

Advancing PCI outcome in diabetics with the innovative Cre8[™] EVO DES

The latest updates on AES clinical studies

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Disclosure statement

Within the past 12 months, I or my spouse/partner have had a financial interest/arrangement or affiliation with the organization(s) listed below.



Speaker honoraria, proctor

Company

Medtronik, Biotronik,

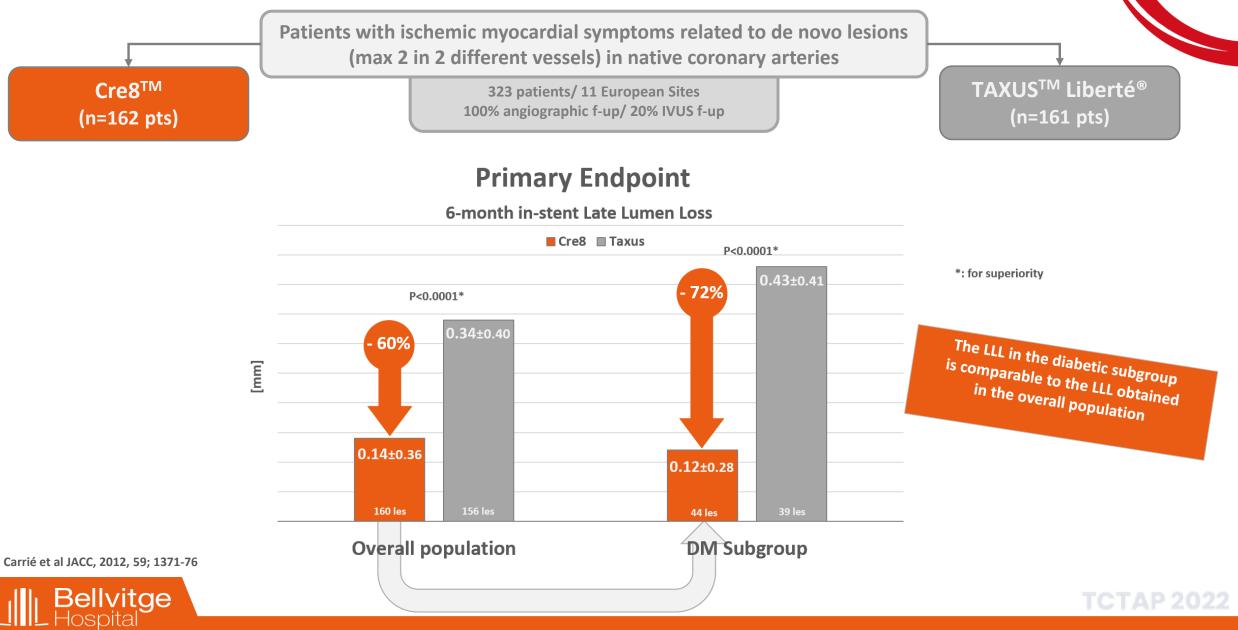
Boston Scientific,

Alvimedica

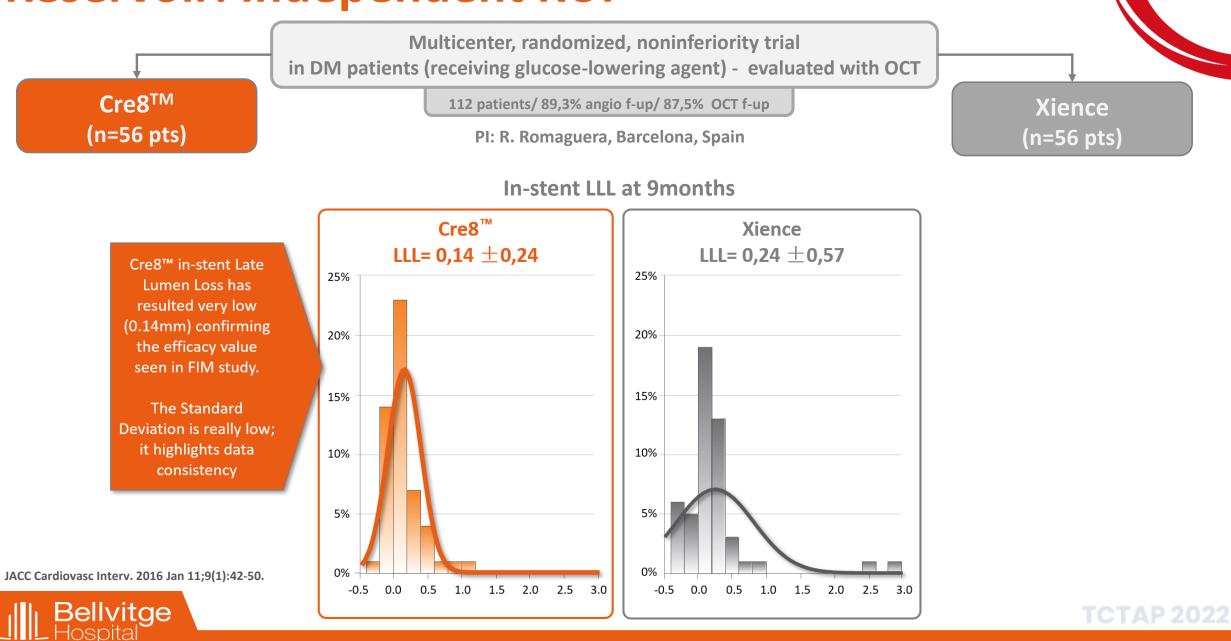




The NEXT randomized study (FIM)



