



Chronic CAD/Stable Ischemic Heart Disease

CLINICAL RESULTS OF RETROGRADE APPROACH IN PCI FOR CTOS: COMPARISON BETWEEN 2009 AND 2010 WITH MULTICENTER REGISTRY DATA IN JAPAN

ACC Moderated Poster Contributions

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Background: In recent years, we attained higher procedural success in percutaneous coronary interventions (PCI) for chronic total occlusions (CTO) due to development of devices and techniques. Therefore we have established Retrograde Summit to investigate the current status in Japan and promote the improvement of initial success in CTO-PCI. We retrospectively collected retrograde procedural data of CTO-PCI performed in 2010 and compared it with that of in 2009 to see the change of procedural trend and clinical results.

Methods: We investigated 378 and 423 retrograde procedural cases performed in 2009 and 2010 respectively in 28 Japanese hospitals and evaluated the changes of strategies and procedural success rate.

Results: Overall procedural success was achieved in 318 lesions (84.1%) in 2009 and 361 lesions (85.3%) in 2010. Retrograde procedural success was slightly increased (70.4% vs. 71.9%). The procedure characteristics such as attempted retrograde collateral channels, type of guidewire and CTO crossing strategy were different (see the table) and also procedure time was decreased (203.3+84.4 min vs. 187.9+84.1 min, p=0.0235).

Conclusion: There were changes in strategy and device selection throughout the years with slight improvement in success rate. We speculate most of the observed changes were brought with approval of Corsair catheter and we can expect to contribute in safer and more successful clinical outcome by encouraging the proper usage of the devices.

Details of retrograde procedure

		2009 (378)	2010 (423)	P value
Use of Corsair microcatheter, % (n)		36.0% (136)	95.3% (403)	<0.0001
Attempted retrograde collateral channel, %	Septal	66.7%	56.5%	0.00631
	Epicardial	29.9%	39.8%	
	Bypass Graft	3.4%	3.8%	
Successful retrograde collateral channel cross. % (n)		80.4% (304)	83.9% (355)	0.1952
Type of guidewires successfully crossed retrograde collateral channels, %	Fielder FC	69.1%	66.7%	0.0225
	Fielder XT	25.0%	14.9%	
	ASAHI SION/SION blue	1.3%	14.1%	
	Others	4.6%	4.3%	
CTO cross, % (n)		70.6% (267)	74.9% (317)	0.1710
CTO crossing strategy, %	Reverse CART	41.8%	65.6%	<0.0001
	CART	11.8%	1.6%	
	Retrograde wire technique	24.0%	21.8%	
	Kissing wire technique	22.4%	11.0%	