

# بسم الله الرحمن الرحيم





# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



# 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





# بعض الوثائق الأصلية تالفة





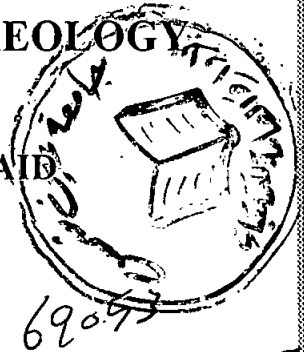
# بالرسالة صفحات لم ترد بالأصل



**EFFECT OF CRYOTHERAPY IN  
TREATMENT OF BASAL CELL  
CARCINOMA**

**THESIS SUBMITTED FOR PARTIAL  
FULLFILMENT  
OF MASTER DEGREE  
IN DERMATOLOGY AND VENEREOLOGY**

**PRESENTED BY:  
NASHWA MOHAMED ABOUZAID  
MB. B. Ch  
AIN SHAMS UNIVERSITY**



**SUPERVISED BY**

**DR. MOHAMED AHMED HABIB  
PROFESSOR OF DERMATOLOGY AND VENEREOLOGY  
AIN SHAMS UNIVERSITY**

616.54  
N. M

*Handwritten signature*

*Handwritten signature*

**DR. NAZIHA HAFEZ KHAFAGY  
ASSISTANT PROFESSOR OF DERMATOLOGY AND  
VENEREOLOGY  
AIN SHAMS UNIVERSITY**

*Handwritten signature*

*Handwritten signature*

*Handwritten signature*

Faculty of Medicine  
Ain Shams University  
2002



بسم الله الرحمن الرحيم

"وقل اعملوا فسيرى الله  
عملكم ورسوله و المؤمنون"

صدق الله العظيم

(سورة التوبة آية ١٠٥)



# Acknowledgment



## Acknowledgment

*First and last of all, all praises to Allah.*

*I would like to express my sincere appreciation and deepest gratitude to **Pro. Dr. Mohamed Ahmed Habib**, Professor of Dermatology and Venereology, Faculty of Medicine, Ain Shams University; for his valuable help, kind supervision and continuous encouragement.*

*I would like to express my deep gratitude to **Dr. Naziha Hafez Khafagy**, Assistant Professor of Dermatology and Venereology, Faculty of Medicine, Ain Shams University; for her kind patience and supervision, continuous help, valuable advice and criticism.*

*I wish also to express my deepest thanks to my Professors and my colleagues in the Dermatology and Venereology Department, Faculty of Medicine, Ain Shams University; for their continuous help, support and sincere encouragement.*

*Finally, I would like to present this work to my family, my husband and my sons **Ahmed & Amr**.*



# Contents

|                                    | <u>Page</u> |
|------------------------------------|-------------|
| ❖ Introduction and Aim of work     | 1           |
| ❖ Review of Literature             | 3           |
| ❖ Chapter I (Basal cell carcinoma) | 3           |
| • Definition                       | 3           |
| • Incidence and Epidemiology       | 3           |
| • Etiology and Risk factors        | 5           |
| • Metastasis                       | 14          |
| • Friability                       | 15          |
| • Invasive Features                | 18          |
| • Clinical Presentation            | 20          |
| • Differential Diagnosis           | 24          |
| • Histopathologic Finding          | 26          |
| • Clinicopathologic pattern        | 30          |
| • Treatment                        | 32          |
| • Prevention                       | 38          |
| ❖ Chapter II (Cryosurgery)         | 40          |
| • History                          | 40          |
| • Cryobiology                      | 42          |
| • Mechanism of Injury              | 43          |
| • Effects on Tissue                | 44          |
| • Equipment                        | 48          |
| • Protective Devices               | 52          |
| • Objectives and Goal of Treatment | 52          |
| • Patient Selection                | 53          |
| • Advantages                       | 54          |
| • Techniques of Treatment          | 54          |
| • Treatment Factors                | 56          |
| • Treatment                        | 57          |
| • Cryosurgery in treatment of BCC  | 59          |

|                                  | <u>Page</u> |
|----------------------------------|-------------|
| • Learning Technique             | 60          |
| • Surface Freeze Limiting Device | 63          |
| • Treatment of Deeper Tumors     | 66          |
| • Tissue Response                | 68          |
| • Complications                  | 69          |
| • Cure Rates                     | 75          |
| ❖ Patients and Methods           | 76          |
| ❖ Results                        | 79          |
| ❖ Discussion                     | 102         |
| ❖ Summary                        | 110         |
| ❖ References                     | 112         |
| ❖ Arabic Summary                 |             |