Reservoir: Independent RCT

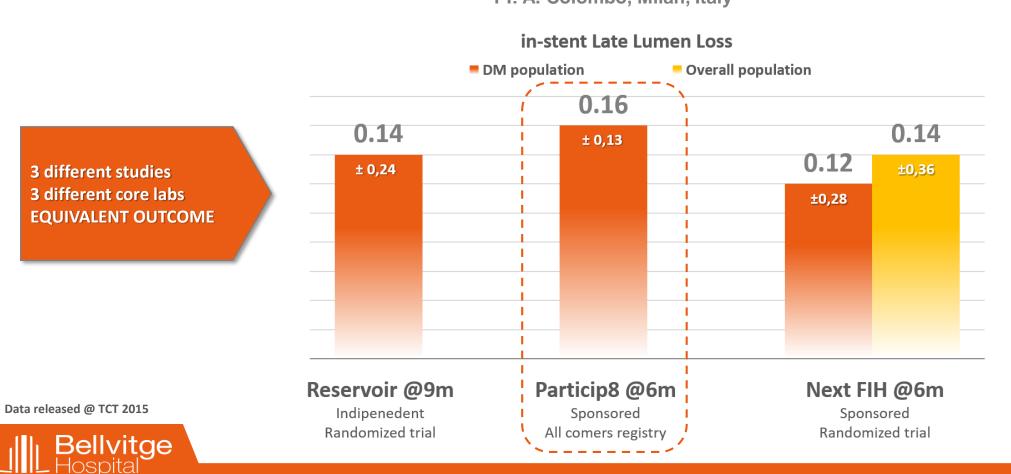


Particip8: Prospective all-comers study

Multicentric Registry on Cre8[™] in "Real-World" patients with a specific focus on diabetics subjects

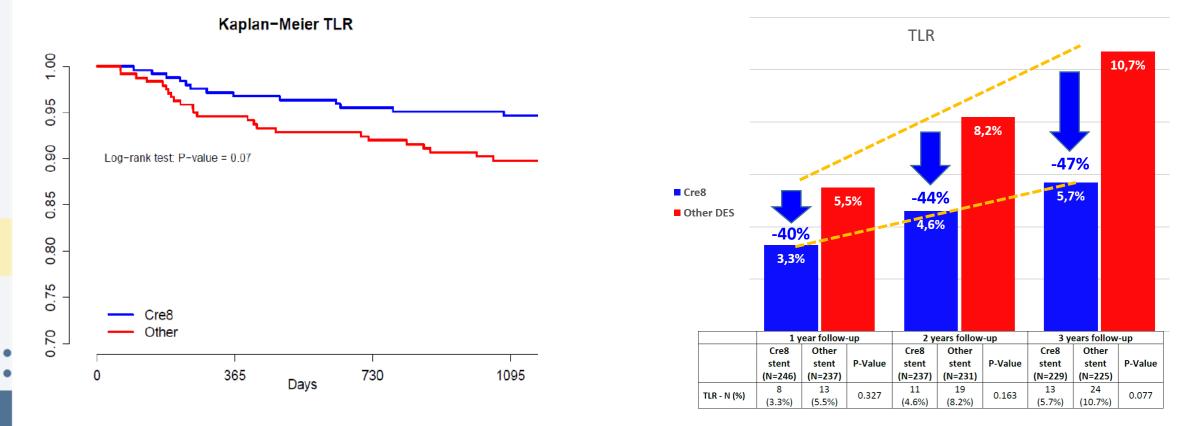
1186 patients/ 30 European Sites/ 8 Countries/ DM prespecified subgroup with angiographic f-up

PI: A. Colombo, Milan, Italy



Pulled RCTs analysis @ 3years (DM pts)

