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| Module: ANATOMY OF THE HEAD AND NECK FOR DENTAL STUDENTS |
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| Code number:<br>DENT0000 | Status: Compulsory   | Credits: 3 ECTS points (= 81 hours students' time, 40 contact hours) |
| Supervisor of the module | Name of the supervisor, name of the Department, name of the Dental School  |  |
| Target group             | Students in the dental education program, 1st year, 1st term   |  |
| Level                    | 1st Cycle (Bachelor)   |  |
| Aims of the module       | <p><b>Module aims to</b></p> <ul style="list-style-type: none"> <li>- give students an understanding of the structural and functional relationships between the lower jaw, other bones of the skull and cervical vertebrae</li> <li>- familiarise students with the structures of the temporomandibular joint and the interplay between TMJ, masticatory, hyoid, and neck muscles during the movements of the lower jaw</li> <li>- familiarise students with innervation and vasculature of the facial and dentoalveolar structures</li> <li>- familiarise students with the soft tissue structures in the mouth</li> </ul> <p><b>Module forms the basis</b></p> <ul style="list-style-type: none"> <li>- to understand how dentoalveolar structures relate to the rest of the skull</li> <li>- to begin to see how craniofacial structures are represented on radiograph</li> <li>- to understand growth and development of the facial skeleton</li> <li>- to understand TMJ functions and dysfunctions</li> <li>- to be able to do operative procedures in the dentoalveolar processes and jaws</li> </ul> |  |
| Contents                 | Craniofacial bones and their 3D relationships. Craniofacial structures in x-rays. Masticatory and hyoid muscles, muscles in the tongue and in the soft palate, muscles of facial expression. Cervical vertebrae, muscles and fascias in the neck region. TMJ joint and related structures. Blood vessels and lymphatic drainage in the craniofacial area. Cranial nerves (CN1–CN12). Salivary glands, soft palate, soft tissue structures in the oral cavity. Nasal structures and larynx. Morphological variability of the craniofacial structures.   |  |
| Teaching methods         | <p>A.) Lectures: 10x 2 hours</p> <p>B.) Working groups: 5 x 2 hours / student</p> <p>Of the working groups two take place in the clinical surroundings. One student acts as patient, one as dentist, one as nurse. The practice is repeated three times allowing each student to act in each of the roles. Two clinical practices are as follows:</p> <ol style="list-style-type: none"> <li>1. palpation of the masticatory muscles and the measurements of the maximal jaw movements, clinical identification of the centric relation position of the lower jaw</li> <li>2. identification of the soft tissue structures in the mouth cavity.</li> </ol>   |  |

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|                                 | C.) One day extramural visit to cleft lip and palate centre in Helsinki.   |
| Learning material               | The appropriate parts of the textbook:<br>Moore KL and Dalley AF: Clinically Oriented Anatomy. Lippingott Williams &Wilkins, 5 <sup>th</sup> ed., 2006.<br>Material given during lectures and work groups.   |
| Learning outcomes               | <b>A student who successfully completes the module will</b> <ul style="list-style-type: none"> <li>- know names the bones of the skull and can identify their location in the skull and be able to identify the major skeletal structures in lateral x-ray of the skull and in panoramic x-ray of the jaws</li> <li>- know the origin and insertion of the masticatory, hyoid muscles and the major muscles of facial expression</li> <li>- know the names of the TMJ structures and understand how the condylar head and disc move during jaw opening, lateral and protrusive movements of the jaw</li> <li>- know the names and distribution of the major blood vessels in the facial and dentoalveolar area</li> <li>- know the names and distribution of the cranial nerves (CN1–CN12) of which CNV, CNVII, CN IX , CN X (in the facial area) and CNXII in detail</li> <li>- be able to identify and know the names of the intraoral soft tissue structures</li> </ul> |
| Assessment and evaluation       | Written examination; the questions require brief essays and/or identification of anatomical names of craniofacial structures. Students are obliged to fill an electronic evaluation questionnaire after the examination.   |
| Timing                          | In the beginning of the 1st term: August-September-October.  |
| Pre requisite(s) for attendance | A student needs to have been accepted in the dental education program.   |