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# DES in leg arteries

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### Disclosure slide

☐ I have the following potential conflicts of interest to report:
☐ Consulting
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)
☑ I do not have any potential conflict of interest



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Receives CE Mark For

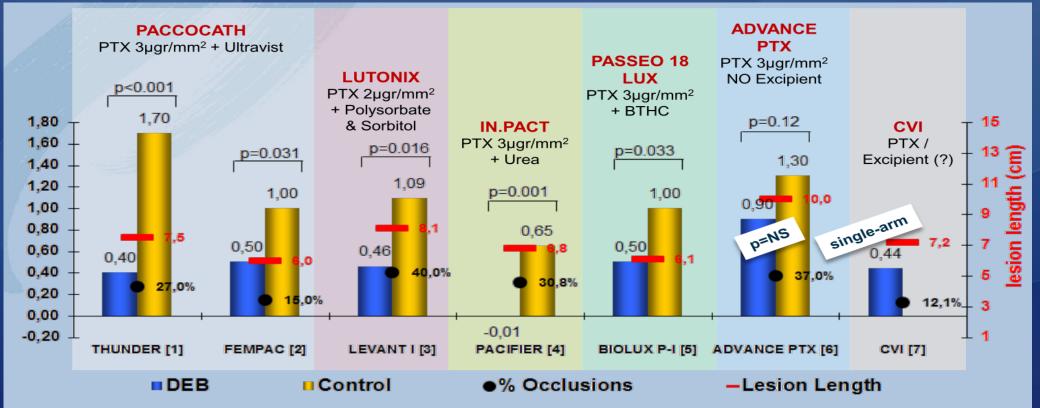
Pen Diug-Codted Balloon

BY GENE EMERY INDICATOR OF Solutions for Peripheral Vascular Diagram

of Solutions for Pe open Me Article by:

# MISSION: IMPOSSIBLE

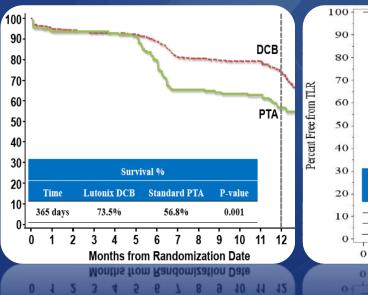
#### And the results seem fantastic.... PROOF OF CONCEPTS

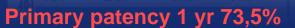


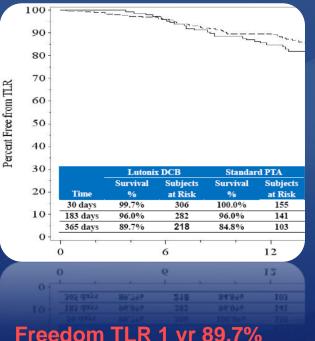
[1] G.Tepe et al. - NEJM 2008; [2] M.Werk et al. - Circulation 2008; [3] D.Scheinert - TCT 2012 oral presentation; [4] M.Werk et al. - Circulation CI 2012; [5] D.Scheinert - EuroPCR 2012 oral presentation; [6] D.Scheinert - LINC 2013 oral presentation; [7] S.Duda - EuroPCR 2013 oral presentation