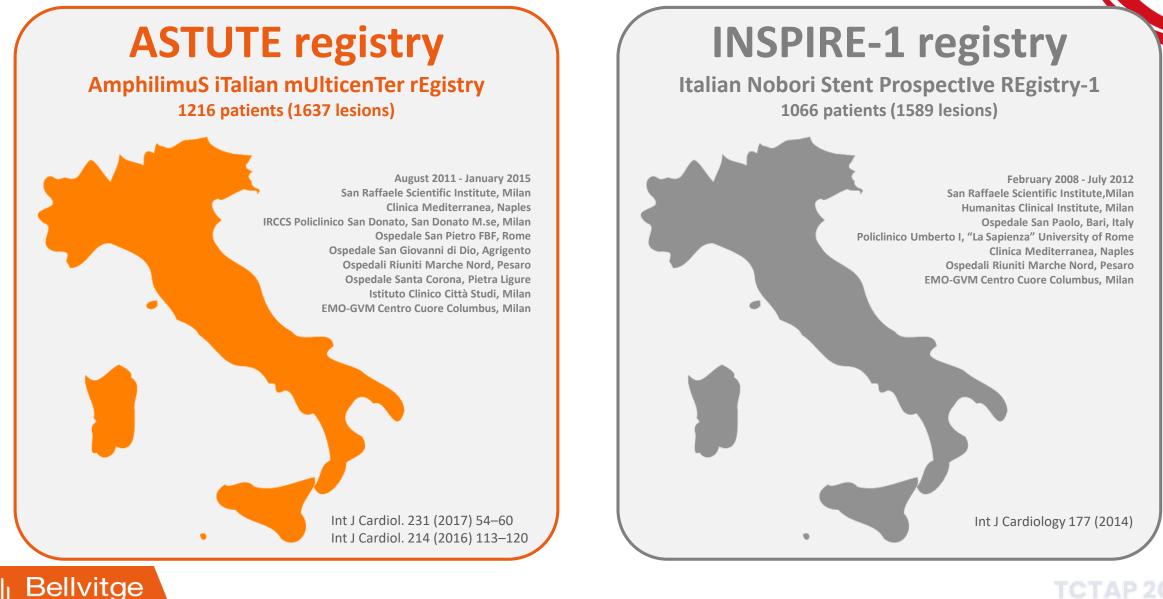
TLR results of a pooling analysis of three different Cre8[™] RCTs, considering DM patients only, have been taken into account. Specifically those vs Xience¹, Resolute² and Taxus³

