





Marc Bosiers Koen Deloose Joren Callaert

Imelda Hospital, Bonheiden
Patrick Peeters
Jürgen Verbist
W. Van den Eynde



OLV Hospital, Aalst

Lieven Maene Roel Beelen

R.Z. Heilig Hart, Tienen



Koen Keirse Bart Joos



Or is the iVolution stent a better alternative? **EVOLUTION 12-month data**

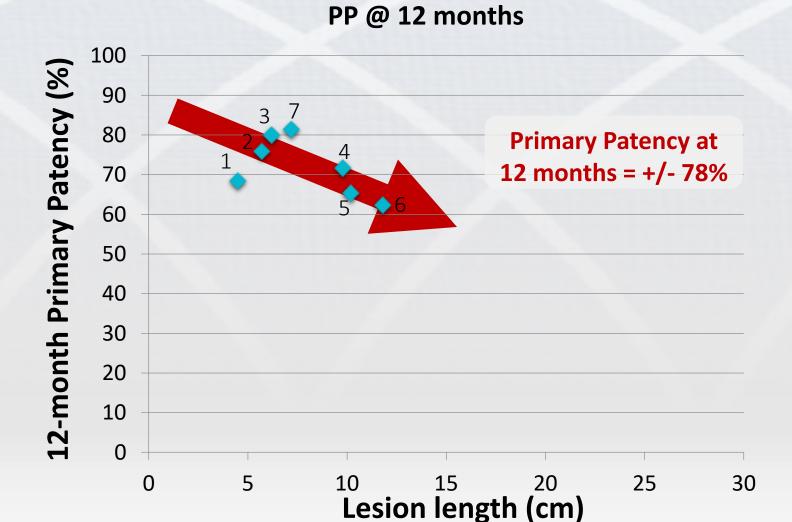
Dr. Marc Bosiers

LINC 2018, Leipzig

Conflict of interest

- □ 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

Results with stents in the SFA - TASC A & B



Stent

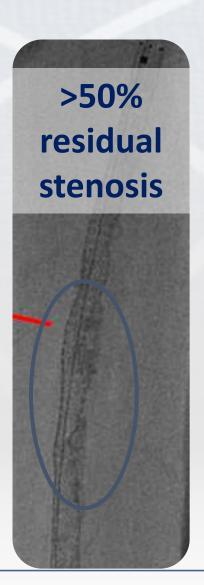
- 1. FAST
- 2. FACT
- 3. RESILIENT
- 4. **DURABILITY**
- 5. ASTRON
- 6. VIENNA
- **7. 4EVER**

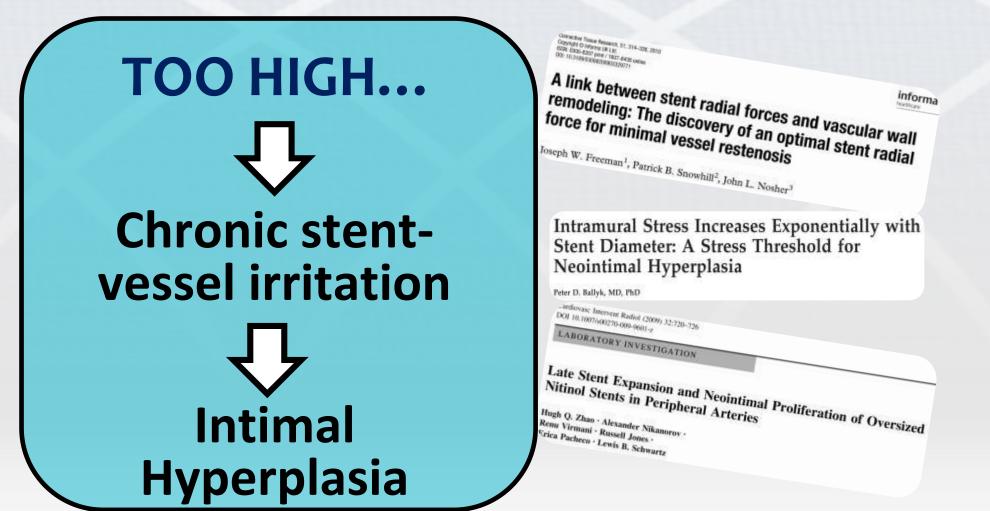
TOO LOW...

