LIPIODOL ENHANCED CT SCANNING IN ASSESSMENT OF HEPATOCELLULAR CARCINOMA

THESIS
SUBMITED FOR PARTIAL FULFILLMENT
FOR M.D. Degree In General Medicine

By
Amal Mohamed El Sadek Mohamed
M.B.B. Ch, M. Sc

Supervised By

Prof. Dr. Anwar abd El Mohsen
Prof. Of Internal Medicine
Faculty of Medicine
Ain Shams University

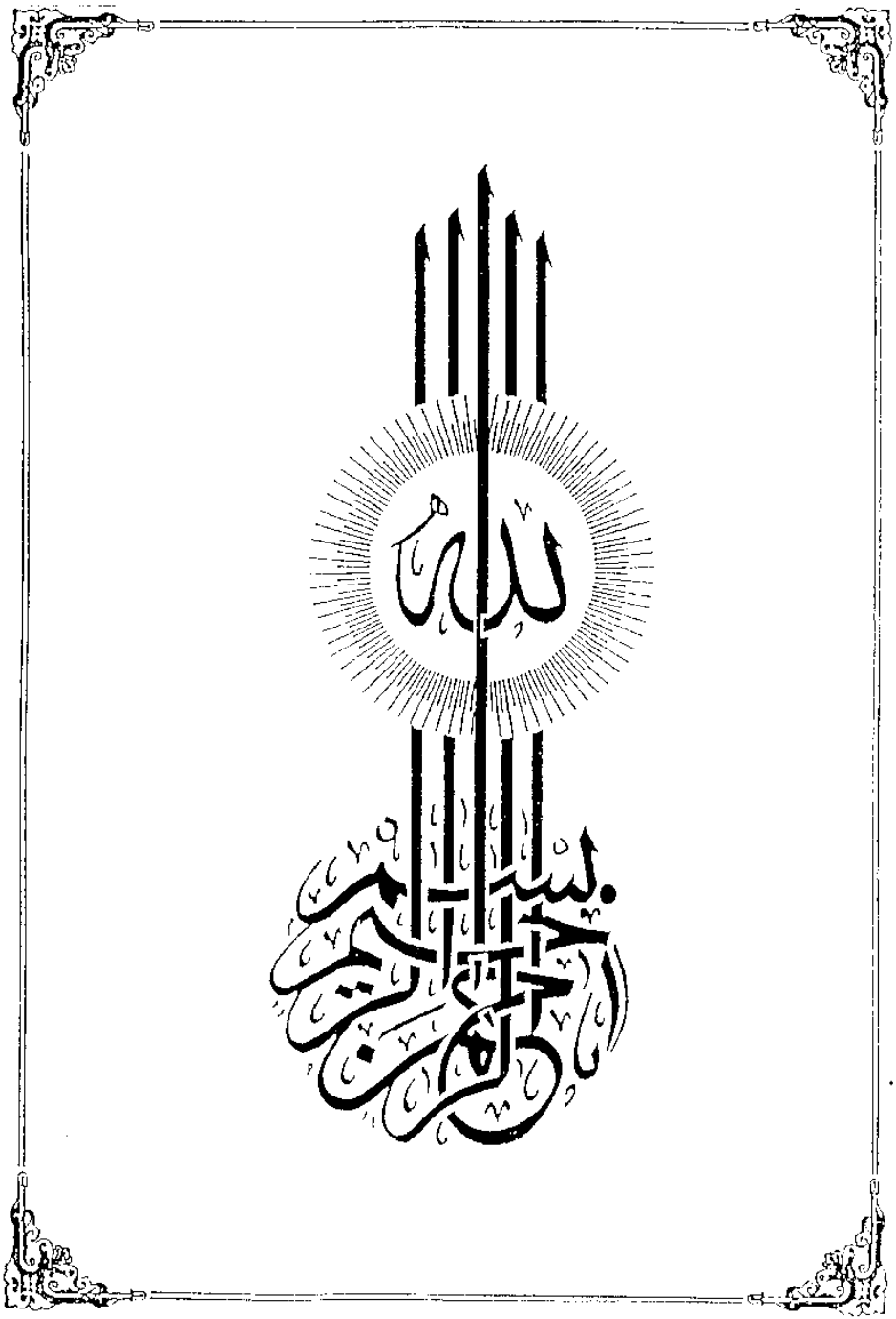
Dr. Salwa Ibrahim El Haddad
Prof. of Pathology
Faculty of Medicine
Ain Shams University

