The role of 320 detector row CT perfusion in assessment of myocardial perfusion

A Thesis

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"قَالُوا سُبْحَانَكَ لاَ عِلْمَ لَنَا

إِلاَّ مَا عَلَّمْتَنَا إِنَّكَ أَنتَ الْعَلِيمُ الْحَكِيمُ"

صدق الله العظيمسورة البقرة آية (٣٢)

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Abbreviations

2D ····· Two Dimensional

3D ····· Three Dimensional

AHA……. American heart association

Ao ····· Aorta

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

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

MPI……..Myocardial perfusion index

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

TPR……Transmural perfusion rati

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