Capte COMBO DAPT Flexibility Benefit
Other Patients

Dr. Angus Shing Fuer
Associate

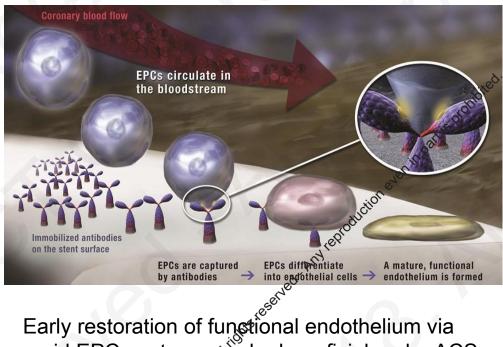
Queen Elizabeth Hospital Hong Kong





COMBO Dual Therapy Stent Design and Function

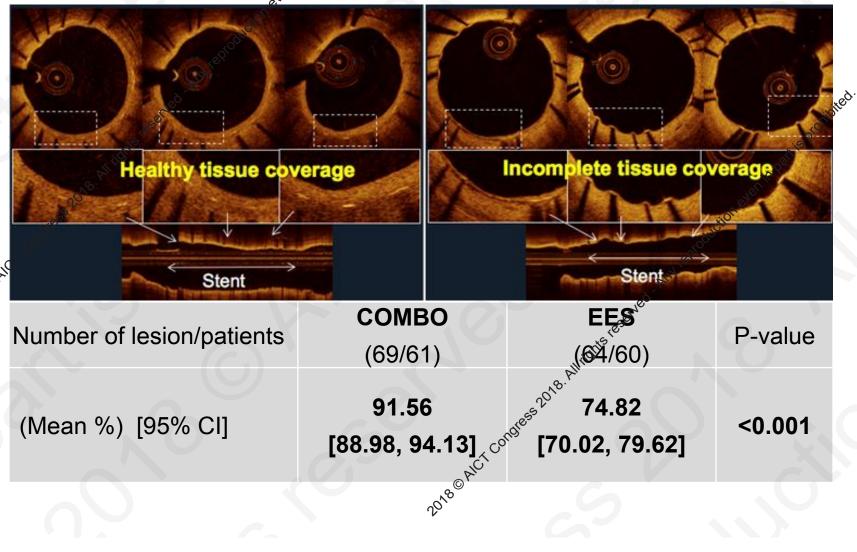




Early restoration of functional endothelium via rapid EPC capture may be beneficial under ACS

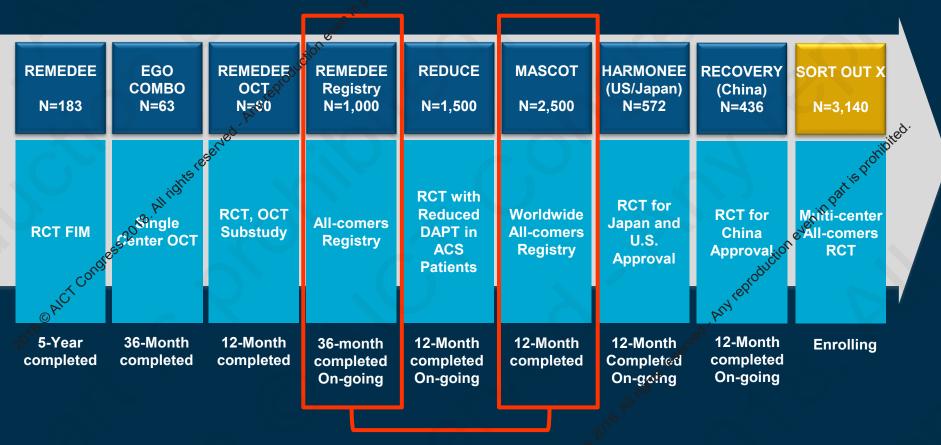


Superior Healthy Tissue Coverage vs. EES COMBO



2018@AIP

Combo Clinical Trial Program



COMBO Collaboration

Enrollment completed

Primary endpoint completed

Enrolling



REMEDEE Registry

Primary objective:

To evaluate the immediate and long term safety and performance of the abluminal sirolimus coated bio-engineered stent (COMBO) in routine clinical practice

Primary endpoint:

