

TCTAP 2017

Which Contemporary DES Do You Prefer? And Why?

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Disclosures

I hold patents related to DES technology



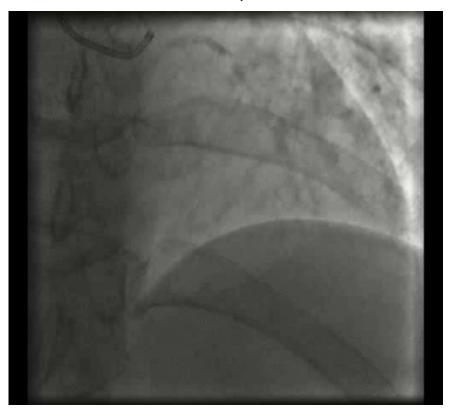




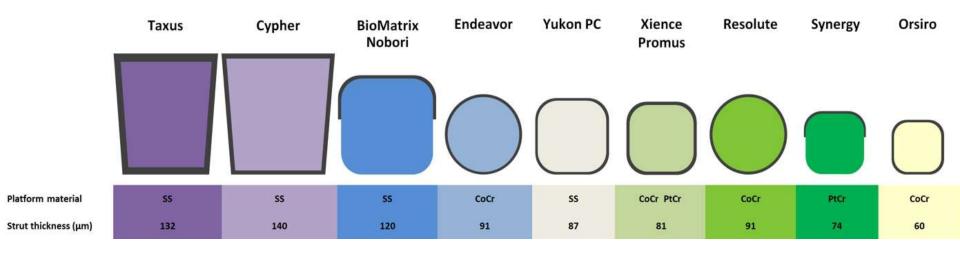
- A stent that can easily be placed where needed
- A stent supported by evidence for efficacy and safety
- An evidence-supported stent that better fits my belief

A stent that can easily be placed where needed nische Universität München

50 yr old patient, MV disease (diffuse disease of the LAD and RCA, disease of LCx)

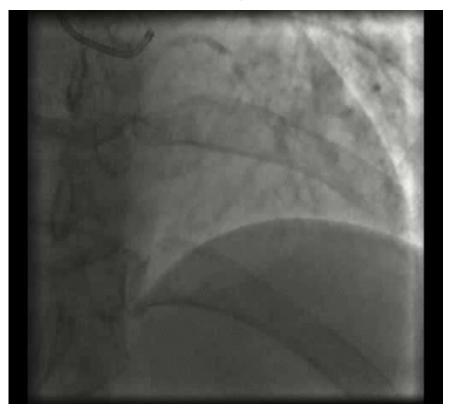


A stent that can easily be placed where needed nische Universität München

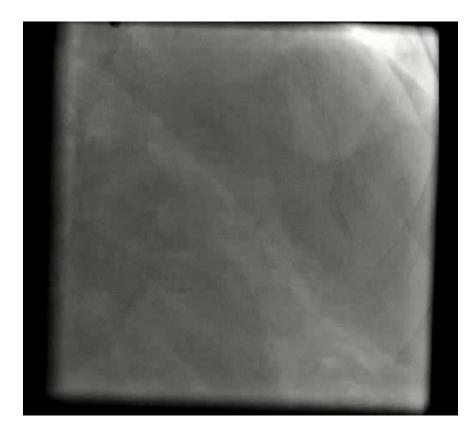


A stent that can easily be placed where needed nische Universität München

50 yr old patient, MV disease (diffuse disease of the LAD and RCA, disease of LCx)



