

Drug-Eluting vs. Bare Metal Stents in Saphenous Vein Grafts: The Prospective Randomized BASKET-SAVAGE Trial

Raban V. Jeger, M.D., Ahmed Farah, M.D., Thomas Engström, M.D., Søren Galatius, M.D., Franz Eberli, M.D., Peter Rickenbacher, M.D., David Conen, M.D., Christian Mueller, M.D., Otmar Pfister, M.D., Michael Coslovsky, Ph.D., Christoph Kaiser, M.D., Norman Mangner, M.D., Gerhard Schuler, M.D., Matthias Pfisterer, M.D., and Sven Möbius-Winkler, M.D., for the BASKET-SAVAGE-Investigators

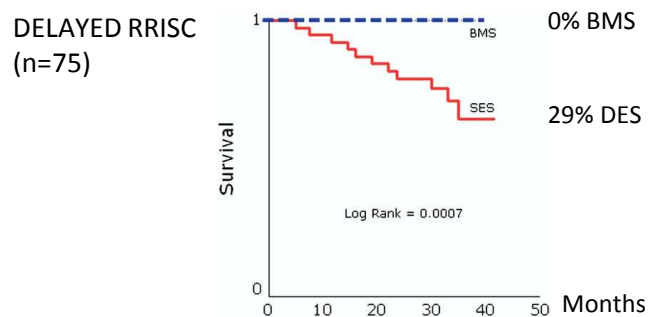
Funding:

Swiss National Science Foundation, Bern, Switzerland
Basel Cardiovascular Research Foundation, Basel, Switzerland
Boston Scientific Germany, Berlin, Germany

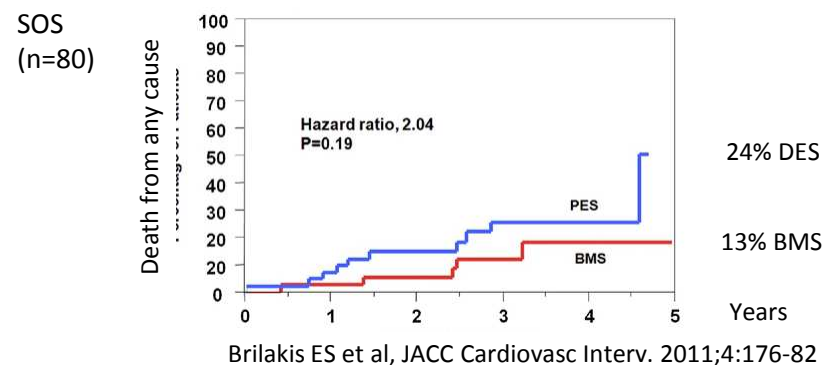


Background

- Saphenous vein grafts (SVG): different pathophysiology than native coronary vessels
- Poor outcomes after SVG PCI due to peripheral embolization of friable material and high incidence of restenosis and atherosclerotic disease progression
- Proven efficacy and safety of DES in SVG PCI up to 1 year
- Increased mortality in existing long-term data of DES in SVG PCI >1 year



Vermeersch P et al, J Am Coll Cardiol 2007;50:261-7



Brilakis ES et al, JACC Cardiovasc Interv. 2011;4:176-82

Declaration of Interest

WE
ARE THE
ESC

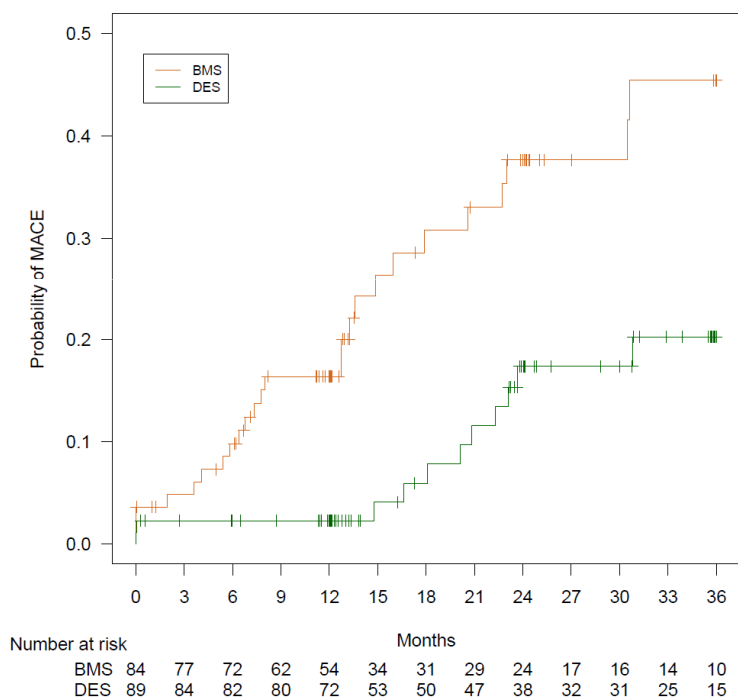
- None

Purpose and key points about methods

- **Aim: To assess the efficacy and safety of DES vs. BMS in SVG PCI**
 - Combination with distal protection devices and glycoprotein IIb/IIIa inhibitors
 - Large number of patients
 - Short- and long-term follow-up
- **Prospective multicenter RCT**
 - Patients with SVG lesions and an indication for PCI
 - Randomization 1:1 to DES (TAXUS Liberté) vs. BMS (Liberté)
 - Strongly recommended: Use of glycoprotein IIb/IIIa-inhibitors and distal protection devices (filter wire)
 - Sample size: 240 patients (two-sided α -level = 0.05, power = 80%)
- **Early termination of the study due to slow enrollment**
- **1° endpoint: MACE (cardiac death, non-fatal MI, and TVR) @ 12 months**
- **2° endpoints: Definitive/probable stent thrombosis, major bleeding, long-term follow-up (24, 36, 60 months)**

Results

MACE Long-Term Follow Up



Summary

	1 Year			Long-Term		
	BMS	DES	p	BMS	DES	p
MACE	17.9	2.3	<0.001	29.8	12.4	0.0012
Cardiac Death	1.2	0	0.41	3.6	4.5	0.95
Non-fatal MI	11.9	2.3	0.025	15.5	6.7	0.081
TVR	11.9	0	<0.001	19.1	4.5	<0.001
Major Bleeding	2.4	2.3	0.91	2.4	2.3	0.91
Stent Thrombosis	4.8	0	0.09	7.1	5.6	0.64
Non-cardiac Death	3.6	1.1	0.40	4.8	2.3	0.51

Conclusions

- **Confirmed efficacy and safety of DES vs. BMS in SVG PCI up to 1 year**
 - Significant reduction of MACE, MI, and TVR rates
 - Results comparable to native vessel PCI when DES combined with distal protection devices and glycoprotein IIb/IIIa inhibitors
- **Persistent efficacy and safety of DES vs. BMS in SVG PCI up to 3 years**
 - No increased late mortality risk