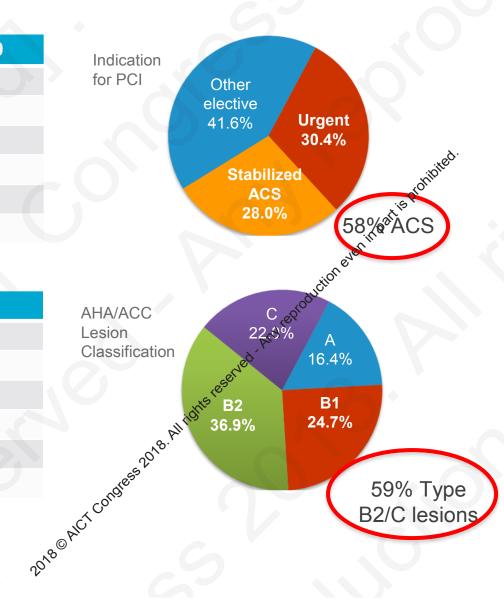
- **Target Lesion Failure**
 - Cardiac Death
 - Non-Fatal Target Vessel MI
 - Target Lesion Revascularization



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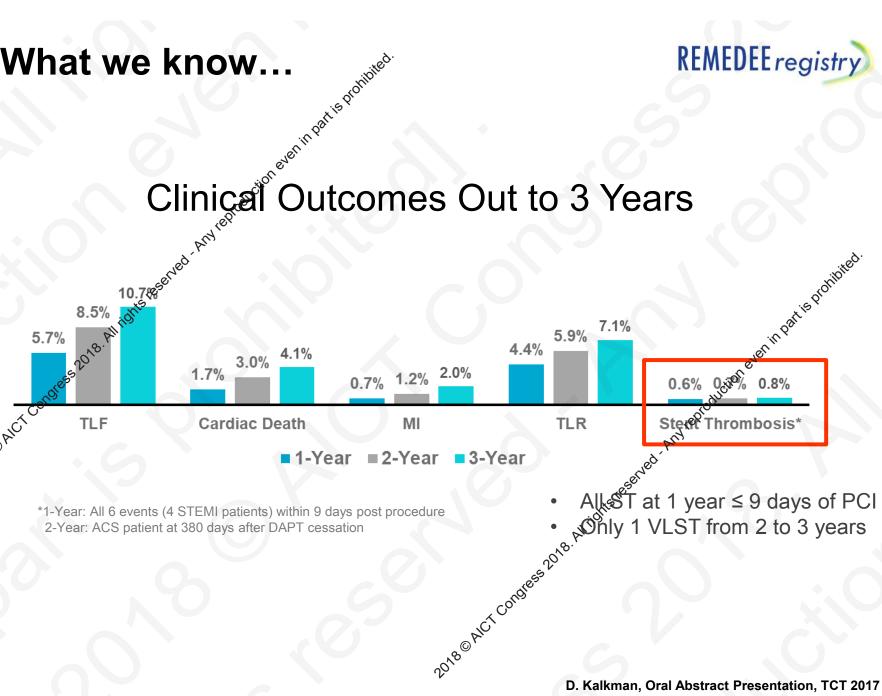
Patient Characteristics	ever iii N=1,000
Patient Characteristics Diabetes Insulin-dependent production Hypertension Anyl	18.4%
Insulin-dependent pool	6.4%
Hypertension RM	58.0%
Hypercholester demia Family history of CAD Prior PC	56.2%
Family history of CAD	45.5%
Prior Paris	30.1%

	Prior PGM	30.1%
	Prior Pouris Concession Characteristics Length (mm) RVD (mm)	
A	Lesion Characteristics	N=1,255
© AIC	Length (mm)	15.0
2018	RVD (mm)	3.0
	Diameter stenosis	90.0%
	Native coronary artery	95.4%
	B2/C lesions	58.9%
	Multi-vessel disease	10.5%





