# *THE ROLE OF DUAL SOURCE CT IN ASSESSMENT OF MYOCARDIAL PERFUSION*

*A Thesis*
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*M.D. degree of Radiodiagnosis*

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"قَالُوا سُبْحَانَكَ لاَ عِلْمَ لَنَا
إِلاَّ مَا عَلَّمْتَنَا إِنَّكَ أَنتَ الْعَلِيمُ الْحَكِيمُ"

صدق الله العظيم

سورة البقرة آية (٣٢)

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***Amgad Samy Abdel-Rahman***

# Abbreviations

2D ····· Two Dimensional
3D ····· Three Dimensional
Ao ····· Aorta
ASUSH ····· Ain Shams University Specialized Hospital
CAD ····· Coronary Artery Disease
CCA ····· Conventional Coronary Angiography
cCTA ····· Coronary Computed Tomography Angiography
CMR ····· Cardiac Magnetic Resonance
CT ····· Computed Tomography
CTA ····· Computed Tomography Angiography
CTP ····· Computed Tomography Perfusion
DECT ····· Dual Energy Computed Tomography
DSCT ····· Dual Source Computed Tomography
ECG ····· Electro-cardio-gram
EF ····· Ejection Fraction
FOV ····· Field of View
GCV ····· Great Cardiac Vein
HF ····· Heart Failure
i.e. ····· Id est (Latin: that is)
IHD ····· Ischemic Heart Disease
kV ····· Kilovoltage
LAD ····· Left Anterior Descending
LCA ····· Left coronary artery
LCx ····· Left Circumflex
LMCA ····· Left Main Coronary Artery
LV ····· Left Ventricle or left Ventricular
MDCT ····· Multi-Detector Computed Tomography
MI ····· Myocardial Infarction

MIP ····· Maximum Intensity Projection
MPR ····· Multiplanar Reformat
MR ····· Magnetic Resonance
MSCT ····· Multi-Slice Computed Tomography
msec ····· Millisecond
PD ····· Perfusion Defect
RCA ····· Right Coronary Artery
RWM ····· Regional Wall Motion
SD ····· Standard Deviation
SPECT ····· Single Photon Emission Computed Tomography
SSD ····· Shaded Surface Display

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