

## BACKGROUND INFORMATION ABOUT THIS DOCUMENT

In this document you will find an overview of the specialty committees' recommendations for learning objectives, learning activities and forms of assessment for each specialty, as submitted by the Norwegian Medical Association to the Norwegian Directorate of Health.

The Directorate of Health has distributed overviews of learning activities and forms of assessment that have not been quality assured by the specialty committees and that contain errors and omissions. For some specialties, the Directorate of Health has also made changes and deletions to the specialty committees' recommended proposals.

The professional communities have requested the specialty committees' recommendations for learning objectives, learning activities and forms of assessment. Based on this, the Norwegian Medical Association has decided to make the recommendations available on our website.

The documents for each specialty contain the specialty committees' recommendations for

- introductory text for the specialty
- national learning activities, in the form of course and procedure lists
- learning objectives with associated explanatory text, recommended learning activities and forms of assessment
- specialty-specific explanatory text, recommended learning activities and forms of assessment related to common competence goals (FKM) if this has been prepared

For some specialties, the specialty committees' proposed learning objectives deviate from the regulatory learning objectives. The deviations may include wording, content and sequence, and some learning objectives in the specialty committees' proposals have been omitted from the specialist regulations (these are highlighted). The regulatory learning objectives can be found in Appendix 2 to the specialist regulations.

Common competence objectives (CCOs) are learning objectives developed under the auspices of the Directorate of Health. In some cases, the specialty committees have issued recommendations for more detailed text and specialty-specific learning activities and forms of assessment related to common competence objectives.

Links to the current regulations can be found on the Norwegian Medical Association's website under education.

## THE SPECIALTY COMMITTEE'S PROPOSAL FOR LEARNING OBJECTIVES AND LEARNING ACTIVITIES FOR PART 3 OF THE SPECIALTY MAXILLOFACIAL SURGERY

### THE SPECIALTY COMMITTEE'S PROPOSAL FOR INTRODUCTORY TEXT

16.07.2018

The document describes the specialty, the minimum goals for achieved competence, and the specialty's recommendations for learning strategies and mandatory methods for competence assessment. It also describes the mandatory specific courses and requirements for research activity.

The specialty-specific part of the training starts when the doctor has completed and received approval for part 1.

For doctors who do not have a degree in dentistry, a list of learning objectives, "Odontological learning objectives", is also included. The competence assessment of these learning objectives is made collectively after completion of the learning activities. It is recommended that these odontological learning objectives are achieved during the first two years of the specialization (part 3).

All maxillofacial surgery departments in Norway have a dental clinic with employed dental health personnel. As part of the mandatory learning activities, the LIS must have several focused stays at this clinic.

NOTE: For doctors who have a degree in dentistry, the learning objectives are automatically considered achieved/approved.

Maxillofacial surgery is a surgical specialty that primarily deals with the diagnosis and treatment of hard and soft tissue conditions of the jaws, face, mouth and neck.

Specialists working in this field are called maxillofacial surgeons - MF (synonymous from other continents or countries: facial surgeon and craniomaxillofacial surgeon).

MF is a medical specialty that requires expertise in both medicine and dentistry. It is an international specialty found in countries all over the world and is also defined as a medical specialty. MF is trained to work mainly in hospitals and major trauma centers.

MF is responsible for the entire patient as a human being, and not just an assigned organ system. This means that there are high demands on knowledge of surgical pathophysiology and intensive care medicine. MF must be able to handle patients throughout the entire hospital process; pre-, per- and post-operatively.

An MF often works with other related specialties and in selected situations collaborates with ophthalmologists, ENT surgeons, neurosurgeons, orthodontists (dentist), prosthodontists (dentist), oncologists and plastic surgeons, etc.

In Norway, there does not appear to be a need for many hospital wards. Official British and German figures show that the need for the number of MFs in the population is 1:150,000. In Norway, this corresponds to approximately 35 specialists, ideally distributed among hospitals in all health regions.

MF is clearly distinguished from the specialty of oral surgery and oral medicine, which is an odontological (dental) specialty that deals with surgical procedures and conditions related to the oral cavity. Oral surgeons in Norway primarily work as outpatients at smaller units or at competence centers where odontological specialties are gathered.

## Relationship to other specialties and interdisciplinary collaboration

MF often performs specialist assessments at the request of other specialties or as part of teamwork. A wide range of specialties affect MF's everyday work:

### The hospital's trauma team

MF is an important part of the trauma team, assessing and treating both soft and hard tissue injuries to the face, skull and neck. The surgeon participates both in the initial assessment and management of the multi-traumatized patient, and further in the plan for chronological treatment.

### Neurosurgery

Several problems, both acute and elective, are at the intersection of MF and neurosurgery (NK). Examples include intracranial tumors growing through the facial skeleton, frontobasal injuries with CSF leakage and treatment of cervicofacial pain. A craniofacial surgical unit should have close collaboration between NK and MK, and they should be familiar with the basic features of each other's area of expertise.

### Eye diseases

MF and ophthalmologists (especially oculoplastic surgeons) often collaborate on patients with orbital trauma, oncological deformities, injury sequelae and thyroid disease. Oculoplastic procedures are performed by both specialties, separately or as a collaborative operation. In this connection, there is also extensive collaboration in the assessment and planning of treatment.

### Ear, nose and throat diseases

MF and ENT doctors often collaborate on patients with conditions at the outer limits of their respective specialties. This is especially true for patients with head and neck cancer and trauma patients. The surgical treatment is done either as a team or sequentially (each specialty separately, chronologically).

Both MF and ENT have areas of work that cross over into each other. Current issues relating to this were clarified when a major project was carried out in 2009/2010 under the auspices of the Norwegian Medical Association/central authorities on the boundary between the specialties of MF, ENT and plastic surgery.

The assessment, investigation and treatment of head and neck cancer is currently primarily the responsibility of the ENT specialty.

### Plastic surgery

MF and PK doctors often collaborate on patients with conditions at the outer limits of their respective specialties. This applies in particular to patients with cleft lip and palate, syndrome children and reconstructive microsurgery. The surgical treatment is performed either as a team or sequentially (each specialty separately, chronologically).

Both MF and PC have areas of work that cross over into each other. Current issues relating to this were clarified when a major project was carried out in 2009/2010 under the auspices of the Norwegian Medical Association/central authorities on the boundary between the specialties of MF, ENT and plastic surgery.

The assessment, examination and treatment of children and adults with cleft lip and palate is currently primarily the responsibility of the specialty of plastic surgery.

## The course of education

The specialization course consists of main training, focused stays at other departments/units and courses. Training in maxillofacial surgery is mainly carried out at approved hospital departments in Norway.

A representative of the specialty MF shall

- Demonstrate insight into the content of the specialty and make high demands on their own surgical practice
- Be critical and questioning of established truths
- Build and develop the specialty to meet the challenges of the future

<b>COURSE OVERVIEW</b>	16.07.2018
<b>Norwegian courses</b>	
Head and neck oncology	
Basic surgical skills (basic course in surgical technique)	
Pre- and postoperative care + intensive care medicine (can be replaced with CCrISP)	
War surgery	
Plastic surgery and traumatology	
Anatomy and dissection of the neck	
Basic neurosurgical course	
ATLS	
Oral implantology	
Oral microbiology	
Oral immunology	

<b>Courses arranged abroad</b>	
AOCMF Davos course: Introduction to facial traumatology and osteosynthesis of the facial skeleton	
Course series in basic head/neck microsurgery under the auspices of EACMFS	
Course in orthognathic surgery, Aarhus University Hospital	

Participation in selected courses at dental schools that are part of the specialist training for dentists.

The courses Oral implantology, Oral microbiology and Oral immunology are such courses.

**PROCEDURE LIST**

16.07.2018

<b>Traumatology</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Dentoalveolar injuries	30		
Osteosynthesis of mandible fractures			
- Angulus/Corpus	20	5	
- Collum	15	5	
Osteosynthesis of maxillary fractures	30	5	
Osteosynthesis of zygomaticus fractures	20		
Treatment of orbital fractures	30	20	
Treatment of nasoethmoidal injuries	5	5	
Treatment of panfacial injuries	2	5	
Treatment of primary soft tissue injuries in the face	20	10	
Tracheostomy	30	10	
<b>SUM</b>			<b>267</b>

<b>Oncology/tumor surgery/benign tumors</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Resection of tumors in the facial skeleton		5	
Lip resection	5	5	
Excision of intraoral tumors without N+ neck	10	5	
Excision of skin lesions on the face	10	10	
Cervical gland toilet		5	
<b>SUM</b>			<b>55</b>

<b>Reconstructive surgery</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Reconstruction of bone defects in the facial skeleton	10	5	
Reconstruction of facial soft tissue defects	5	5	
Scar correction in the face	10		
Z-plastics and local patches on the face	10		
Partial skin grafting	3		
Full skin grafting	3		
Removal of free bone grafts	10	10	
Microsurgical procedures		5	
<b>SUM</b>			<b>76</b>

<b>Implantology</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Dental implants / fixtures	40	10	
Other maxillofacial implants		3	
<b>SUM</b>			<b>53</b>

<b>Dentoalveolar surgery</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Removal of retained teeth	100		
Root tip amputations	5	5	
Cystectomies	30	5	
Intraoral biopsies	20		
Soft tissue plastics in the oral cavity	10		
Reconstruction of proc. alveolaris with bone graft	10	10	
SUM			<b>195</b>

<b>Jaw joint</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Repositioning of dislocations	10	2	
Surgical treatment of habitual luxation	3	3	
Surgical treatment of other joint disorders	5	15	
Insertion of temporomandibular joint prosthesis		5	
Arthroscopy jaw joint	5	10	
SUM			<b>58</b>

<b>Sinuses/sinology</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Surgical treatment of sinus conditions with dentoalveolar origin	5	5	
SUM			<b>10</b>

<b>Orthognathic surgery</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Vertical ramus osteotomy	5	5	
Sagittal ramus osteotomy	20	10	
Le Fort I osteotomy	30	10	
Genioplasty	5	3	
Distraction treatment of the facial skeleton		3	
SUM			<b>91</b>

