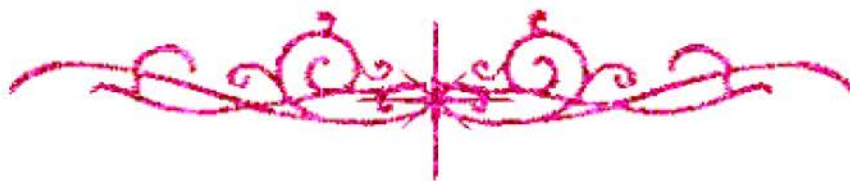


بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

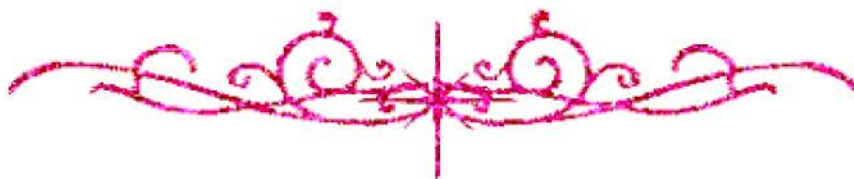
قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



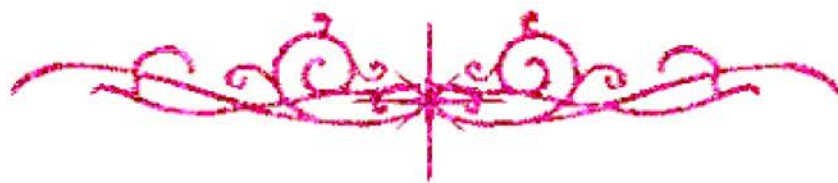
يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



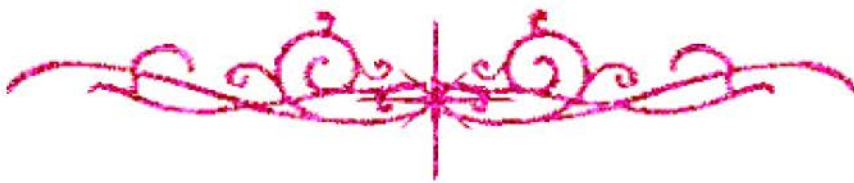


بالرسالة صفحات
لم ترد بالأصل





بعض الوثائق الأصلية تالفة



"RECENT ADVANCES IN MANAGMENT OF EWING'S TUMOR.OF BONE"

ESSAY

Submitted in partial fulfillment of Master Degree in
Radiation Oncology & Nuclear Medicine

By

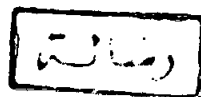
Mohammed Abdel Moneam Mohammmed
(M.B.B.Ch.)

616.07575
M.A.

Supervised by

Prof. Dr.: ATEF YOUSEF RIAD

Professor of Radiation Oncology & Nuclear Medicine
Faculty of medicine, Ain Shams University.



68647

Dr.: Eman Mohamed Fouad

Lecturer of Radiation Oncology & Nuclear Medicine
Faculty of medicine, Ain Shams University.

Dr.: Zeinab Mohammed Abdel Hafez

Lecturer of Radiation Oncology & Nuclear Medicine
Faculty of medicine, Ain Shams University.

Faculty of medicine
Ain Shams University
2002



“RECENT ADVANCES IN MANAGEMENT OF EWING’S TUMOR OF BONE”

ESSAY

Submitted in partial fulfillment of Master Degree in
Radiation Oncology & Nuclear Medicine

By

Mohammed Abdel Moneam Mohammed
(M.B.B.Ch.)

Supervised by

Prof. Dr.: ATEF YOUSEF RIAD

Professor of Radiation Oncology & Nuclear Medicine
Faculty of medicine, Ain Shams University.

