

# بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



HOSSAM MAGHRABY



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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# جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم  
قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي هذه الأقراص المدمجة قد أعدت دون أية تغييرات



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الأصلية تالفة



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بالرسالة صفحات

لم ترد بالأصل



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B 15971

**Effect of Mitral valve Surgery on left atrial and  
pulmonary artery pressures**

Thesis submitted in Partial fulfilment of the  
Requirement of Master Degree in  
**GENERAL SURGERY**

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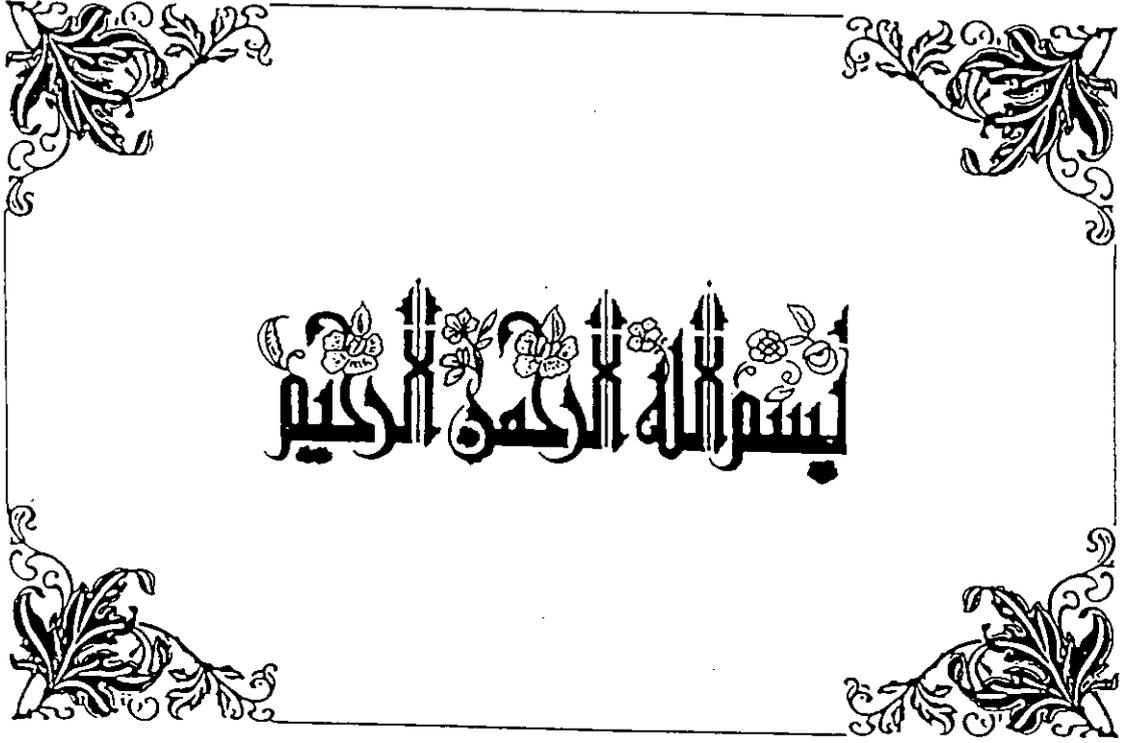
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1992

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَقَدْ رَئَيْتَنِي خَلَا  
صَدَقَ اللَّهُ الْعَظِيمِ



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

*TO.....*

*THE MEMORY*

*OF MY PARENTS*

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# CONTENTS

<b>Introduction.....</b>	<b>1</b>
<b>Aim of the work.....</b>	<b>3</b>
<b>Review of Literature.....</b>	<b>4</b>
* <i>Pulmonary circulation.....</i>	<i>4</i>
* <i>Pulmonary hypertension.....</i>	<i>10</i>
* <i>Reversibility of Pulmonary hypertension.....</i>	<i>14</i>
* <i>Effect of rheumatic fever on the mitral valve.....</i>	<i>16</i>
* <i>Haemodynamic changes in Mitral valve disease.....</i>	<i>20</i>
* <i>Effect of Mitral valve surgery on left atrial and pulmonary artery pressure.....</i>	<i>33</i>
<b>Patients and Methods.....</b>	<b>42</b>
<b>Results.....</b>	<b>49</b>
<b>Discussion.....</b>	<b>82</b>
<b>Summary and Conclusion.....</b>	<b>96</b>
<b>References.....</b>	<b>100</b>
<b>Arabic Summary</b>	

# INTRODUCTION

## INTRODUCTION

In many areas of the third world, rheumatic heart disease continues to be a problem with high mortality and morbidity (John, Krishnaswami, Jairaj et al., 1975)<sup>(1)</sup>

Mitral stenosis is frequently associated with left atrial hypertension and pulmonary hypertension with increased pulmonary vascular resistance. (Block and Palacios, 1988)<sup>(2)</sup>

Mitral insufficiency is frequently associated with left atrial hypertension and reduction of systemic blood flow. (Spencer, 1983)<sup>(3)</sup>

Haemodynamic studies have demonstrated reversibility of pulmonary vascular resistance after mitral valve operations. (Block et al., 1988)<sup>(2)</sup>

When severe pulmonary hypertension is present pre-operatively, it will likely regress towards normal after mitral valve replacement. It seems related largely to sudden reduction of left atrial pressure and to reversal of severe spastic pulmonary vasoconstriction that accompanies left atrial hypertension in some patients. (Kirklin and Barratt - Boyes, 1986)<sup>(4)</sup>

Studies of pulmonary hypertension in patients undergoing mitral valve surgery have shown that pulmonary vascular

resistance can decrease. However, the results were not uniform and in some studies pulmonary vascular resistance did not decline. (Block et al., 1988)<sup>(2)</sup>