<b>Child</b>	<b>Minimum number</b>		
	<b>Main operator</b>	<b>Assistant</b>	<b>Total</b>
Mandible fractures	5	5	
Maxilla/zygoma fracture	5	5	
Dentoalveolar injury	10		
Orbital fracture	5	5	
SUM			<b>40</b>

Special techniques/animation	Minimum number		
	Main operator	Assistant	Total
Virtual planning and production of PSI to the face		3	
Use of intraoperative navigation		3	
SUM			6

Craniofacial surgery	Minimum number		
	Main operator	Assistant	Total
Assistance with craniofacial procedures		5	
SUM			5

Surgical treatment of salivary gland disorders	Minimum number		
	Main operator	Assistant	Total
Excision of the submandibular gland		5	
Removal of salivary stones	3	3	
Treatment of tumors		5	
Treatment of mucocele/ranula	5	3	
SUM			24

Oculoplastic procedures	Minimum number		
	Main operator	Assistant	Total
Eyelid reconstruction after trauma		5	
Orbital decompression	5	5	
Correction of enophthalmus / hypoglobus	3	5	
Entropion, ectropion correction		5	
Canthopexy/canthoplasty	3	5	
SUM			36

Aesthetic interventions/sequestration	Minimum number		
	Main operator	Assistant	Total
Facelift		5	
Forehead lift		5	
Rhinoplasty on damaged tissue or in connection with orthognathic surgery	3	5	
Blepharoplasty	5	3	
Alloplastic implants: forehead, periorbita, maxilla, zygoma and mandible	5	5	
Autologous fat injection, liposuction	5	5	
SUM			46

## OTHER RECOMMENDED LEARNING ACTIVITIES

16.07.2018

### **SUPERVISED CLINICAL WORK (APPRENTICESHIP)**

Reflective learning that does not distinguish between learning and application of what has been learned. Takes place through participation in a hospital (or in a large clinic): in the ward, in the emergency department, in the operating room, during a call-out, etc. Based on more experienced colleagues continuously instructing, guiding, supervising and advising. Involves mutual commitment between "master" and LiS over longer periods of time. Typically, LiS performs tasks that are at the upper limit of temporary level of competence, and through this shows progression.

### **SELF-STUDY**

Acquires theoretical knowledge from scientific articles, textbooks, internet...etc.  
Defines learning needs, formulates small learning goals, finds resources and methods to achieve these, and can evaluate the results.

### **TASK**

Independently collect data, create and assess a research question. May be related to clinical work or review of scientific sources.  
For example, a task can be carried out as a quality improvement project, scientific project, teaching assignment, literature study, etc. Must not have the scope of a major scientific work for publication in a journal.

### **IN-HOUSE TRAINING IN THE DEPARTMENT**

Regular teaching in the department where all doctors are included in rolling topics to be presented, and where each session ends in professional reflection and discussion.

**RECOMMENDED FORMS OF EVALUATION/COMPETENCE ASSESSMENT**

16.07.2018

**STRUCTURED OBSERVATION IN THE CLINIC****CASE BASED DISCUSSION (CBD) / PRESENTATION IN DEPARTMENT**

Presentation and review of a patient pathway (journal) OR topic chosen by the LiS or supervisor, which forms the basis for a learning and evaluation discussion within a specific subject area. A case is chosen for the relevant competence and the student prepares a short presentation for the main supervisor and/or colleagues. Record keeping and presentation is commented on and discussed. A case study can illustrate and cover several sub-objectives.

**OSATS (Objective Structured Assessment of Technical Skills)**

Structured competence assessment of technical skills. Uses a separate form that assesses surgical technique. To be filled in by a qualified specialist or experienced LiS.

**STRUCTURED COLLEGIAL ASSESSMENT (Mini CEX - Mini Clinical Examination Exercise)**

An assessment based on observation of the LiS in daily clinical activities, supplemented by his/her own theoretical justification for these activities. Mini CEX can be used to evaluate situations where the LiS interacting with patients or other personnel in the workplace. See separate form.

**360-DEGREE FEEDBACK**

A structured and constructive assessment with feedback in the areas of communicator, collaborator, manager/administrator and professional. Evaluated 4 times during the education. Completed by several colleagues from different occupational groups. See explanation on separate form.

**PORTFOLIO/PROCEDURE LIST**

Supervision/assessment of a specific procedure/knowledge objective is documented by signature in a separate book/form, When a predetermined level of competence is achieved, the main supervisor signs for the achievement of the specific competence(s) in the objective description.  
In the evaluation of pure skills, it is advantageous to use forms (OSATS).

**STRUCTURED COUNSELING SESSION**

Conversation based on a predetermined topic. The purpose of the conversation is to map theoretical knowledge and cognitive reflective ability. Carried out together with the main supervisor.

**APPROVED COURSE/APPROVED FOCUSED STAY AT A HOSPITAL/CLINIC. OPTION. WITH TEST**

Written documentation from the course leader or head of department.

**EVALUATION PANEL**

The evaluation panel consists of at least the head of department, the medical director and the supervisor. Possibly a collegium relevant to the activity. This will evaluate whether the main learning objectives for each topic have been met, based on a overall assessment of evaluated milestones.

**THE SPECIALTY COMMITTEE'S PROPOSAL FOR LEARNING OBJECTIVES WITH ASSOCIATED EXPLANATORY TEXT, LEARNING ACTIVITIES AND FORMS OF ASSESSMENT**