And the results seem fantastic.... PIVOTAL RCT'S

#### **LEVANT 2 Clinical Trial**

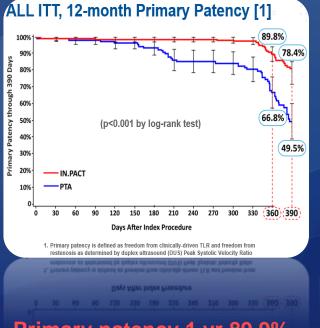


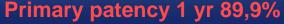


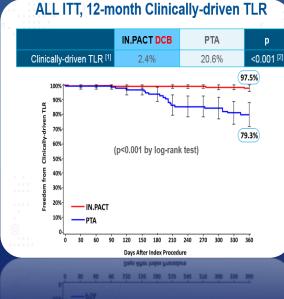


#### Freedom TLR 1 yr 89,7%

#### **IN.PACT SFA I-II Trial**







Freedom TLR 1 yr 97,5%

Rosenfield K et al, presented @ VIVA2014, Las Vegas, US

Tepe et al, presented @ CX2014, London, GB

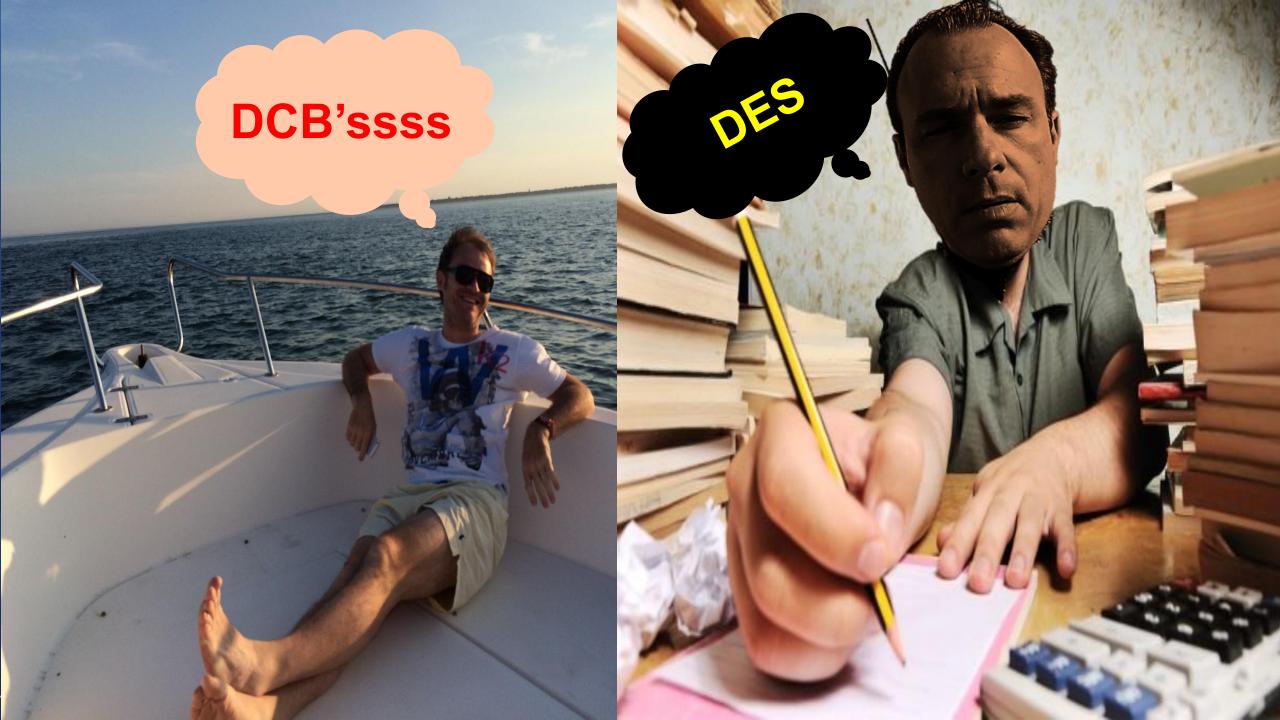
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And the results seem fantastic...REAL WORLD, ALL COMERS STUDY

#### **IN.PACT Global Study**

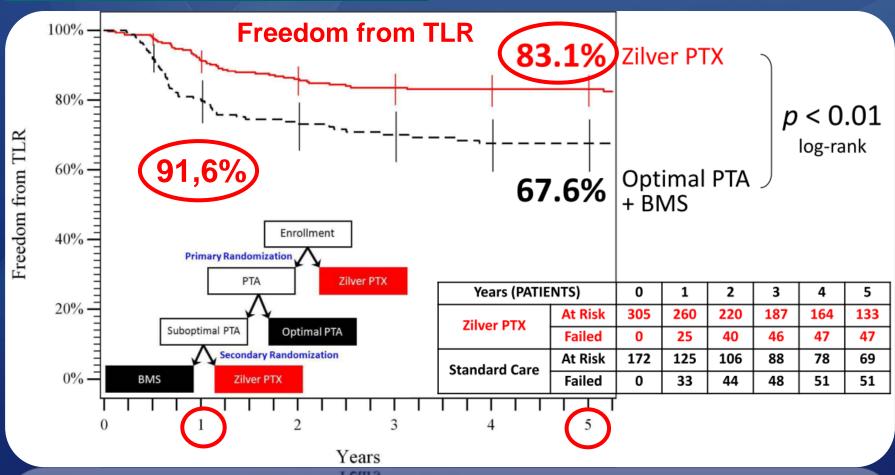
12-month Efficacy				
Freedom from Clinically-driven TLR 91.3% (527/577)				
12-month Safety				
Primary Safety Endpoint [1]	89.6% (517/577)			
Major Adverse Events [2]	13.5% (78/577)			
Death (all-cause)	3.3% (19/577)			
Major Target Limb Amputation	0.3% (2/577)			
Any TLR	9.0% (52/577)			
Any TVR	9.9% (57/577)			

