

Single Drug Eluting Stenting of Bifurcation lesions: Importance of Final Kissing Balloon Post-Dilation

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Background: previous studies revealed that stent deformation due to the opening of a strut is a constant phenomenon that must be corrected by final kissing balloon [FKB] inflation. Moreover, it was observed that the opening of a stent strut into a side branch may improve angiographic results of the side branch ostium.

Objective: explore the clinical benefits of FKB in bifurcation lesions stenting using one Drug eluting stent technique.

Methods & Results: The study included 189 patients. 76% with acute coronary syndromes. In 56% of cases sirolimus-eluting stents [Cypher] were used.

	No FKB [n=64]	FKB [n=125]	P-value
Age [y]	64±12	63±11	0.9
Male	84%	70%	0.04
DM	30%	34%	0.6
LAD/DIAG	72%	59%	0.04
6 months Death	0%	0.8%	0.5
6 months MI	7.8%	3.2%	0.2
6 months Definite Stent thrombosis	1.6%	1.6%	0.99
6 months TVR	7.8%	4%	0.2
6 months CABG	7.8%	0.8%	0.01
6 months MACE	14.1%	6.4%	0.07

Conclusions: Our results would indicate that a systematic final kissing balloon during PCI in bifurcation lesions using one drug eluting stent technique may be associated with favorable clinical results.