2013 TCTAP

Wrap-Up Interview

Femoropopliteal Lesions

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Issues Briefs

Atherectomy Controversy

- Clinical studies: DEFINITE LE...
- Discussion: for whom, which device

Drug-eluting Balloon

- Clinical studies: THUNDER, FemPac, LEVANT I, PACIFIER, DEBATE-SFA
 - Discussion: TASC C or D, Future perspective (ISR lesions..)

Drug-eluting Stent

- Clinical studies: ZILVER-PTX trial and registry
- Discussion: TASC C or D, Future perspective (ISR lesions..)

STOP ISR

- Clinical studies: STOP-IC trial
- Discussion: How long, To whom?





Periprocedural Outcomes

Outcomes

Claudication (RCC 1-3)

CLI (RCC 4-6) All subjects (RCC 1-6)

Device success (≤ 30% stenosis after plaque excision)

76%

72%

75%

Procedural success (≤ 30% stenosis at the end of procedure)

91%

83%

89%

Key Etudy Endpoints

Claudicants	Primary patend	endpopint: cy at 12 months R≤ 3.5)	Secondary endpoint: secondary patency at 12 months (PSVR≤ 2.4)		
	Patency LL (cm)		Patency	LL (cm)	
All (n=743)	82%	7.4	78%	7.4	
Diabetic (n=345)	80%	7.6	77%	7.6	
Non-diabetic (n=398)	83%	7.4	78%	7.4	

	Primary endpoint: freedom from major unplanned amputation of the target limb at 12 months
All (n=201)	95%





Primary Patency in subgroup

Subgroup	Claudican	its (n=743)	CLC (n=279)			
	Patency (PSVR≤2.4)	Lesion length (cm)	Patency (PSVR≤2.4)	Lesion length (cm)		
All (n=1022)	78%	7.5	71%	7.2		
Stenosis (n=806)	81%	6.7	73%	5.8		
Occlusion (n=211)	64%	11.1	66%	10.3		
SFA (n=671)	75%	8.1	68%	8.6		
Popliteal (n=162)	77%	6.0	68%	5.4		
Infrapopliteal (n=189)	90%	5.5	78%	6.0		



DEB for de novo lesion

Meta-analysis

A Target lesion revascularization

	PCE	PCB UCB				Odds Ratio	Odds Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% (CI .
THUNDER	7	48	28	54	32.1%	0.16 [0.06, 0.42]	2008		
FemPac	6	45	21	42	27.3%	0.15 [0.05, 0.44]	2008	- 	
LEVANT I	6	47	10	45	24.7%	0.51 [0.17, 1.55]	2010		
PACIFIER	3	40	9	39	16.0%	0.27 [0.07, 1.09]	2011	-	
Total (95% CI)		180		180	100.0%	0.23 [0.13, 0.40]		•	
Total events	22		68						
Heterogeneity: Tau2 =	= 0.02; Cl	$hi^2 = 3$.	19, df =	3(P =	0.36); I2:	= 6%		 	100
Test for overall effect	z = 5.09	9 (P < C	0.00001)					0.01 0.1 1 10 PCB Better UCB Bette	
Heterogeneity _(exact) : C	$hi^2 = 3.26,$	df = 3	(P = 0.35))				i es setter des sett	

Test for overall effect_(exact): P < 0.00001

A Binary restenosis

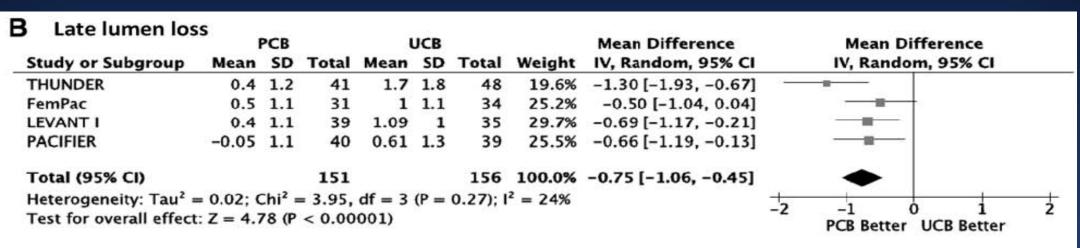
	PCI	3	UCI	3		Odds Ratio	Odds	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Rand	om, 95% CI
THUNDER	7	41	21	48	38.8%	0.26 [0.10, 0.71]		33.0
FemPac	10	31	22	34	36.1%	0.26 [0.09, 0.73]		
PACIFIER	4	40	12	39	25.1%	0.25 [0.07, 0.86]	-	
Total (95% CI)		112		121	100.0%	0.26 [0.14, 0.48]	•	
Total events	21		55				1-31-43-40	
Heterogeneity: Tau2 :	= 0.00; C	$hi^2 = 0$.01, df =	2(P =	1.00); I2 :	= 0%	0.01 01	10 100
Test for overall effect: $Z = 4.27 (P < 0.0001)$						0.01 0.1 PCB Better	l 10 100 UCB Better	

