



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

The Effect of Various Anesthetic Techniques on the Thyroid Hormones

**Thesis Submitted for the Partial Fulfillment
of the M.D. Degree in Anesthesiology**

BY

Wael Reda Hussein Sabet

M.B.B.Ch., M.Sc., Anesthesia, Ain Shams University

Supervised By

Prof. Dr. Abd El-Aziz Mohamed Youssef

*Professor of Anesthesia and Intensive Care
Faculty of Medicine - Ain Shams University*

Prof. Dr. Soheir Abbas Sadek

*Professor of Anesthesia and Intensive Care
Faculty of Medicine - Ain Shams University*

Prof. Dr. Moustafa Kamel Fouad

*Professor of Anesthesia and Intensive Care
Faculty of Medicine - Ain Shams University*

Dr. Ayman Mokhtar Kamally

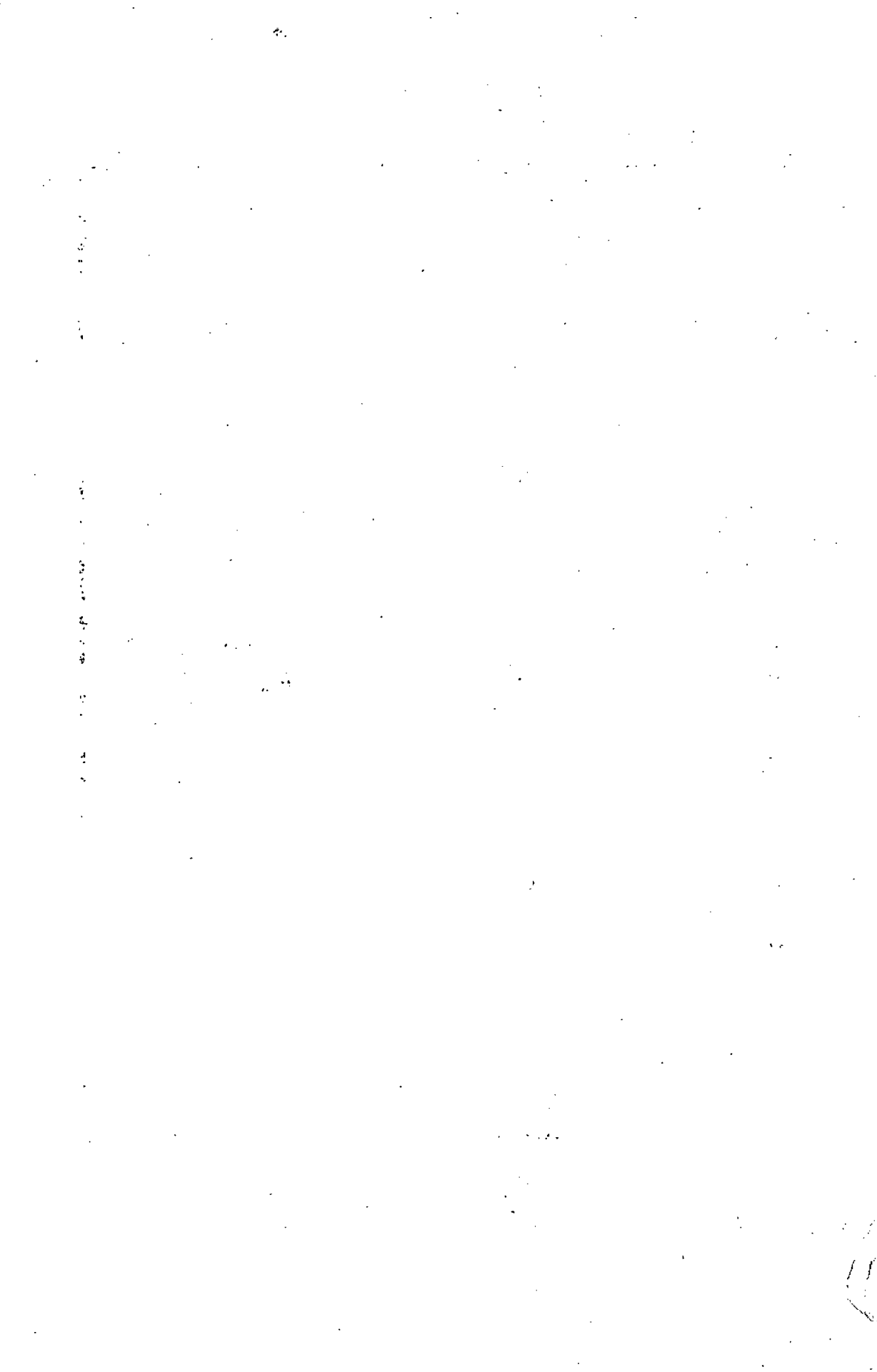
*Lecturer of Anesthesia and Intensive Care
Faculty of Medicine - Ain Shams University*

