



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بلله 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

B9V.1

**ADRENALINE AND/OR ISOPROTERENOL IN PATIENTS
WITH LOW CARDIAC OUTPUT AND PULMONARY
HYPERTENSION UNDERGOING OPEN HEART SURGERY**

Thesis

Submitted for partial fulfillment of the M.D.
In Anesthesiology

By

Dina Yehia Kassim

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

Supervisors

Prof. Dr. Mahmoud Sherif Mostafa

*Prof. of Anesthesia and Intensive Care
Faculty of Medicine
Ain Shams University*

Prof. Dr. Mohamed Abdel Khalek Mohamed Aly

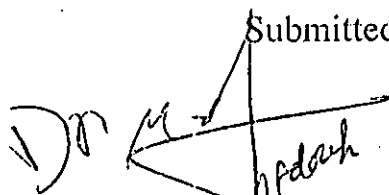
*Prof. of Anesthesia and Intensive Care
Faculty of Medicine
Ain Shams University*

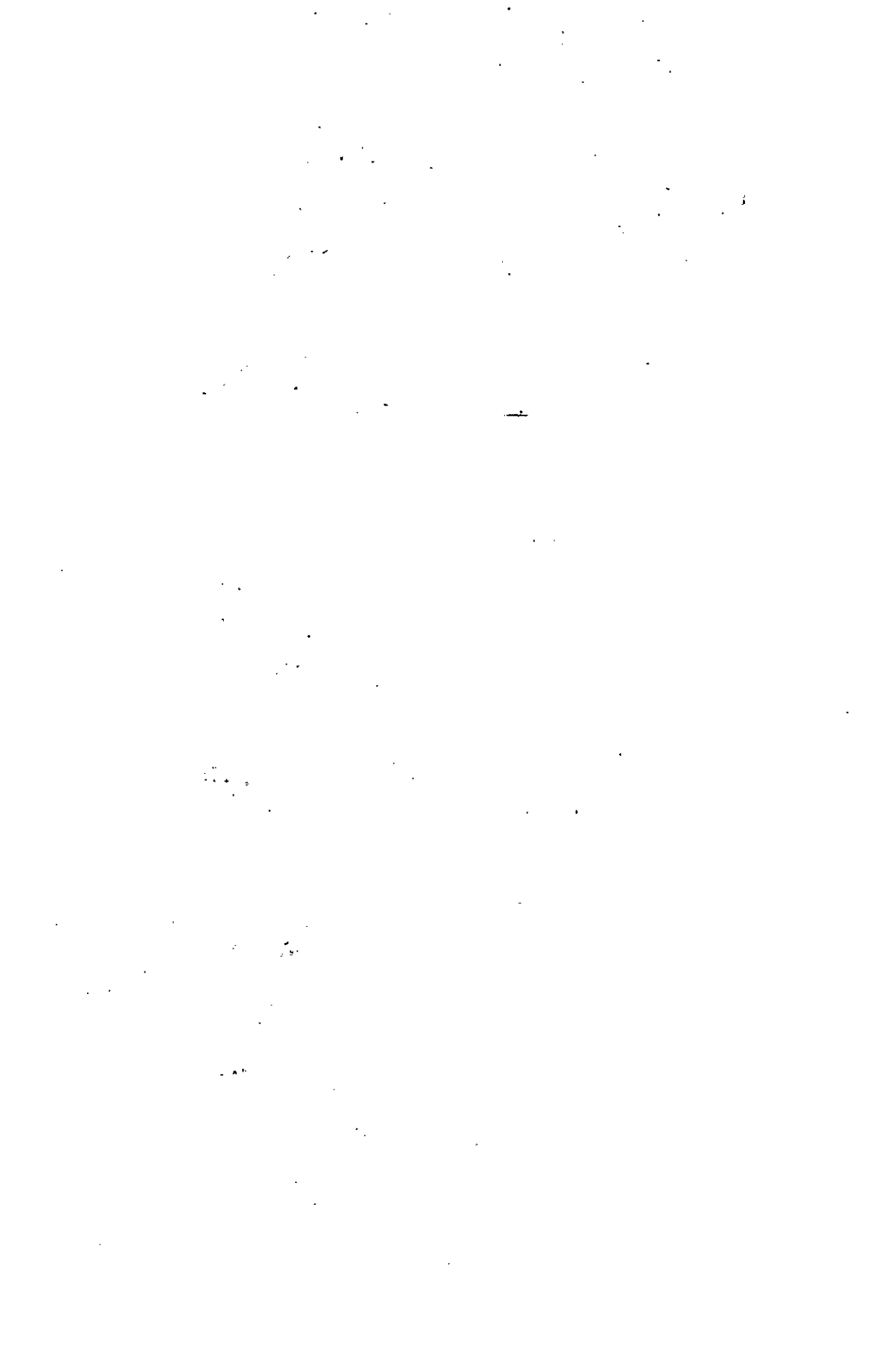
Assist. Prof. Dr. Mohamed Atia Hussein

*Assist. Prof. of Cardiothoracic Surgery
Faculty of Medicine
Ain Shams University*

**Faculty of Medicine
Ain Shams University**

2001

DR. 
Fauziya Abdel Fatah
Khaled M. Nety



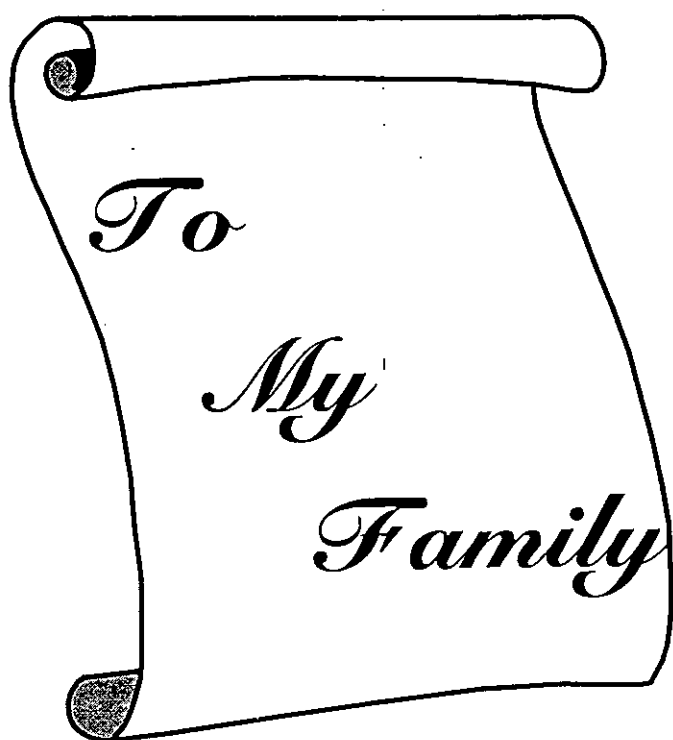
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَمَا أُوتِيتُمْ مِنَ الْعِلْمِ

إِلَّا قَلِيلًا

صدق الله العظيم

الاسراء (٨٥)



Acknowledgment