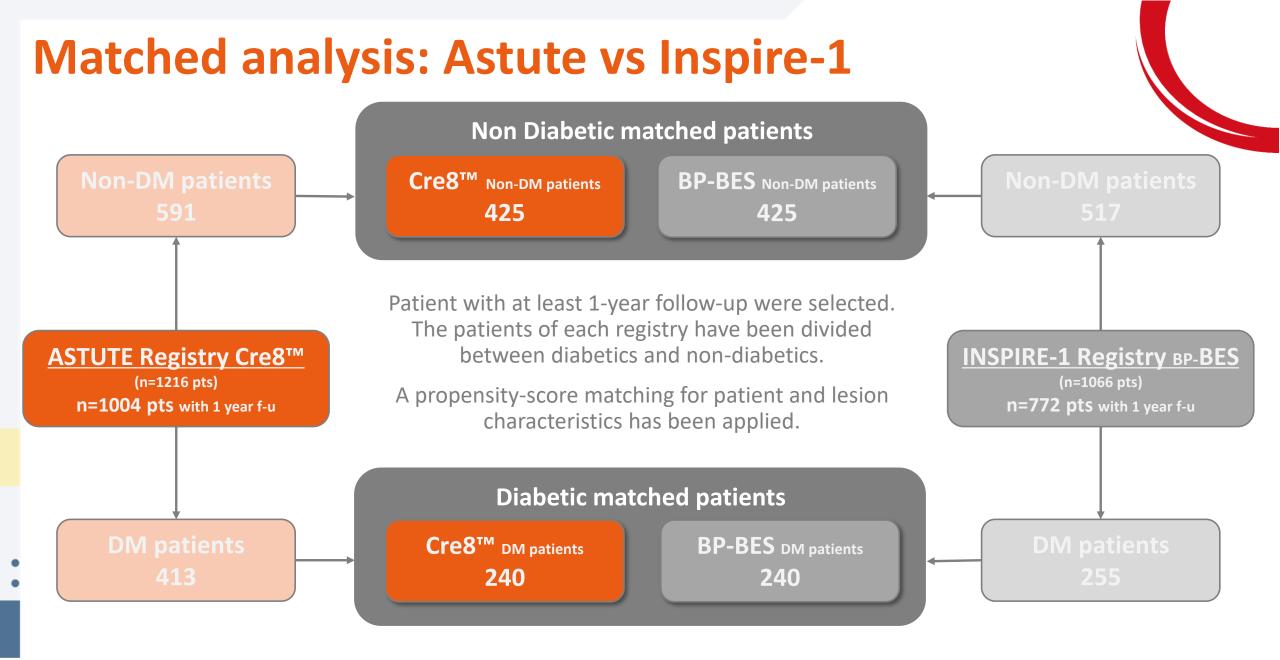


Presented by Dr. R. Romaguera at EuroPCR 2021



Matched analysis: Astute vs Inspire-1



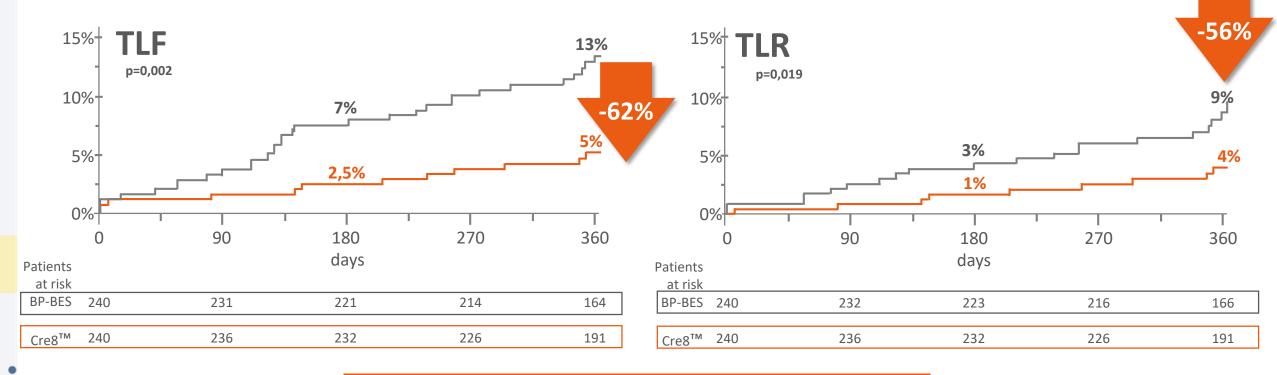






Matched analysis: Cre8[™] vs BP-BES (Nobori)

Diabetic cohort – TLF/TLR



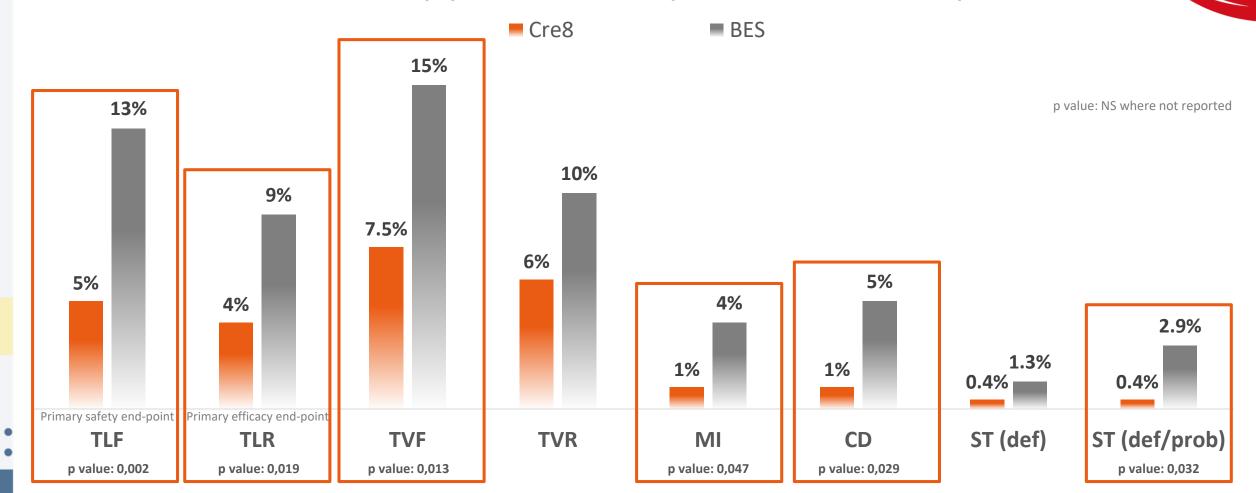
Cre8[™] is always statistically superior to BP-BES: TLF = 5% vs. 13% (-62%; p=0.002) TLR = 4% vs. 9% (-57%; p=0.019)

Int J Cardiology 245 (2017) 69–76



Matched analysis: Cre8[™] vs BP-BES (Nobori)

DM-matched population - Clinical Endpoints at 12 months follow-up.



Int J Cardiology 245 (2017) 69–76



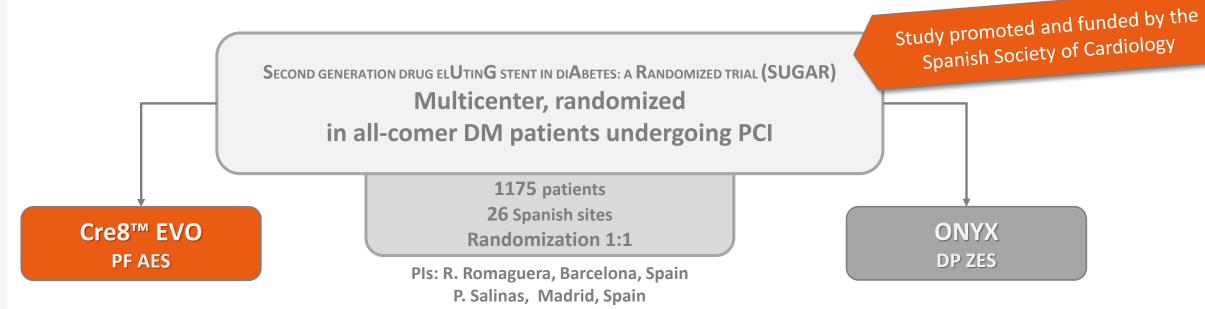


The latest evidence



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Primary Endpoint: TLF (composite of CD, TV-MI and cl-TLR) at 1 year (non inferiority - NI) and prespecified superiority analysis if NI is met **Co-Primary Endpoint:** TLF at 2 years (<u>superiority</u>)