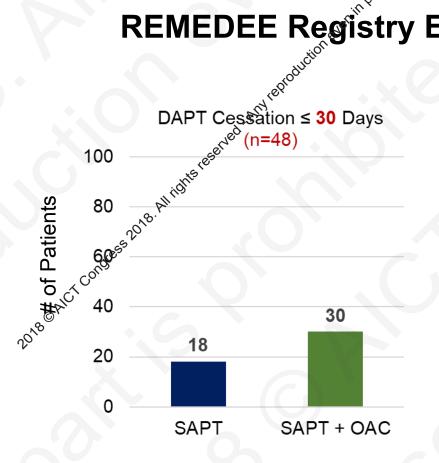


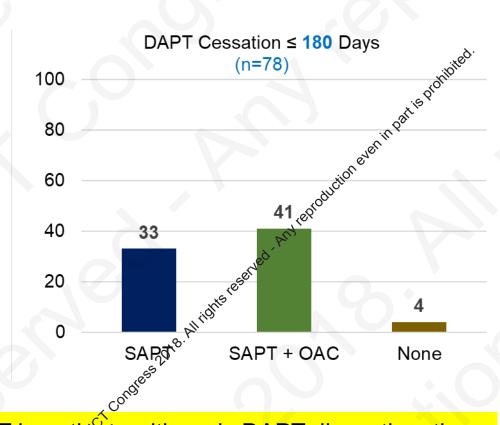


*1-Year: All 6 events (4 STEMI patients) within 9 days post procedure 2-Year: ACS patient at 380 days after DAPT cessation

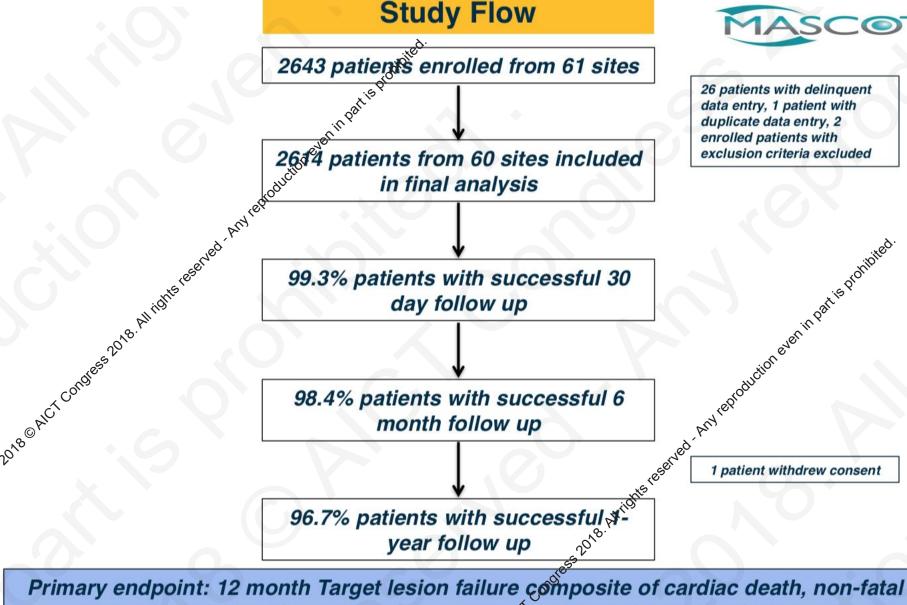


REMEDEE Registry Early DAPT Discontinuation





0% event rates of TLF, TV-MI and ST in patients with early DAPT discontinuation



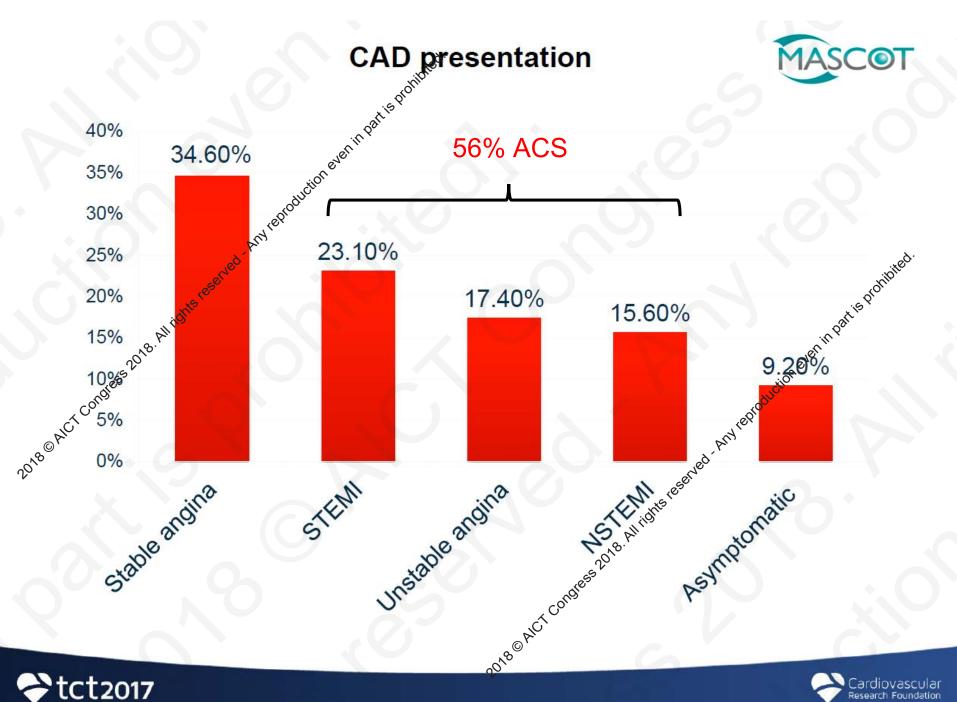
MI not clearly attributable to a non-target vessel or ischemia driven TLR

















