

Occlusion norms and functions of stomatognathic system

Winter semester:

- 1) Development of masticatory system (movie). Periods of ontogenesis.
- 2) Masticatory system – anatomy; skeletal system; primary and secondary dentition.
- 3) Muscles of masticatory system, tendons, fascias, ligaments, muscle attachments, function.
 - masticatory muscles
 - supra- and infrahyoid muscles
 - tongue muscles
 - mimetic muscles
 - palatal and uvula muscles
- 4) Periodontal tissue: morphology, receptors, relationship with orthodontic treatment (tooth movement mechanism)
- 5) Structure of mucous membrane and its function in stomatognathic system
- 6) Temporomandibular joint: anatomy, function, development.
- 7) Nervous system and vascular system. Function of particular components of stomatognathic system.
- 8) Centric and lateral occlusion, anterior guidance, rest position and rest space; bite strength, chewing effectiveness.
- 9) Functions: sucking, swallowing, chewing, respiration, speech, licking, kissing, blowing, whistling, sneezing, cough, hiccup.
- 10) Norms of prenatal development of masticatory system; primary and secondary palate; relation between position and shape of maxilla and mandible.
- 11) Masticatory system in the infant period before teeth eruption – phases of tooth development.
- 12) Occlusion in deciduous dentition (anatomy review), canine classes, Baume's classes; differences between primary and secondary dentition.
- 13) Deciduous and permanent teeth eruption schedule; mechanisms of tooth eruption.
- 14) Semestral assessment.



Summer semester:

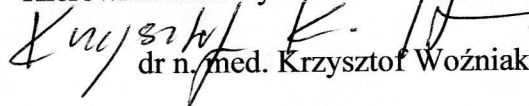
- 1) The first and the second period of teeth exchange. Shape, size, number and structure of permanent teeth.
- 2) Dental abnormalities.
- 3) Eruption of third molars, age related changes in dental arches; Angle's and canine classification, curve of Spee, Mühlreiter's marks of teeth, Andrew's keys to normal occlusion.)
- 4) Abnormalities of the development of occlusion in prenatal period. Clefts.
- 5) Abnormalities of the development of occlusion: period from birth to complete deciduous dentition; first period of teeth exchange; second period of teeth exchange
- 6) Functional and morphological disorders of masticatory system; dysfunctions and parafunctions.
- 7) Influence of occlusion on temporomandibular joint: reflexive and adaptive mechanisms of stomatognathic system.
- 8) Acquired malocclusions (biometric field) part I.
- 9) Acquired malocclusions part II.
- 10) Rules of prophylaxis in prenatal, infant, early and late childhood and later periods of development
- 11) Visit in kindergarten. Characteristic of complete deciduous dentition; examining 3-4 y.o. children.
- 12) Visit in kindergarten. Characteristic of late deciduous dentition and early mixed dentition; examining 6 y.o. children.
- 13) Visit in primary school. Characteristic of late mixed dentition and early permanent dentition; examining 10-12 y.o. children.



References:

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- 2) Jeryl D. English, Timo Peltomäki, Kate Pham-Litschel: Mosby's orthodontic review / Orthodontic review. St. Louis : Mosby Elsevier, cop. 2009.
- 3) Samir E. Bishara, [contributors Athanasios E. Athanasiou [et al.]: Textbook of orthodontics . Philadelphia: W. B. Saunders Co., cop. 2001.
- 4) Heasman, Peter A. Declan T. Millett, Iain L. Chapple: The periodontium and orthodontics in health and disease. Oxford [etc.] : Oxford Univ. Press, 1996.
- 5) William R. Proffit [et al.]: Contemporary orthodontics. 2 ed. St. Louis [etc.] : Mosby Year Book, 1993.
- 6) Lawson, Harvey W, Joan L. Blazucki.: Bench-top orthodontics. Chicago [etc.] : Quintessence Publ., cop. 1990.
- 7) Warfel J. H.: The head, Neck and trunk: muscles and motor points. 1973.
- 8) Scully C.: Medical problems in dentistry. 2005.
- 9) Scully C.: Oral diseases: an illustrated guide to the diagnosis and management of diseases of the oral mucosa. 1996.

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