Impossible to open the lesion

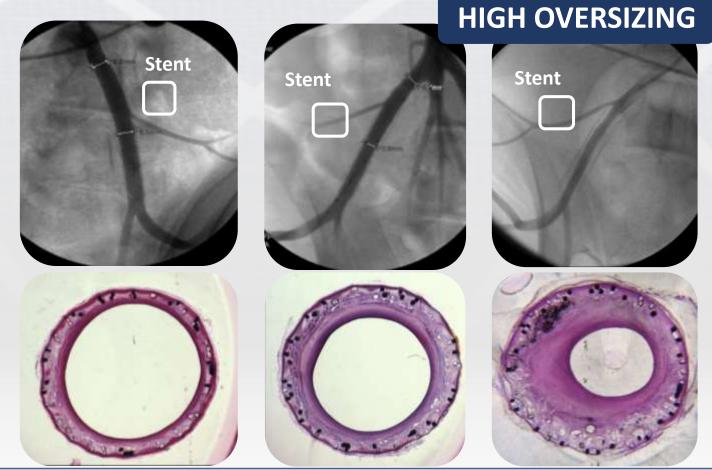


Residual stenosis

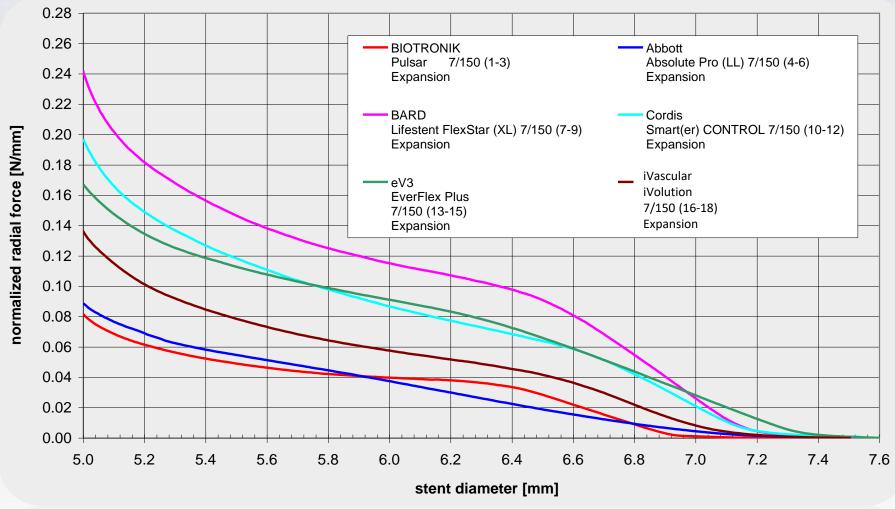




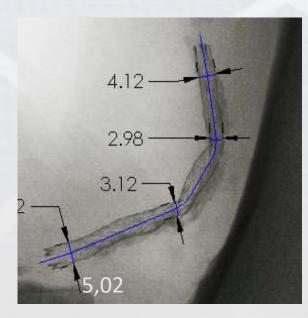
Example: 8 mm stent 7.3 - 6.2 mm 6.2 - 5.0 mm 5.0 - 4.2 mm



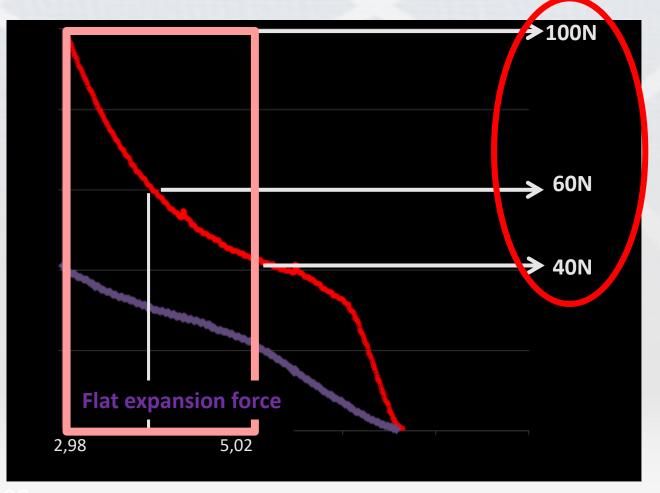
Even when oversizing low rates of COF, due to the flat expansion curve



