

Clinical Orofacial Anatomy (B81158) for students of the 3rd year of dentistry

Venue: Institute of Anatomy of The First Faculty of Medicine,
Prague 2, U Nemocnice 3, 128 00 Czech Republic

Head of the Course: Assist. Prof. Andrej Shbat, M.D., Ph.D.

Academic year: 2023 - 2024

Total number of teaching hours: 30, Credits: 3 EC

Curricular timing and duration: The course is taught during the summer semester of the third study year of dentistry and contains the following parts: seminars (15 hours) and one dissection block (15 hours). Attendance at seminars and dissection block is obligatory.

Aims: To reiterate and complete the anatomical structures and terms relevant to clinical work of dentists; to try out preparational procedures in the head and neck regions using the autopsy material; further (in selected preparations), to demonstrate relationships between the structures of the orofacial region as a basis for surgical approaches, for performance in the intensive care, for physical examinations, and examinations using imaging methods.

Seminars: **Tuesday 11:00 – 12:30 in weeks 3 – 8** of the summer semester: topographical anatomy of the head and neck, basic data about development and aging of the orofacial structures, biomechanics of the temporomandibular joint, masticatory muscles and splanchnocranium, anatomy of teeth, gingiva and periodontium. (seminars introduce clinical aspects respective regions of head and neck).

Dissection block: **April 22 – April 26, 2024 at 14:30 – 17:30**; The block is closed by the credit.

Requirements for receiving the credit

- a) obligatory attendance and participation in seminars and dissection course,
- b) to pass questions during dissection course

The credit is prerequisite for the admission to the examination.

Examination (oral): has two parts:

- a) practical demonstrations of selected organs including their X-ray, MR and CT pictures,
- b) theoretical part of exam is based on the list of questions.

Content of Clinical Anatomy for study of Dentistry:

Gross, topographic and clinical anatomy of the head and neck.

Knowledge and skills to be acquired: detailed anatomical knowledge of orofacial apparatus as anatomical background for surgical performances protecting life; knowledge of face and neck dysplasias and anesthesia approaches, topographic description of the head and neck.

Selected pictures for study of head nad neck topography shown on

web: <http://anat.lf1.cuni.cz/souhrny/topika.pdf> + dentistry portal

Recommended textbooks - selected chapters:

W.R. Profitt, H.W. Fields, D.M. Sarver: Contemporary Orthodontics, 5th edition, Elsevier, Mosby 2012

Baker E.W., editor - based on the work of Schuenke M., Schulte E., Schumacher U.: Anatomy for Dental Medicine (Latin nomenclature), Thieme 2016

Radlanski, R.J., Wesker, K.H.: The Face. Pictorial atlas of Clinical Anatomy. Amazon Book Review

Berkowitz et al.: Oral Anatomy, Histology and Embryology. 3rd Edition, Mosby 2002

Woelfel, Scheid: Dental Anatomy, 6th ed. Williams & Wilkins, 2002

Platzer, W., Fritsch H., Kuehnel W., Kahle W., Frotscher M.: Colour Atlas of Human Anatomy in 3 volumes (1. Locomotor system; 2. Internal organs, 3. Nervous system and sensory organs), Stuttgart, New York 2014 Thieme

Complementary textbooks and Atlases - selected chapters:

Grim, M., Naňka, O., Helekal, I.: Atlas of Human Anatomy II/ Atlas anatomie člověka, Grada, Praha, 2017

Weber, T.: Memorix Zahnmedizin (Memorix of Dental Medicine) Thieme, 2010

Feneis, Dauber: Pocket Atlas of Human Anatomy 2007 Georg Thieme

Snell: Clinical Anatomy for Medical Students, Williams and Wilkins 2004

Moore, Agur: Essential Clinical Anatomy, Williams and Wilkins 2002

Seichert V: Little Anatomical Atlas. Praha 1995

Lang J: Clinical Anatomy of the Masticatory Apparatus and Peripharyngeal Spaces. Stuttgart, Thieme, 1995

C. S. White, J.M. Pharoah: Oral Radiology: Principles and Interpretation (5th ed.) 2003, Mosby

M. Bath-Balogh: Workbook for Illustrated Dental Embryology, Histology, and Anatomy Revised Reprint, (2nd ed.) 2005, Saunders

E. Whaites: Essentials of Dental Radiography and Radiology (4th ed.) 2006 Churchill Livingstone.

Ch M. Dofka: Dental Terminology, Thomson Delmar Learning, 2000

Neugebauer, J., Zöller J. E.: Cone beam Volumetric Imaging in Dental, Oral and Maxillofacial Medicine, 2nd ed., Quintessence Publ., 2013

E. Whaites: Essentials of Dental Radiography and Radiology (4th ed.) 2006 Churchill Livingstone

Tillman, B.: Farbatlas der Anatomie Zahnmedizin-Humanmedizin Georg Thieme Verlag, 1997

Šedý, J.: Stomatologie 1st ed., Triton 2012

Prague, February 29, 2024

Assist. Prof. Andrej Shbat, Ph.D.

Assoc. Prof. Ondřej Naňka, M.D., Ph.D.