6 Months after fixing LAD, LCX, RCA: a total of 10 stents

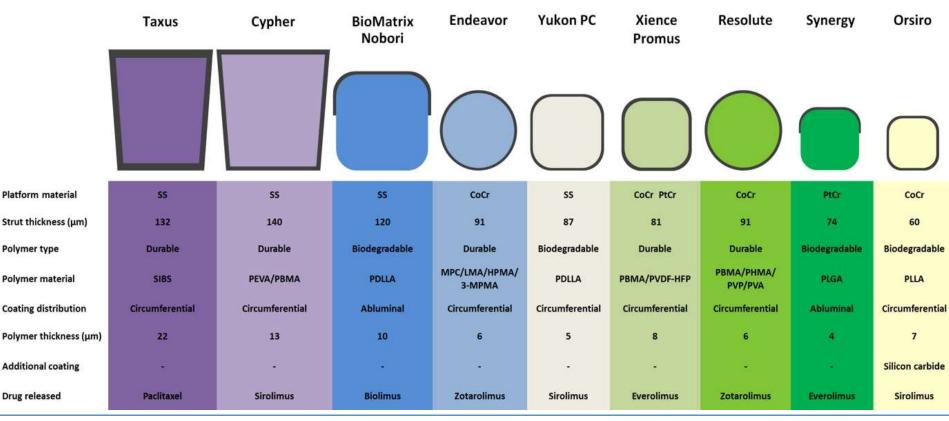






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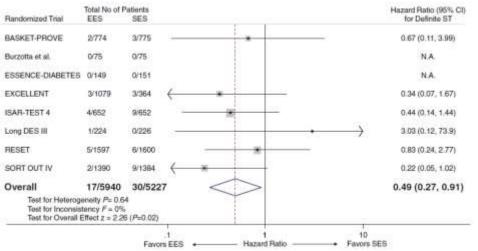
A stent supported by evidence for efficacy and safety



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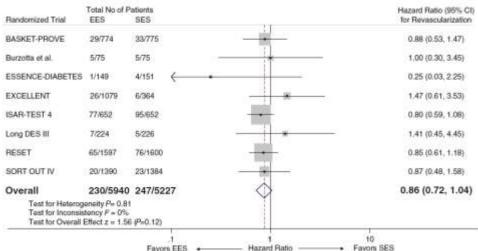
2° generation DES Clinical Evidence vs. 1° generation DES

RCTs of Xience vs. Cypher Definite ST





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De Waha et al, Clin Res Cardiol 2012

2° generation DES Clinical Evidence vs. 1° generation DES



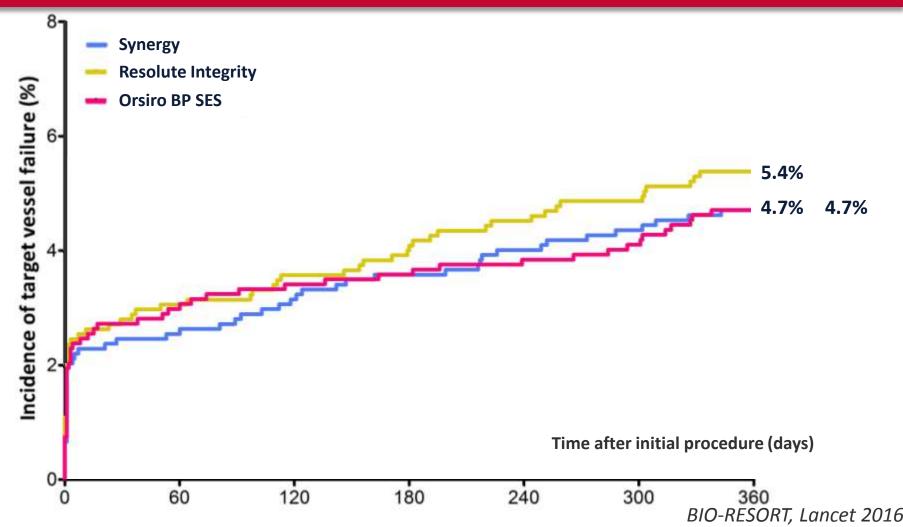
3.0 2.5 2.2% early-gen. DES Stent thrombosis, % 2.0 1.5% BMS 1.5 1.0% new-gen. DES 1.0 0.5 0 3 0 2 Yrs after procedure

