



Royal Medical Services

Professional Training Division

Logbook for Endodontic Residents

FIRST YEAR

- 1. Growth, development and histology of head and neck.**
 - a. Branchial arches.**
 - b. Development of tongue.**
 - c. Tooth germs.**
 - d. Eruption.**
 - e. Tooth structures.**
 - f. Histology of dental pulp.**

- 2. Anatomy of head and neck.**
 - General anatomy.**
 - a. Neck triangles.**
 - b. Neck spaces.**
 - c. Salivary glands.**
 - d. Muscles of facial expression.**
 - e. Muscles of mastication.**
 - f. Cranial nerves; trigeminal, facial, glosso pharyngeal, hypoglossal.**
 - g. Blood supply of head and neck.**
 - h. Lymphatic drainage of head and neck.**

- **Oral and dental anatomy.**
 - a. **Lips and cheeks.**
 - b. **Teeth (enamel, dentine, pulp and cementum).**
 - c. **Anatomy of dentin pulp complex**
 - d. **Floor of mouth.**
 - e. **Soft and hard palate.**
 - f. **TMJ.**
 - g. **Tongue.**

3. Physiology.

- a. **Saliva.**
- b. **Mastication and swallowing.**
- c. **Jaw reflexes.**
- d. **Taste oral sensation and receptors.**
- e. **Blood, lymphatics and immune mechanism**
- f. **Nerve + Synaptic and Junctional Transmission**
- g. **Physiology of dental pulp**
- h. **Endodontics microbiology.**

4. General pathology

- a. Cell injury.**
- b. Inflammation and infection.**
- c. Wound healing.**
- d. Thrombo-embolism.**
- e. Shock and hemorrhage.**
- f. Neoplasia.**
- g. Pulpal pathology.**

5. Pharmacology

- a. Antibiotics.**
- b. Analgesics.**
- c. Antifungal.**
- d. Antiviral.**
- e. Local anesthesia.**

6. Instruments , materials

- a. manual instruments**
- b. irrigants**
- c. intracanal medicaments**
- d. sealers**
- e. Obturation materials**
- f. intermediate restoration materials**

7. Structure and functions of the dentin pulp complex

8. Pulp reactions to caries and dental procedures

SECOND YEAR

Theoretical requirements:

- 1- Structure and function of the dentin pulp complex**
- 2- Pulp reaction to caries and dental procedures**
- 3- Pathobiology of primary apical periodontitis**
- 4- Endodontic microbiology and treatment of infections.**
- 5- Diagnosis and management of endodontic emergencies.**
- 6- Orofacial pain mechanism and non odontogenic toothache.**
- 7- Case selection and treatment planning.**
- 8- Preparation of endodontic treatment.**
- 9- Armamentarium and sterilization.**
- 10- Tooth morphology and access cavity preparation**
- 11- Endodontic Instruments, materials and devices.**
- 12- Cleaning and shaping of the root canal system**
- 13- Obturation of the cleaned and shaped root canal system.**
- 14- The role of endodontics after dental traumatic injuries.**
- 15- Endodontic and Periodontal interrelationship.**
- 16- Analgesic in endodontics**
- 17- Local anesthesia in Endodontics**

Clinical requirements:

- 1-To do root canal treatment for 30 posterior teeth (advanced & challenging)**
- 2-To do five cases of retreatment.**

ALL THE CASES SHOULD BE DOCUMENTED WITH RADIGRAPHS AND PATIENT FILES.

THITRD YEAR

Theoretical requirements:

- 1- Restoration of endodontically treated teeth.**
- 2- Pediatric endodontics**
- 3- Geriatric endodontics**
- 4- Pathobiology of post treatment apical periodontitis**
- 5- Non surgical retreatment**
- 6- Periradicular surgery**
- 7- Regeneration and revascularization**
- 8- Bleaching**
- 9- Advancements in Endodontics (materials , devices , techniques)**
- 10- Outcome studies.**

Clinical requirements:

- 1- To do root canal treatment for 20 posterior teeth (advance and challenging cases).**
- 2- The resident should perform 5 periradicular surgeries.**
- 3- To do five cases of retreatment.**

ALL THE CASES SHOULD BE DOCUMENTED WITH RADIGRAPHS AND PATIENT FILES.