

Anatomical and Physiological Assessment

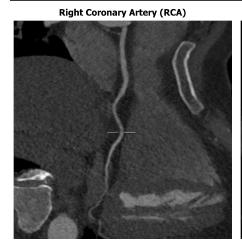
Information

Name	Physician	Age
ابراهیم یوسفی	دكتر دباغيان	55

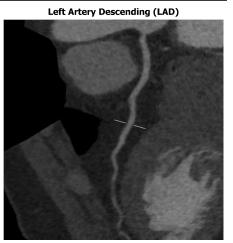
Non-invasive Flow Assessment

Non-invasive assessment computed from coronary images is a novel method for determining the physiologic significance of coronary artery disease (CAD). Specificity was significantly higher with NiFFR compared with coronary images (85% vs 57%), with comparable sensitivity of 88% and 81%, NiFFR demonstrated higher discrimination of lesion-specific ischemia when compared with coronary images. The chance of major cardiac events (MACE) is low

Hemodynamic Parameters







MACE	Blood Flow	Dominant
low	Normal flow	right dominant
TAWSS condition	TAWSS	ASCVD
low	1.49	5.38
Syntax Score II	Syntax Score I	Calcium Score
DAPT Condition	DAPT Score	Mortality for PCI and CABG year mortality of PCI and CABG is 4.51% and 3.82%, 4 respectively
FSS low (<22)	CMD is not seen	DAPT recommendtion
Index of Micro-vascular Resistance (IMR)		
IMR_RCA	IMR_LCX	IMR_LAD
27.44	23.65	23,65
Coronary Artery		
NiFFR_RCA	NiFFR_LCX	Niffr_LAD
(NiFFR = 0.90)	(NiFFR = 0.95)	(NiFFR = 0.90)

Angiography report

LM: patent LAD: patent Diagonal: patent LCX: patent OM: patent RCA: patent PDA: patent PLV: patent Discussion

Dominant

Coronary circulation with conventional anatomy is right dominant

TAWSS

Time average wall shear stress for coronary is low (TAWSS = 1.49Pa).

Calcium Score

Calcium score (CAC = 0), the chance of major cardiac events (MACE) is 5.38%. (low risk)

Micro-vascular Resistance

Index of Micro-vascular Resistance (IMR) for LAD, RCA and LCX are 23.65U, 27.44U and 23.65U, respectively, therefore coronary micro-vascular disease (CMD) is not seen in the patient (< 30U)

Time Average Wall Shear Stress

High TAWSS (> 8 Pa) causes the rupture of fatty plaques and low TAWSS increases atherosclerosis. TAWSS value is 1.49Pa (< 1.0 Pa). Therefore, blood flow is laminar in coronary artery

Functional Syntax Score

Functional syntax score (FSS) is , 4 year mortality of PCI and CABG is 4.51% and 3.82%, respectively Therefore Medical treatment under observation recommended, if the patient is asymptomatic

Physiologic Assessment

Recommendation

Medical treatment under observation recommended, if the patient is asymptomatic

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