

ЛД-21ИИ

STATE BUDGET EDUCATIONAL ESTABLISHMENT OF HIGHER PROFESSIONAL
EDUCATION

"NORTH-OSSETIAN STATE MEDICAL ACADEMY"
OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

Department of human anatomy
with topographic anatomy and operative surgery
Кафедра анатомии человека
с топографической анатомией и оперативной хирургией

METHODOLOGICAL GUIDES
to practical training and extracurricular independent work
Specialty 31.05.01 General Medicine
Discipline "Anatomy"

The main professional educational program of higher education –
specialty programs in the specialty 31.05.01 General Medicine,
(educational program, partially implemented in English)
approved on 24.05.2023 г.

МЕТОДИЧЕСКИЕ МАТЕРИАЛЫ
кафедры анатомии человека с топографической анатомией и оперативной хирургией
Специальность 31.05.01 Лечебное дело
Дисциплина «Анатомия»
Основной профессиональной образовательной программы высшего образования –
программы специалитета по специальности 31.05.01 Лечебное дело,
(частично реализуемой на английском языке),
утвержденной 24.05.2023 г.

Владикавказ

Методические материалы предназначены для обучения студентов 1 и 2 курсов (1, 2, 3 семестры) лечебного факультета ФГБОУ ВО СОГМА Минздрава России по дисциплине «Анатомия» (образовательная программа, частично реализуемая на английском языке)

Составители:

Заведующий кафедрой анатомии человека с топографической анатомией и оперативной хирургией ФГБОУ ВО СОГМА Минздрава России, к.м.н., доцент О.Н. Тотоева

Compiled by:

Head of the Department of Human Anatomy with Topographic Anatomy and Operative Surgery, FSBEI HE SOGMA of the Ministry of Health of Russia, Candidate of Medical Sciences, Associate Professor O.N. Totoeva

Рецензенты:

Reviewers:

1. Зав. каф. биологии и гистологии ФГБОУ ВО СОГМА Министерства здравоохранения Российской Федерации проф., д.м.н. Бибаева Л.В.
1. Head of the Department of Biology and Histology of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of the Russian Federation, Professor, Doctor of Medical Sciences Bibaeva L.V.
2. Главный врач ФБУЗ «Центр гигиены и эпидемиологии в Республике Северная Осетия – Алания» А.К. Бутаев
2. Chief Physician of the Federal Budgetary Institution of Health "Center for Hygiene and Epidemiology in the Republic of North Ossetia - Alania" A.K. Butaev

List of collection methodological guides
of the Department of Human Anatomy with Topographic Anatomy and Operative Surgery
Список учебно-методических материалов
кафедры анатомии человека с топографической анатомией и оперативной хирургией

1. COLLECTION OF METHODOLOGICAL INSTRUCTIONS ON ANATOMY for practical exercises and for extracurricular independent work for 1st year students of the Faculty of General Medicine in 1 semester. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
2. COLLECTION OF METHODOLOGICAL INSTRUCTIONS ON ANATOMY for practical studies and for extracurricular independent work for 1st year students of the Faculty of General Medicine in the 2nd semester. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
3. COLLECTION OF METHODOLOGICAL INSTRUCTIONS ON ANATOMY for practical exercises and for extracurricular independent work for 2nd year students of the Faculty of General Medicine in the 3rd semester. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023

№	Semester number	The name of the educational and methodical recommendations
1.	1	METHODICAL COLLECTION FOR THE DISCIPLINE "ANATOMY" for practical exercises and for extracurricular independent work for students of the Faculty of GENERAL MEDICINE (Educational program, partially implemented in English) in 1 semester. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
2.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomical terminology. Axes and planes. Bones of the torso. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
3.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "The skeleton of the upper limb. Bones of the girdle of the upper limb: clavicle, scapula. Bones of the free upper limb: the humerus, the bones of the forearm (ulna, radius), bones of the hand (bones of the wrist, metacarpus), phalanges of the fingers. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
4.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "The skeleton of the lower limb. Lower limb belt. Bones of the free lower limb: femur, lower leg bones (tibia, fibula), foot bones. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
5.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Head skeleton, departments. Bones of the cerebral skull: parietal, occipital, frontal, wedge-shaped, ethmoid. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
6.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "The temporal bone, its departments, canals. Bones of the facial skull: upper jaw, palatine bone, lower turbinate, nasal bone, vomer, zygomatic bone, lower jaw. Hyoid bone. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
7.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "The skull as a whole, the roof of the skull. The base of the skull is external and internal. Topographic formations of the skull - canals, pits. The connection of the bones of the skull. Temporomandibular joint. Age, sex and individual characteristics of the skull. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
8.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "General data on the connection of bones. The connection of the bones of the trunk. The connection of the bones of the shoulder girdle is age-related. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
9.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Shoulder joint. Elbow joint. The connection of the bones of the forearm. Wrist joint. Connections of the bones of the hand. X-ray anatomy of the joints of the upper extremities. Age features ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
10.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Joints of the pelvic bones. The pelvis as a whole. Sex differences. The hip joint. Knee-joint. The connection of the bones of the lower leg. Ankle joint. Connections of the bones of the foot. The foot as a whole. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
11.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Muscles of the head. Chewing and facial muscles. Fascia and cellular spaces ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
12.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Muscles and fascia of the neck. Neck topography. Fascia and tissue spaces of the neck. Diaphragm. Muscles and fascia of the chest ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
13.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Muscles and fascia of the back, topographic formations. Muscles and fascia of the abdomen, topographic formations. The rectus sheath. White line of the abdomen. Inguinal canal ". Authors: Head of Department, Associate Professor Totoeva O. N. / Vladikavkaz, 2023
14.	1	Methodical guide for a practical lesson and extracurricular independent work on the topic: "Muscles and fascia of the upper limb. Synovial canals and vaginas. Elements of the topographic anatomy of the upper limb. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
15.	1	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Muscles and fascia of the lower extremity. Synovial canals and vaginas. Elements of the topographic anatomy of the lower limb. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
16.	2	METHODICAL COLLECTION FOR THE DISCIPLINE "ANATOMY" for practical exercises and for extracurricular independent work for students of the Faculty of GENERAL MEDICINE (Educational program, partially implemented in English) in the 2nd semester. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
17.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the oral cavity, teeth, tongue and salivary glands, soft palate. Anatomy and topography of the pharynx, esophagus. The course of the food lump. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
18.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the stomach and intestines. Anatomy and topography of the rectum. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
19.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the liver, pancreas, peritoneum, gallbladder." Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
20.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the nasal cavity and larynx. Anatomy and topography of the trachea, bronchi and lungs. Air jet stroke. Anatomical and physiological dead spaces. Anatomy and topography of the pleura and mediastinal organs. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
21.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the kidneys, ureters, bladder and urethra. Urine flow. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
22.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of male genital organs. Value and practical skills. The membranes of the testicle and scrotum. Seed run. Male crotch. Anatomy and topography of the female genital organs. Women's crotch. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023