16.07.2018

	THE SPECIALTY COMMITTEE'S PROPOSAL	THE SPECIALTY COMMITTEE'S PROPOSAL	THE SPECIALTY COMMITTEE'S PROPOSAL	THE SPECIALTY COMMITTEE'S PROPOSAL
Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
<b>Traumatology</b>				
MAX-001	Master surgically established airway in acute and elective situations.		Clinical work under supervision Course Interdepartmental teaching	Structured observation in the clinic OSATS Logbook Course test
MAX-002	Independently be able to collaborate with and take a leadership role in trauma teams for major facial injuries.		Clinical work under supervision Intra-departmental teaching	Structured observation in the clinic 360 degree feedback Structured counseling session
MAX-003	Independently coordinate and plan for the trauma patient with a view to optimal treatment results.		Clinical work under supervision Course Interdepartmental teaching	Structured observation in the clinic Case review Structured peer review (Mini-CEX) 360 degree feedback Structured supervisor interview Course test
MAX-004	Independently be able to surgically manage hard and soft tissue injuries to the face, including surgical access to the face and neck.		Clinical work under supervision Self-study Course Interdepartmental teaching	Structured observation in the clinic OSATS Logbook Course test
MAX-005	Have knowledge of the principles of sequential treatment of the multi-trauma patient.		Self-study Assignment Course Interdepartmental teaching	Structured supervisor interview Course test
MAX-006	Independently assess fracture morphology and adequately initiate treatment of the different types conservatively or surgically.		Clinical work under supervision Self-study Course Interdepartmental teaching	Structured observation in the clinic Case review Structured peer review (Mini-CEX) OSATS Logbook Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-007	Have knowledge of the principles of rehabilitation of patients with head injuries.		Self-study Internal teaching in the department Focused stay 1 week at a rehabilitation institution	Structured observation in the clinic Case review Logbook Approved focused stay
MAX-008	Independently be able to talk to relatives of a patient with self-inflicted injury with suicidal intent.		Clinical work under supervision	Structured observation in the clinic 360 degree feedback Structured counseling session
MAX-009	be able to independently explain to relatives and patients about the extent of the injury and the treatment that has been performed and about the postoperative course and prognosis.		Clinical work under supervision	Structured observation in the clinic 360 degree feedback Structured counseling session
MAX-010	Have knowledge of metabolic responses to trauma and their clinical implications: <ul style="list-style-type: none"> <li>• neuro-endocrine response</li> <li>• inflammatory mediators</li> </ul>		Self-study Assignment Course Interdepartmental teaching Focused stay 3 weeks in intensive care unit	Structured observation in the clinic Case review Structured supervisor interview Course test Approved focused stay
MAX-011	Have knowledge of the healing process after traumatic injuries, including: <ul style="list-style-type: none"> <li>• soft tissue</li> <li>• leg</li> <li>• cartilage</li> </ul>		Self-study Internal teaching in the department	Structured counseling session
MAX-012	Have knowledge of monitoring and intensive care of the trauma patient: <ul style="list-style-type: none"> <li>• nutritional regime after trauma</li> <li>• consequences of malnutrition</li> <li>• metabolic response to catabolism and trauma</li> <li>• enteral nutrition/parenteral nutrition</li> </ul>		Self-study Assignment Course Interdepartmental teaching Focused stay 3 weeks in intensive care unit	Structured observation in the clinic Case review Structured peer review (Mini-CEX) OSATS 360-degree feedback Structured supervisor interview Course test Approved focused stay
MAX-013	Independently perform a focused neurological examination and evaluation of the trauma patient.		Clinical work under supervision Self-study Interdepartmental teaching Focused stay 3 weeks in intensive care unit	Structured observation in the clinic Case review Structured peer review (Mini-CEX) OSATS 360-degree feedback Structured supervisor interview Course test Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-014	Have knowledge of triage of multi-trauma patients.		Clinical work under supervision Course Interdepartmental teaching	Structured observation in the clinic Structured peer assessment (Mini-CEX) Structured supervisor interview Course test
MAX-015	Independently detect coexisting eye injuries in patients with facial fractures and perform a simple ophthalmologic assessment.		Clinical work under supervision Self-study Interdepartmental teaching	Structured observation in the clinic Case review Logbook Structured supervisor interview Course test
MAX-016	Have knowledge of the challenges of facial fractures in the geriatric population, including: <ul style="list-style-type: none"> <li>• Tissue changes in the aging face</li> <li>• systemic considerations</li> <li>• special considerations, including blood supply to the jaw and the management of atrophic jaw fractures</li> <li>• bone graft of atrophic jaw ridge</li> <li>• postoperative complications</li> </ul>	Systemic considerations mean comorbidity in the patient population.	Self-study Assignment Internal teaching in the department	Structured observation in the clinic Case review Structured counseling session
MAX-017	Independently assess injuries to structures that require special treatment, including salivary glands and nerves in the face.		Clinical work under supervision Internal teaching department	Structured observation in the clinic Case review Structured supervisor interview Course test Approved focused stay
MAX-018	Have knowledge of the most common intracranial conditions in trauma.		Self-study Course Internal teaching department	Structured observation in the clinic Case review Structured counseling session
MAX-019	Have knowledge of the pathophysiology of gunshot wounds.		Self-study Course Internal teaching department	Structured supervisor interview Course test
<b>Head and neck anatomy and embryology</b>				
MAX-020	Have good knowledge of blood supply to the head/neck and be able to use this knowledge for flap reconstruction in maxillofacial surgery.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-021	Have good knowledge of fascial planes in the head/neck and understand their importance in connection with the spread of infection.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-022	Have knowledge of common anatomical variants and their clinical relevance, and be able to identify them.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-023	Have good knowledge of cranial osteology including extra- and intracranial landmarks.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-024	Have good knowledge of the articulating bones of the skull including orbita, nasal aperture, skull base and pterygopalatine fossa.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-025	Have knowledge of cervical vertebrae, their articulation and soft tissue attachment.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-026	Have a good knowledge of bone hyoid and soft tissue attachment.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-027	Have a good knowledge of the anatomy of the neck, including surface anatomy, skin innervation, superficial and deep structures.		Clinical work under supervision Self-study Assignm ent Course Residential education department Focused stay	Portfolio/logbook Structured supervisor interview Course test Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-028	Have a good knowledge of the superficial anatomy and deep masticatory structures of the face.	The superficial anatomy of the face means: mimic muscles, nerves, arteries, veins, lymph, parotid gland. Deep masticatory structures include: masticatory muscles, temporomandibular joint, infratemporal fossa.	Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-029	Have knowledge of the scalp including innervation and blood supply.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-030	Have good knowledge of the anatomy and physiology of the orbit including the eye, eyelids, lacrimal apparatus, extraocular muscles, nerves, arteries and veins in the orbit.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-031	Have good knowledge of the anatomy of the external nose and nasal cavity, sinus system and pterygopalatine fossa.		Clinical work under supervision Self-study Assignment Course Residential education department Focused stay	Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-032	Have good knowledge of oral anatomy including teeth, oral mucosa, salivary glands, oral musculature and palate musculature, including innervation, blood supply and lymphatic drainage.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-033	Have good knowledge of the anatomy and function of the pharynx (nasopharynx, oropharynx and hypopharynx) as well as the musculature, innervation and blood supply to the area.		Self-study Assignment Course Residential education department Focused stay	Portfolio/logbook Structured supervisor interview Course test Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-034	Have good knowledge of the importance and timing of different embryological stages for head/neck development, and possible anomalies and deformities that may occur in relation to this.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-035	Have good knowledge of the growth and development of the skull from fetus, child and adult.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-036	Have good knowledge of the growth and development of hard and soft tissues in the face, including theories of facial growth as a functional matrix.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-037	Have good knowledge of the differences and clinical relevance of cartilaginous and membranous bone growth.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-038	Have knowledge of the anatomy of the choroid plexus and cerebrospinal fluid.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-039	Have knowledge of blood supply to the central nervous system including the blood-brain barrier.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-040	Have knowledge of the skull base and contents of the anterior/middle and posterior cranial fossae and meninges.		Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-041	Be able to independently explain the risks of surgery to patients based on anatomical principles.		Self-study Assignment Course Internal teaching dept	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-042	Be able to describe the anatomy and physiology of the salivary glands.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-043	Be able to explain the anatomy of the trigeminal nerve and its course.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-044	Be able to explain the anatomy of the facial nerve and reconstruction principles.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-045	Understand the anatomy of the infratemporal fossa and its significance in skull base tumors.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured supervisor interview Course test
MAX-046	Understand the anatomy of the maxillary and maxillary sinus and their significance in reconstruction with prosthesis/epithesis.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
<b>Orofacial pain</b>				
MAX-047	Have knowledge of the different theories about facial pain.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-048	Have knowledge of the biological basis of facial pain, including neuroanatomy and neurophysiology.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-049	Independently take a medical history, examine and diagnose patients with facial pain.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured supervisor interview Course test
MAX-050	Have knowledge of the different pharmacological mechanisms of pain management, including analgesics, anesthetics, antiepileptics and psychotropic drugs.		Clinical work under supervision Self-study Assignment Course Internal teaching dept	Portfolio/logbook Structured counselling session Course test
MAX-051	Have good knowledge of the role of other clinicians in the management of facial pain and, if necessary, be able to perform interdisciplinary collaboration or refer to the right body.		Self-study Assignment Course	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
MAX-052	Independently manage people with chronic facial pain in collaboration with other clinicians.		Clinical work under supervision Self-study Task	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
MAX-053	Have knowledge of the role of pain clinics for chronic pain, and the management of these.		Clinical work under supervision Self-study Task	Portfolio/logbook Structured supervisor interview Course test
MAX-054	Have knowledge of cryotherapy in the treatment of chronic facial pain.		Clinical work under supervision Self-study Task Focused stay	Portfolio/logbook Structured supervisor interview Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-055	Have knowledge of the therapeutic use of nerve blocks for facial pain.		Clinical work under supervision Self-study Task	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-056	Independently know the therapeutic use of Botox in the management of facial pain.		Clinical work under supervision Self-study Assignment Internal teaching dept.	Structured observation in the clinic case review OSATS Portfolio/logbook Structured counseling session
MAX-057	Independently manage the multi-operated temporomandibular joint patient with chronic facial pain.		Clinical work under supervision Self-study Assignment Internal teaching dept.	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook
MAX-058	Have knowledge of microsurgery as a treatment for trigeminal neuralgia.		Self-study Assignment Internal teaching dept	Portfolio/logbook Structured supervisor interview Approved focused stay
MAX-059	Independently diagnose psychogenic pain including atypical facial pain.		Clinical work under supervision Self-study Assignment Internal teaching dept.	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
<b>Oncology</b>				
MAX-060	Have good knowledge of the pathogenesis and etiology of oral cancer.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test Approved focused stay

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-061	Independently examine and diagnose patients with potential oral cancer.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-062	Be able to communicate with patients and their relatives about procedures, treatment goals, limitations and risks associated with the treatment.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
MAX-063	Have knowledge of the basic principles of surgery in the treatment of oral cancer.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-064	Have knowledge of diagnosis, assessment and staging of oral cancer.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-065	Independently be able to participate actively in a multidisciplinary team in operative procedures during surgical treatment of oral cancer.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test Approved focused stay

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-066	Recognize the use of radiotherapy in oral cancer.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-067	Have good knowledge of indications and techniques for segmental/cortical mandibulectomy and maxillectomy.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-068	Independently perform tumor resection in soft tissue, including cheeks, mucosa, tongue and floor of the mouth.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counselling session Course test Approved focused stay
MAX-069	Independently perform tumor resection in the mandible, including ramus, angulus, symphysis and condyle.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counselling session Course test Approved focused stay
MAX-070	Independently perform the following reconstructions: <ul style="list-style-type: none"> <li>• palate rotation patch</li> <li>• facial myomucosal flap</li> <li>• buccal grease brush app</li> <li>• temporal lobe</li> </ul>		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Approved focused stay
MAX-071	Have knowledge of tongue tumors requiring hemiglossectomy.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-072	Independently perform incisional biopsy and fine needle aspiration.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-073	Be able to discuss the use of radiation therapy for oral cancer.		Clinical work under supervision Self-study Internal teaching department Assignment Course	Portfolio/logbook Structured counselling session Course test Approved focused stay
MAX-074	Independently perform indirect and flexible laryngoscopy.		Clinical work under supervision Self-study Internal teaching department	Portfolio/logbook Structured supervisor interview Approved focused stay
MAX-075	Have good knowledge of surgical treatment of the throat in oral cancer (levels 1-5).		Self-study Assignment Course Internal teaching department	Structured supervisor interview Course test Approved focused stay
MAX-076	Have knowledge of postoperative follow-up of cancer patients including management of complications.		Clinical work under supervision Self-study Course Internal teaching department	Structured observation in the clinic Case review 360 degree feedback Portfolio/logbook Structured counseling session Course test Approved focused stay
MAX-077	Independently perform a maxillectomy.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-078	Have knowledge of elective neck dissection.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-079	Know the principles of complex reconstruction for oral cancer.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test Approved focused stay
MAX-080	Independently manage patients with osteoradionecrosis.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
<b>Reconstructive maxillofacial surgery</b>				
MAX-081	Be able to inform the patient and relatives about procedures, realistic expectations, limitations and complications associated with reconstructive surgery.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Structured peer observation Assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
MAX-082	Have knowledge of appropriate reconstructive techniques to achieve predictable results and optimal function.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-083	Have knowledge of the advantages and disadvantages of prosthetic reconstruction versus vital reconstruction in patients with oral cavity defects.		Self-study Assignment Internal teaching department	Portfolio/logbook Structured supervisor interview Course test