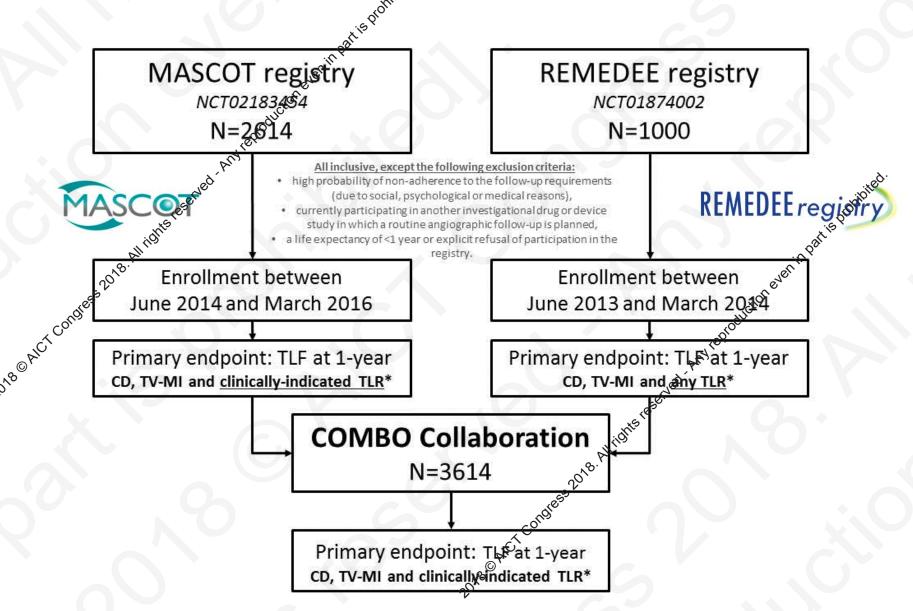
Clinical Outcomes at 1Year

ion"			
ducit	N=2614	Def/Prob Stent Thrombosis	
Primary endpoint: TLF All cause Death	88 (3.4%)	Def ST	1
All cause Death	53 (2.0%)	Prob ST	1
 Cardiac Non Cardiac Cardiovascular rouse 	36(1.4%)		
Non Cardiac Section	14 (0.5%)	MACE	4
Cardiovascularion	39 (1.5%)		ا ک
Non-fatal Mic 2018. P.		Stroke	``
Non-fatal Ml.s (or en	
Not clearly attributed to a non-target vessel	36 (1.4%)	Bleeding	
Ang Ang Whemia driven revascularization	49 (1.9%)	Bleeding Major Minor Anylegrobuction events Anyleg	
**************************************		• Minor A. And	
lechemia driven revascularization		Nuisance of the last of t	
• TLR	37 (1.4%)	• Any we	1
• TVR	12 (0.5%)	(0)	
• NTVR	37 (1.4%)	•• 56% ACS	
• Any	72 (2.8%)	57% Type B2/C le	c

