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2-Year Follow-Up of the First 100 Novoste Patients in Germany

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The Novoste System for intracoronary brachytherapy was applied for the first time in Germany, November 19th 1998. Mean age of the first 100 consecutive pats was 59 y, LV-EF 57 % with 48% in-stent restenosis. The dose applied was 18 +/- 3 Gy (14 - 22 Gy). The additional procedure time required for brachytherapy was 15 +/- 6.7 min. For pats with in-stent restenosis, radiation was performed at 303 +/- 185 days post implantation. Mean stent length was 23 +/- 11 (8-54) mm with a mean diameter of 2.9 +/- 0.3 mm (2-5 - 3-5 mm). Clinical follow-up was 100% and included PCI or CABG of the target vessel (summarized as TVR). In addition, MI and unstable angina were added resulting in total MACE. Conclusion: For de-novo lesions, the 2-year MACE of 62% is quite high. For in-stent restenosis, the 2-year MACE of the first Novoste pats in Germany with 46% is in the range between SCRIPPS-1 (38.5%), GAMMA-1 (41%) and WRIST (48%). Therefore the 2-year MACE for Beta radiation seems to be in the same range of Gamma radiation.

Follow-up results:

	de-novo lesion:	in-stent restenosis:
6 months:		
PCI/CABG (%)	19/2	10/3
MACE (%)	35	13

1 year:		
PCI/CABG (%)	25/6	21/8
MACE (%)	56	25
2 years:		
PCI/CABG (%)	27/6	36/8
MACE (%)	62	46

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