

Yukon[®] Chrome PC vs.
BioMatrix Alpha[™]
Synergy[™]
Orsiro
Ultimaster[®]



heart for the heart

Comparison of different biodegradable polymer DES

Yukon[®] Chrome PC vs. BioMatrix Alpha[™], Synergy[™], Orsiro, Ultimaster[®]

	Yukon [®] Chrome PC Translumina	BioMatrix Alpha [™] Biosensors
Stent Delivery System Ballon diameter	Cathy 4 2,0 - 4,0 mm	Powerline 2,25 - 4,0 mm
Stent System		
Material	CoCr Alloy (L605)	Cobalt-chromium alloy
Surface	Microporous	Electropolished
Strut Thickness	SV 68 µm / MV 79 µm	84 - 88 µm
Design / Connectors	2-connector design / 2	quadrature design / 2
Stent length (mm)	8, 12, 16, 18, 21, 24, 28, 32, 40 (52 sizes)	9, 14, 19, 24, 29, 33, 36 (38 sizes)
Crossing profile	0,89 mm (2,5 mm)	0,99 mm
Entry profile tip	0,41 mm	0,41 mm
Flexibility	+++	+++
Side branch access	+++	++
Stent Coating*		
Drug	Sirolimus	Biolimus A9
Polymer	PLA	PLA
Coating Thickness	3-5 µm	10 µm
Degradation Time	6-9 months	6-9 months
Coating Distribution	abluminal on stent and ballon * Identical to Yukon Choice PC	abluminal on stent only * Identical to Biomatrix
Clinical Studies		
Randomized controlled trials (n=patients enrolled)	ISAR-TEST 3 (n=605) ISAR-TEST 4 (n=2603) Meta-Analysis (n=4062)	Stealth 1 (n=120) Leaders (n=1707) Meta-Analysis (n=4062)

Synergy™ Boston Scientific	Orsiro™ Biotronik	Ultimaster® Terumo
Synergy Ballon 2,25 - 4,0 mm	Pantera 2,25 - 4,0 mm	Ryujin 2,25 - 4,0 mm
Platinum-chromium	Cobalt-chromium (L605)	Cobalt-chromium alloy
Electropolished	ProBio Coating (SiC)	Electropolished
74 – 81 µm	60 - 80 µm	80 µm
2/3 connector mix	Double helix / 2	2 connectors
8, 12, 16, 20, 24, 28, 32, 38 (48 sizes)	9, 15, 18, 22, 26, 30, 35, 40 (54 sizes)	9, 12, 15, 18, 24, 28, 33, 38 (48 sizes)
0,98 mm	0,99 mm	1,12 mm
0,43 mm	0,43 mm	0,43 mm
++	++	++
++	++	++
Everolimus	Sirolimus	Sirolimus
PLGA	PLLA	PLCL
4 µm	7,4; 3,5 µm (ab-/luminal)	15 µm
4 months	24 months	3-4 months
abluminal on stent	asymmetrical	abluminal on partial stent surface
Evolve (n=291), Evolve 2 (n=1684), Evolve DAPT (n=20001), Bio-Resort (n=3514), Sort-Out 8 (n=2525)	Bioflow 1 (n=30), Bioflow 2 (n=452), Bioflow 3 Registry (n=1356), Bioscience (n= 2119), Sort-Out (n=2525)	Century 1 (n=105) FIM Century 2 (n=1123) RCT Master (n=500) STEMI Discovery1-to-3 (n=60) OCT