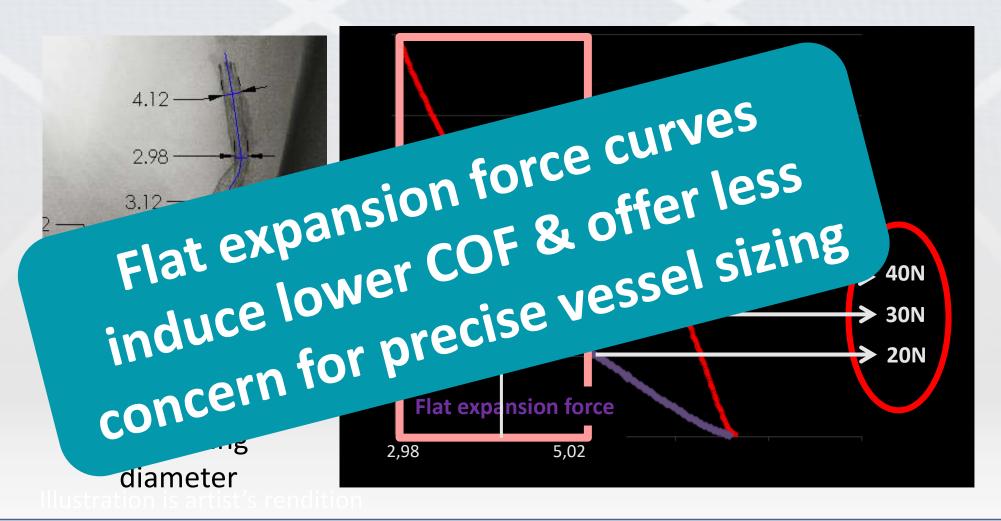
Bent Leg: vessel diameter range: 5.02 - 2.98 mm: 6mm stent implant



Expansion force increases with decreasing diameter

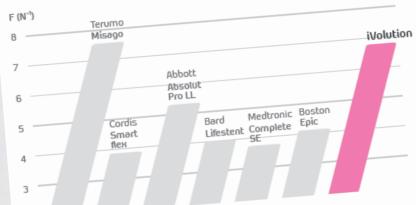


Bent Leg: vessel diameter range: 5.02 - 2.98 mm: 6mm stent implant

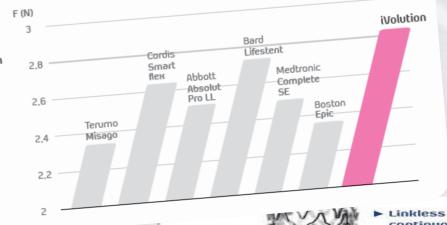


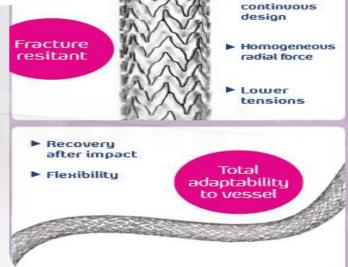
iVolution Stent Design

Flexibility



Radial force











Evolution study



A Prospective, non-randomized, multi center study investigating the Efficacy of the Self-Expanding iVolution nitinol stent for treatment of femoropopliteal lesions

Study design



Study Objective:

To evaluate the **short-term** (up to 12 months) outcome of treatment by means of the self-expanding **iVolution nitinol stent** in symptomatic (RF 2-4) femoropopliteal stenotic or occlusive lesions

• Primary Endpoint:

Primary Patency at 12Months, defined as freedom from >50% restenosis at 12months as indicated by an independently verified duplex ultrasound PSVR <2.5 in the target vessel with no reintervention.

Participating centers

evolution

• BELGIUM

- M. Bosiers, K. Deloose, J. Callaert AZ Sint-Blasius, Dendermonde
- P. Peeters, J. Verbist Imelda Hospital, Bonheiden
- L. Maene, R. Beelen OLV, Aalst
- K. Keirse RZ Heilig Hart, Tienen