Tepe G. JVIR 2015; 26(1):150



#### However...

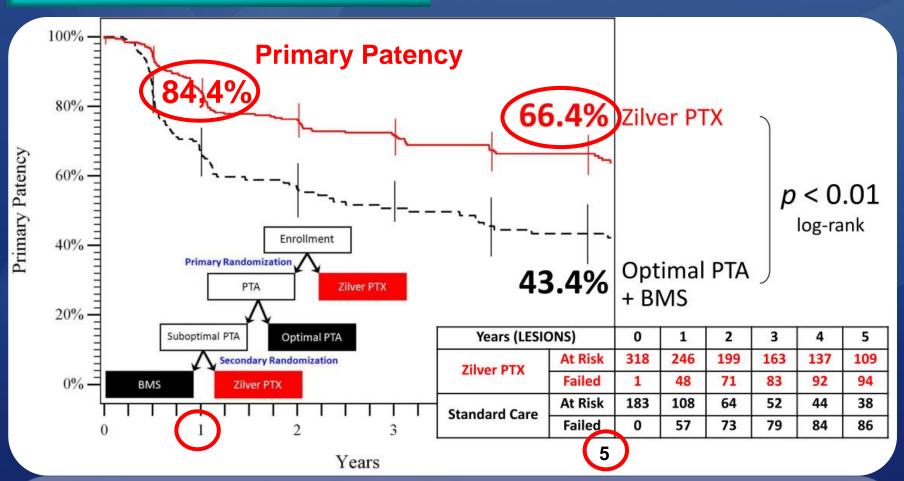
#### **ZILVER PTX Clinical Trial**

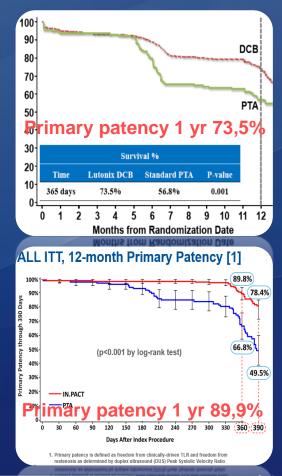




#### However...

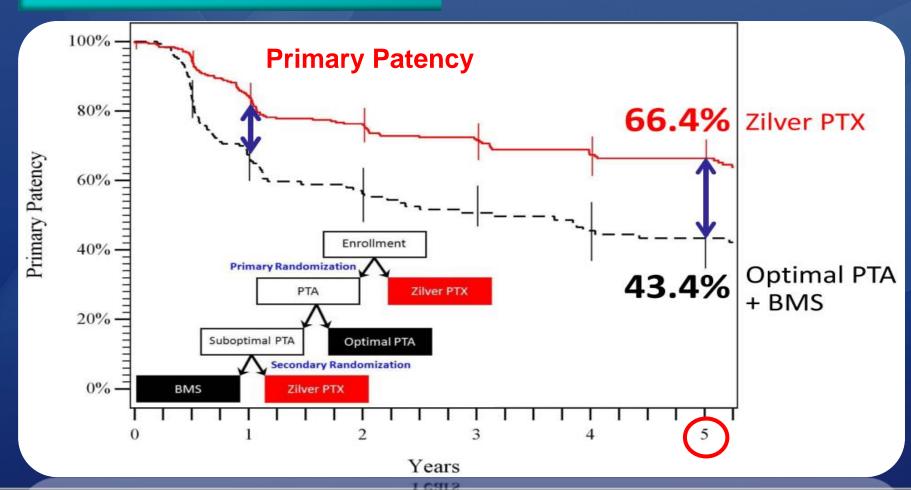
#### **ZILVER PTX Clinical Trial**





#### However...

#### **ZILVER PTX Clinical Trial**



Zilver PTX
continues to
show benefit
through 5 years

### 1. Durable, long-term, peer reviewed data have to be demonstrated...

#### **THUNDER TRIAL**

	PTX balloon	POBA	P value
LLL 6 months	0.4 <u>+</u> 1.2	1.7 <u>+</u> 1.8	<0.001
LLL 5 years	0.7 <u>+</u> 1.9	1.5 <u>+</u> 1.3	0.54

#### 2. Primary patency based on core lab DUS with the same PSVR....

PSVR < 2.5 -> using PSVR < 2.0 (cfr Zilver PTX) : no difference anymore between the Lutonix balloon and POBA

	Lutonix	Control PTA	P Value
Primary composite safety endpoint (freedom from perioperative death and 12-month index limb amputation [above and below the ankle], index limb reintervention and index limb-related death)	83.9%	79%	0.005
12-month primary patency (Kaplan-Meier, PSVR = 2.5)	73.5%	56.8%	< 0.001
12-month primary patency (PSVR = 2.0)	53.2%	45%	0.13*
Total TLR at 12 months	12.3%	16.8%	0.208*
Total TER at 12 months	12.370	10.070	0.2.00