23.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the heart. Chambers of the heart, the structure of the wall of the heart. Circles of blood circulation. Blood supply to the heart: arteries and veins of the heart. Conductive system of the heart. Pericardium. Age features of the heart ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
24.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the orta and its parts. Branches of the aortic arch. Common carotid artery. Anatomy and topography of the external carotid artery and its branches. Anatomy and topography of the internal carotid artery and its branches. Anatomy and topography of the subclavian artery and its branches. Blood supply to the brain. Age features. X-ray - anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
25.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the thoracic and abdominal parts of the aorta and their branches. Anatomy and topography of the common, external and internal iliac arteries and their branches. Value and practical skills. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
26.	2	Methodical guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the artery of the free upper limb (axillary, brachial arteries, arteries of the forearm and hand). Arteries of the free lower limb (thigh, lower leg and foot). Value and practical skills. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
27.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Veins of the head and neck. Superior vena cava. Veins of the chest, abdominal cavities and pelvis (unpaired, semi-unpaired, inferior vena cava, portal vein). Anatomy and topography of cava - caval and porto - caval anastomoses. Fetal circulation. Anatomy of the veins of the upper and lower extremities. Value and practical skills. Age features. X-ray - anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
28.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the organs of the lymphatic system. Value and practical skills. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
29.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the immune system." Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
30.	2	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Endocrine glands". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
31.	3	METHODOLOGICAL COLLECTION FOR THE DISCIPLINE "ANATOMY" for practical exercises and for extracurricular independent work for students of the Faculty of GENERAL MEDICINE (Educational program, partially implemented in English) in the 3rd semester. Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
32.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the spinal cord and its membranes. Spinal nerve formation. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
33.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "General overview of the brain and its departments. Topography of the cranial nerve roots at the base of the brain. The meninges of the brain. Anatomy and topography of the cerebral hemispheres. Lobes, grooves and convolutions. The structure of the cerebral cortex. Localization of functions. The olfactory brain. Limbic system. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
34.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the basal nuclei. Internal capsule. Anatomy and topography of the corpus callosum. Vault. Lateral ventricles. Anatomy and topography of the diencephalon. III ventricle. Anatomy and topography of the midbrain. Brain aqueduct. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
35.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the isthmus of the rhomboid brain. Bridge. Cerebellum. Anatomy and topography of the medulla oblongata. IV ventricle. Anatomy and topography of the rhomboid fossa. Cranial nerve nuclei projection. Age features. X-ray anatomy ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
36.	3	Methodological manual for a practical lesson and extracurricular independent work on the topic: "Pathways of the brain and spinal cord." Authors: Head. Dept., Associate Professor Totoeva O.N., Associate Professor, Candidate of Medical Sciences, Tuaveva Z.S. / Vladikavkaz, 2023
37.	3	Methodological guide to a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the terminal (0), olfactory (I), visual (II), oculomotor (III), block (IV) and abducens (VI) nerves and their branches. Anatomy and topography of the trigeminal (V) nerve. Age features ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
38.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the facial (VII) nerve and its branches. Anatomy and topography of the vestibular cochlear (VIII) and glossopharyngeal (IX) nerves and their branches. Anatomy and topography of the accessory (XI) and hypoglossal (XII) nerves and their branches. Age features ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
39.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the vagus (X) nerve and its branches. Age features ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
40.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Sense organs. Leather. The organ of taste. Olfactory organ. Anatomy and topography of the organ of vision. Eyeball. Auxiliary apparatus of the eye. Anatomy and topography of the vestibular cochlear organ. Outer and middle ear. Anatomy and topography of the inner ear. Topography of the course of blood vessels and nerves in the orbit. Age features ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
41.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "General anatomy and topography of the spinal nerves. Anatomy and topography of the cervical plexus. Age features. Topography of the course of blood vessels and

		nerves. " Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
42.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Anatomy and topography of the brachial plexus (short and long branches). Topography of the course of blood vessels and nerves. " Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
43.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: Intercostal nerves. Anatomy and topography of the lumbar plexus. Anatomy and topography of the sacral plexus. Anatomy and topography of the genital and coccygeal plexuses. Age features. Topography of the course of blood vessels and nerves. " Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023
44.	3	Methodological guide for a practical lesson and extracurricular independent work on the topic: "Autonomic (autonomic) nervous system. Vegetative innervation of organs. Age features ". Authors: Head. Dept., Associate Professor Totoeva O.N. / Vladikavkaz, 2023