Inclusion criteria



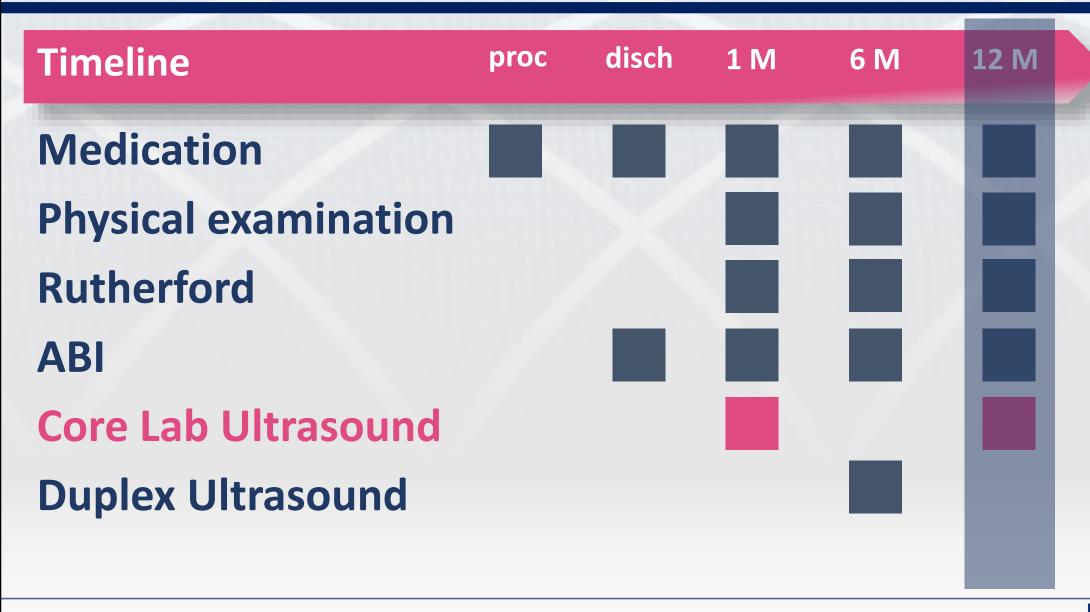
EVOLUTION

120 out of 120 patients enrolled (100%)

Main inclusion criteria

- Rutherford classification from 2 to 4
- De novo lesion in the femoropopliteal arteries, suitable for endovascular therapy
- Total target lesion length ≤ 150mm

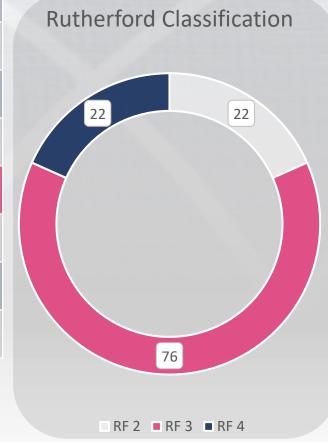
Study overview



Patient Demographics

	1									1		
	100		-	_	•	-	-	•				
- 4			9-	-	•	0	-	-	-		ю.	
- 60		100	4.4		_			-		2.1		k
	4.8	40	44		ш	AL.				200		
	-	100	n a		п	п			99	ъ.		
	11	m	90	150	т			1	11	51		
	34	99		d	27				93	12		
ur		18		N.	1	п	4			٧.		
	-			4	v	4		71	*	/ 1	10	
	202	813	3	e e	B	世		4	360			
	ю	ы	46	44	-			4	44			
	8.3	8.5	10.00				12	-	a.	2 1		
100	2.2	3.0	2.7						10	2 1		
W	2.3	*	* *	100	10	-	-	-				
- \		-	-	-	-	-	-	-			1	
											/	

	N = 120
Male (%)	86 (71.67%)
Age (min – max; ±SD)	71.07 (42.74 – 94.88 ; ±10.68)
Nicotine abuse (%)	76 (63.33%)
Hypertension (%)	87 (72.50%)
Diabetes mellitus (%)	26 (21.67%)
Renal insufficiency (%)	19 (15.83%)
Hypercholesterolemia (%)	66 (55.00%)
Obesity (%)	31 (25.83%)



Procedural characteristics

	A Commence of the Commence of
-	Transmission of the
- 10	THE RESIDENCE OF THE PARTY OF T
A 1	A PARKSON STATE OF THE PARKSON
400	TAXABLE BARRETT TO THE
//	I I I I I I I I I I I I I I I I I I I
/ / / / / / / / / / / / / / / / / / / /	144444894541111
	evolution
Million.	
11111	1 まる保護技術協能がある 1 1 1 1
7 1 1	1.4.2.2.2.2.2.2.2.2.2.2.2.1.1.2.2.2.2.2.
100	TIMESHARKSTON !
7.0	
	And the last of th

N = 120
41.93 min (13.0 – 109.0; ±15.74)
10.39 min (3.40 – 70.00 ; ±8.11)
76.88 mL (15.00 – 200.00 ; ±34.08)
105 (87.50%)
18 (15.00%)
22 (18.33%)

