

A PROSPECTIVE COMPARATIVE STUDY BETWEEN INOUE & DOUBLE- BALLOON MITRAL VALVULOPLASTY IN AIN SHAMS UNIVERSITY HOSPITALS

THESIS

Submitted for Partial Fulfillment of
The Master Degree in **CARDIOLOGY**

By

Yasser Mohamed Huzayen

Supervised By

Prof. Dr. Ali Ramzi Abdel-Magied

*Professor of Cardiology, Faculty of Medicine,
Ain Shams University*

Prof. Dr. Mohamed Awad Taher

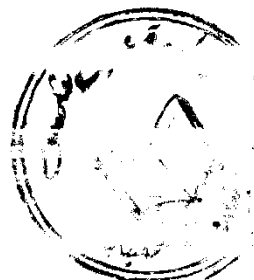
*Professor of Cardiology, Faculty of Medicine,
Ain Shams University*

Dr. Hany Fouad Hanna

*Lecturer of Cardiology, Faculty of Medicine,
Ain Shams University*



**Faculty of Medicine
AIN SHAMS UNIVERSITY
(1998)**





بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**" فَأَمَّا الزبد فيذهب جُفَاءً وأما ما
ينفع الناس فيمكث في الأرض "**

صدق الله العظيم

سورة الرعد : آية ١٧

To My Family

Acknowledgement

It is indeed a privilege to express my immense gratitude and appreciation to Prof. Dr. *Ali Ramzy Abdel-Magied*, Professor of Cardiology, Faculty of Medicine, Ain Shams University, for his great support, help and guidance.

I am greatly and deeply indebted to Prof. Dr. *Mohamed Awad Taher*, Professor of Cardiology, Faculty of Medicine, Ain Shams University, for his kind guidance and generous effort throughout this work.

I would also like to express my great thanks to Dr. *Hany Fouad Hanna*, Lecturer of Cardiology, Faculty of Medicine, Ain Shams University, for his great help, encouragement and follow-up of every detail of the work.

Many thanks are to Prof. Dr. *Anwar Shawky* and Prof. Dr. *Essam Shawky*, for the help in extended language and statistics.

Many thanks are also to Dr. *Yasser Gomaa* and dr. *Sameh Sabet*, for their effort in echocardiography.

Last, but not least, my thanks to the Department of Cardiology for support, guidance and help.

CONTENTS

	Page
Introduction & Aim of the Work	1
Review of Literature	
♦ Anatomy	4
♦ Pathology of Mitral Stenosis	8
♦ Historical Development	11
♦ Previous Comparative Studies Between Both Technique	43
Patients and Methods	49
Results	58
Discussion	83
Summary	92
Conclusion	94
Recommendations	95
References	97
Appendix	--
Arabic summary	--

LIST OF ABBREVIATIONS

AR	Aortic Regurgitation
ASD	Atrial Septal Defect
AV	Atrioventricular
BSA	Body Surface Area
C.O.P.	Cardiac Output
DB	Double Balloon
EBDA	Effective Balloon Dilating Area
ECG	Electrocardiogram
Echo	Echocardiography
IAS	Interatrial Septum.
IB	Inoue Balloon
ICU	Intensive Care Unit
LA	Left Atrium
LAA	Left Atrial Appendage
LAD	Left Anterior Division
LV	Left ventricle
MR	Mitral Regurgitation
MV	Mitral Valve
MVA	Mitral Valve Area
PBMV	Percutaneous Balloon Mitral Valvuloplasty
PM	Papillary Muscle
PVCs	Premature Ventricular Contractions
SD	Standard Deviation
TMPG	Transmitral Pressure Gradient.
TTE	Transthoracic Echocardiography
VF	Ventricular Fibrillation

LIST OF TABLES

No	Title	Page
1	Description of age of patients	50
2	Rhythm of patients	51
3	Main presentation of patients	51
4	MVA before and after	60
5	TMPG before and after	62
6	ASD after BMV	65