Def/Prob Stent Thrombosis	24 (0.9%)
Def/Prob Stent Thrombosis Def ST Prob ST MACE Stroke Bleeding Major Minor Nuisanceared Any	12 (0.46%)
Prob ST	12 (0.46%)
	rohibit
MACE	137 (5.2%)
Stroke	্ ^ত 11(0.42%)
on eve	
Bleeding odu ^{ctic}	
• Major (e ^{gtr}	46 (1.8%)
• Minor d. Ar.	63 (2.4%)
• Nuisancego ^{rd®}	20 (0.8%)
• Any of the Company	124 (4.8%)
. ()	

57% Type B2/C lesions

COMBO Collaboration - Methods





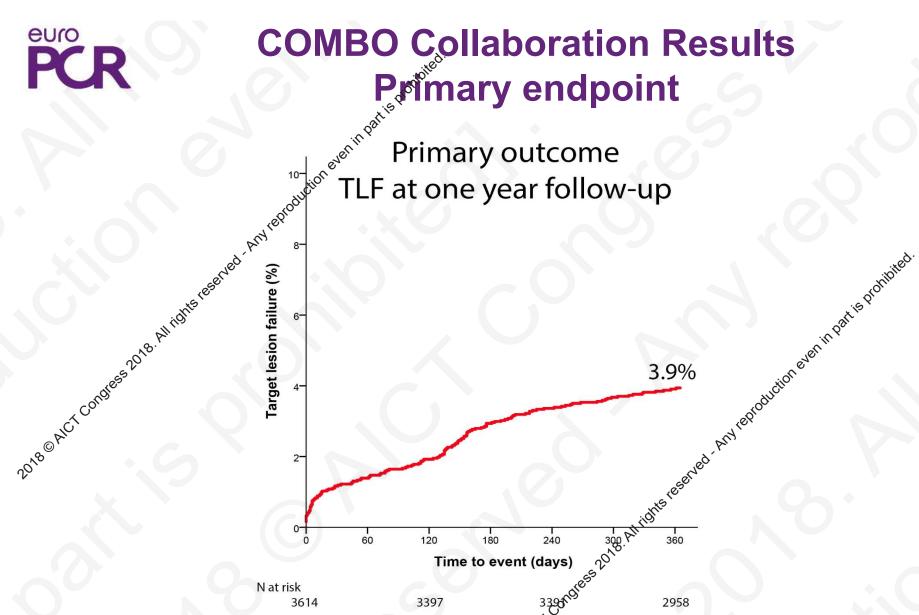
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COMBO Collaboration - Patient Demographics

	Cille			
•	Age Legroducti	63.5 ± 11.2	Prior MI	858 (23.7%)
	Female And	861 (23.8%)	Previous PCI	966 (26.7%)
	Diabetes mellitus	1,050 (29.3%)	Previous CABG	206 (5.7%)
	Insulin troatment	272 (7.5%)	Current smoker	1,009 (27.9%)
	Hypertension	2,422 (67%)	Indication for PCI	1,009 (27.9%) 2,95 (8.2%)
	Hypércholesterolemia	2,101 (58.1%)	Asymptomatic	29 5 (8.2%)
ć	Pamily History of CAD	1,107 (30.6%)	Stable angina	×1,346 (37.2%)
2018 RIC	Congestive heart failure	224 (6.2%)	STEMI	789 (21.8%)
	Chronic renal failure	231 (6.4%)	NSTEMI Unstable angina Other	600 (16.6%)
	Peripheral vascular disease	212 (5.9%)	Unstable angina	576 (15.9%)
	Previous stroke	173 (4.8%)	Other orgess	6 (0.2%)
			()	

