

127, 17 27, 17 (20) 77, 17 (20









جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



نقسم بللله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأفلام قد اعدت دون آية 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 %



ثبكة المعلومات الجامعية





Information Netw. " Shams Children Sha شبكة المعلومات الجامعية @ ASUNET بالرسالة صفحات لم ترد بالأص



Usefulness OF Echocardiographic Left Ventricular Hypertrophy IN Relation TO

ATHEROTHROMBOTIC BRAIN INFARCTION

THESIS

Submitted for partial fulfillment of The degree of M.SC. In Radiodiagnosis

BY

MOHAMED ALAA ALSAYED MOHAMED
(M.B,B.CH)

SUPERVISED BY

Dr. MOHAMED THARWAT MAHMOUD SOLIMAN

Assistant professor of radiodiagnosis

Sohage faculty of medicine

South valley university

Dr. HASSAN AHMED HASSANEIN

Assistant professor of medicine

Sohage faculty of medicine

South valley university

SOHAGE FACULTY OF MEDICINE

SOUTH VALLEY UNIVERSITY

13 ^

`



العظنيم

سورة پوسف: آية رقر (٧٦)

TO MY PARENTS WITH MY BEST WISHES

ACKNOWLEDGMENT

Firstly I do thank for ALLAH for all gifts gave me.

I would like to express my great indetedness to **Dr Mohamed Tharwat Mahmoud Soliman** Assistant Professor of Radiodiagnosis, Sohag Faculty of Medicine; South Vally University, for suggesting the subject of this work and his valuble advices and,skillful help by his benficial experience in CT diagnosis, encouragement and endless persistant support and keen supervesion.

My sicncer thanks and extreme gratitude to **Dr Hassan Ahmad Hassanein** Assistant Professor of Medicine, Sohag Faculty of Medicine ;South Vally University,for his kind and continuous supervesion , his helpful advices specially in the section of Echocardiographyand his constant oncouragement during this work.

I would like to extend my great thanks and feeling of gratitude to all members of Radiology and Medicine Departments including Doctors ,Technecian and Nurses for their support and helpful participation.

MOHAMED ALAA ALSAYED



CONTENTS

*Introduction1
*Aim of the work4
* Review of the litrature5
-Definition of stroke5
-Classifications of stroke6
-Diagnosis of cerebral infarction18
-Compareson between CT and MRI in infarction23
-Risk factors of brain infarction24
*Patients and Methods29
*Results33
*Discussion60
*Summary67
*Conclusion69
*References70
*Arabic summary