

SYLLABUS OF

Dental Registration Examination (DRE)

(Under Section 22 (1) (g) of the Dental Council Act)

OF JULY 2019

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SYLLABUS

BIOMEDICAL SCIENCES AND ORAL BIOLOGY

Knowledge of anatomy, physiology and biochemistry relevant to dentistry

Knowledge and understanding and understanding of biomedical sciences and of oral physiology and cranial craniofacial, dental and oral anatomy in the management of patients

HUMAN DISEASE

Knowledge of the scientific principles of sterilization, disinfection and antisepsis.

Knowledge of the pharmacological properties of drugs used in dental practice and their unwanted effects.

Knowledge of disease processes such as infection, inflammation, disorders of the Immune system, degeneration, neoplasia, metabolic disturbances and genetic disorders.

Familiarity with the pathological features and dental relevance of common disorders of major organ systems.

Familiarity of the role of therapeutics in the management of patients requiring dental treatment.

Familiarity with general aspects of medicine and with main disorders that may impinge on dental treatment.

MEDICAL EMERGENCIES

Competence in carrying out resuscitation techniques and management of cardiac arrest, anaphylactic reaction, upper respiratory obstruction, collapse, vasovagal attack, haemorrhage, inhalation and ingestion of foreign bodies, and diabetic coma.

Knowledge of diagnosing medical emergencies and delivering suitable drugs.

INTRODUCTION TO CLINICAL DENTISTRY

Competence in obtaining a detailed history of a patient's dental state pain history

Competence in obtaining a relevant medical history

Competence in using laboratory and imaging facilities appropriately and efficiently.

Competence in clinical examination and treatment planning.

Competence in maintaining aseptic conditions during surgical procedures.

Knowledge of the sources of infection and the means available for infection control.

Competence in arranging appropriate referrals.

Competence in obtaining informed consent and written consent.

Familiarity with the complex interactions between oral health, nutrition, general health drugs and diseases that can have an impact on dental care and disease.

Competence in the management of patients from different social and ethnic groups.

RESTORATIVE DENTISTRY

Competence in diagnosing and planning preventive, non-operative treatment for individual patients with caries, periodontal disease and tooth wear.

Competence in completing a periodontal examination and charting, diagnosis and treatment plan.

Competence in supragingival and subgingival scaling, root debridement, using both powered and manual methods, and in stain removal and prophylaxis.

Competence in performing cavity preparations for all cavity classes.

Competence in performing amalgam and tooth-coloured restorations.

Competence in performing endodontic treatment of single- and multi-rooted teeth.

Competence in restoring anterior and posterior teeth with crowns, post crowns.

Competence in performing such procedures as simple bridges, partial and complete dentures.

Knowledge of when periodontal surgery may be advised.

Knowledge of how missing teeth could be replaced, choosing between the alternatives of no replacement, bridges, dentures or implants.

Knowledge of the design and laboratory procedures used in the production of crowns, bridges, acrylic and chrome dentures and ability to make chair-side adjustments to these restorations.

Familiarity with the diagnosis and management of temporomandibular joint disorders, ailments of the salivary glands and the maxillary sinuses.

DENTAL BIOMATERIALS SCIENCE

Knowledge of the science that underpins the use of dental biomaterials

Knowledge of the strength of biomaterials.

Familiarity of those aspects of biomaterial safety that relate to dentistry

PEDIATRIC DENTISTRY

Competence in diagnosing active caries and planning appropriate non-operative care in children

Competence in fissure sealing, preventive resin restorations, and pit and fissure restoration

Competence in undertaking approximal and incisal tip restorations.

Knowledge of the preformed stainless steel crowns and pulp therapy in primary molar teeth.

Knowledge of the role of sedation in the management of young patients.

Knowledge of the management of trauma in both dentitions.

ORTHODONTICS

Competence in carrying out orthodontic assessment including and indication of treatment need.

Familiarity with the limitations of orthodontic treatment

Competence in the management in the management of all forms of orthodontic emergencies including referral when necessary.

Knowledge in designing insertion and adjustment of space maintainers.

Knowledge to design, insert and adjust removable appliances to move a single tooth or correct a crossbite.

ORAL SURGERY

Competence in undertaking extraction of teeth and the removal of roots where necessary.

Competence in undertaking minor soft tissue surgery.

Knowledge of the management of acute infection.

Familiarity with the principles of assessment and management of maxillofacial trauma.

Familiarity with the diagnosis of oral cancer and the principles of tumour management

Familiarity with the principles treatment of dento-facial anomalies including the common orthodontic/maxillofacial procedures involved.

Familiarity with the basic principles of oral surgery practice.

Competence in diagnosing and treating (including referrals) of common complications that may arise during routine oral surgery practice.

ORAL MEDICINE

Knowledge of drugs commonly used in oral medicine and their side effects and interactions.

Familiarity with drugs used in main medical disorders that may impinge on dental treatment or causes changes to the hard and soft tissues of the oral cavity.

Knowledge of appropriate special investigations and the interpretation of their results.

Familiarity with the pathogenesis of common oral medical disorders and their treatment.

ORAL PATHOLOGY

Knowledge of the role of laboratory investigation diagnosis.

Competence in matters relating to infection control.

Knowledge of the causes and effects of oral diseases needed for their prevention, diagnosis and management

DENTAL RADIOLOGY AND IMAGING

Competence in taking and processing the various film views used in general dental practice

Competence in radiographic interpretation and ability to write appropriate radiographic report.

Knowledge of the hazards of ionizing radiation and regulations relating to them.

PAIN AND ANXIETY CONTROL

Competence in infiltration and regional block anesthesia in the oral cavity.

Knowledge of when general anesthesia is required.

Competence in managing fear and anxiety with behavioural techniques and emphasizing with patients in stressful situations.

Knowledge of conscious sedation techniques in clinical practice.

LAW, ETHICS AND PROFESSIONALISM

Knowledge of responsibilities of consent, duty of care and confidentiality

Knowledge of the regulatory functions of the Dental Council of Mauritius.

Familiarity with the code of ethics and general principles of deontology.

Familiarity with the need for lifelong learning and professional development.