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-084	Have knowledge of the advantages and disadvantages of prosthetic reconstruction versus vital reconstruction in patients with defects in external parts of the face.	For example, eye, nose and ear.	Self-study Assignment Internal teaching department	Portfolio/logbook Structured supervisor interview Course test
MAX-085	Have knowledge of different alloplastic materials used in facial reconstruction and their indications for use, including risks, advantages and disadvantages.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test
MAX-086	Have knowledge of the differences in healing of free and vascularized hard and soft tissue grafts in the face.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-087	Understand the implications of growth for children in need of reconstruction.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-088	Be able to describe indications for adjuvant techniques in reconstructive surgery.	For example, hyperbaric oxygenation, bone morphogenetic protein, etc.	Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-089	Have knowledge of how surgery, radiation therapy, chemotherapy and medical conditions affect the outcome and complications of reconstructive surgery.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-090	Have knowledge of the anatomical basis of lobes in the maxillofacial region.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test
MAX-091	Have knowledge of donor sites for harvesting nonvascularized grafts.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-092	Have knowledge of the anatomical basis for harvesting vascularized flaps for use in the maxillofacial region.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test
MAX-093	Be able to participate in the harvesting of the most common free flaps for facial reconstruction.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Course test
MAX-094	Independently identify and spare the facial nerve.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Course test
MAX-095	Independently assess the need for reconstruction of hard tissue, soft tissue, hard/soft tissue.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-096	Independently know how to use implants in reconstructive surgery.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test
MAX-097	Master techniques for orbital reconstruction.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-098	Independently participate in MDT for facial reconstruction with free flaps.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-099	Be able to independently reconstruct the marginal part of the corpus mandibula in defects due to osteoradionecrosis.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-100	Have knowledge of the aesthetic perspective of facial reconstruction and placement of surgical approaches.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test Approved focused stay
MAX-101	Have a good knowledge of the advantages and disadvantages of different intraoral incisions.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-102	Have knowledge of conditions that cause facial asymmetry including post-traumatic deformities.	For example, hemifacial hypertrophy, hemifacial atrophy, hemimandibular hypertrophy, etc.	Clinical work under supervision Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-103	Independently perform temporal and coronal flaps.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-104	Independently perform surgical access to the orbit.	Examples of this are via blepharoplasty, transconjunctival, mid-eyelid, infraorbital, subciliary, lateral eyebrow, etc.	Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counselling session Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-105	Independently perform reconstruction/correction of orbital deformities including dystopia and enophthalmos.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-106	Have good knowledge of the principles and techniques of distraction osteogenesis.		Self-study Assignment Internal teaching department	Portfolio/logbook Structured supervisor interview Course test
MAX-107	Independently perform surgical access to the midface including nasal bone and cartilaginous nose, Weber-Ferguson and face demarcation access.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
<b>Maxillofacial preprosthetic surgery and implant treatment</b>				
MAX-108	Be able to choose the right method for implant reconstruction based on the patient's symptoms and needs.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test Approved focused stay
MAX-109	Independently examine and diagnose patients in need of preprosthetic surgery and implants.		Clinical work under supervision Self-study	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-110	Independently contribute to the preparation of a treatment plan including pre-prosthetic surgery and implant surgery together with the prosthodontist/dentist		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-111	Independently perform pre-prosthetic surgery including: <ul style="list-style-type: none"> <li>• frenectomy</li> <li>• remove prosthetic hyperplasia</li> <li>• submucosal vestibuloplasty</li> <li>• vestibuloplasty with skin or mucous membrane</li> <li>• mouth floor lowering</li> <li>• reduction of linea mylohyoidea</li> <li>• reduction of tubes</li> <li>• repositioning of the mental nerve</li> <li>• augmentation of bone tissue in the upper and lower jaw</li> <li>• alveolar plasty</li> <li>• secondary alveolar camplasty</li> <li>• tuberoplasty</li> <li>• excision of tubercles and papillary hyperplasia</li> </ul>		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-112	Independently perform implant surgery with all approved and commonly used implant systems in Norway.		Clinical work under supervision Self-study Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test
MAX-113	Independently perform local bone grafting for implants to the maxilla and mandible.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test
MAX-114	Have good knowledge of the theory of dental implant placement and related issues.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-115	Have good knowledge of soft tissue in relation to dental implants.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-116	Independently perform navigation in relation to implant placement.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test
MAX-117	Have knowledge of zygomaticus implants.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counselling session Course test
MAX-118	Have knowledge of medical issues that may affect implant treatment.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-119	Have knowledge of the anatomy and pathophysiology of bone loss due to tooth loss.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-120	Be able to explain the principles of bone growth stimulation.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured counselling session Course test
MAX-121	Be able to independently communicate with the patient and relatives regarding procedures, potential risks associated with preprosthetic surgery and implant surgery that provide a basis for informed consent.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic 360 degree feedback Portfolio/logbook Structured supervisor interview Course test
MAX-122	Have knowledge of osseointegration and loading.		Self-study Assignment Course Internal teaching department	Portfolio/logbook Structured supervisor interview Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-123	Independently manage postoperative complications related to implants.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test
MAX-124	Independently augment the alveolar ridge.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test
MAX-125	Independently be able to lateralize the inferior alveolar nerve.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test
MAX-126	Independently know sinus lift procedures.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test
MAX-127	Independently perform alveolar ridge distraction.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test
MAX-128	Independently perform orthognathic surgery in combination with implants.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counselling session Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-129	Independently perform distraction osteogenesis for repositioning the jaw and segments of the jaw.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Course test
MAX-130	Independently handle irradiated bone.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test
MAX-131	Independently install extraoral implants.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
<b>Dentoalveolar surgery</b>				
MAX-132	Independently be able to surgically remove erupted, unerupted and retained teeth.		Clinical work under supervision Self-study Intern teaching department Focused stay	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured supervisor interview Approved focused stay
MAX-133	Be able to independently reduce teeth.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-134	Be able to independently treat local odontogenic infections.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-135	Independently diagnose and treat odontogenic cysts with related pathological conditions.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-136	Independently diagnose and surgically treat periradicular pathology including performing apicoectomy.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-137	Know the pharmacological treatment of odontogenic infections and pain.		Self-study Assignment Internal teaching department	Portfolio/logbook Structured counseling session
MAX-138	Be able to independently design/lay mucoperiosteal flaps for oral surgery procedures.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-139	Have knowledge of nerve damage during removal of retained wisdom teeth.		Self-study Assignment Intern teaching department Focused stay	Portfolio/logbook Structured supervisor interview Approved focused stay
MAX-140	Independently perform hemisection of the tooth, related to trauma and acute infections.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-141	Independently perform periodontal surgery related to acute conditions.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-142	Independently perform guided tissue regeneration.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-143	Have knowledge of the microbiology of odontogenic infections.		Clinical work under supervision Self-study Assignment Internal teaching department	Portfolio/logbook Structured counseling session
MAX-144	Independently assess the focus and severity of a patient with a spreading odontogenic infection.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-145	Independently perform incision and drainage of odontogenic infections with extra- and intraoral manifestation.	For example, submandibular, buccal and palatal.	Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review - Portfolio/logbook Structured counseling session
MAX-146	Independently diagnose and initiate medical and surgical treatment of osteomyelitis of the jaws.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-147	Be able to independently assess airways and secure them in patients with deep throat infections.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-148	Be able to work independently in a team to achieve an appropriate response in the treatment of patients with fulminant and life-threatening head and neck infections such as necrotizing fasciitis and rhinocerebral zygomycosis.		Clinical work under supervision Self-study	Structured observation in the clinic 360 degree feedback Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-149	Independently perform vestibuloplasty including soft tissue grafts and donor site treatment.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-150	Be able to independently perform lowering of the floor of the mouth with and without skin, and mucosa graft.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-151	Independently perform excision of excess tissue.	For example, at flabby ridge.	Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
MAX-152	Independently manage dentoalveolar issues in medically compromised patients, including those of advanced chronological age.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
<b>Jaw joint</b>				
MAX-153	Have knowledge of the anatomy and physiology of the temporomandibular joint.		Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-154	Independently assess and differentiate between the various symptoms and signs of temporomandibular joint disease.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-155	be able to independently select, order and interpret radiological examinations of the temporomandibular joint.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-156	Be able to independently manage the various non-surgical treatment modalities for TMJ disorders.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-157	Have knowledge of the indications for surgical intervention of the temporomandibular joint.		Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-158	Have knowledge of the various surgical procedures for the temporomandibular joint.		Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-159	Independently perform adequate follow-up of patients who have undergone temporomandibular joint surgery, including management of possible complications.		Clinical work under supervision Internal teaching department	Structured observation in the clinic Structured peer observation Assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
MAX-160	Have knowledge of the treatment of mandibular hypomobility, including TMJ ankylosis.		Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-161	Have knowledge of the treatment of mandibular hypermobility.		Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-162	Have knowledge of the multi-operated temporomandibular joint patient.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-163	Have knowledge of systemic arthritis as it may manifest itself in the temporomandibular joint.		Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-164	Have knowledge of degenerative processes in the temporomandibular joint.		Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-165	Independently perform repositioning of the temporomandibular joint.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic OSATS Structured peer assessment (Mini CEX) Portfolio/logbook
MAX-166	Independently perform intra-articular injections, aspiration and arthrocentesis of the temporomandibular joint.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic OSATS Portfolio/logbook
MAX-167	Be able to perform diagnostic arthroscopy under supervision.		Clinical work under supervision Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Course test
MAX-168	Be able to assist in the insertion of a temporomandibular joint prosthesis.		Clinical work under supervision Self-study Course Internal teaching department	Structured observation in the clinic OSATS Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-169	Have knowledge of the medical and surgical management of patients with chronic pain and dysfunction syndromes after failed TMJ treatment.		Clinical work under supervision Self-study Assignment Internal teaching department	Structured observation in the clinic Case review 360 degree feedback Portfolio/logbook Structured counseling session
MAX-170	Independently manage patients with chronic temporomandibular joint disorders that should not be managed surgically.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Structured peer observation Assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
<b>Sinuses</b>				
MAX-171	Have knowledge of the anatomy and physiology of the nasal and sinus cavities.		Self-study Assignment Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-172	Have good knowledge of detailed differential diagnostics for sinus disorders.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-173	Independently be able to order and interpret radiological examinations of the nose and sinuses.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-174	Independently discuss the differential diagnoses of sinusitis and be able to exclude odontogenic causes.		Clinical work under supervision Self-study Assignm ent Course Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-175	Have knowledge of up-to-date conservative and surgical management of sinus disorders.		Self-study Assignment Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-176	Independently diagnose and treat oro-antral and oro-nasal communication, conservatively or surgically.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Structured peer observation assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
MAX-177	Be able to independently manage the nose and sinuses in cases of maxillofacial trauma and orthognathic surgery.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-178	Independently manage the atrophic maxilla with regard to bone grafting procedures in the nose and sinuses.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-179	Independently remove displaced teeth from the maxillary sinus including the use of simple endoscopic sinus surgery (ESS).		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-180	Have knowledge of endoscopic rhinoscopy, including examination of the nasal cavity and nasopharynx in connection with tumor pathology and cleft surgery.		Self-study Internal teaching department Focused stay	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-181	Have knowledge of malignant and benign sinus pathology.		Self-study Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-182	Have knowledge of the microbiology of sinus infections.		Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-183	Have knowledge of the treatment of malignant sinus pathology, including maxillectomy, reconstruction and obturation.		Self-study Assignment Intern teaching department Focused stay	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-184	Be able to independently perform reconstruction of defects in the frontal sinus including handling of drainage problems.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic OSATS Structured peer assessment (Mini CEX) Portfolio/logbook
MAX-185	Have knowledge of endoscopic reconstruction of the orbital floor.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-186	Have knowledge of the role of drugs in the management of sinus disorders and in sinus surgery.		Clinical work under supervision Self-study Intern teaching department Focused stay	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-187	Independently be able to clinically and radiologically assess the risk of maxillary sinus infection in dentoalveolar surgery.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-188	Have knowledge of the development of oro-nasal fistula in both penetrating and non-penetrating trauma to the palate.		Self-study Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test
MAX-189	Under supervision, be able to perform simple surgery on the nasal septum and inferior concha.		Clinical work under supervision Internal teaching department Focused stay	Structured observation in the clinic OSATS Portfolio/logbook