Heterogeneity_(exact): $Chi^2 = 0.004$, df = 2 (P = 0.99) Test for overall effect_(exact): P < 0.00001

Circ Cardiovasc Interv. 2012;5:582-589

DEB for de novo lesion

Meta-analysis

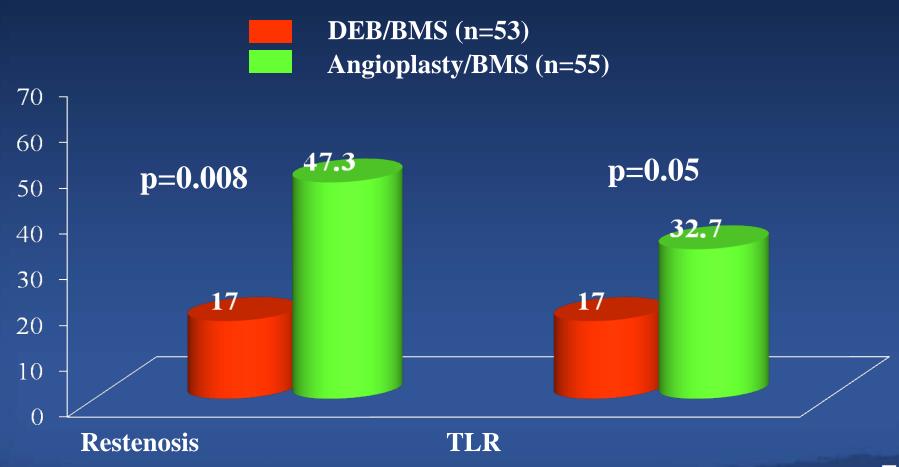


Death	PCB UCB			3		Odds Ratio	Odds Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Rando	m, 95% CI	
THUNDER	2	48	1	54	19.4%	2.30 [0.20, 26.25]	9	_	
FemPac	6	45	3	42	46.6%	2.00 [0.47, 8.57]	-		
LEVANT I	1	48	3	49	21.5%	0.33 [0.03, 3.25]	· (II)		
PACIFIER	0	41	2	41	12.6%	0.19 [0.01, 4.09]	-		
Total (95% CI)		182		186	100.0%	1.04 [0.34, 3.18]			
Total events	9		9						
Heterogeneity: Tau ² =	= 0.15; CI	$hi^2 = 3$.37, df =	3(P =	0.34); I2 :	= 11%	0.01 0.1 1	10 10	
Test for overall effect: $Z = 0.06$ (P = 0.95)								UCB Better	
Heterogeneity _(exact) : C	$hi^2 = 4.37,$	df = 3	(P = 0.22)	di.			i eb better	ocb better	