No statistically significant difference

Total TLR at 12 months 12.3% 16.8% 0.208\*

3. Predilatation "screening" and exclusion criterium if "non re-

Succee Calcified lesions

Succee Calcified Viscolet Ballo

Artificially excluding severe calcified lesions reat per standard practice 12 Month Follow-up

- - Unsuccessful pre-dilatation

### 4. Artificially low provisional stent rates

		LEVA	NT 2 Clinic	al Trial	IN.PACT S	FA I-II Trial	ZILVER	РТХ С	linical Trial
Provision	Provisional stenting% 1.8			7,3			na		
	Thunder	FemPac	Levant I	Italian Registry	Pacifier	Debellum	Leipzi Regist	_	Zeller Registry
Length (cm)	7.5	6.1	8.1	7.6	7	7.6	2	24	19
Stent- Rate %	4	9	24	12	21	57	(23	3.3	18.3
111 21 62		Single	or multiple Les	ions in full fer	moropopliteal	Lesion length	ı (cm)	12.2	23 + 9.59
IN.PACT	GLOBAL Tria					Total occlusior	าร (%)		35.8
	• de novo + restenotic (ISR or non-ISR) l			SR) lesions	Severe calcifica	tion (%)		10.4	

Predilatation (%)

**Provisional stenting (%)** 

75.4

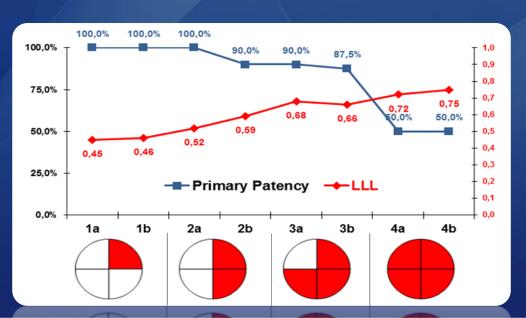
24.7

Stenosis & Occlusions of all lengths

• Predilatation is @physicians' discretion

#### 5. Avoiding Ca++ circumstances...

LEVANT 2 Clinical TrialIN.PACT SFA I-II TrialZILVER PTX Clinical TrialSevere calcification %10,48,137,3



Ca distribution/ severity

affect

LLL/primary patency

Ca++ represents

a barrier to optimal drug

absorption

#### 6. Lack of data in "real world" long lesions...

1 retrospective, dual center study with propensity score stratification

1 single center registry

	Mean lesion length (mm)	Number	1yr PPR (%) (duplex US)	2yr PPR (%) (duplex US)
Leipzig Registry	240	260	82,4*	na
Zeller Study	190	228	76,1*	na

<sup>\*</sup>Provisional stent rates of 23,3% & 18,3%

#### 6. Lack of data in "real world" long lesions...

	Mean lesion length (mm)	Number	1yr PPR (%) (duplex US)	2yr PPR (%) (duplex US)
Zilver PTX SAS TASC C & D	226	135	77,6	Na
Zilver PTX PMS LL	189	45	86,1	Na
Japanese PMS LL	186	703	81	na

Bosiers et al. J CardioVasc Surg 2013 ;54(1) : 115-22 Zeller et al. Presented @ LINC 2014, Leipzig, Germany Hiroyoshi Yokoi et al. Presented @ VIVA 2014, Las Vegas, US

### 7. DCB effectiveness may not be a CLASS EFFECT...

Each DCB stands on the merits of its data, need to be evaluated & compared (different excipients, different pharmacokinetics, different coatings...)

Elutax SV <sup>™</sup>	Aachen Resonance, Luxembourg, Luxembourg	Paclitaxel
Advance 18 PTX <sup>™</sup>	Cook Medical, Bloomington, IN, USA	Paclitaxel
Cotavance <sup>®</sup>	Bayer Schering Pharma AG, Berlin, Germany	Paclitaxel–iopromide
Freeway™	Eurocor, Bonn, Germany	Paclitaxel-shellac
IN.PACT <sup>™</sup> Admiral, Amphirion, Pacific	Medtronic Vascular, Santa Clara, CA, USA	Paclitaxel–urea
Lutonix DCB <sup>®</sup> (Moxy)	BARD, Murray Hill, NJ, USA	Paclitaxel –polysorbate/sorbitol
Legflow <sup>®</sup>	Cardionovum, Warsaw, Poland	Paclitaxel-shellac
Passeo-18 Lux <sup>®</sup>	Biotronik, Bülach, Switzerland	Paclitaxel-BTHC
Stellarex <sup>®</sup>	Covidien, Mansfield, MA, USA	Paclitaxel

• Please Yann, don't come with economical considerations....



### Conclusion

## Ideal dream world

Short TASC A & B lesions

Not calcified

Perfect predil result

1 year follow-up

Using liberal PSVR criteria

With some DCB's



## Conclusion