54% ACS



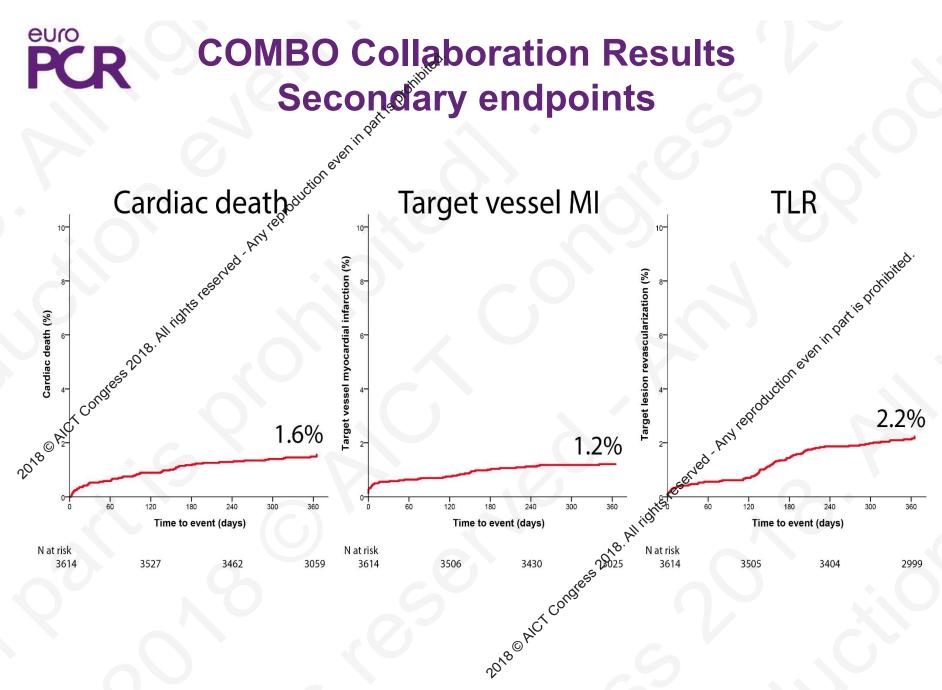
COMBO Collaboration Results



TLF at 1-year follow-up was observed in 140 patients (3.9%)



COMBO Collaboration Results

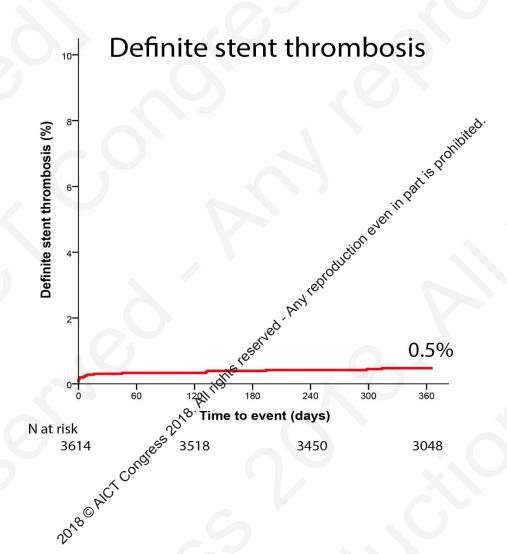




COMBO Collaboration Results Secondary endpoint

Very low definite ST rate: 0.5% (n=17) at 1 year FU

Definite/Probable ST rate: \$\int 0.8\% (n=30) at 1 year FU



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2018 Aut Congress 2018. Antights reserved. Any reproduction even in parties promitted. **COMBO** under other indications **TAVI Patients**



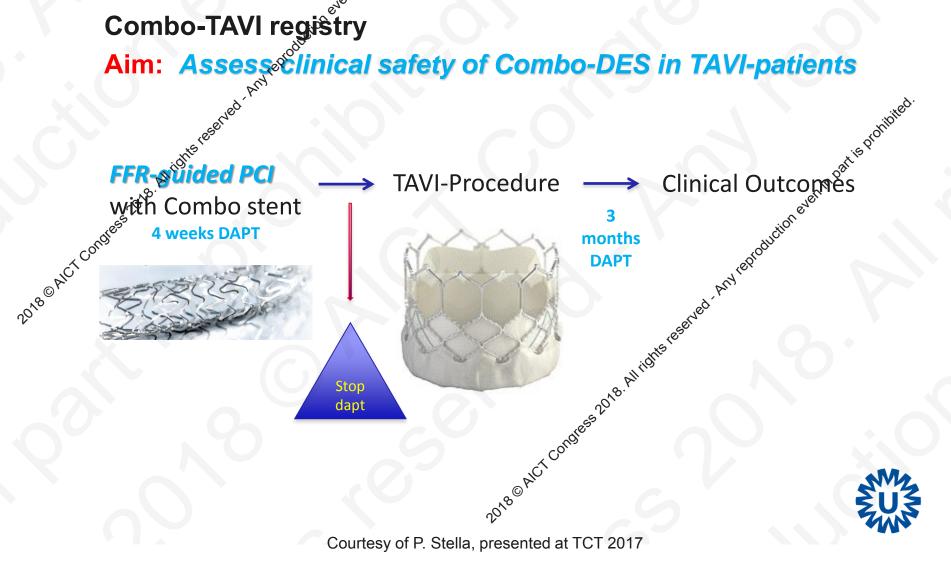
Clinical Performance of a Novel Bioengineered Drug-eduting Stent in TAVI-patients, First Results of the Combo-TAVI Registry