I would like to express my sincere appreciation and deep gratitude to **Prof. Dr. Mahmoud Sherif Mostafa**, Professor of Anesthesia and Intensive Care, Faculty of Medicine, Ain Shams University, for giving me the advance of working under his supervision. It is a great honor to work under his helpful guidance.

It gives me a great pleasure to express my deep gratitude to **Prof. Dr. Mohamed Abdel Khalek Mohamed Aly**, Professor of Anesthesia and Intensive Care, Faculty of Medicine, Ain Shams University, for his kind advice, valuable supervision and his great efforts throughout this work.

I would like to extend my sincere appreciation and thanks to **Assist. Prof. Dr. Mohamed Atia Hussein**, Assist. Prof. of Cardiothoracic Surgery, Faculty of Medicine, Ain Shams University, for his guidance, and constant assistance throughout my work.

Dina Yehia

LIST OF CONTENTS

	Page
Introduction.....	1
Aim of the work.....	3
Review of Literature	
Cardiovascular physiology	4
Ventricular function.....	35
Autonomic innervation of the heart.....	53
Pharmacology of inotropes.....	81
Pulmonary circulation.....	102
Mitral stenosis.....	125
Pulmonary artery catheterization.....	134
Patients and Methods	149
Results	160
Discussion	199
Conclusion and Recommendations	210
Summary.....	212
References.....	215
Arabic Summary	