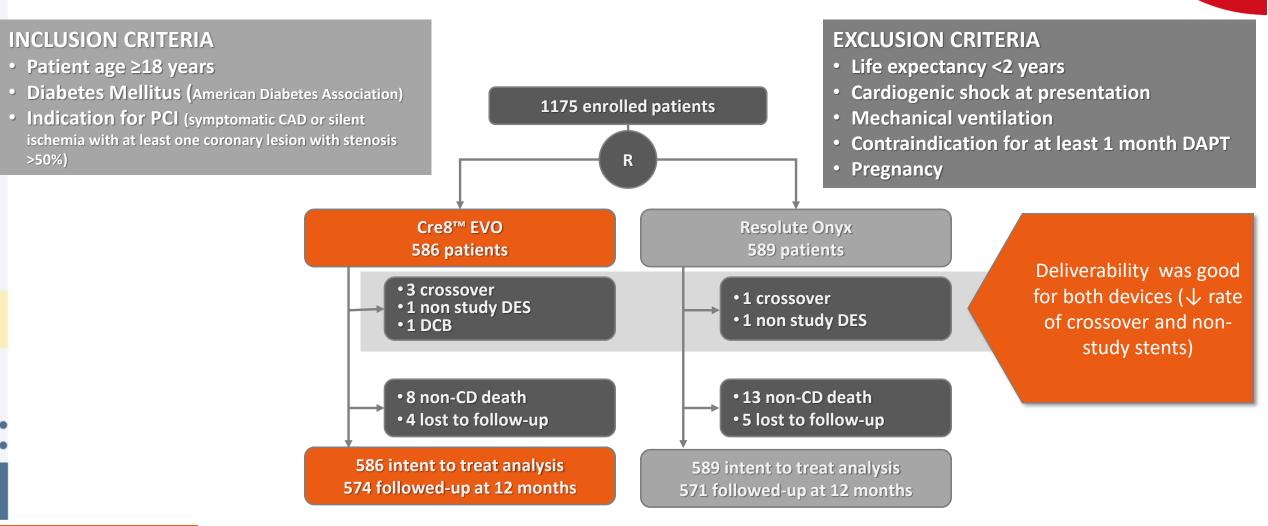




Romaguera R. European Heart Journal. 2021



ALL COMERS DESIGN

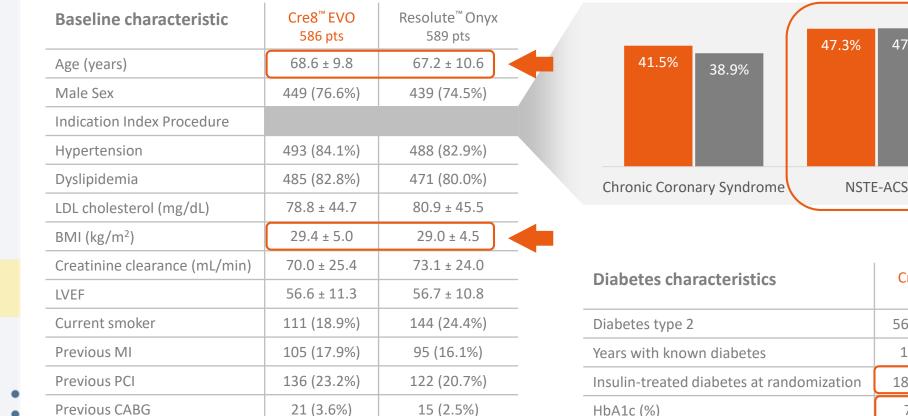




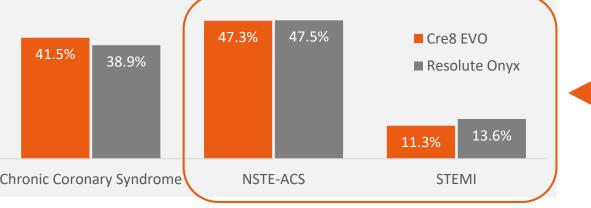
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BASELINE CHARACTERISTICS





