Very Long-term Outcomes of DES

Adnan Kastrati Deutsches Herzzentrum München, Germany





Disclosure Statement of Financial Interest

I, Adnan Kastrati DO NOT have a financial interest/arrangement or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.





Long-Term Outcomes after DES in Native Vessels and Venous Grafts

- Five-year results of the ISAR-CABG trial
- Ten-year results of the ISAR-TEST 4 trial











ISAR-CABG: Primary endpoint



TCTAP 2019

ISAR-CABG, Lancet 2011



ISAR-CABG: Secondary endpoints



TCTAP 2019

ISAR-CABG, Lancet 2011



ESC Guidelines 2014 – treatment of venous graft failure–

Repeat revascularization

Recommendations	Class ^a	LoE ^b	Ref ^c
Disease progression and late graft failure			
Repeat revascularization is indicated in patients with severe symptoms or extensive ischaemia despite medical therapy if technically feasible.	1	В	54,143
PCI should be considered as a first choice if technically feasible, rather than re-do CABG.	lla	С	
PCI of the bypassed native artery should be the preferred approach, if technically feasible.	lla	С	
IMA, if available, is the conduit of choice for re-do CABG.	- I	В	481
Re-do CABG should be considered for patients without a patent IMA graft to the LAD.	lla	В	481
Re-do CABG may be considered in patients with lesions and anatomy not suitable for revascularization by PCI.	ПЬ	С	
PCI may be considered in patients with patent IMA graft if technically feasible.	IIb	С	
DES are recommended for PCI of SVGs.	I.	Α	489-495
Distal protection devices are recommended for PCI of SVG lesions if technically feasible.		В	484,485



ISAR-CABG 5-year outcomes





ISAR-CABG 5-year results, JACC 2018



ISAR-CABG 5-year outcomes





ISAR-CABG 5-year outcomes



ISAR-CABG 5-year results, JACC 2018



ISAR-CABG 5-year outcomes Limitations

Most of the DES used were 1° generation DES



ISAR-CABG 5-year outcomes Conclusions

In patients undergoing PCI of SVG lesions:

Safety outcomes for DES and BMS remained comparable at long-term follow-up

The advantage of DES over BMS demonstrated at 1 year was lost at 5-year follow-up due to higher attrition of efficacy in the DES group





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Methods ISAR-TEST 4 study design





* = in patients without complete follow-up out to 10 years, median follow-up interval was 5.9 years

CVRF

Results primary endpoint: MACE at 10 years





Kufner et al., Circulation 2019



Results all-cause mortality at 10 years





Kufner et al., Circulation 2019



Results def/prob stent thrombosis at 10 years



TCTAP 2019

Kufner et al., Circulation 2019



Conclusions of ISAR-TEST 4 @ 10 years

In this unique long-term analysis...

- New-generation DES are superior to early-generation n DES in terms of clinical outcomes
- The favorable outcome after new-generation DES is driven by increasing event rates over time in patient s treated with early-generation DES
- Both, biodegradable polymer-based sirolimus-eluti ng stents and permanent polymer-based everolimus -eluting stents showed comparable clinical outcom es out to 10 years





Thank you for your attention!



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