Transradial Intervention

Thursday, April 25, 2013

2:00 PM ~ 6:00 PM

(Abstract no. AS-211)

AS-211

Impact of Trans Radial Versus Trans Femoral Approach of

Primary PCI on Door to Balloon Time. <u>Tapan Ghose</u>, Upendra Kaul, Ranjan Kachru, Ripen Gupta, Abid Hussain. Fortis Flt LT Rajan Dhall Hospital, New Delhi, India.

Background: Door to balloon (D2B) time during primary percutaneous coronary intervention (PCI) is an important determinant of quality of care. Switching from trans femoral approach (TFA) to trans radial approach (TRA) results in lower incidence of major bleeding and allows early ambulation. There is limited data on the impact of switch from femoral to radial route on D2B time.

Methods: In this case control study we compared the D2B time, radiation exposure and, procedural outcome between TFA and TRA. All patients who underwent primary PCI by TRA between February 2011 to August 2012 served as cases (Group A, n=24). Age and sex matched individuals from the primary PCI data bank of

our hospital who underwent PCI by TFA served as controls (Group B) (n=24).

Results:

Demographic Variables &Outcomes	Group A	Group B (n=24)	p value
Age	40±12.5	40±13.5	NS
Male	20 (83.33)	18 (75%)	NS
Hypertension	10 (41.66%)	12 (50%)	NS
Diabetes	6 (25%)	7 (24%)	NS
Smoking	7 (24%)	6 (25%)	NS
Dyslipidaernia	10 (41.6%)	12 (50%)	NS
D2B time, median (min)	38	40	NS
D2 ECG time (min)	9	10	NS
ECG to Cath Lab arrived (min)	15	14	NS
Arrival to device activation (min)	14	16	NS
Fluro Time	$20.5 {\pm} 12.8$	$25.8{\pm}14.5$	NS
Cumulative Air Kerma (mGy cm2)	2850+800	2750+920	NS
Cumulative DAP (mGy cm2)	146200+1232	147200+1139	NS
TIMI III flow	22 (91.66)	23 (95.83)	NS
TMP Grade	2 (8.2)	1 (7.1)	NS
1	2 (8.2)	2 (8.2)	NS
2	20 (83.33)	21 (87.5)	NS
3	0	0	NS
In Hospital and 30 day MACE LVEF (Mean + SD)	38+16.5	37+23.7	NS

Conclusion: We conclude that switch over from transfermoral to transradial approach for primary PCI during AMI management is associated with similar door to balloon time, radiation exposure and procedural outcome at 30 days.