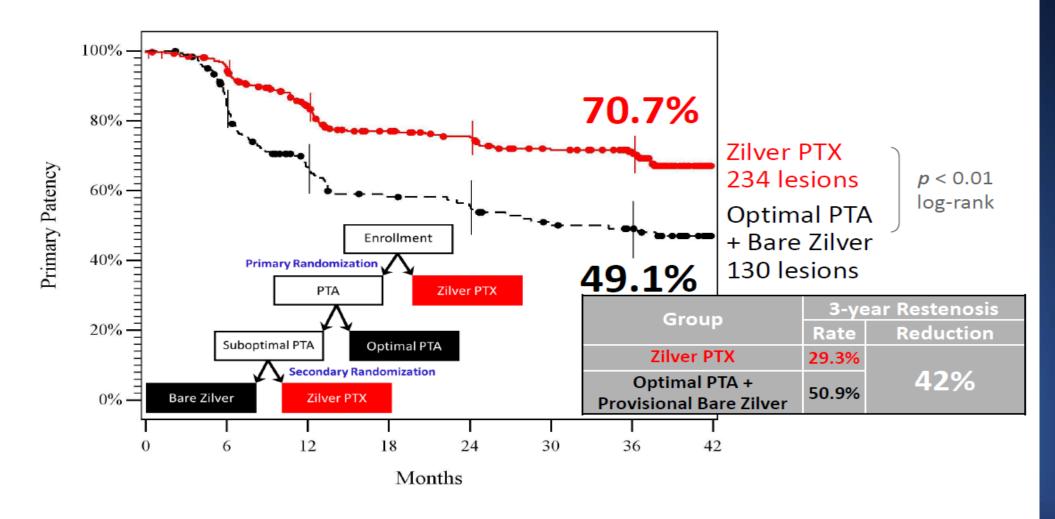
Circ Cardiovasc Interv. 2012:5:582-589

Test for overall effect (exact): P = 0.98

DEBATE SFA trial 1-YEAR OUTCOMES

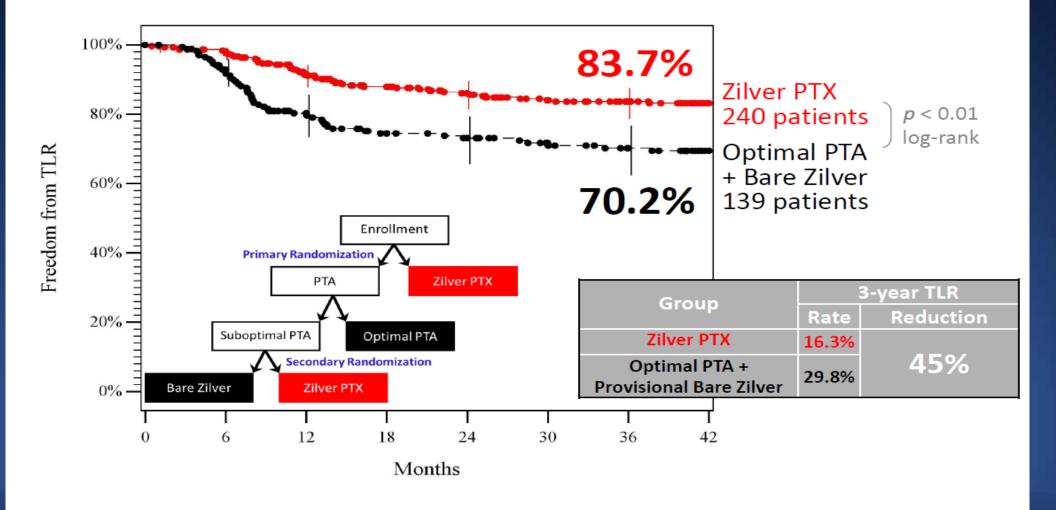


3-Year Primary Patency (PSVR < 2.0) **Zilver PTX vs. Standard Care**



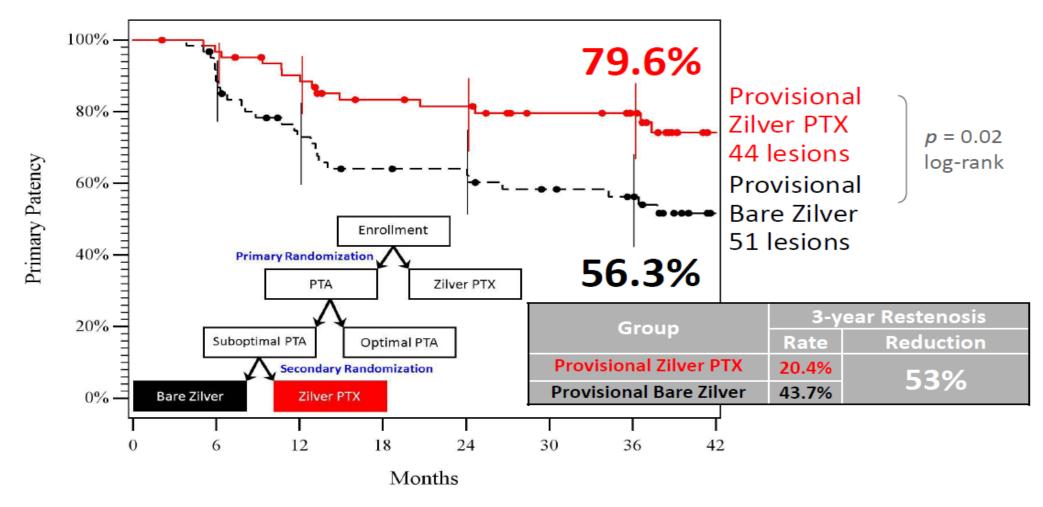


3-Year Freedom from TLR Zilver PTX vs. Standard Care



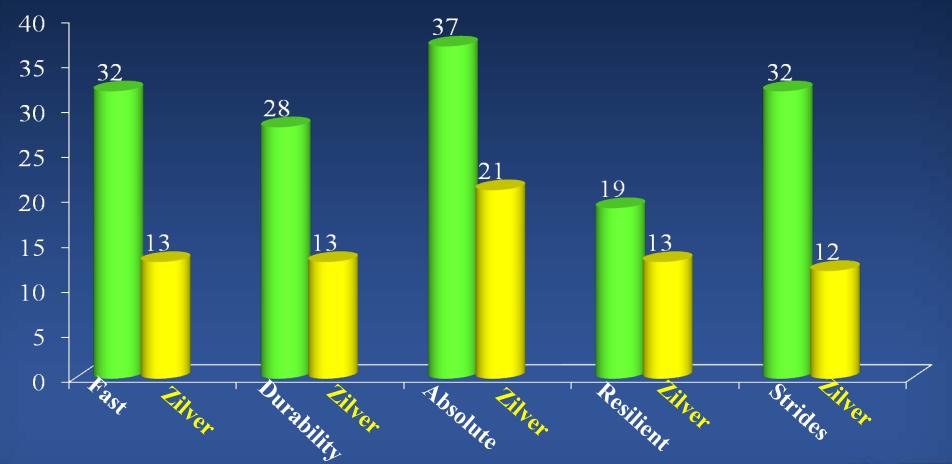
3-Year Paclitaxel Effect

Patency (PSVR < 2.0): **Provisional Zilver PTX vs. BMS**