**Faculty of Medicine
Ain Shams University**

***** 2001 *****

B

97211



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا سبحانك لا علم لنا

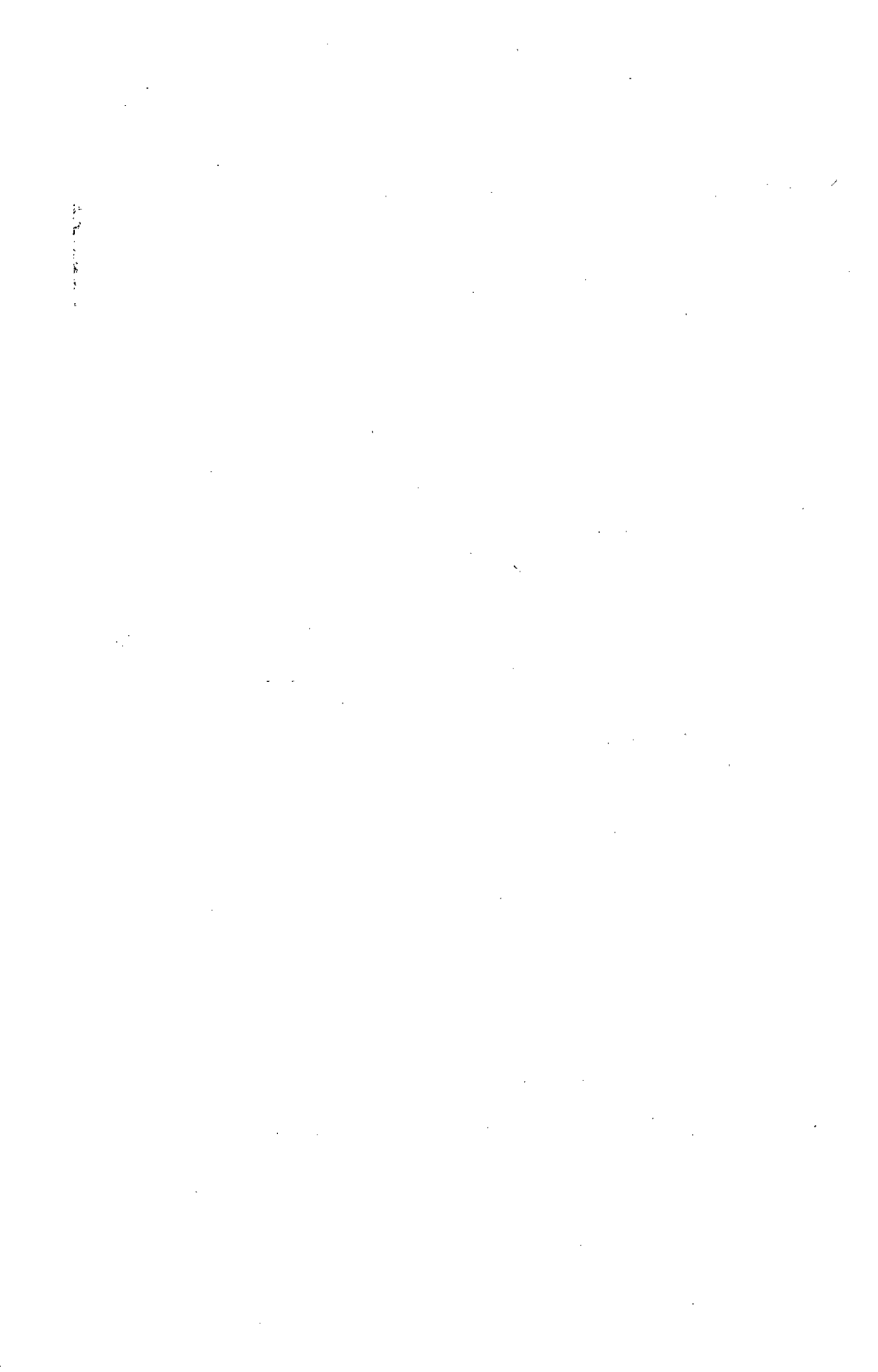
إلا ما علمتنا إنك أنت

العليم الحكيم

صدق الله العظيم



To My Family



Acknowledgment

It is a great honor to express my deep gratitude and appreciation to **Prof. Dr. Abd El-Aziz Mohamed Youssef**, Professor of Anesthesia and Intensive Care, Faculty of Medicine, Ain Shams University, for giving me great encouragement, excellent guidance and creative suggestions to help to complete this work.

I am very grateful to **Prof. Dr. Soheir Abbas Sakek**, Professor of Anesthesia and Intensive Care, Faculty of Medicine, Ain Shams University, for her generous participation and continuous encouragement. Really, it is a great honor to work under her guidance and supervision.

My sincere appreciation and deep gratitude to **Prof. Dr. Moustafa Kamel Fouad**, Professor of Anesthesia and Intensive Care, Faculty of Medicine, Ain Shams University, for his moral support and great effort he did in every step of this work.

Also, I am greatly honored to thank **Dr. Ayman Mokhtar Kamally**, Lecturer of Anesthesia and Intensive Care, Faculty of Medicine, Ain Shams University, for his kind advice and valuable supervision throughout this work.

Wael Reda

List of Contents

	PAGE
Introduction	1 - 2
Aim of the Work	3
Review of Literature	4 - 59
Introduction	4
Anatomic Considerations	5
Formation and Secretion of Thyroid Hormones	8
Transport and Metabolism of Thyroid Hormones	15
