



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكروفيلم

# بسم الله الرحمن الرحيم



**MONA MAGHRABY**



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكرو فيلم



# شبكة المعلومات الجامعية التوثيق الإلكتروني والميكرو فيلم



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# جامعة عين شمس

## التوثيق الإلكتروني والميكروفيلم

### قسم

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**MONA MAGHRABY**

# **ADVANCES IN FUNCTIONAL MYOCARDIAL VIABILITY IMAGING**

**ESSAY**

Submitted For Partial Fulfillment of  
Master Degree in Radiodiagnosis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

# قالوا

لَسْبَحَانَكَ لَا عِلْمَ لَنَا  
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ  
الْعَلِيمُ الْعَظِيمُ

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### **List of abbreviations**

18 F-FDG	18F-Fluorodeoxyglucose
201 Tl	Thallium-201
99mTc	Technetium-99m
AAR	Area at Risk
ACE	Angiotensin-Converting Enzyme
ACS	Acute Coronary Syndrome
ADC	Apparent Diffusion Coefficient
AL	Anterolateral
AMI	Acute Myocardial Infarction
AS	Anteroseptal
ASL	Arterial Spin Labeling
ATP	Adenosine Triphosphate
BOLD	Blood Oxygenation Level Dependent
C	Carbon
CABG	Coronary Artery Bypass Grafting
CAC	Coronary Artery Calcium
CAD	Coronary Artery Disease
CCT	Coronary Computed Tomography
CCTA	Coronary Computed Tomography Angiography
CeMRI	Contrast Enhanced Magnetic Resonance Imaging

CEST	Chemical Exchange Saturation Transfer
CMR	Cardiac Magnetic Resonance
Cr	Creatine
CT	Computed Tomography
CVD	Coronary Vascular Disease
CZT	Cadmium-Zinc-Telluride
D	Dimensional
DE-MRI	Delayed enhanced Magnetic Resonance Imaging
DT-CMR	Diffusion Tensor Cardiac Magnetic Resonance
DTI	Diffusion Tensor Imaging
DT-MRI	Diffusion Tensor Magnetic Resonance Imaging
DWI	Diffusion Weighted Imaging
ECG	Electrocardiogram
ECV	Extracellular Volume
EF	Ejection Fraction
EGE	Early Gadolinium Enhancement
ESC	European Society of Cardiology
FA	Fractional Anisotropy
FDG	Fluorodeoxyglucose
GBCAs	Gadolinium Based Contrast Agents
GFR	Glomerular Filtration Rate