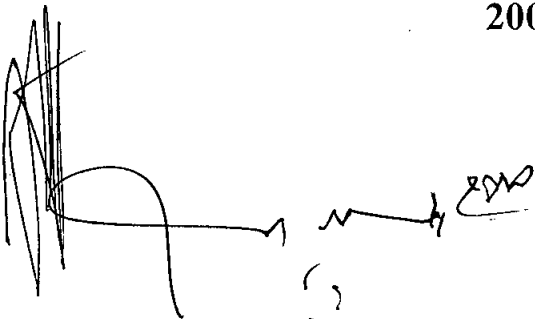
Dr.: Eman Mohamed Fouad

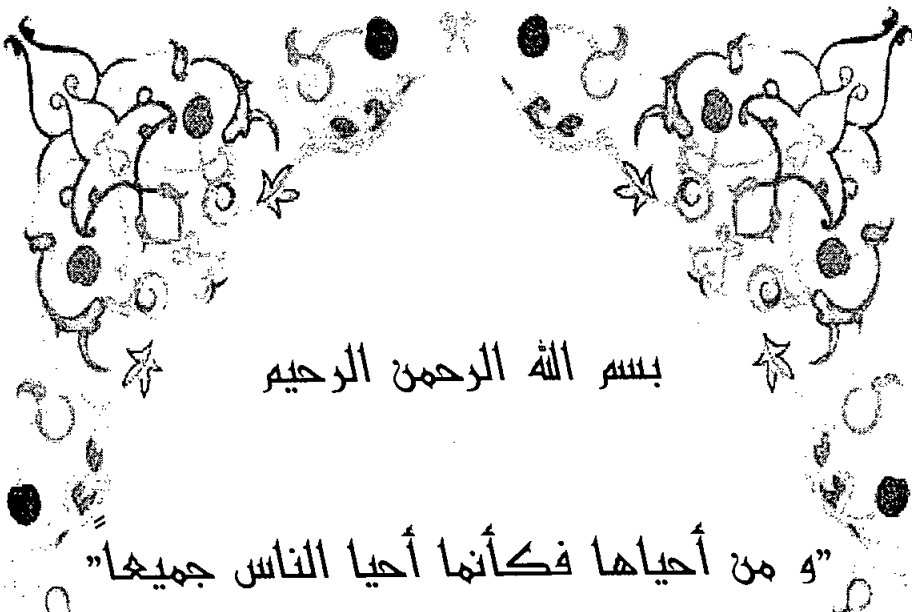
Lecturer of Radiation Oncology & Nuclear Medicine
Faculty of medicine, Ain Shams University.

Dr.: Zeinab Mohammed Abdel Hafez

Lecturer of Radiation Oncology & Nuclear Medicine
Faculty of medicine, Ain Shams University.

**Faculty of medicine
Ain Shams University
2002**





بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

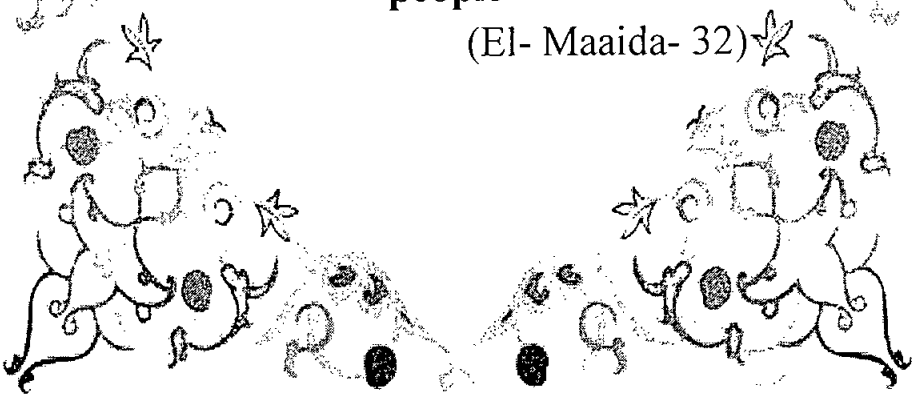
”وَمَنْ أَحْيَاهَا فَكَأَنَّمَا أَحْيَا النَّاسَ جَمِيعًا“

المائدة - ٣٢

In the name of Allah Most Gracious Most Merciful:

“, and if anyone saved a life it would be as if he saved the life of the whole people.”

(El- Maaida- 32)



Acknowledgment

First and foremost thanks are due to **ALLAH**, to whom I relate any success in achieving any work in my life.

My words stand short of my supreme gratitude and thanks to **Prof. Dr. Atef Yousef Riad**, Professor of Radiation Oncology and Nuclear Medicine, Faculty of Medicine, Ain Shames University, for his supervision, evaluable guidance, generous encouragement, help, and overall his moral support and kindness that gave me and this work a light to the scope of light.

Special thanks are due to **Dr. Eman M. Fouad**, Lecturer of Radiation Oncology and Nuclear Medicine, Faculty of Medicine, Ain Shames University, for dedicating so much of her precious time and effort, and for her honest and constant guidance to complete this work, words of thanks are so little for her great help in **Dr. Zeinab M. Abd El-Hafiz**, Lecturer of Radiation Oncology and Nuclear Medicine, Faculty of Medicine, Ain Shames University, for her continuous close supervision, support, constant help and fair stimulating remarks throughout this study.

Finally, I wish to thank my family preparation of this work.

I am also profoundly grateful to for their continuous help, encouragement and support.

Mohammed A. Moneam

List of Contents

Content	Page No.
Introduction and Aim of the work	1
Review of literature	5
Epidemiology	5
Molecular Biology	15
Pathology	30
Diagnostic Workup	49
Differential diagnosis	91
Staging System	98
Treatment	102
Prognosis	174
Summary and Conclusion	180
References	184
Arabic Summary	

100
100
100
100

100

100

100

100

100

100

100

100

100

100