18,334 pts with stents

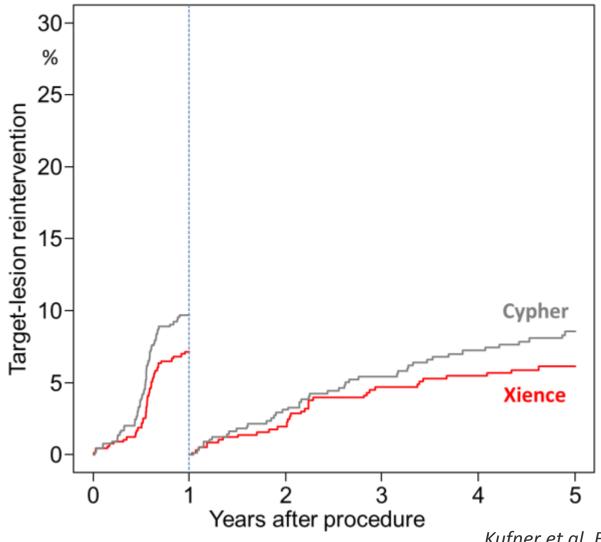
Tada et al, JACC Interv 2013

Thin-strut DES With Biodegradable Polymer Coatings: BIO-RESORT Trial

Primary Endpoint: Cardiac death or TV-related MI or TLR



Limitations of current DES Late luminal creep



Kufner et al, Eurointervention 2016

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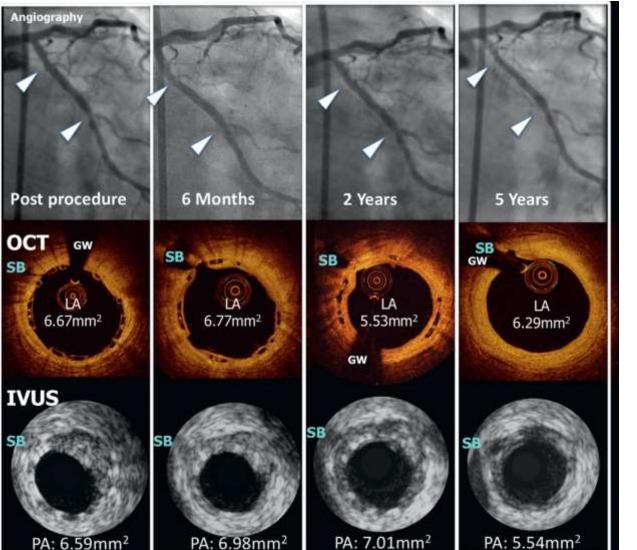
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...the best device is the device that leaves the least amount of material behind after accomplishing its mission

Is BRS my preferred drug-eluting device?



It leaves nothing behind after 3-4 years

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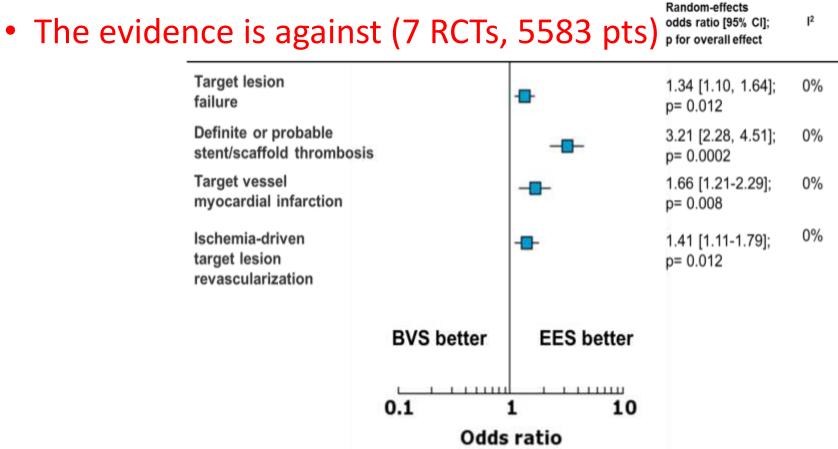
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Serruys et al, JACC 2016

27.04.2017 | ISAResearch Center

Is BRS my preferred drug-eluting device?