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-190	Independently perform rigid and flexible rhinoscopy.		Clinical work under supervision Internal teaching department Focused stay	Structured observation in the clinic Case review OSATS Portfolio/logbook
MAX-191	Independently manage persistent/chronic oro- antral fistula.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured counseling session
<b>Endodontics</b>				
MAX-192	Have knowledge of the anatomy and physiology of the pulp-dentin organ and apical periodontium.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-193	Have knowledge of the immunopathological aspects of pulpal and apical periodontal disease.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-194	Have knowledge of the basic parts of the endodontic armamentarium including root canal materials.		Self-study Assignment Course Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-195	Have knowledge of the etiology and pathogenesis of pulpal diseases and of primary, persistent and secondary apical.		Self-study Assignment Course Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-196	Have knowledge of treatment options for reversible and irreversible pulpitis, primary, persistent or secondary apical periodontitis.		Self-study Assignment Course Focused stay at the dental unit	Portfolio/logbook Approved focused stay

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-197	Have knowledge of endodontic radiology.		Self-study Assignment Course Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-198	Have knowledge of the microbiology of endodontic infections.		Self-study Assignment Course Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-199	be able to independently perform diagnostics and emergency treatment of traumatized teeth in the adult dentition.		Clinical work under supervision Self-study Assignment Course Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-200	Have knowledge of the advantages, disadvantages, possible complications and the likely outcome of surgical endodontic treatment.		Self-study Assignment Course Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-201	Have knowledge of postoperative follow-up after surgical endodontic treatment.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-202	Have knowledge of conditions suitable for surgical endodontic treatment.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-203	Have knowledge of dental resorption conditions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-204	Independently be able to communicate effectively in writing and orally with other participants in a health collaboration on patients with specific endodontic problems.		Self-study Assignment Focused stay at the dental unit	Structured observation in the clinic Structured peer observation Assessment (Mini CEX) Approved focused stay
<b>Cariology</b>				
MAX-205	Have knowledge of the composition of saliva and the concept of 'saliva clearance' in relation to caries.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-206	Have knowledge of the characteristics of the most common cariogenic microorganisms.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-207	Have knowledge of how diet affects the caries picture.	One example is the importance of the composition and delivery of the diet.	Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-208	Be familiar with the most common sugar substitutes and their cariological significance.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-209	Have knowledge of the microbiological basis for the development of carious lesions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-210	Have knowledge of the possibilities and principles of cosmetic/aesthetic dentistry.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-211	Have knowledge of biofilm and the principles of biofilm formation.	For example, plaque structure and metabolism and the ecological plaque hypothesis.	Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-212	Have knowledge of the plaque hypothesis and which bacteria are involved in the development of caries.	Example are conditions that affect the pathogenicity of plaques.	Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-213	Have knowledge of the use of dental biomaterials (i n c l u d i n g dental restorative materials), their indications for use and guidelines for application.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-214	Be familiar with the concepts of caries experience, caries prevalence and incidence, caries risk, caries activity and caries progression.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-215	Have knowledge of the composition, physiological functions and normal variations of saliva.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-216	Have knowledge of the role of saliva in the development of caries and erosion.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-217	Have knowledge of the clinical consequences of hyposalivation, as well as preventive and palliative treatment.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-218	Be familiar with the concepts of the pellicle and the principles of pellicle formation and the clinical relevance of the pellicle.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-219	Have knowledge of how differences in the structure and composition of enamel, dentin and cement affect the development of caries.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-220	Have knowledge of typical localizations and the clinical and radiological picture of primary caries and secondary caries.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-221	Have knowledge of dentin reactions in acute and chronic caries.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-222	Have knowledge of pulp response to caries and biomaterials.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-223	Have knowledge of the general and local use of fluoride in caries prevention and treatment (interseptive caries treatment).		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-224	Have knowledge of the most common tooth wear injuries, including erosion, abrasion, attrition and resorption and their causes.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-225	Have knowledge of the most common mineralization disorders in the enamel.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-226	Have knowledge of the principles, means and methods of chemical plaque control.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-227	Have knowledge of the principles of dentin bonding of restorative materials.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-228	Have knowledge of additives in oral care products.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-229	Have knowledge of common oral causes of halitosis, diagnosis and principles of treatment.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-230	Have knowledge of social security reimbursements that are triggered by the treatment of patients with certain diagnoses.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-231	Have knowledge of fluoride's mechanisms of action and side effects.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-232	Have knowledge of risk factors, diagnosis, prevention and treatment of root caries lesions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-233	Have knowledge of the causes of tooth discoloration and treatment.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-234	Have knowledge of hypersensitivity/hypersensitivity and how to proceed in the diagnosis of hypersensitive teeth.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
<b>Dental radiology</b>				
MAX-235	Have knowledge of normal anatomical tooth and bone structures in dental images.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-236	Have knowledge of normal anatomical structures on panoramic X-ray and cephalogram.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-237	Independently perform 2D dental X-ray examinations.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-238	Independently assess various aspects that affect the image quality of intraoral radiographs.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-239	Independently recognize caries and marginal and apical periodontitis on radiographs and differential diagnostic conditions/normal anatomy.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-240	Have knowledge of the principles of radiological localization examinations.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-241	Have knowledge of the radiological characteristics of the most common jaw cysts, benign tumors and tumor-like conditions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
<b>Orthodontics</b>				
MAX-242	In consultation with an orthodontist, be able to diagnose all types of abnormalities in tooth eruption and occlusion through systematic examination of children at different ages.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-243	In consultation with a dentist, be able to assess the patient's treatment needs and decide which patients should be referred to a specialist in orthodontics and when treatment should be initiated.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-244	In an interdisciplinary team, be able to assess the need for orthodontic treatment of adults in consultation with a dental specialist.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-245	Have knowledge of the temporal relationship between general somatic development, jaw growth and dental development.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-246	Have knowledge of normal occlusion development.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-247	Be familiar with the identification of cephalometric measuring points and be able to interpret the most relevant variables.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-248	Be familiar with the treatment principles for the various malocclusions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-249	Have knowledge of tissue reactions in orthodontic treatment.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-250	Have knowledge of orthodontic materials and appliances.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-251	Have knowledge of combination therapy with orthognathic surgery.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-252	Have knowledge of preprosthetic orthodontics and orthodontic treatment for patients with periodontal disease.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
<b>Oral prosthetics</b>				
MAX-253	Have knowledge of different forms of indirectly produced dental restorations.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-254	Have knowledge of relevant replacement materials, their biocompatibility and technical properties.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-255	Have knowledge of preparation principles for full crowns, partial crowns, inlays and laminates.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-256	Have knowledge of biomechanical principles for construction and retention of fixed prostheses.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-257	Have knowledge of cements and cementation procedures for temporary indirectly fabricated dental restorations.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-258	Have knowledge of conventional and digital impression taking.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-259	Have knowledge of the principles for foundation anchoring.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-260	Have knowledge of the principles and use of an articulator for simulation of jaw movements.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-261	Have knowledge of how fixed prostheses are retained.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-262	Know the most common errors that can occur during impression taking.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-263	Have knowledge of microbial conditions related to prostheses.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-264	Have knowledge of functional forces acting on prostheses.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-265	Have knowledge of the most important factors that govern the choice of prosthetic form.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-266	Have knowledge of the most important factors that govern adaptation to prosthetic use.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-267	Have knowledge of general design principles for prostheses with regard to aesthetics, vertical and lateral stability.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-268	Have knowledge of retention and the risk of damage to the prosthesis and surface.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-269	Independently recognize mechanical defects in and around implant-anchored prostheses.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-270	Have knowledge of prognoses for different prosthetic solutions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-271	Have knowledge of phonetics in relation to prosthetic treatment.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
<b>Pedodontics</b>				
MAX-272	Have knowledge of the purpose and indication for different forms of pulp treatment in the primary and young permanent dentition, related to caries and trauma.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-273	Have knowledge of the indication and consequences of extraction of primary teeth and permanent teeth.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-274	Have knowledge of the epidemiology and etiology of dental injuries.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-275	Know how often and for how long dental injuries should be checked.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-276	Have knowledge of normal tooth development, tooth eruption and tooth decay in the primary and permanent dentition and deviations from normal (numerical and morphological).		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-277	Have knowledge of disorders in the structure and composition of dental tissues, the classification of anomalies and the consequences of treatment, including financial support schemes.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-278	Have knowledge of indications for extraction of primary and permanent teeth in children.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
<b>Periodontics</b>				
MAX-279	Be able to recognize and refer suspected periodontal disease.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-280	Have knowledge of the etiology and pathogenesis related to periodontal and peri-implant conditions and diseases, such as oral biofilm formation, its structure, composition and pathogenic relevance as well as the host response to oral biofilm.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-281	Have knowledge of the effect of occlusal loading on periodontal and peri-implant tissues.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-282	Have knowledge of the most commonly used classification of periodontal and peri-implant conditions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-283	Have knowledge of the etiology and pathogenesis of oral halitosis, and its relation to periodontal conditions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-284	Have knowledge of the effects of tobacco on periodontal and peri-implant conditions.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-285	Have knowledge of the principles of periodontal regeneration and bone regeneration.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
MAX-286	Have knowledge of therapeutic approaches and treatment of peri-implantitis.		Self-study Assignment Focused stay at the dental unit	Portfolio/logbook Approved focused stay
<b>Oral medicine</b>				
MAX-287	Independently examine, diagnose, assess and treat patients with benign and premalignant oral mucosal disorders, including <ul style="list-style-type: none"> <li>• cauterizing wounds</li> <li>• oral lichen planus</li> <li>• pemphigoid mucosa</li> <li>• pemphigus vulgaris</li> <li>• erythema multiforme</li> <li>• lupus erythematosus</li> <li>• oral dysesthesia</li> </ul>		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review OSATS Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-288	Independently participate in oral medicine clinical team activities and interdisciplinary pathology meetings.		Clinical work under supervision Self-study Course	Structured observation in the clinic Structured peer observation Assessment (Mini CEX) 360 degree feedback Portfolio/logbook Structured supervisor interview Course test