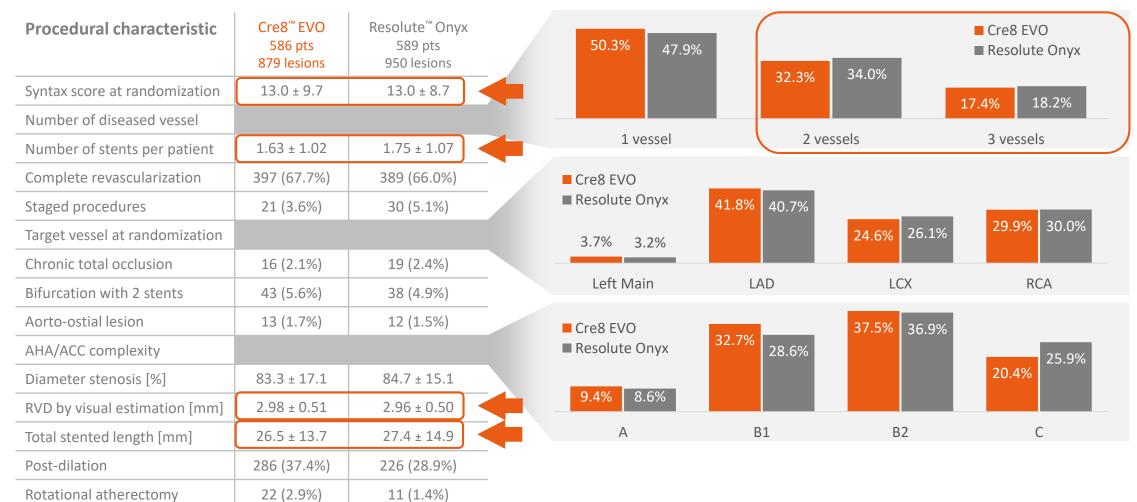


| Diabetes characteristics | Cre8 [™] EVO 586 pts | Resolute [™] Onyx 589 pts | |
|---|----------------------------------|---------------------------------------|-----------|
| Diabetes type 2 | 565 (96.4%) | 557 (94.6%) | |
| Years with known diabetes | 10.6 ± 8.7 | 11.4 ± 9.2 | |
| Insulin-treated diabetes at randomization | 183 (31.2%) | 194 (32.9%) | 1/3 ID-DM |
| HbA1c (%) | 7.4 ± 1.5 | 7.5 ± 1.5 | - |



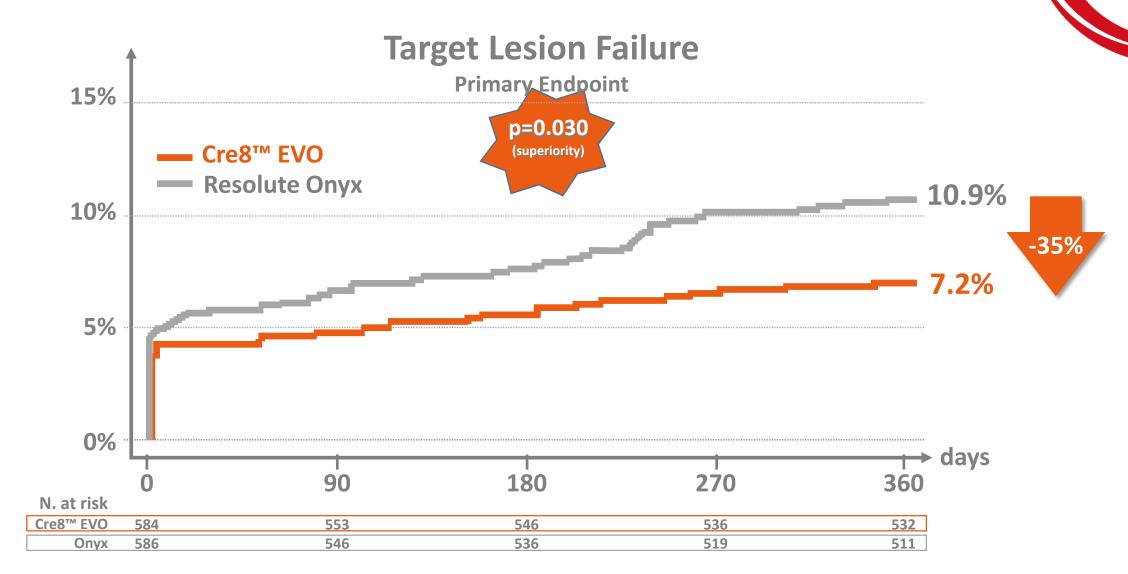
PROCEDURAL CHARACTERISTICS

Multi-vessel ~50%





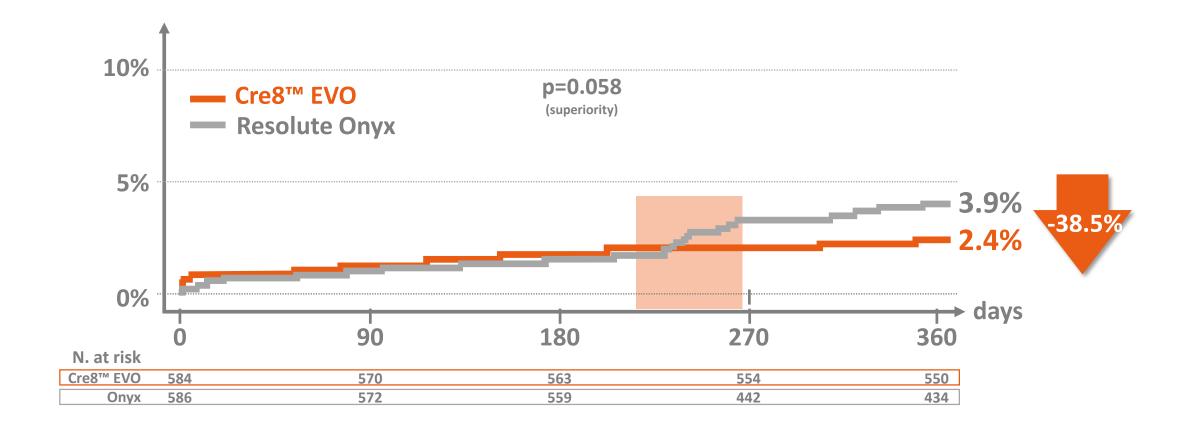
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Target Lesion Revascularization