Dr. Abd El Fatah Abd El Salam
Prof. of Iternal Medicine
Faculty of Medicine
Ain Shams University

Dr. Omar Hussein Omar
Prof. of Radiology
Faculty of Medicine
Ain Shams University

Dr. Mohamed A. H. El Bokl
Prof. of Iternal Medicine
Faculty of Medicine
Ain Shams University

Faculty of Medicine
Ain Shams University
1999



بسم الله الرحمن الرحيم

وقل رب زدني علماً

صدق الله العظيم

LIPIODOL ENHANCED CT SCANNING IN ASSESSMENT OF HEPATOCELLULAR CARCINOMA

THESIS
SUBMITED FOR PARTIAL FULFILLMENT
FOR M.D. Degree In General Medicine

By
Amal Mohamed El Sadek Mohamed
M.B.B. Ch, M. Sc

Supervised By

Prof. Dr. Anwar abd El Mohsen
Prof. Of Internal Medicine
Faculty of Medicine
Ain Shams University

Dr. Salwa Ibrahim El Haddad
Prof. of Pathology
Faculty of Medicine
Ain Shams University

Dr. Abd El Fatah Abd El Salam
Prof. of Iternal Medicine
Faculty of Medicine
Ain Shams University

Dr. Omar Hussein Omar
Prof. of Radiology
Faculty of Medicine
Ain Shams University

Dr. Mohamed A. H. El Bokl
Prof. of Iternal Medicine
Faculty of Medicine
Ain Shams University

Faculty of Medicine
Ain Shams University
1999

Acknowledgment

For all my supervisors, I'd like to express my deepest gratitude for their harmony work and kind directions.

Much dignity for ***Prof. Dr. Anwar Abd El-Mohsen*** *for his fine encouragement, direful experience and best guidance all through this work.*

All my thanks for ***Prof. Dr. Abd El-Fattah Abd El-Salam*** *for his sincere work, enormous effort and support .*

For ***Prof. Dr. Mohamed A. H. El-Bokl****, I offer all my honor for his grand attention and fruitful revision.*

I want to express also my deep feelings for ***Prof. Dr. Salwa Ibrahim El-Haddad*** *for her pleasant assistance, glowing and faithful role.*

I'm also grateful for Prof. ***Dr. Omar Hussein Omar*** *and acknowledge him for his helpful role and kind care.*

My deepest gratitude for ***Prof. Dr. Ahmed Kamal El-Dorry*** *for his elegence work and kind assistance.*

For ***Prof. Dr. Mohamed Abd Ghani,*** *I want to offer him a gift full of thanks for his assistance.*

CONTENTS

List of Tables

List of Figures

List Of Abbreviation

Abbr.	The name
AFP.	Alpha feto-protien
CNR	Contrast to Noise Ratio
CSF	Cerebro spinal fluid.
CT	Computerized Tomography
CTAP	CT Arterial portography
DSA	Digital subtraction Angiography.
FNH	Focal Nodular hyperplasia
Gd-DTPA	Gadolinium dimethylene Triamine penta acetic acid
GRASS	Gradient recalled acquisition at steady state
H.U.	Housefield Units
HA	Hepatic artery
HBV	Hepatitis B Virus
HCC	Hepato cellular Carcinoma
HCV	Hepatitis C Virus
IOCT	Iodized oil CT.
IR	Inversion recovery .
MRI	Magnetic Resonance Imaging
NRH	Nodular regenerative hyperplasia
OLT	Orthotopic liver transplantation
PEI	Percutaneous ethanol injection
PV	Portal Vein
SE	Spain-echo
SNR	Signal to-noise-ratio
SPECT	Single photon emission computed tomography
TACE	Transcatherther arterial chemoembolization
TE	Time Echo
TR	Time Repitition
U/S	Ultrasonography.