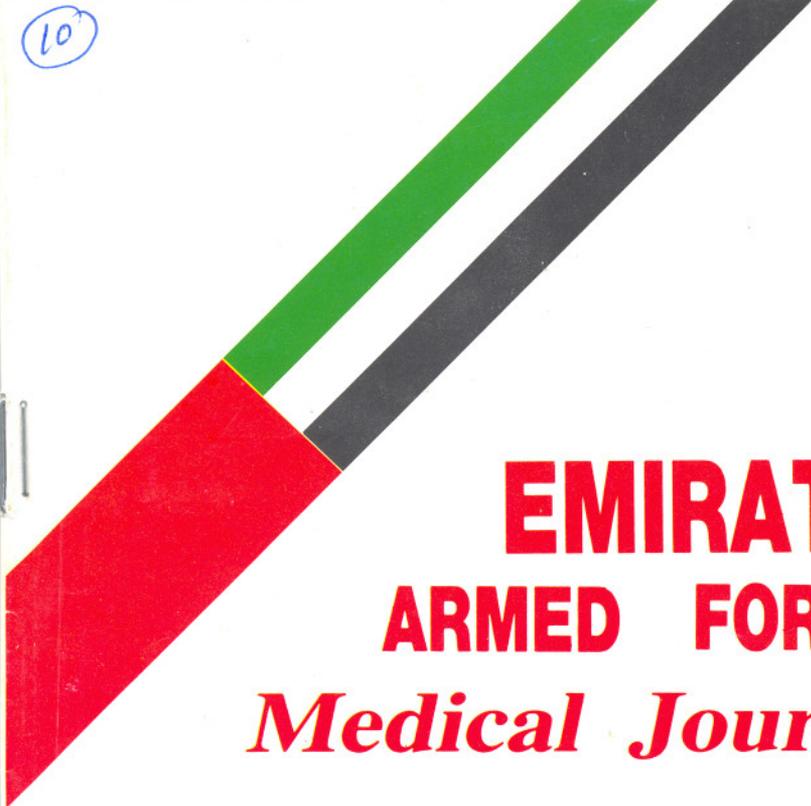


10



**EMIRATES**  
**ARMED FORCES**  
*Medical Journal*



---

Volume 3 Number 1 April 1991

JULY 1990  
Volume 2 Number 1

# Emirates Armed Forces Medical Journal

---

**President**

**Brigadier Saeed Ali Saleh**  
Director Medical Services

**Vice President**

**Colonel Dr. Abdulah Hamid Balhoul**  
Technical Assistant

**Editor-in-Chief**

**Lieut. Col. Dr. Mohamed Farid**  
MB.B.Ch.,D.M.,DV.D.M.D.,PhD.

## EDITORIAL BOARD

**Lieut. Col. Dr. Hassan Aboul Naga**  
M.D. FAFS, Munich

**Lieut. Col. Dr. Khaled J. Elkhayri**  
F.R.C.P., F.R.C.P.E., F.A.C.C.

**Lieut. Col. Dr. Nabil Borai**  
MB.B.Ch.,D.S.,D.Orth.,M.D.Orth.

**Major Dr. Omar Fawzi**  
F.R.C.S. Ed.

**Major Dr. Mahmoud R. Korayem**  
B.D.S., D.Orth., PhD.  
Deputy Editor

## INTERNATIONAL EDITORIAL BOARD

**Prof. Dr. Graham Smith Jr.**  
USA

**Prof. Dr. Wolf B. Schill**  
W. Germany

**Prof. Dr. Neils Skakkebaek**  
Denmark

**Secretary General**

**Lieut. Col. Dr. Nabil Sabbagh**  
D.L.O.

---

# The Effect of Systemic Radiation Therapy on Bacteriologic Status of Root Canals

FAHIM O.M.\* Bch.D, H.D.D., Ph.D.

ABD EL-LATTIF Z.M.\*\* Bch.D., Ph.D.

\* Associate Professor of Endodontics, Endodontic Department  
Faculty of Oral & Dental Medicine  
Cairo University – Cairo, Egypt

\*\* Associate Professor of Radiology, Department of Diagnosis & Radiology  
Faculty of Oral & Dental Medicine  
Cairo University – Cairo, Egypt

Mailing Address: Dr. Omar Fahim

P.O. Box 27264 Abu Dhabi, United Arab Emirates

Telephone: 783069 Abu Dhabi, United Arab Emirates

---

## ABSTRACT

*This investigation was directed to study if there were any changes in the root canals flora in cancer patients who underwent radiation therapy. 20 patients with cancer of the head and neck region were involved in this study. They were divided into two groups. Group A had not been exposed to radiation therapy. Group B had received radiation therapy. Intra root canals cultures were obtained from these patients for anaerobic and aerobic types of microorganisms.*

*From the anaerobic group of bacteria gram negative bacteroids had disappeared from obtained cultures after radiation therapy. On the other hand, after radiation other forms of aerobic microorganisms had been appeared such as gram negative fusiform, gram positive bacillus subtilis in spore form and candida albicans fungus. These latter types might play a role in destruction of teeth post-operative radio-therapy and researches could be directed to clarify these findings.*