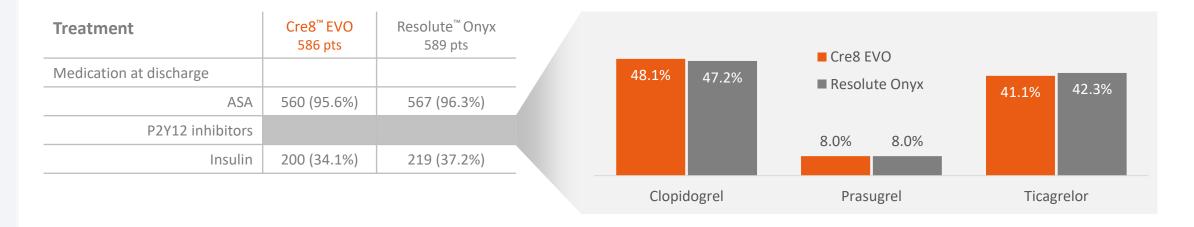




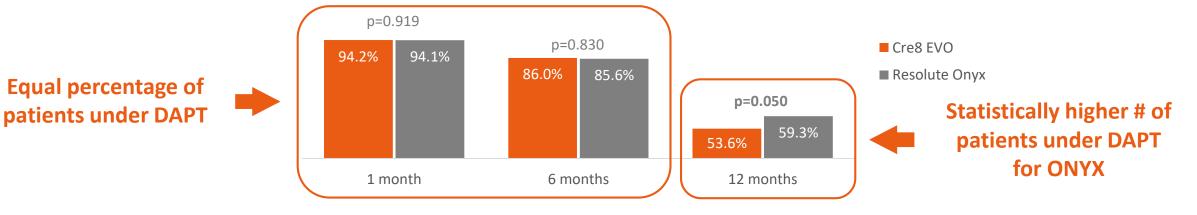
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Bellvitge Hospital

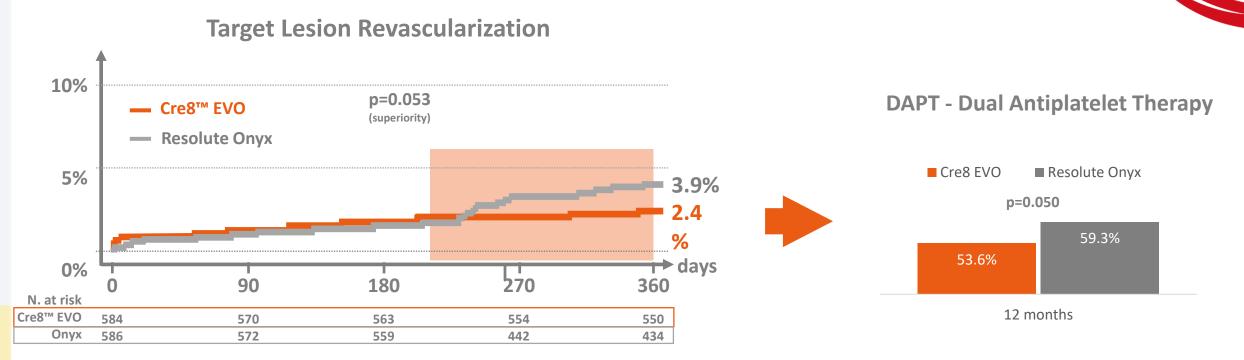
MEDICATION TREATMENT







Efficacy & Safety are interconnected!



