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12-month Clinical Outcomes according to Infarct-Related Artery in NSTEMI Patients with Single Vessel Disease undergoing Percutaneous Coronary Intervention with DES

[1]Korea University Guro Hospital [2]ChonNam National University Hospital
Kanhaiya_L Poddar[1], Seung_Woon Rha[1], Sureshkumar Ramasamy[1], Ji_Young Park[1], Wang Lin[1], Myung_Ho Jeong[2], Byoung_Geol Choi[1], Cheol_Ung Choi[1], Hong_Euy Lim[1], Jin_Won Kim[1], Eung_Ju Kim[1], Chang_Gyu Park[1], Hong_Seog Seo[1], Dong_Joo Oh[1]

Background: Comparison of long term outcome of Percutaneous Coronary Intervention with Drug Eluting Stent (DES) in one major coronary artery in patient presenting with NSTEMI with single vessel coronary artery involvement. Method: The study population consisted of 1983 consecutive patients (pts) who presented with NSTEMI with single vessel disease and underwent PCI with DES. Results: Out of 1983 pts treated with PCI with DES, 806 pts (40.65%) had disease in LAD, 625 pts (31.51%) in LCX and 552 (27.84%) in RCA. Patients with lesion in RCA had significantly higher incidences Non-QMI, Non Target Vessel Revascularization (TVR) and all major adverse cardiac events (MACE) in 12 months period as compared to pts with LAD lesion and the same was seen in overall comparison between three major coronary arteries (Table). Conclusion: NSTEMI patients with RCA lesion as the only IRA seem to have higher incidences of MACE, Non-QMI and Non TVR in 12 months period as compared to patients having lesion in LAD or LCX coronary artery.

Table. 12-month Clinical Outcomes and Comparison between LAD, LCX and RCA group

Variables, n(%)	LAD group, 806 (40.65)	LCX group, 625 (31.51)	RCA group, 552 (27.84)	P-Value	OR (95% CI)
Total Death	8 (1.0)	13 (2.1)	12 (2.2)	0.372	1.14 (0.49-2.64)
Cardiac Death	5 (0.4)	10 (1.6)	4 (0.7)	0.084	2.83 (0.82-9.74)
MI	5 (0.6)	2 (0.3)	8 (1.4)	0.077	0.41 (0.12-1.30)
QMI	4 (0.5)	1 (0.2)	1 (0.2)	0.250	0.57 (0.02-8.74)
NQMI	1 (0.1)	1 (0.2)	7 (1.3)	0.021	0.13 (0.01-1.06)
Re-PCI	24 (2.9)	17 (2.2)	24 (4.4)	0.299	0.71 (0.42-1.20)
TLR	17 (2.1)	7 (1.1)	9 (1.6)	0.398	1.25 (0.53-2.92)
TVR	23 (2.9)	10 (1.6)	17 (3.1)	0.232	0.86 (0.44-1.66)
Non-Target Revas	1 (0.1)	4 (0.6)	7 (1.3)	0.044	0.39 (0.11-1.38)
MACE	50 (6.2)	45 (7.2)	56 (10.1)	0.042	0.59 (0.39-0.90)

Variables, N (%)	LAD vs. LCX	LAD vs. RCA	LCX vs. RCA
Total Death	0.160	0.234	0.823
Cardiac Death	0.059	0.574	0.072
MI	0.246	0.133	0.053
QMI	0.099	0.388	0.999
NQMI	0.618	0.030	0.059
Re-PCI	0.929	0.170	0.153
TLR	0.128	0.599	0.469
TVR	0.153	0.631	0.080
Non-Target Revas	0.135	0.014	0.167
MACE	0.555	0.012	0.080