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-289	Have knowledge of oral mucosal disorders associated with or caused by viruses.		Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook
MAX-290	Be able to diagnose and treat independently: <ul style="list-style-type: none"> <li>• burning mouth syndrome</li> <li>• neuropathy and neuropathic pain in clinical practice</li> <li>• desquamative gingivitis as a manifestation of various disease processes</li> <li>• orofacial granulomatosis</li> <li>• Sjögren's syndrome</li> </ul>		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Portfolio/logbook
MAX-291	Independently assess, diagnose and manage patients with oral manifestations of fungal infections, viral infections, bacterial infections and dermatoses.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-292	Independently diagnose causes of endogenous and exogenous pigmentation of oral mucosa and periorally.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook
MAX-293	be able to independently order and interpret various samples/tests for the assessment of oral medicine diagnosis.		Clinical work under supervision Self-study Internal teaching department	Portfolio/logbook Structured supervisor interview Course test
MAX-294	Know when immunofluorescence is relevant to use and how to request the technique.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-295	Have knowledge of oral manifestations in syndromes and systemic diseases.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-296	Have knowledge of oral manifestations of deposition diseases, including amyloidosis and sarcoidosis.		Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook
<b>Orthognathic surgery</b>				
MAX-297	Have knowledge of the various developmental, acquired and traumatic conditions that lead to deformities/dysplasia of jaw relations and facial profile.		Clinical work under supervision Self-study Course Internal teaching department	Structured observation in the clinic Case review Structured supervisor interview Course test
MAX-298	Independently plan surgical treatment with a view to growth and development.		Clinical work under supervision Self-study Course Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-299	Have knowledge of the diagnostic modalities and planning procedures available.		Self-study Course Internal teaching department	Structured observation in the clinic Case review Structured supervisor interview Course test
MAX-300	Have knowledge of examination, diagnosis, planning and surgical treatment of patients with obstructive sleep apnea using bimaxillary orthognathly.		Clinical work under supervision Self-study Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured supervisor interview Course test
MAX-301	Independently perform clinical photography.		Self-study Assignment Course	Portfolio/logbook Course test
MAX-302	Independently perform surgical procedures using appropriate and established surgical techniques in the treatment of dentofacial deformities: <ul style="list-style-type: none"> <li>• mandibular osteotomies</li> <li>• maxillary osteotomies</li> <li>• zygoma osteotomies</li> </ul>		Clinical work under supervision Self-study Assignment ent Course Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-303	Independently perform simple cephalometric analysis.		Clinical work under supervision Self-study Course	Structured observation in the clinic Case review Portfolio/logbook Course test
MAX-304	Independently set up models in articulator and model, including model surgery.		Clinical work under supervision Self-study Task	Portfolio/logbook Structured counseling session
MAX-305	Have knowledge of the differences between dental and basal malocclusions and be able to distinguish between them clinically.		Clinical work under supervision Self-study Course Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) Portfolio/logbook Structured counseling session
MAX-306	Have knowledge of hypoplasia/hyperplasia of condyles, hypertrophy/hyperplasia of the mandible including asymmetries.		Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-307	be able to independently use grafting techniques and artificial materials in orthognathic surgery.		Clinical work under supervision Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook
MAX-308	Independently manage pre- and postoperative complications in orthognathic surgery.		Clinical work under supervision Internal teaching department	Structured observation in the clinic Case review 360 degree feedback Portfolio/logbook Structured counseling session
MAX-309	Have knowledge of special assessments for cleft lip/jaw/palate and craniofacial syndromes.		Self-study Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-310	Have knowledge of which patients are unsuitable for orthognathic surgery on non-somatic grounds and independently manage these patients through collaboration with other healthcare professionals/further referral.		Clinical work under supervision Self-study Internal teaching department	Structured observation in the clinic Case review Structured peer assessment (Mini CEX) 360 degree feedback Structured counseling session
MAX-311	Have knowledge of fixation methods used in orthognathic surgery including biomaterials.		Self-study Course Internal teaching department	Structured observation in the clinic Case review Portfolio/logbook Structured counseling session
MAX-312	Have knowledge of the technical challenges of orthognathic surgery on medically compromised patients such as obstructive sleep apnea, clefts and craniofacial syndromes.		Clinical work under supervision Internal teaching department	Structured observation in the clinic Case review OSATS Portfolio/logbook Structured counseling session
<b>Pathology in the head/neck region</b>				
MAX-313	Have knowledge of normal histology and be able to independently apply this to the treatment of conditions in the maxillofacial region.		Self-study Internal teaching Courses	Case study review Approved focused stay Course test
MAX-314	Have knowledge of the histopathology of various conditions in the maxillofacial region and be able to independently apply this to treatment.		Self-study Internal teaching Courses	Case study review Approved focused stay Course test
MAX-315	Have knowledge of histopathological features of common oral and maxillofacial conditions such as maxillary cysts, odontogenic tumors and salivary gland neoplasia.		Self-study Internal teaching Courses	Case study review Approved focused stay Course test
MAX-316	Be able to independently discuss and manage granulomatous conditions in the maxillofacial region.		Clinical work under supervision Internal teaching Self-study	Structured supervisor interview Structured peer assessment Case study review
MAX-317	Have knowledge of fibrous and systemic conditions affecting bone tissue.		Internal teaching Self-study	Case review

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-318	Have knowledge of the processes involved in determining the final diagnosis, including serology, microscopy, histopathology, immunohistochemistry.		Course Internal teaching	Course test Case review
MAX-319	Have the knowledge to compare indications and techniques for biopsy taking, including fine needle aspiration cytology, incisional biopsy, excisional biopsy, frozen section.		Internal teaching Self-study	Case review
<b>Pediatric maxillofacial surgery</b>				
MAX-320	be able to independently examine, investigate, treat and follow up children with maxillofacial problems.		Clinical work under supervision Internal teaching Self-study	Structured supervisor interview Structured peer assessment Case study review 360 degree feedback
MAX-321	Independently perform examinations using techniques appropriate to individual age and needs, and be able to interpret them.		Clinical work under supervision Self-study	Case review
MAX-322	Independently inform patients and relatives about procedures, realistic treatment goals and risks associated with the treatment of children.		Clinical work under supervision	Structured counseling session
MAX-323	Be able to independently treat children with regard to both physical and psychological needs.		Clinical work under supervision Self-study	Structured counseling session
MAX-324	Independently obtain informed consent from children and parents.		Clinical work under supervision	Structured counseling session
MAX-325	Have knowledge of pharmacological aspects of pain relief and antimicrobial therapy in children and be able to independently manage adequate pain relief in children.		Self-study Internal teaching	Case review
MAX-326	Have knowledge of the implications of surgery and trauma in the growing skeleton.		Internal teaching Self-study	Case review Structured counseling session
MAX-327	Know the pediatric maxillofacial team or lip/jaw/palate team and be able to provide a competent assessment and treatment when needed in such collaboration.		Clinical work under supervision Internal teaching Self-study	Structured supervisor interview Structured peer assessment Case study review Logbook

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-328	Have knowledge of the management of craniosynostosis and facial clefts, from birth to adult, describe the stages of treatment and treatment plan for surgical skeletal correction.		Self-study Internal teaching	Case review
MAX-329	Be able to independently perform dentoalveolar surgery for cleft lip/palate/palate syndrome.		Clinical work under supervision	Logbook OSATS
MAX-330	Be able to independently perform orthognathic surgery on the lip/jaw/palate/palate cleft/craniofacial team.		Clinical work under supervision	Logbook OSATS
MAX-331	be able to independently assess, diagnose and plan treatment for children with reduced jaw function or pathology in the temporomandibular joint.		Clinical work under supervision Internal teaching Self-study	Logbook OSATS Case review Structured peer review
MAX-332	Have knowledge of distraction osteogenesis for pediatric patients in general and especially for patients with upper airway obstruction.		Internal teaching Self-study	Case review
MAX-333	be able to independently assess and treat mandibular congenital asymmetry.		Clinical work under supervision Internal teaching Self-study	OSATS logbook Case review
MAX-334	Have knowledge of the principles for treating facial fractures in children and be able to manage fractures independently.		Clinical work under supervision Course Self-study Internal teaching	OSATS logbook Case review Structured peer review
MAX-335	Have knowledge of principles for interdisciplinary management of severe craniofacial injury.		Internal teaching Self-study	Case review
MAX-336	Know the principles for assessing upper airway obstruction in children and the anatomical challenges of tracheostomy in children.		Internal teaching Self-study	Case review
MAX-337	Independently manage cystic and odontogenic lesions in children.		Clinical work under supervision	OSATS logbook