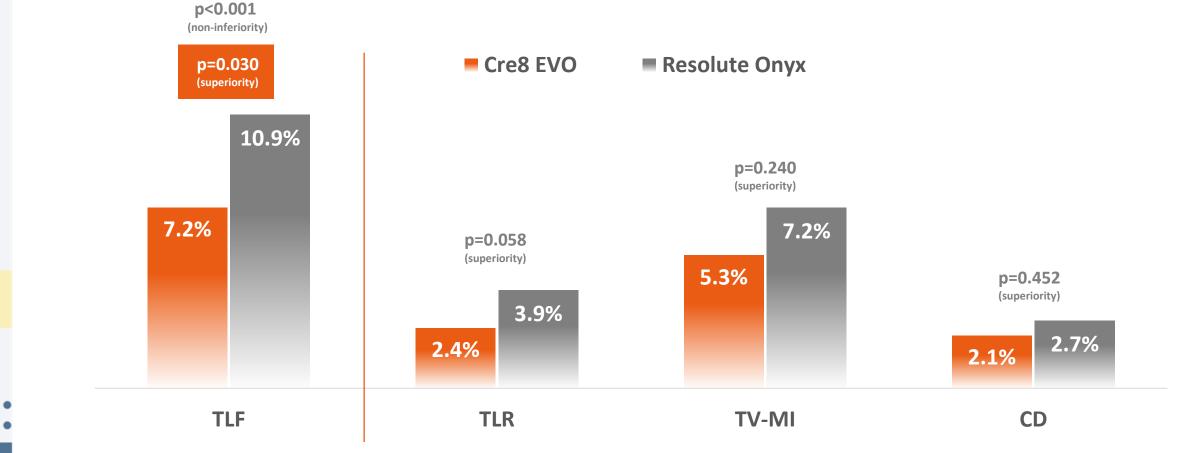
- When a DES is implanted in a high bleeding risk patient and then that patient has a TLR, this patient will need to prolong DAPT due to the re-intervention.
- "Efficacy and safety are very interconnected when it comes to DES outcomes." "If you have less-efficient DES, you have to restart DAPT, and thus you could have more bleeding."





Primary Endpoints and its components at 1-year follow-up.



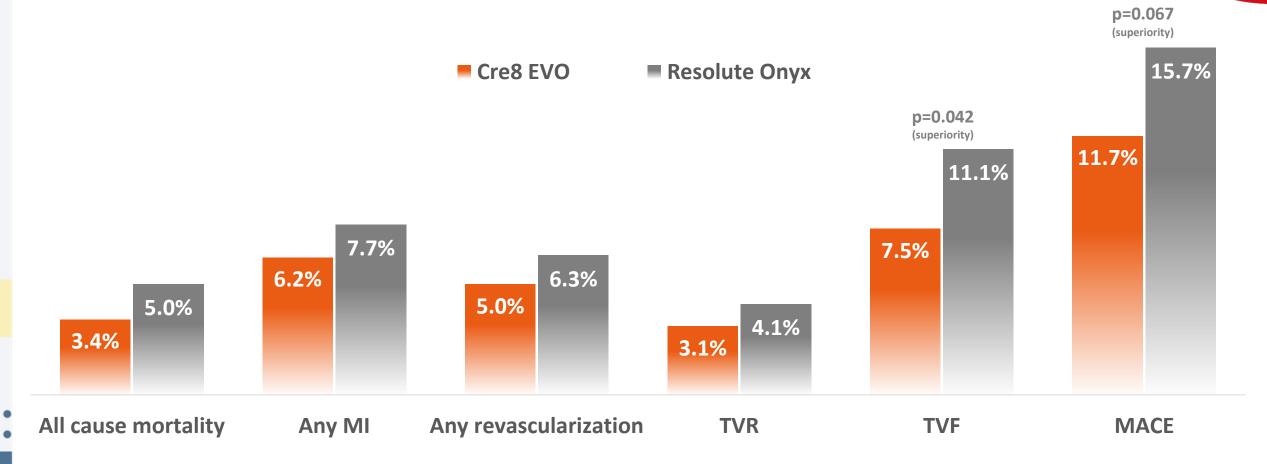




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Secondary Endpoints at 1-year follow-up.



p value: NS for all parameters, where not reported

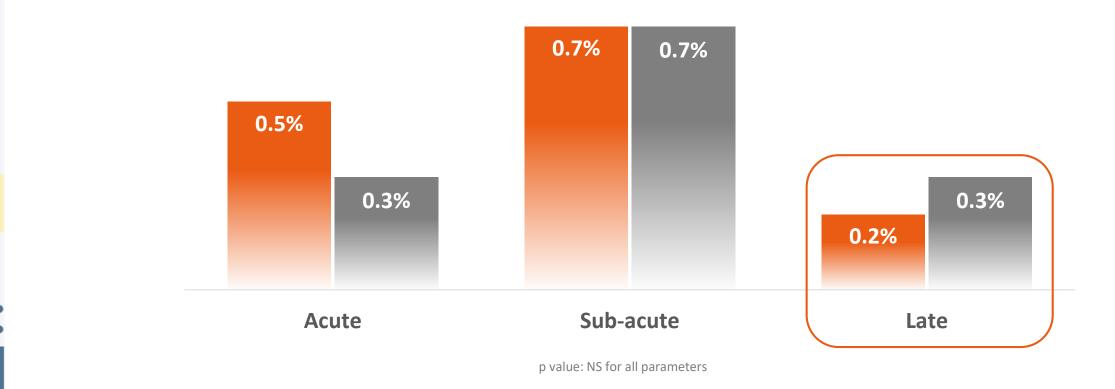


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Secondary Endpoints at 1-year follow-up.

Probable or definite stent thrombosis









Conclusions

- Patients with DM had metabolic traits that put them at high risk of stent failure.
- There is a large evidence suggesting that the unique features of Cre8 EVO could be more effective than other DES in DM.
- The SUGAR trial confirms that Cre8EVO is superior than othe polymer-based DES (Resolute Onyx), and therefore it should be considered to reduce the risk of adverse events in patients with DM.

