



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



شبكة المعلومات الجامعية



بالرسالة صفحات
لم ترد بالأصل

**CLINICAL AND BIOLOGICAL EVALUATION
OF VASCULAR ENDOTHELIAL GROWTH
FACTOR IN PEDIATRIC SOLID TUMOURS**

Thesis

Submitted In Partial Fulfilment
For Master Degree In Pediatrics

By

Ahmed Mohamed Kamel Soliman
M.B.B.CH.

Supervisors

Prof. Dr.

Salah Saleh Abdel Hady
Prof. Of Pediatric Oncology
National Cancer Institute
Cairo University

Prof. Dr.

Motawa'Eissa El-Huseini
Head Of Cancer Biology Department
National Cancer Institute
Cairo University

Dr.

Maha Fathy Sheba El-Hamad
Assistant Prof. Of Pediatrics
Cairo University

NCI
Cairo University
2001

B
9K-7

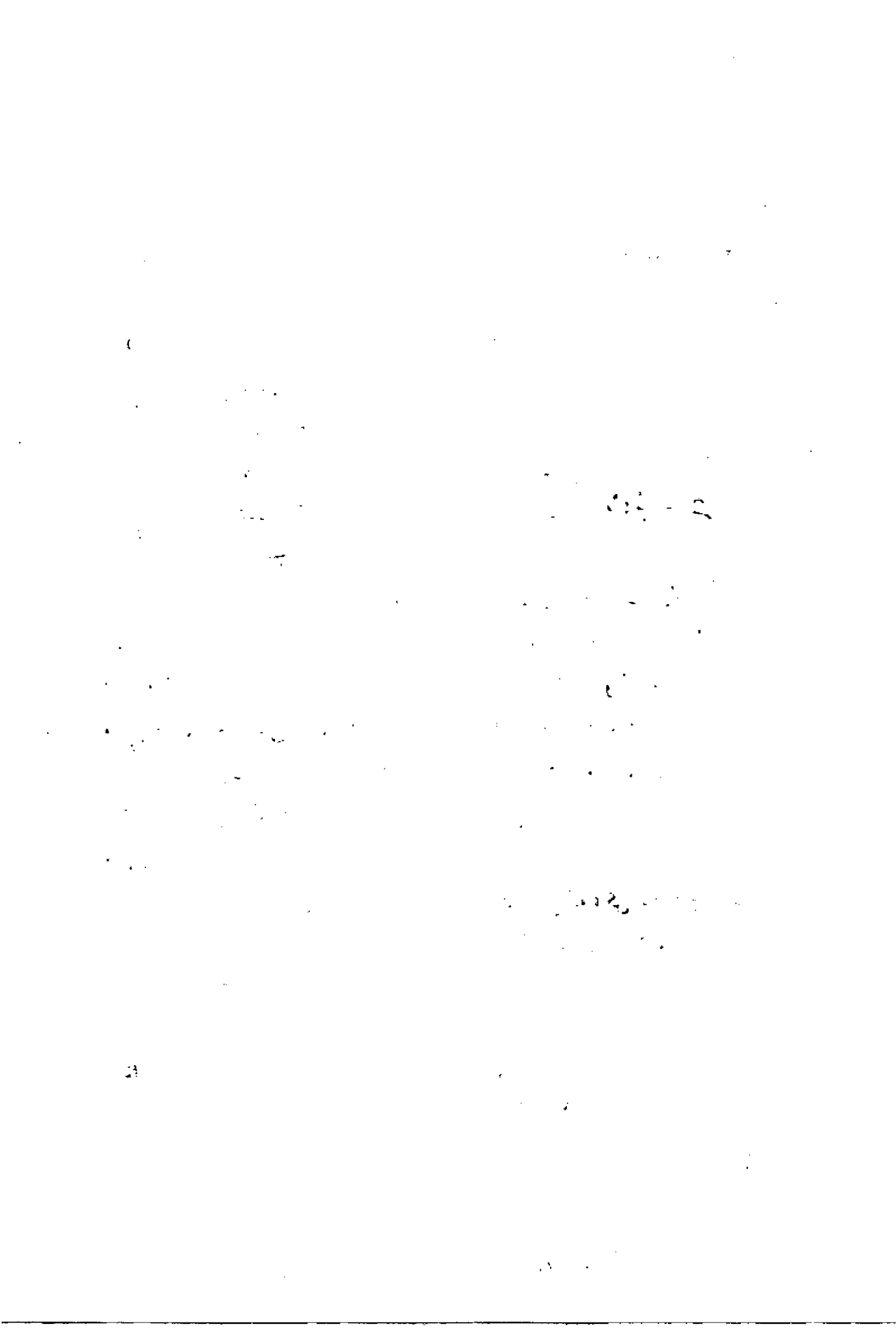
1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are given below each name. The list includes the names of the members of the committee, the names of the members of the sub-committee, and the names of the members of the advisory committee. The addresses are given in the following order: the address of the member of the committee, the address of the member of the sub-committee, and the address of the member of the advisory committee.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَفَوْقَ كُلِّ ذِي عِلْمٍ عَلِيمٌ

صَلَّى اللَّهُ الْعَظِيمِ

آيَة رَقْم (٧٦) مِنْ سُورَةِ يُوسُفَ



Acknowledgment

Firstly and foremost, thanks to God, the most gracious and the most merciful.

*I would like to express my sincere thanks and gratitude to **Prof. Dr. Salah Saleh Abdel Hady**, Professor of Pediatric Oncology, National Cancer Institute, Cairo University, for his kind guidance and generous effort in making this work.*

*My deep appreciation and utmost gratefulness are to **Prof. Dr. Motawa Eissa El-Huseini**, Professor of Medical Biochemistry and Head of Cancer Biology Department, National Cancer Institute, Cairo University, for his efficient encouragement and helpful advice.*

*I am specially indebted to **Prof. Dr. Maha Fathy Sheba El-Hamad**, Assistant Prof. Of Pediatrics, Cairo University, for her guidance, valuable and constructive advice, patience, and meticulous reading of this work.*

*Many thanks to **Dr. Iman Aly Attia**, Lecturer Of Pediatric Oncology, Cairo University, for her generous effort, and kind help in making this work.*

Ahmed Mohamed Kamel Soliman

21

22

23

24

25

26

27

28

29

30

Table Of Contents

Introduction	1
Aim of Work	3
Review of Literature	4
Pediatric Solid Tumors	4
Neuroblastoma	6
Rhabdomyosarcoma	23
Osteosarcoma	44
Ewing's Sarcoma	59
Tumor Invasion and Metastasis	71
Tumor Angiogenesis	77
Patients and Methods	96
Results	102
Discussion	111
Summary and Conclusion	117
References	119
Arabic Summary	

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

List of Tables and Figures

- **Table.1:** Staging System of Neuroblastoma..... 17
- **Table.2:** TNM Staging System of Rhabdomyosarcoma..... 33
- **Table.3:** Clinical Grouping System of Rhabdomyosarcoma...35
- **Table.4:** Prognostic Factors of Osteosarcoma..... 53
- **Table.5:** Proposed Strategy for Antiangiogenic Therapy in
Cancer Patients..... 95
- **Table.6:** Sites of Metastases in Cancer Patients.....106
- **Fig.1:** Age Distribution of the Four Studied Groups102
- **Fig.2:** Sex Distribution Among Studied Groups..... 103
- **Fig.3:** Type of Solid Tumor Among Cancer Cases..... 105
- **Fig.4:** Serum Level of VEGF in the Four Studied Groups....107
- **Fig.5:** Serum Level of VEGGF Among Cancer Cases..... 110