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-338	Independently manage orofacial infections.		Clinical work under supervision	Logbook OSATS
MAX-339	Independently remove or expose retained or ankylosed teeth in children with syndromes or clefts.		Clinical work under supervision	Logbook OSATS
MAX-340	Have knowledge of the management of patients with osteogenesis imperfecta.		Internal teaching Self-study	Presentation in department
MAX-341	Independently perform surgery for fibro-osseous conditions.	An example of such a condition is fibrous dysplasia.	Internal teaching Self-study	Case review
MAX-342	Have knowledge of surgical management of hypodontia syndromes in an interdisciplinary team.	For example, in ectodermal dysplasia.	Internal teaching Self-study	Case review
MAX-343	Have knowledge of psychological and ethical treatment, balanced discussion with children and parents regarding the possibility of orthognathic surgery in patients with significant comorbidities (e.g. cystic fibrosis), reduced cognitive function, reduced life expectancy or religious beliefs that prevent potential treatment.		Clinical work under supervision Self-study	Structured counseling Structured peer review 360 degree feedback
MAX-344	Have knowledge of pre-surgical orthodontics and early orthodontic treatment. Have knowledge of the principles of primary cleft treatment: <ul style="list-style-type: none"> <li>• alveolar fissure</li> <li>• surgically assisted maxillary expansion</li> <li>• fistula closure</li> <li>• surgical management of maxillary cleft and related orthognathic surgery</li> <li>• alveolar cleft reconstruction for tooth repositioning</li> <li>• craniofacial implant treatment</li> <li>• ear and orbital prostheses</li> <li>• surgical protocol for the management of common craniofacial syndromes such as oto-auriculo-vertebral syndrome</li> <li>• craniosynostoses</li> </ul>		Internal teaching Self-study	Case review Presentation in department

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
<b>Maxillofacial prosthetics and techniques</b>				
MAX-345	Independently perform appropriate laboratory procedures and correct steps involved in the fabrication of maxillofacial models and splints.		Clinical work under supervision Internal teaching Self-study	Logbook OSATS Case review
MAX-346	Be able to independently create treatment plans that include appropriate application of newer technology, especially with regard to custom made prostheses and 3D biomodeling.		Internal teaching Self-study	Case review
MAX-347	Have knowledge of computer-assisted navigation planning and surgery, and be able to use navigation peroperatively.		Internal teaching Self-study Course	Case review Logbook Course test
MAX-348	Independently design and construct splints for palatal/maxillary surgery digitally		Clinical work under supervision Internal teaching Self-study	Case review Logbook
MAX-349	be able to independently use biomodels in maxillofacial surgery.		Clinical work under supervision Internal teaching Self-study	Case review Logbook
MAX-350	Have knowledge of the use of 3D biomodels in current maxillofacial surgery.		Internal teaching Self-study	Presentation in department Case review
MAX-351	Have knowledge of computer simulation in orthognathic surgery.		Internal teaching Self-study	Presentation in department Case review
MAX-352	Have knowledge of the use of alloplastic materials in reconstructive maxillofacial surgery.		Internal teaching Self-study	Presentation in department Case review
MAX-353	Have knowledge of the design and use of intraoral splints.	For example, in obstructive sleep apnea and temporomandibular dysfunction.	Internal teaching Self-study	Presentation in department Case review

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-354	Able to treat patient requiring maxillary obturator.		Clinical work under supervision Internal teaching Self-study	Structured supervisor discussion Case review Structured peer review
<b>Radiology and nuclear medicine in maxillofacial surgery</b>				
MAX-355	Independently order appropriate images related to the patient's problem, in collaboration with a competent radiologist.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review
MAX-356	Have knowledge of the safe use of conventional CT and conebeam CT, especially the potential hazards of ionizing radiation and understand relative radiation doses.		Internal teaching Self-study	Presentation in department
MAX-357	Have knowledge of the safe use of MRI and know absolute contraindications.		Internal teaching Self-study	Presentation in department
MAX-358	Have knowledge of radiological anatomy, distortions and artifacts in common imaging modalities used in specialty.	Such as (orthopantomography, CT, MR).	Internal teaching Self-study	Presentation in department Case review
MAX-359	Be able to perform basic examination of conventional X-ray, orthopantomography, CT, MRI and scintigraphy in the maxillofacial region with description of radiological findings and formulation of differential diagnoses based on this.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review
MAX-360	Independently be able to order and accurately describe X-rays, OPG and CT for trauma.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review
MAX-361	Independently order appropriate imaging studies for TMJ evaluation, and be able to understand images at a basic level.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review
MAX-362	Have knowledge of nuclear medical techniques used in maxillofacial surgery, including the use of PET for malignant disease, SPECT for condylar hyperplasia and Gallium scanning for infections.		Internal teaching Self-study	Presentation in department Case review

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-363	Have knowledge of appropriate implementation of interventional radiology and applications in maxillofacial surgery.		Internal teaching Self-study	Case review Presentation in department
MAX-364	Have knowledge of image assessment in connection with tumors in the maxillofacial region.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review
MAX-365	Have knowledge of the use of CT and OPG for assessment of jaw anatomy prior to implant placement.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review Logbook
MAX-366	Have knowledge of normal radiological anatomy in the maxillofacial region and adjacent structures including the cervical part of the spinal cord.		Internal teaching Self-study	Presentation in department
MAX-367	Have knowledge of reviewing radiological examinations for simple and complex maxillofacial trauma.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review Logbook
MAX-368	Have knowledge of the biological basis and accuracy of technetium 99 bone scan in diagnosing growth disorders in the maxillofacial region.		Internal teaching Self-study	Presentation in department
MAX-369	Have knowledge of the role of MR images in the assessment of odontogenic neoplasms.		Internal teaching Self-study	Case review
MAX-370	Have knowledge of the selection of the correct nuclear medicine examination in the assessment of chronic infections, including osteomyelitis.		Internal teaching Self-study Clinical work under supervision	Case review Structured counseling session
MAX-371	Have knowledge of the use of UL in oral and maxillofacial surgery.		Internal teaching Self-study	Presentation in department

<b>Code i Legal data</b>	<b>Learning objectives</b>	<b>Explanatory text for learning objectives</b>	<b>Learning activities</b>	<b>Forms of assessment</b>
MAX-372	Independently formulate detailed differential diagnoses of lesions in the maxillofacial region using advanced imaging techniques.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review
MAX-373	Recognize the timeliness of CT and intrathecal contrast for assessment of cerebrospinal fluid localization leakage.		Internal teaching Self-study	Case review
MAX-374	Recognize the need for and correctly order and interpret PET scans for staging of head and neck cancer and identification of recurrence.		Clinical work under supervision Internal teaching Self-study	Structured counseling session Case review
MAX-375	Know how to use CT and UL accurately to assess infection in deeper layers of the neck.		Clinical work under supervision Internal teaching Self-study	Logbook Case review
<b>Special techniques in maxillofacial surgery</b>				
MAX-376	Have knowledge of the principles of laser and its therapeutic use.		Internal teaching Self-study	Case review
MAX-377	Independently diagnose and select cases suitable for laser or cryotherapy.		Internal teaching Self-study	Case review
MAX-378	Independently perform virtual planning of surgical procedures.		Clinical work under supervision Internal teaching	Logbook Case review
MAX-379	Under supervision, be able to use navigation in TMJ surgery or secondary orbital reconstruction.		Clinical work under supervision Internal teaching Self-study	Logbook OSATS Case review
MAX-380	Have knowledge of relevant complex procedures.	For example, endoscopic assisted treatment of condylar fractures and salivary stone removal.	Internal teaching Self-study	Case review

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
<b>Other specific competencies</b>				
MAX-381	Have knowledge of the international and national history of maxillofacial surgery, organizations and associations, and their academic and political work.		Internal teaching Self-study	Structured counseling session
MAX-382	Have knowledge of the development of the discipline's established treatment principles and surgical methods, and keep theoretically and practically updated in these.		Internal teaching Self-study	Structured counseling session
MAX-383	Independently be able to make a structured plan and incorporate routines for maintaining professional updates.		Clinical work under supervision	Structured counseling session
MAX-384	Independently adapt/select the right resource in relation to the complexity and scope of the issue or question in question.		Clinical work under supervision Self-study	Structured counseling session
MAX-385	Independently be able to teach and motivate LIS and students in connection with rounds, outpatient clinics or in other learning situations.		Clinical work under supervision	Structured supervisor conversation 360 degree feedback
MAX-386	Independently be able to collaborate with palliative care teams.		Clinical work under supervision	Structured supervisor conversation 360 degree feedback Structured collegial feedback
MAX-387	Recognize and acknowledge other employees' expertise and areas of specialization.		Internal teaching Self-study	Case review Structured counseling session
MAX-388	Independently be able to act as a public health advisor for the public health perspective in maxillofacial surgery.	Examples include substance abuse, tobacco habits and trauma prevention.	Self-study	Case review
MAX-389	Independently apply legislation to manage maxillofacial surgical patients with occupational injuries and permanent disabilities.		Self-study Course	Course test Structured supervisor conversation
MAX-390	Independently be able to report notifiable diseases to the authorities, including reports of head and neck cancer to the cancer registry.		Self-study	Case review
MAX-391	Be able to independently assess maxillofacial referrals to the specialist health service and know about the legislation for free choice of hospital.		Clinical work under supervision Self-study	Structured counseling session

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
MAX-392	Have knowledge of rational surgical practice management.		Clinical work under supervision	Structured counseling session
MAX-393	Independently prioritize your own work effort and rational use of time.		Clinical work under supervision	Structured counseling session
<b>Academic competence</b>				
Not in the regulations. Removed by Hdir.	Have knowledge of how information from updated national and international guidelines is obtained and have an understanding of how this is used in the treatment of maxillofacial surgical patients.		Self-study Participation in national and/or international professional meetings	Observation and assessment/evaluation by supervisor
Not in the regulations. Removed by Hdir.	Have good knowledge of how to perform article searches and independently present updated knowledge and relevant maxillofacial surgical research to colleagues, for professional updating and contributing to the development of the professional environment.		Present own scientific work (poster, presentation, article) at a national or international meeting or published in a peer-reviewed journal (supervised by one of the unit's senior physicians with a PhD or equivalent scientific competence)	Evaluation panel
Not in the regulations. Removed by Hdir.	Be able to read, understand and evaluate the quality of maxillofacial surgical scientific articles. Have an understanding of scientific theory, research methodology and ethics.		Participate in teaching led by a senior consultant with a PhD or equivalent scientific competence	Observation and assessment

