شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

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 الوثائـــــــق الاصليـــــة تالفـــة

بالرسالة صفحات لم ترد بالاصل

Non-invasive quantification of subclinical atherosclerosis in newly diagnosed type 2 diabetic patients

Thesis
Submitted for partial fulfillment of the MD degree in Internal Medicine

By

Ashraf Gharieb Amer Dala
M.B., B.Ch., M.Sc., Assistant lecturer of Internal Medicine

Supervisors

Prof. Dr. / Sanaa Sayed Gazareen
Prof. And head of department of Internal Medicine,
Faculty of Medicine, Menoufiya University

Prof. Dr. / Gihan Kamal El-Saeed
Prof. Of clinical and chemical pathology,
Faculty of Medicine, Menoufiya University

Prof. Dr. Mohammad Ramadan El-Kholy
Prof. And head of department Of Radiodiagnosis
Faculty of Medicine, Menoufiya University

Prof. Dr. Ibrahim Mohammad Boghdady
Prof. Internal Medicine
Faculty of Medicine Menoufiya University

Dr. Ali Zaky Galal
Assistant Prof. Internal Medicine
Faculty of Medicine Menoufiya University

Faculty of Medicine
Menoufiya University
2004

Acknowledgement

First of all, my prayerful gratitude should be submitted to the merciful *Allah*, whose help I always seek and without his willing I will achieve nothing.

My sincere gratitude and great appreciation to *Prof. Dr./* ***Sanaa Sayed Gazareen,*** Prof. and Head of Internal Medicine Department for her kind supervision, continuous encouragement, valuable advice and assistance. She was devoted to the supervision of this work.

A special debt of gratitude and appreciation is acknowledged to *Prof. Dr./* ***Ibrahim Mohammad Boghdady,*** Prof. of Internal Medicine for his kind supervision, continuous encouragement, wise advice and guidance in the fulfillment of this work.

My warmest appreciation to Prof. *Dr. /* ***Gihan Kamal El-saeed,*** Prof. Of Clinical and Chemical pathology for her supervision, sincere guidance and continuous encouragement she gave me through the work.

I would like to express my deepest gratitude and appreciation to *Prof.Dr./* ***Mohammad Ramadan El-Kholy,*** Prof. and Head of Radiodiagnosis Department for his kind supervision, continuous encouragement, wise advice and guidance.

A special word of thanks is due to *Dr /* ***Ali Zaky Galal,*** Assistant Prof. Internal Medicine for his guidance, valuable cooperation, unlimited helpful and advise through the work.

Furthermore, I would like to express my best feelings to all members, nurses and workers of Internal Medicine Department who extended to me a helping hand and to every one who friendly helped me and all patients or volunteers who participated in carrying out this work

Ashraf Gharieb Amer Dala
2004

Contents

List of abbreviations

ADA: American Diabetes Association
AGE: Advanced glycation endproducts
ARIC: Atherosclerosis risk in community
CCA: Common carotid artery
CFA: Common femoral artery
CHD: Coronary heart disease
CRP: C-reactive protein
DCCT: Diabetes control and complication Trial
EDIC: Epidemiology of Diabetes Interventions and Complications
FBG: Fasting blood glucose
GDM: Gestational Diabetes Mellitus
HbA1c: Glycosylated hemoglobin
HDL: High-Density lipoproteins
HLA: Human leucocytic antigen
HMG-coA: 3-hydroxy-3-methylglutaryl coenzyme A
HOPE: Heart Outcome Prevention Evaluation
IAAs: Insulin Autoantibodies
ICAs: islet cell autoantibodies
IGT: Impaired glucose tolerance
IMT: Intima media thickness
IRAS: Insulin resistance atherosclerosis study
IRS: Insulin receptor substrate
MODY: maturity onset diabetes of the young
NDDG: National diabetes data group
NHANES III: Third National Health And Nutrition Examination Study
NOS: Nitric Oxide Synthase
OGTT: Oral glucose tolerance test
PAI: Plasminogen activator inhibitor
PVD: Peripheral vascular disease
PWV: Pulse wave velocity
ROS: Reactive Oxygen Species
SBP: systolic blood pressure
SLE: Systemic lupus erythematosus
SR-B1: Scavenger receptor B1
SR-C1: Scavenger receptor C1
TNF: Tumour necrosis factor
UKPDS: United Kingdom Prospective Diabetes Study
VEGF: Vascular Endothelial cell Growth Factor
VSMCs: Vascular smooth muscle cells
WBC: White blood cell
WOSCOPS: West Of Scotland Prevention Study

List of Tables

List of Figures