P.R. Stella MD, PhD, Interventional Cardiologist

Department of Cardiology University Medical Center Utrecht



Combo-TAVI registry
\im: Assesseding





Combo TAVI Registry UMCU

BMS

- > 4 week before TAVI
- DAPT 4 weeks + 3 mo after TAVI

DES

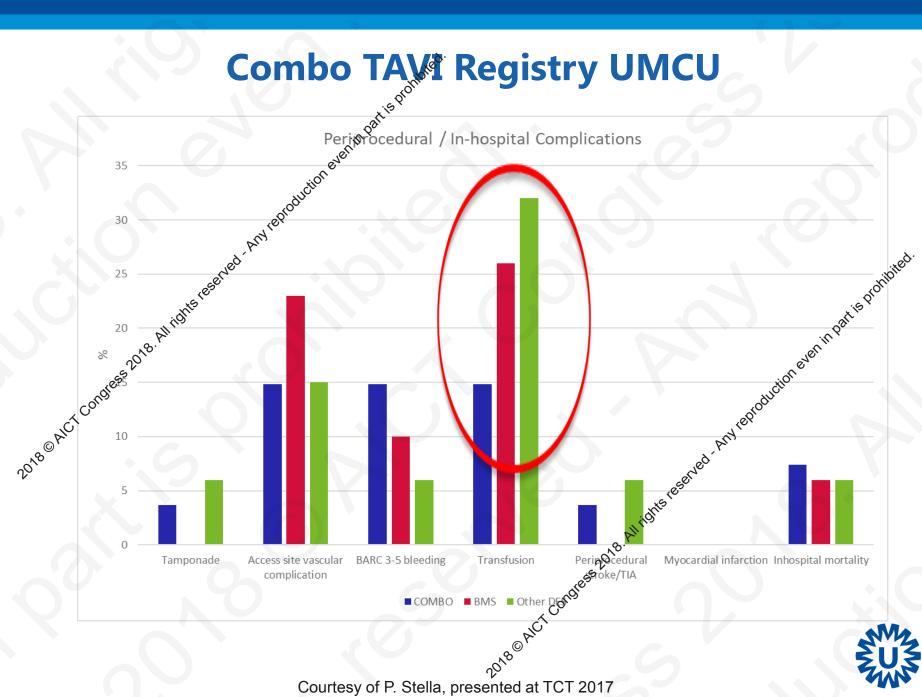
- > 4 week before TAVI
- DAPT 6 months

Combo

2018@AICT

- >4 weeks before TAMI
 DAPT 4 weeks + 3 mo after





Combo TAVI registry UMCU

Six months Outcome	COMBO (ri = 40)	BMS (n = 40)	p-value	Other DES (n=44)	p-value
Lost to follow-up	1	2		3	.(2)
Average total duration of DAPT / Triple	3.4	3.7	0.76	5.7	0.03
anticoagulation (month)*					oin Parti
6 months Death from any causes	0	0	1.0	2	0.56 duction
Nonfatal spontaneous myocardial infarction	0	1	1.0	2 ANY TEN	0.56
Major Bleeding	0%	7%	0.53	II rights 3%	1.0
Revascularization		1	1.0 2018	y. A. 1	1.0
Definite stent thrombosis		0	1,65		1.0
MACCE# or Bleeding	4%	10%	0.53 1.0 1000 1.000 1.000 0.65	12%	0.41

Take Home Messages

- The COMBO stent with established pro-healing properties has demonstrated safety and efficacy in a sizeable population with a high percentage mix of patients with acute coronary syndrome and complex lesions
- From the REMEDEE Registry, early DAPT cessation was not associated with increase in adverse events
- Initial small sample study results in the COMBO TAVI Registry show the potential benefit of COMBO in patients with increased bleeding risks due to conjunctional use of DAPT and oral anti-coagulant agents
- The safety of COMBO in DAPT flexibility for both stable and urgent patients may potentially extend to other patients who do not followed bapt

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