سامية محمد مصطفى

شبكة المعلومات الجامعية

# بسم الله الرحمن الرحيم


سامية محمد مصطفى

شبكة المعلومات الجامعية


# شبكة المعلومات الجامعية

# التوثيق الالكتروني والميكروفيلم


شبكة المعلومات الجامعية

سامية محمد مصطفى

# جامعة عين شمس

## التوثيق الإلكتروني والميكروفيلم

# قسم

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

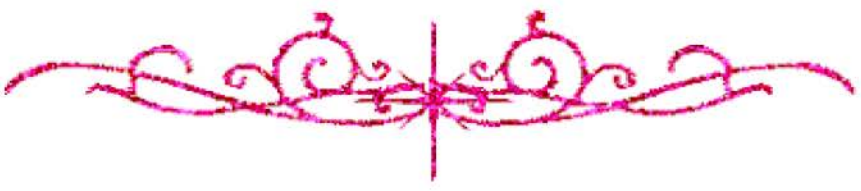

# يجب أن

## تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

سامية محمد مصطفى

شبكة المعلومات الجامعية


# بعض الوثائق الأصلية تالفة



سامية محمد مصطفى

شبكة المعلومات الجامعية


# بالرسالة صفحات لم ترد بالأصل

# Impaired left ventricular filling in hypertensive left ventricular hypertrophy as a marker of the presence of arrhythmogenic substrate

*Protocol of thesis subjected for the partial fulfillment of the Master Degree of Cardiology*


**By**

**Nayel Ahmed Sayed Radwan**

*M.B.B.Ch.*

**Supervised by**

**Prof. Dr. Ali Ahmed El-Abd**

*Professor of Cardiology*

*Faculty of Medicine*

*Ain Shams University*

**Dr. Saied Khaled**

*Professor of Cardiology*

*Faculty of Medicine*

*Ain Shams University*

**Dr. Osama Abd El-Aziz Rifaay**

*Assisstant prof. of Cardiology*

*Faculty of Medicine*

*Ain Shams University*



*Faculty of Medicine*

*Ain Shams University*

*1998*

# Acknowledgement

# Acknowledgement

I would like to thank Prof. Dr. **Ali Ahmed El-Abd,** Professor of cardiology, Faculty of Medicine, Ain Shams University for his fatherhood and great help which was essential to overcome the troubles and obstacles met during the performance of the present work. His suggestions, advises and guidance were fruitful.

I would also like to thank, Prof. Dr. **Saied Khaled** Professor of cardiology, Faculty of medicine Medicine, Ain Shams University, who provided me with courage, scientific sense, and references which were really the rich sources, and guides for this present study.

Many thanks are due to Prof. Dr. **Osama Abd El-Aziz Rifaay**, Assisstant professor of cardiology, Faculty of medicine, Ain Shams University, for his continuous supervision and guidance all through this work.

# Table of contents


| | |
|---|---|
| **Introduction** | **1-2** |
| **Aim of work** | **3** |
| **Review of literatures** | |
| • *Hypertension* | 4 – 24 |
| • *Late diastolic potentials* | 25 – 46 |
| **Patients and methods** | **47** |
| **Results** | **56-73** |
| **Discussion** | **74 – 78** |
| **Summary and conclusion** | **79 – 80** |
| **References** | **81 – 101** |
| **Arabic summary** | **102** |
| **Appendix** | **** |

# List of abbreviations

**LVH:** Left ventricular hypertrophy.

**ECG:** Electrocardiogram.

**LVM:** Left ventricular mass.

**ACE inhibitor:** Angiotensin converting enzyme inhibitor.

**LV:** Left ventricle.

**2-D Echo:** Two dimensional echocardiography.

**DT:** Deceleration time.

**AFF:** Atrial filling fraction.

**IVRT:** Isovolumetric relaxation time.

**LBBB:** Left bundle branch block.

**SAECG:** Signal averaged ECG

**RMS:** Root mean square.

**LAS:** Low amplitude signal.

**A/D:** Analogue/digital.

**VT:** Ventricular tachycardia.

**VF:** Ventricular fibrillation.

**μ V:** microvolt.

**Msec.:** Millisecond.

**LVIDD:** Left ventricular internal diastolic dimensions.

**IVST:** Interventricular septal thickness.

**PWT:** posterior wall thickness.

**BP:** Blood pressure.

D

**Kg:** Kilogram.

**Cm:** centimeter.

**AT:** atrial tachycardia.

**PVCs:** premature ventricular contractions.

**SVT:** Supravnetricular tachycardia.

**EDD:** End diastolic dimension.

**ESD:** End systolic dimension.

**E time:** E deceleration time.

**LVMI:** Left ventricular mass index.

**EF:** Ejection fraction.

**FS:** Fraction shortening.

**PVF:** Pulmonary venous flow.

**SD:** Standard deviation.

**LDPs:** Late diastolic potentials.