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PREDICTORS OF EARLY, LATE AND VERY LATE (UP TO 12 YEARS) STENT THROMBOSIS FOLLOWING DRUG-ELUTING STENT IMPLANTATION IN DAILY PRACTICE: A SUBANALYSIS OF THE DESIRE REGISTRY

Poster Contributions

Poster Hall B1

Saturday, March 14, 2015, 10:00 a.m.-10:45 a.m.

Session Title: Coronary I

Abstract Category: 32. TCT@ACC-i2: Complex Patients/Comorbidities

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Background: Stent thrombosis (ST) has been described as a rare event in the current percutaneous coronary intervention (PCI) era; however, its occurrence has been associated with increased morbimortality. Our purpose was to identify the predictors of ST in a large cohort of patients treated with drug-eluting stents (DES) in daily practice.

Methods: A total of 5,614 pts (9,045 lesions) undergoing elective for emergency PCI solely with DES (n=9,680) as a default strategy were enrolled between May/02-Aug/14. Clinical follow-up (FU) was performed at 1, 6 and 12 months and yearly up to 12 years (97%). ST was defined according to the propositions of the Academic Research Consortium.

Results: Mean age was 64.6 years, 32% had diabetes, 21.4% had previous myocardial infarction (MI) (≥ 30 days), and 42% had acute coronary syndrome or recent MI (< 30 days). Overall, the incidence of ST was 2.4% (n=133), given that 95% of patients were ST-free up to 12 years follow-up (Kaplan-Meier estimate). The predictors of early (< 30 days), late (1 to 12 months) and very late ST (> 12 months) are shown in the Table.

Conclusion: The occurrence of ST up to 12 years was relatively low (2.4%) and significantly associated with history of cardiovascular disease, diabetes, recent MI and total stent length at an early phase; prior PCI, recent MI, SVG, lesion complexity and stent type between 1 and 12 months; and prior PCI, recent MI and total stent length more than 12 months.

Early ST	Odds Ratio	95% CI		p value
History of cardiovascular disease	6.15	1.37	20.09	0.01
Diabetes mellitus	3.06	1.12	9.13	0.03
Recent MI (< 30 days)*	4.86	1.33	14.54	0.01
Total stent length	1.03	1.00	1.05	0.01
Late ST	Hazard Ratio	95% CI		p value
Prior PCI	1.47	0.96	2.26	0.08
Recent MI (< 30 days)**	2.62	1.57	4.38	< 0.001
SVG	2.61	1.54	4.41	< 0.001
Lesion class type C (ACC/AHA)	1.75	1.04	2.94	0.04
Second generation DES	0.45	0.21	0.96	0.04
Very Late ST	Hazard Ratio	95% CI		p value
Prior PCI	1.63	1.01	2.63	0.05
Recent MI (< 30 days)*	2.38	1.12	5.05	0.02
Recent MI (< 30 days)**	2.25	1.19	4.23	0.01
Total stent length	1.02	1.00	1.03	0.01

*up to 72 hours. **between 72 hours and 30 days.