



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية
@ ASUNET



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

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



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل

**A COMPARISON OF TRANSOESOPHAGEAL
ECHOCARDIOGRAPHIC DOPPLER ACROSS THE
AORTIC VALVE AND THERMODILUTION TECHNIQUE
FOR ESTIMATION OF CARDIAC OUTPUT**

THESIS

**SUBMITTED IN PARTIAL FULFILLMENT OF M.D.
DEGREE IN ANESTHESIOLOGY AND INTENSIVE CARE**

By

Gehad Mohamed Fouad Gaafar

(M.B., B.Ch., M. Sc.)

Supervised by

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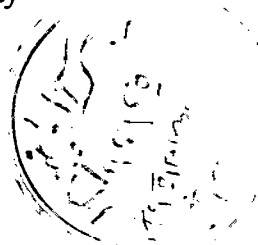
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**FACULTY OF MEDICINE
BENHA UNIVERSITY**

2005



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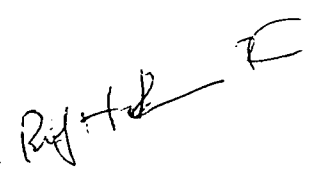
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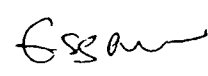
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قالوا سبحانك لا علم لنا إلا ما
علمنا إنك أنت العزيز الحكيم

(البقرة - ٣٢)

صدق الله العظيم

Acknowledgement

*I wish to express my deep gratitude and profound appreciation to **Prof. Dr. Hoda Rezkanna**, Professor and Chairman of Anesthesiology and Intensive Care, Benha Faculty of Medicine, for her continuous encouragement, endless support and precious advice. Her friendly attitude has been my inspiration during the preparation of this work. I wish she was not exhausted so much during this work.*

*I would like to express my sincere gratitude and appreciation to **Prof. Dr. Sherif Abd El-Hady**, Consultant of Cardiothoracic Surgery, National Heart Institute, for his valuable help, enthusiastic support, cooperation, and encouragement. He offered me a lot of his unlimited experience in this research*

*I would like to express my deepest thanks and gratitude to **Dr. Hussein Abdul Monean**, Assisant Professor of Anesthesiology and Intensive Care, Benha Faculty of Medicine for his real help, support and guidance. He has been always a good giver as will as a bountiful tributary to knowledge. For his kind concern, I will remain always remembering.*

*I am very grateful to **Dr. Mohamed Osama Taha Hussein**, Fellow of Cardiology, National Heart Institute for his help in the practical part of this work, meticulous revision, continuous guidance and assistance and generous help.*

*I am also deeply indebted and grateful to **Dr. Essam Makrum**, Lecturer of Anesthesiology and Intensive Care, Benha Faculty of Medicine for his endless support, real continuous help, stimulating advice and encouragement throughout this work.*

Gehad

LIST OF ABBREVIATIONS

A peak	Late diastolic flow
ACE	Angiotensin-converting enzyme
ADH	Antidiuretic hormone
Ang	Angiotensin
ANP	Atrial natriuretic hormone
AVN	Atrioventricular node
A-V valves	atrioventricular valves
AVP	Vasopressin
Bp	Blood pressure
bpm	Beat per minute
BSA	Body surface area
C	Compliance
CAD	Coronary artery disease
CABG	Coronary artery bypass graft
C.O	Cardiac output
Ca ⁺⁺	Calcium
cAMP	Cyclic adenosine monophosphate
CI	Cardiac index
cm	Centimeter
CPB	Cardiopulmonary bypass
CSA	Cross sectional area
CVP	Central venous pressure
Cx	Circumflex artery
CO	cardiac output
dP	Change in pressure
dt	Change in tension

dV	Change in volume
EF	Ejection fraction
E peak	Early diastolic flow
E/A ratio	Ratio between the previous two abbr.
EDP	End diastolic pressure
EDV	End diastolic volume
EDVs	End diastolic volumes
ESPVR	End systolic pulmonary vascular resistance
ESV	End systolic volume
F	Force
gm	Gram
h	Right or left ventricular wall thickness
HR	Heart rate
KLV	Left ventricular stiffness
L	Length
LAD	Left anterior descending artery
LAP	Left atrial pressure
Lmax	Optimal length of an isolated muscle as maximal tension is developed
LV	Left ventricle
LVEDP	Left ventricular end diastolic pressure
LVEDV	Left ventricular end diastolic volume
MVO ₂	Cardiac oxygen consumption
NO	Nitric oxide
P	Pressure
PA	Pulmonary artery
PAC	Pulmonary artery catheter
PADP	Pulmonary artery diastolic pressure
PCWP	Pulmonary capillary wedge pressure