

# Clinical trials of Intravascular Brachytherapy for restenosis after PCI in all type of patients

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## 1 beta radiation

Trial	Treatments	Patients	Trials design and methods
<b>rhenuim-188 vs control</b>			
<b>Schhlen , 2001</b> n=NA follow-up: 6mo (12 mo)	rhenuim-188 liquid-filled balloon system versus no radiation	patients undergoing percutaneous transluminal coronary angioplasty for in-stent restenosis	Parallel groups open
<b>ECRIS , 2003</b> n=113/112 follow-up: 6 mo	Intracoronary beta-irradiation with a rhenuim-188-filled balloon catheter versus no additional intervention	patients with de novo and restenotic lesions	Parallel groups open Germany
<b>SPARE , 2004</b> n=104/83 follow-up: 9mo (3y)	rhenuim-188 filled balloon system versus control	patient with successful catheter-based treatment of de novo or restenotic lesion	Parallel groups open Korea
<b>P-32 vs placebo</b>			
<b>PREVENT , 2000</b> n=80/25 follow-up: 6 mo	intracoronary radiotherapy with the beta-emitting (32)P, 16, 20, or 24 Gy to a depth of 1 mm in the artery wall versus sham procedure	patients with de novo (70% ) or restenotic (30% ) lesions who were treated by stenting (61% ) or balloon angioplasty (39% )	Parallel groups double blind US
<b>INHIBIT , 2002</b> n=166/166 follow-up: 9 mo	intracoronary beta radiation with a phosphorus-32 source versus placebo	patients with in-stent restenosis and successful coronary intervention	Parallel groups double blind US
<b>START , 2000</b> n=244/232 follow-up: 8 mo	intracoronary radiation with 90Sr/90Y source versus placebo	patients with in-stent restenosis	Parallel groups double blind US

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## 2 gamma radiation

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Trial	Treatments	Patients	Trials design and methods
<b>iridium-92 vs placebo</b>			
<b>SCRIPPS , 1997</b> n=26/29 follow-up: 6 mo	catheter-based irradiation with iridium-192 versus placebo	patients with restenosis	Parallel groups double blind US
<b>WRIST , 2001</b> n=65/65 follow-up: 6 mo	intracoronary gamma-radiation with (192)Ir 15 Gy versus placebo	presented with symptoms of angina and angiographic evidence of in-stent restenosis	Parallel groups double blind
<b>GAMMA-ONE , 2001</b> n=131/121 follow-up: 9 mo	intracoronary radiotherapy with iridium-192 versus placebo	patients with in-stent restenosis	Parallel groups double blind US
<b>SVG-WRIST , 2002</b> n=60/60 follow-up: 12 mo	intravascular treatment with a ribbon containing iridium-192 versus placebo	patients with in-stent restenosis in saphenous-vein grafts	Parallel groups double blind US
<b>Long-WRIST , 2003</b> n=60/60 follow-up: 1 y	gamma radiation with 192Ir versus placebo	patients with diffuse long in-stent restenosis in native coronary arteries (lesion length, 36 to 80 mm)	Parallel groups double blind US

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