It leaves nothing behind after 3-4 years
but







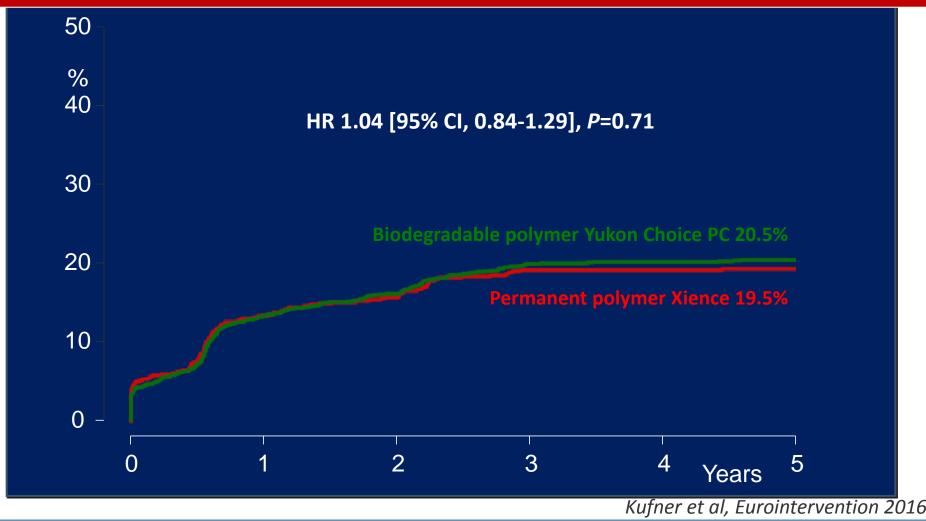


In accordance with the concept of "least amount of material left behind", a thin-strut stent with biodegradable polymer or no polymer at all might be preferrable

Although evidence does not show a measurable long-term advantage



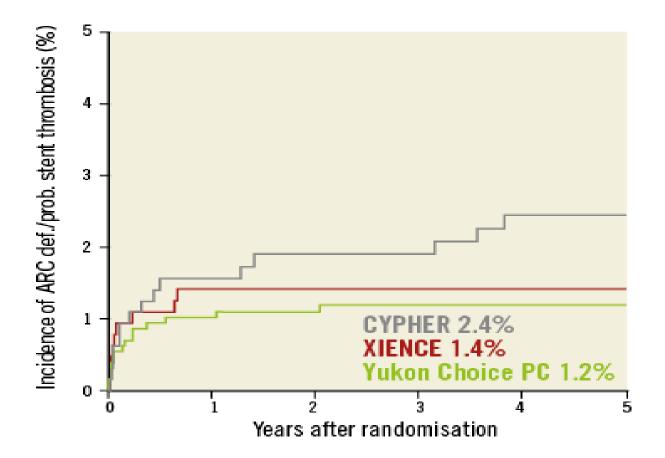
Cardiac death/target vessel MI/TLR in 2,603 pts



ISAR-TEST 4: Final 5-year data in 2,603 pts

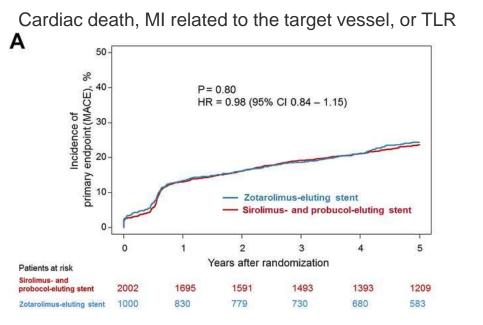


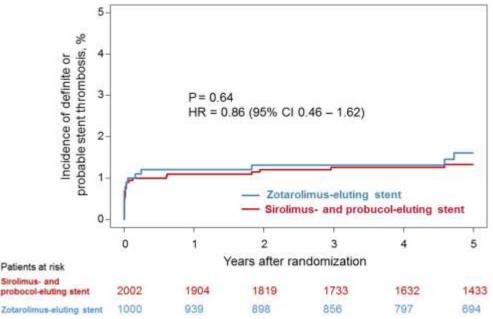
Definite/probable stent thrombosis



Kufner et al, Eurointervention 2016

ISAR-TEST 5: Final 5-year data in 3,002 pts Polymer-fre, dual drug (sirolimus+probucol)-eluting stent





Kufner et al, JACC Interv 2016