Ain Shams University
Faculty of Medicine
Department of Radiodiagnosis

Role of Multidetector Computed Tomographic Angiography In Evaluation of Renovascular Hypertension

Essay
Submitted for Fulfillment of the **Master Degree**
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Presented By

Ahmed Mousa Qwaider

M.B, B.CH.
Faculty of Medicine - Cairo University

Supervised by

Prof. Dr. Sahar Mohamed El Gaafary

Professor of Radiodiagnosis
Faculty of Medicine - Ain Shams University

Dr. Rasha Salah El Din Hussein

Lecturer of Radiodiagnosis
Faculty of Medicine - Ain Shams University

Department of Radiodiagnosis
Faculty of medicine
Ain shams University
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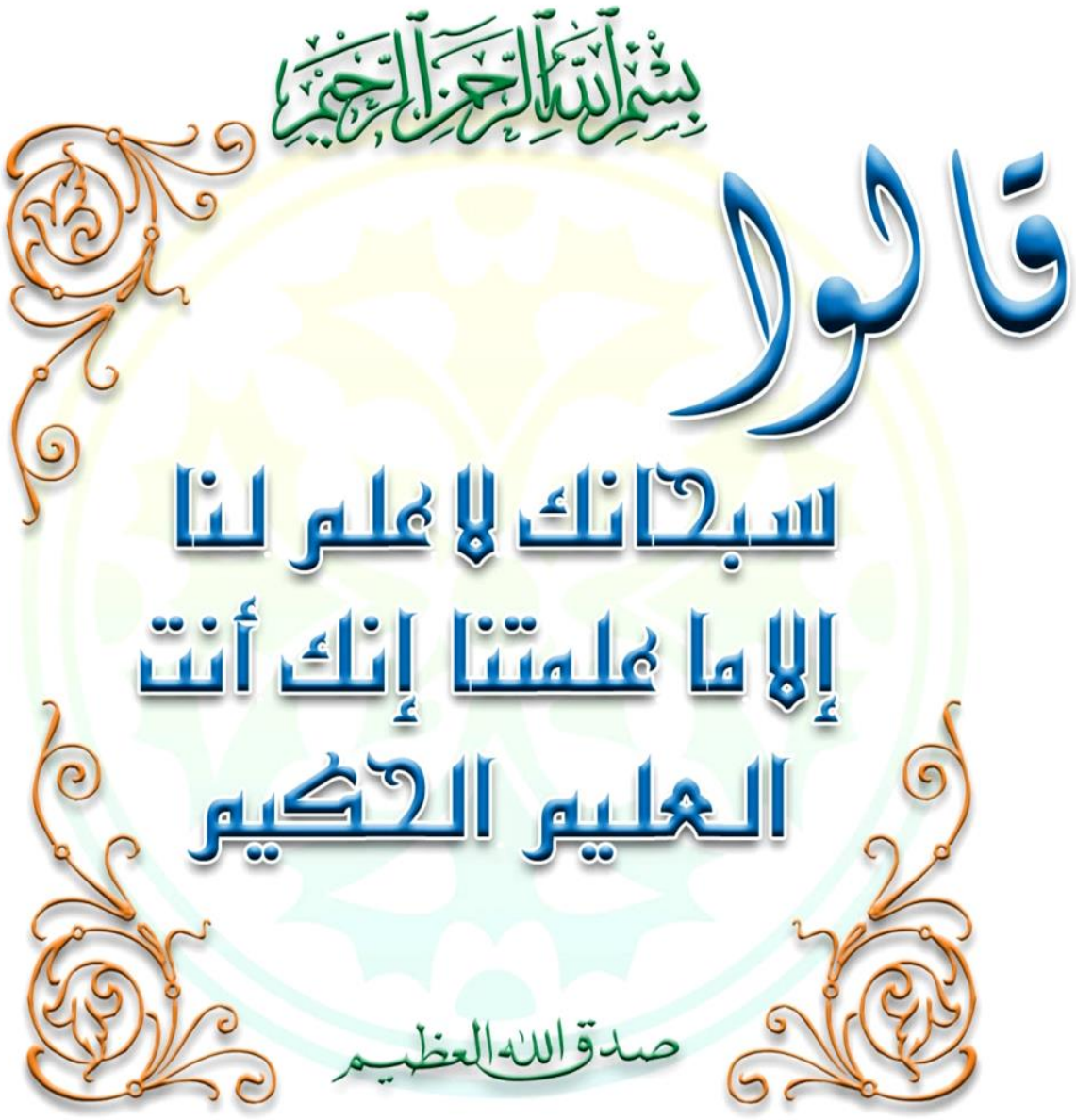

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Ahmed Mousa Qwaider

This Work is Dedicated to

THE SOUL OF MY FATHER

DR. MOUSA RABAH QWAIDER

WHO

MADE ME THE MAN THAT I AM TODAY

May Allah forgive him and grant him his highest paradise (Ameen).

List of Abbreviations

Abbreviation :	Full-term
3D	: Three dimensions
AAA	: Abdominal Aorta Aneurysm
ACE	: Angiotensin Converting Enzyme
ACR	: American College of Radiology
AF	: Atrial fibrillation
AHA	: American Heart Association
AKI	: Acute kidney injury
ALARA	: As Low As Reasonably Achievable
ARAS	: Atherosclerotic renal artery stenosis
ARB	: Angiotensin receptor blocker
AV	: Arteriovenous Shunts
AVF	: Arteriovenous Fistula
AVM	: Arteriovenous Malformation
CAD	: Coronary artery disease
CHF	: Congestive heart failure
CIN	: Contrast Induced Nephropathy
CKD	: Chronic kidney disease
CM	: Contrast media
CPR	: Curved planar reformatting
CT	: Computed Tomography
CTA	: Computed Tomographic Angiography
DNA	: Deoxyribonucleic acid
DSA	: Digital Subtraction Angiography
FMD	: Fibromuscular dysplasia
GFR	: Glomerular filtration rate
HTN	: Hypertension
HU	: Hounsfield unit
IV	: Intra-venous

IVC : Inferior vena cava
mA : Milliampere
MAL : Median arcuate ligament
MAS : Middle Aortic Syndrome
MDCT : Multi Detector Computed Tomography
MDCTA : Multi Detector Computed Tomographic Angiography
MIP : Maximum intensity projection
mmHg : Millimeters of mercury
MPR : Multi-planar reformatting
MRA : Magnetic Resonance Angiography
MRI : Magnetic Resonance Imaging
NF1 : Neurofibromatosis
NSAID : Nonsteroidal anti-inflammatory drug
PAD : Peripheral artery disease
PAN : Polyarteritis nodosa
PCE : Peak contrast enhancement
PTA : Percutaneous transluminal angioplasty
RAA : Renal artery aneurysm
RAAS : Renin Angiotensin Aldosterone System
RAD : Renal artery dissection
RAS : Renal artery stenosis
RVD : Renovascular disease
RVHT : Renovascular hypertension
SDCT : Single Detector Computed Tomography
sec : Second
SRAD : Spontaneous renal artery dissection
SSD : Shaded surface display
TA : Takayasu's arteritis
US : Ultrasonography
VR : Volume rendered

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