

# ESVPS Dentistry and Oral Surgery



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## Syllabus

This syllabus is designed as a guide to facilitate the process of acquiring knowledge and practical skills in all areas that include dentistry and oral surgery in small animals. In the various sections presented, the emphasis is on the theoretical knowledge as well as the practical aspects to develop in the clinical speciality. The knowledge of the oral cavity, especially dental, anatomy and physiology will be the basis for proper diagnosis and treatment of the different oral and dental pathologies. Knowledge of the etiology and pathogenesis of the different diseases will be the cornerstone of the personal study.

Bibliography on each part of the program will be provided by the speakers throughout the course.

### **Instrumentation in dentistry and oral surgery:**

- Knowledge, use and maintenance of equipment and instruments aimed at the different specialties in dentistry and oral surgery.
  - ✓ Basic and specific general equipment in dentistry.
  - ✓ Sutures and biomaterials.
  - ✓ Oral and dental diagnostic material.
  - ✓ Minor oral surgery material: extractions, periodontal surgery.
  - ✓ Major oral surgery material: maxillectomy, mandibulectomy, bone fractures.
  - ✓ Endodontics, restoration and prosthodontics material.
  - ✓ Orthodontic material.

### **Anaesthesia and analgesia:**

- Drugs and equipment used in general inhalatory anaesthesia and monitoring techniques.
- General and specific considerations in oral surgery and dentistry anaesthesia.
- Material and regional blockade techniques in oral surgery, including potential complications.

**Medical treatments associated with oral medicine and surgery:**

- Knowledge of the pharmacokinetics, indications and interactions as well as adverse effects of antiseptics and antibiotics, anti-inflammatories and analgesics.

**Biological foundations of oral surgery:**

- Cicatrisation processes in the oral cavity soft tissues and bone cicatrisation in oral and maxillofacial surgery.

**Anatomy, physiology and oral embryology:**

- Embryology and dental development.
- Oral anatomy and histology.
- Terminology, oral and dental nomenclature, including data collection.
- Dental occlusion principles.
- Dental physiology and pathophysiology during development of the young animal.

**Diagnosis of oral and dental diseases in the oral cavity:**

- Classification and diagnosis of systemic diseases with impact in the oral cavity of small animals.
- Classification by etiology of oral and dental diseases in small animals: congenital, developmental, iatrogenic, infectious (bacterial, viral, fungal), inflammatory, immune, idiopathic, metabolic, neoplastic, parasitic, traumatic (hard and soft tissues), miscellaneous.

**Diagnostic imaging in the oral cavity and dentistry:**

- Radiography and radiology principles of the oral cavity.
- Techniques and materials in conventional and digital dental radiography.
- Principles of dental radiological interpretation.
- Complementary diagnostic techniques in the oral cavity, TMJ, glands and regional lymph nodes. CT, MRI.

**Periodontology:**

- Microbiology and immunology of the oral cavity.
- Etiology, pathogenesis and symptoms of periodontal disease.
- Diagnostic, treatment and decision making in periodontics.
- General principles and considerations in periodontal treatment. Simple and surgical tooth extractions. Complications.
- Advanced periodontal surgery: indications, techniques and general considerations.
- Classification, diagnosis and treatment indication in periodontal trauma.
- Daily maintenance and prevention in periodontal disease.

**Oral oncology:**

- Particular considerations of oral oncology.
- Non-neoplastic proliferative oral lesions.
- Diagnosis, classification and staging of oral tumors. Odontogenic and non-odontogenic tumors.

- Surgical treatment of oral tumors: techniques and indication for major oral surgery. Mandibulectomy and maxillectomy and its potential complications.
- Nonsurgical treatments for oral neoplasia.

### **Oral surgery. Oral traumatology and maxillofacial surgery:**

- Diagnosis and general considerations for the oral traumatized patient.
- Particular considerations in oral and maxillofacial trauma.
- Surgical treatments in the soft tissues of the oral cavity.
- Biomechanics and surgical treatments in bone tissues: invasive and noninvasive techniques. Mandibular symphysis separation. Maxilla and mandible fractures.
- Diagnosis and treatment of temporomandibular joint disorders.
- Complications in the management of maxillofacial fractures.
- Diagnosis of palate pathologies: congenital and acquired defects.
- Indicated techniques and treatment in palate surgery. Treatment of oronasal fistula.
- Techniques and treatment of periodontal trauma: dislocation and dental avulsion.
- Diagnosis and treatment of the diseases that affect the salivary glands.
- Diagnosis and treatment of the diseases that affect the regional lymph nodes of the oral cavity.

### **Endodontics and Restoration. Prosthodontics:**

- Pathophysiology of dental pulp.
- Dental fracture: classification, diagnosis and treatment indications.
- Pulp treatments: apexification, direct and indirect pulp capping, partial and complete pulpectomy, root resection.
- Dental restoration: indications and technique.
- Prosthetics: tooth carving techniques. The prosthetic: materials and process from the tooth carving to cementation.

### **Orthodontics:**

- Evaluation of physiological occlusion and malocclusion.
- Diagnosis of malocclusions in small animals.
- Basic principles of orthodontics and orthodontic treatment.
- Impression: materials and technique.
- Active and passive orthodontics systems.