**THE SPECIALTY COMMITTEE'S POSSIBLE PROPOSALS FOR LEARNING ACTIVITIES AND FORMS OF ASSESSMENT RELATED TO COMMON LEARNING OBJECTIVES FOR PARTS 2 AND 3**

16.07.2018

		THE SPECIALTY COMMITTEE'S PROPOSAL	
Code i Legal data	Learning objectives	Explanatory text for learning objectives	THE SPECIALTY COMMITTEE'S PROPOSAL
			Learning activities
			Forms of assessment
FKM LM-04	Be able to handle ethical challenges in their own specialty, conduct ethical reflection and guide others.	<p>During part 2/3 of the specialist training, the doctor must have achieved the following competence:</p> <p>Content knowledge/attitudes:</p> <ul style="list-style-type: none"> <li>-Have knowledge of ethical theory and analysis and know the premises on which a decision is ethically acceptable</li> <li>-Have knowledge of current clinical ethical issues (e.g.: life-prolonging treatment, patients with lack of decision-making competence, confidentiality, consent, coercion, prioritization decisions at clinical level, euthanasia and assisted suicide. Also special dilemmas that may arise in a multicultural society).</li> <li>-Understand the importance of and know the challenges related to patient autonomy/user participation.</li> <li>-Know the connection between ethics and communication</li> <li>-Have sufficient knowledge and skills to be able to guide other healthcare professionals in ethical discussions</li> <li>-Know about clinical ethics committees, their work and how to contact them</li> </ul> <p>Content skills/attitudes:</p> <ul style="list-style-type: none"> <li>-Be able to identify ethical dilemmas in their own practice and apply methods for ethical analysis</li> <li>-Be able to apply methods to achieve good decision-making processes when making ethically challenging decisions</li> <li>-Be responsible for conducting ethical discussions in interdisciplinary teams</li> <li>-Be able to handle ethical challenges such as collegial disagreement or criticism, medical errors or whistleblowing</li> </ul>	

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
FKM LM-13	Be able to read, understand and assess hypotheses in a research protocol, and be familiar with relevant legislation and basic research ethics.	The candidate must have sufficient background knowledge to be able to participate in, plan and contribute to the implementation of the project assignment "Knowledge and improvement". The candidate may also be invited to participate in the drafting of a research protocol. By reviewing, or contributing to the preparation of, a research protocol together with a research-competent supervisor or other resource person, the candidate gains knowledge of legislation, privacy and ethical aspects raised by the research question, and which institutions to apply to for different topics. Relevant legislation includes the Health Research Act, the Privacy Act and the Declaration of Helsinki. Under supervision, such participation will contribute to increased research understanding and a critical attitude to one's own contributions to the project. At the same time, you will gain a more comprehensive understanding of the complexity of research in general, and also learn a practical approach through, for example, applications to the data protection officer and regional ethics committee. It is not uncommon for specialty registrars to be invited to collect data in ongoing research projects. A review and discussion with the head of the research project, and contributing to the protocol, will increase research understanding.	Service at a department with research expertise and activity within the specialty Present own scientific or quality work (poster, presentation, article) at a local, national or international meeting or published in a peer-reviewed journal (supervised by one of the unit's senior physicians with a PhD or equivalent scientific competence)	
FKM LM-19	Be able to use communication skills as a tool in treatment (therapeutic).	Medical treatment is traditionally associated with drugs, surgery and other interventions. This learning objective aims to raise awareness and ensure competence in the use of specific communication skills (such as responding empathetically or being able to offer tailored information) that can potentially have a major therapeutic effect.		
FKM LM-20	Have good supervisory and mentoring skills.	The LIS must be able to supervise LIS 1 and supervise colleagues with less competence than the LIS themselves. After completing the specialization course, the doctor should be able to take on the task of supervising all LIS 1s and all doctors in specialization in their own discipline.		

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
FKM LM-21	Be able to communicate about their own and the patient's uncertainty in ways that create confidence and understanding.	In their clinical practice, doctors not only have to deal with their own uncertainty, but also the inherent uncertainty of medicine. Patients often come into contact with the healthcare system because of u n c e r t a i n t y about the cause of their ailments and symptoms.		
FKM LM-22	Be able to communicate oral and written information in a way that is understood by the recipient.	The specialist must have a repertoire of methods to be able to communicate in a way that is adapted to very different situations. It is the specialist's responsibility to communicate in a way that creates as safe a framework as possible for communication, and that allows the patient/relatives/others to understand what is being communicated. The importance of good and customized written information and dialogue increases with the increased use of e-health, for example through e-consultation and electronic medical records.		
FKM LM-23	Be able to communicate about their own profession in a way that is adapted to recipients such as colleagues, partners, patients and the media.	Being a specialist means being the bearer of the foremost knowledge in a subject area and being able to communicate about your subject to others in different settings. This requires a mastery of the combination of professional knowledge and communication skills.		
FKM LM-32	Independently formulate good, searchable questions from their own practice, conduct searches in relevant sources, critically assess the research base using a checklist, and use the conclusions to improve their own practice (the knowledge circle).			
FKM LM-33	Independently carry out a good decision-making process on treatment options together with the patient (co-choice).			
FKM LM-34	Be able to use relevant knowledge sources within their own specialty, and know their strengths and weaknesses (knowledge sources).	The learning objective builds on FKM LM-29.		

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
FKM LM-41	Be able to use relevant e-health tools to improve clinical practice, patient pathways, administrative work processes and collaboration.	The purpose of this learning objective is to ensure that the specialist can use relevant e-health tools and contribute to exploiting the improvement potential of these by applying the improvement competence gained through the other learning objectives. See also the use of knowledge technology and decision support systems under Knowledge management.		
FKM LM-42	Be able to apply improvement knowledge to improve clinical practice, patient pathways and/or administrative work processes in their own workplace.	The learning objective is intended to give specialist candidates an awareness of how we can improve and introduce new best practices, and basic competence in being an active participant in the improvement work at their own workplace. Among other things, improvement competence is important when introducing various e-health tools to improve clinical practice, patient pathways and/or administrative work processes.		
FKM LM-43	Understand the difference between how data is collected and analyzed in research work, improvement work and audit, control and supervision work and know how results from improvement work are published.	The learning objective is intended to give specialist candidates an awareness of how we can improve and introduce new best practices, and basic competence in being an active participant in the improvement work at their own workplace. Among other things, improvement competence is important when introducing various e-health tools to improve clinical practice, patient pathways and/or administrative work processes.		
FKM LM-46	Understand the responsibility as a medical specialist in safeguarding legality, soundness, standardization and good practice.	Aims to meet the increasing demand for responsibility and accountability that comes with experience, specialization and independence. This includes responsibility for those working under the responsible doctor/delegated responsibility and responsibility for quality assurance. In coordination with the topics "Quality and patient safety" and "Management", related rules such as the Internal Control Regulations etc. should be covered.		

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
FKM LM-47	Be aware that there are special laws, special bodies and procedures of particular importance for each specialty.	Aims to cover important rules for specific areas. Examples (which are not intended to be exhaustive) are rules on infection control, abortion, sterilization, organ donation, autopsies, driver's licenses, health research, etc. As an extension of this, topics on specific processes and bodies are also covered, such as the National Insurance Court, the County Administrative Board, etc. The topics should be linked to the relevant clinical courses, and will therefore be included at different times in different disciplines/different specializations. The aim is to cover special bodies and forms of case processing of particular importance to the individual specialty (examples such as the abortion board, control commission, forensic medicine commission, etc.)		
FKM LM-51	Be able to discuss methods for user participation at system level that give users (representatives) a real opportunity to influence decisions.	There are several methods that can be used in user participation. The specialist should have knowledge of several methods in order to be able to contribute to the choice of measures that are best suited to ensuring user participation at system level. At the same time, the specialist must be clear that the aim of involving users at system level is to give them real influence.		
FKM LM-55	Be able to apply methods and pedagogical principles to plan, implement and evaluate training of patients and relatives in collaboration with relevant professional groups.	LIS will meet patients with long-term health challenges who need to develop knowledge and skills to manage everyday life with illness and/or functional impairment. LIS must therefore be able to inform, teach and guide patients in a health-promoting and pedagogically sound manner. LIS must be trained in equal collaboration on training with patients, users and/or relatives, and other relevant professional groups. The goal is for LIS to develop skills in methods that promote patient learning and coping. This may, for example, involve how to strengthen people's self-regulation, self-efficacy, stress management, development of new skills, awareness and use of their own resources.		

Code i Legal data	Learning objectives	Explanatory text for learning objectives	Learning activities	Forms of assessment
FKM LM-59	Be able to describe the relationship between their own workplace, other parts of the health and care service and society in general, and discuss the roles that various other actors may have for patient groups covered by the specialist's work.	It is central to collaboration that all actors understand their role and place relative to other actors in both the health and care service and in society at large (social, educational, etc.). This learning objective is a concretization that will promote an understanding of being part of a larger service.		
FKM LM-60	Have knowledge of and be able to make recommendations on measures to promote interaction that benefit the individual patient and the service as a whole.	This takes the other learning objectives to a higher level by requiring the ability to make recommendations. In other words, you must have achieved the other learning objectives and also be able to independently assess the consequences of this knowledge in order to fulfill this learning objective. Promoting collaboration means both internally within one's own unit, one's own institution, across institutions in the health and care service and with other relevant actors in society.		
FKM LM-70	Know the principles of unified management and understand the relationship between unified management and their own role as a professional.			
FKM LM-71	Understand the different roles of the medical specialist (e.g. professional manager, team leader, project manager) and the difference between these roles and the role of line manager.			
FKM LM-72	Know how organization (division of work/tasks and logistics) affects the quality of patient care.			
FKM LM-73	Be able to reflect on how your own characteristics, attitudes and values affect the working environment and your role as an employee, manager and colleague.			
FKM LM-74	Have knowledge of internal control as a statutory governance and management model in the health and care services.			