Effects of Thyroid Hormones	24
Regulation of Thyroid Secretion	33
Hypothyroidism	38
Cretinism	39
Hyperthyroidism	39
Drugs and Thyroid Function	42
Anesthetic Considerations During Hyperthyroidism	49
Anesthetic Considerations During Hypothyroidism	56
Patients and Methods	59 - 69
Results	70 - 98
Discussion	99 - 107
Recommendations	108
Summary	109 - 111
References	112 - 122
Arabic Summary	

List of Tables

No.	Table	Page
Table (1):	Binding of thyroid hormones to plasma proteins in normal adult humans.	17
Table (2):	Effect of variations in the concentrations of thyroid hormone-binding proteins in the plasma on various parameters of thyroid function after equilibrium has been reached.	20
Table (3):	Causes of hyperthyroidism.	40
Table (4):	Iodine content of some iodine-containing medications and radiographic contrast agents.	44
Table (5):	Demographic data of the studied cases.	70
Table (6):	Serum level of total T ₄ in the studied groups.	72
Table (7):	Comparison between preoperative and intraoperative serum level of tT ₄ among group V and VI.	75
Table (8):	Serum level of free T ₄ in the studied groups.	76
Table (9):	Comparison between preoperative and intraoperative serum level of FT ₄ among group IV, V and VI.	78
Table (10):	Serum level of total T ₃ in the studied groups.	79
Table (11):	Comparison between preoperative and intraoperative serum level of tT ₄ among group IV and V.	81
Table (12):	Serum level of free T ₃ in the studied groups.	82
Table (13):	Comparison between preoperative and intraoperative serum level of FT ₄ among group IV and V.	84