Zilver PTX for de novo lesion Matching comparison with other stent trials

12 months restenosis



J ENDOVASC THER 2011;18:613–623





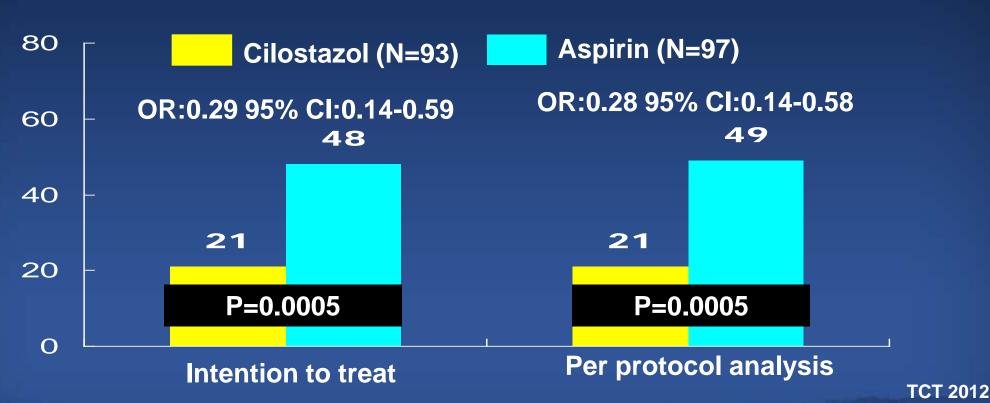


STOP-IC

Aspirin vs. Aspirin/Cilostazol for 1 year after stenting

- 190 patients randomization
- All patients received aspirin ticlopidine for 1 month

12 Months angiographic restenosis









Discussion

- Most Optimal Strategy for SFA
 - Atherectomy, DEB, DES, or DEB with BMS
- Post-stenting Maintenance
 - Cilostazol
 - Others?



