular supply and lymphatic drainage of stomach, small and large intestine. Liver. Pancreas. Anastomoses between superior and inferior

	vena cava and portal hepatic vein
12.	Colloquium 6. Respiratory, alimentary systems
13.	Urinary system. Overview of urinary organs. Kidney. Embryonic development, structural unit. Nephron. Collecting tubules (ducts), papillary ducts. Functions of kidneys. Urinary tract. Renal calyces, renal pelvis, Ureters, urinary bladder, urethra. Neurovascular supply and lymphatic drainage of urinary organs
14.	Male reproductive system. Embryonic origin, structure and functions of gonads, genital tracts (epididymis, ductus deferens, ejaculatory ducts, urethra) and accessory glands (seminal vesicles, prostate gland, bulbourethral glands). Internal and external genital organs. Layers of testis. Male inguinal canal. Spermatic cord. Neurovascular supply and lymphatic drainage of male genital organs
15.	Female reproductive system. Embryonic origin. Ovary, fallopian tube, uterus, vagine, Internal and external genital organs, accessory (vestibular) glands. Topography and support of ovary and uterus. Neurovascular supply and lymphatic drainage of female genital organs
16.	Female reproductive system. Uterus. Ovarian and menstrual cycle. Early stages of embryonic development. Fertilization. Cleavage. Gastrulation. Neurulation. Organogenesis. Extraembryonic organs. Placenta. Structure and functions. Blood-placental barrier. Fetal circulation. Perineum: urogenital and pelvic diaphragm. Features of male and female
17.	Integumentary system. Skin and its derivatives. Embryonic origin, structure and functions. Mammary gland. Hormonal regulation. Neurovascular supply and lymphatic drainage
18.	Colloquium 7. Urinary, reproductive, integumentary systems