Lesion Characteristics

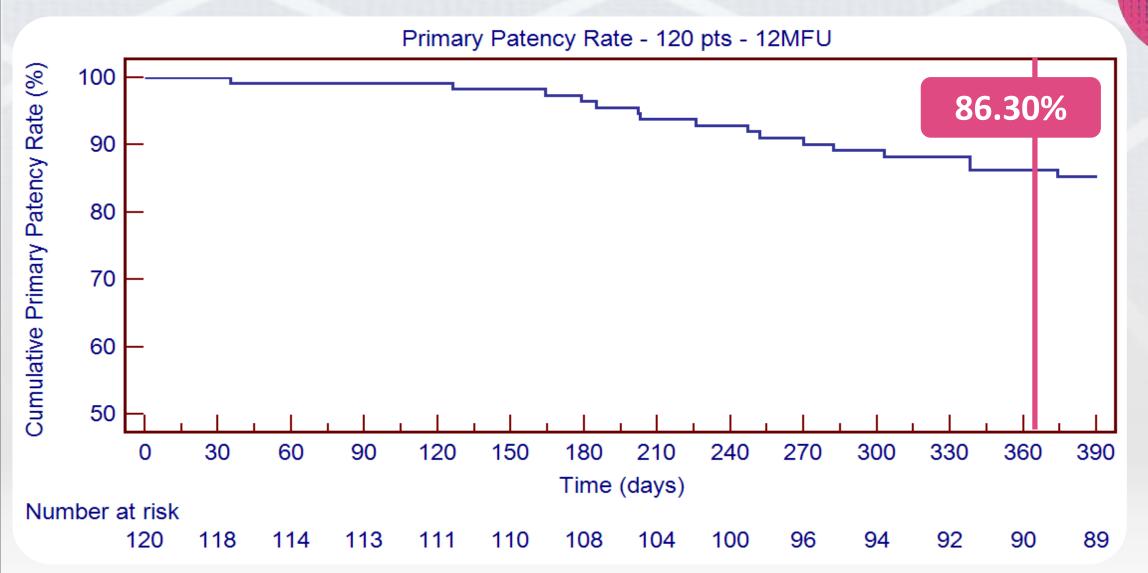
	N = 120
Lesion length (min – max; ±SD)	89.63 mm (9.0 – 150.0; ±44.68)
Ref Vessel Diameter (min – max; ±SD)	5.63 mm (4.00 – 7.00 ; ±0.58)
1 study stent implanted (%)	112 (93.33%)
2 study stents implanted (%)	8 (6.67%)
Occlusion (%)	48 (40.00%)
Calcified lesion (%)	86 (71.67%)



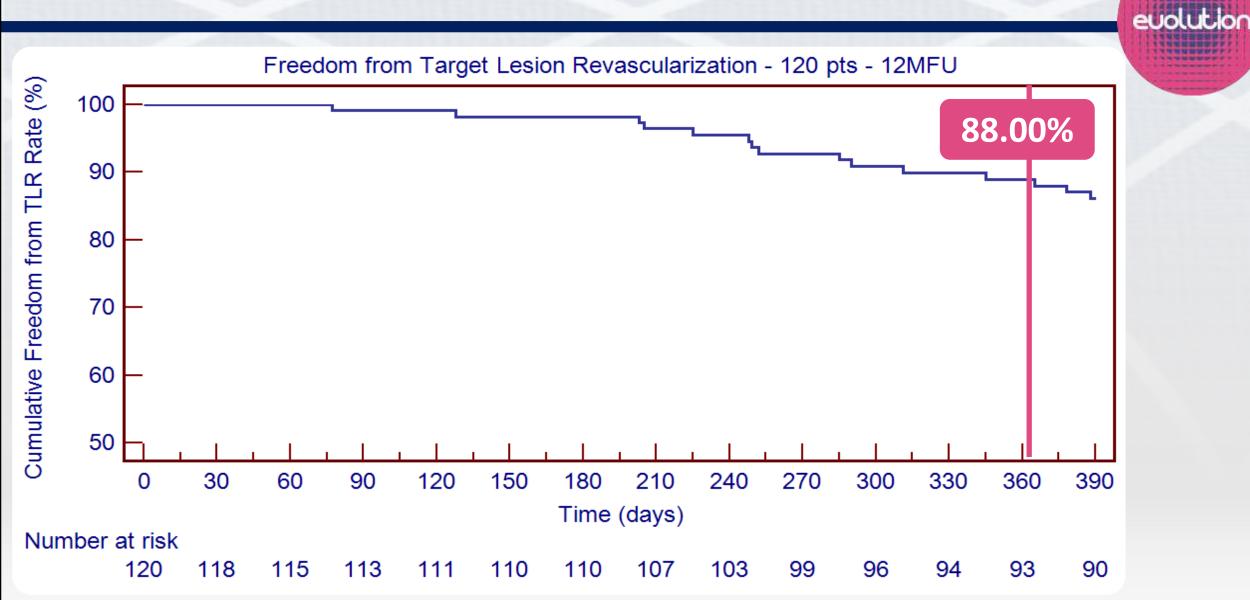


12-month Primary Patency



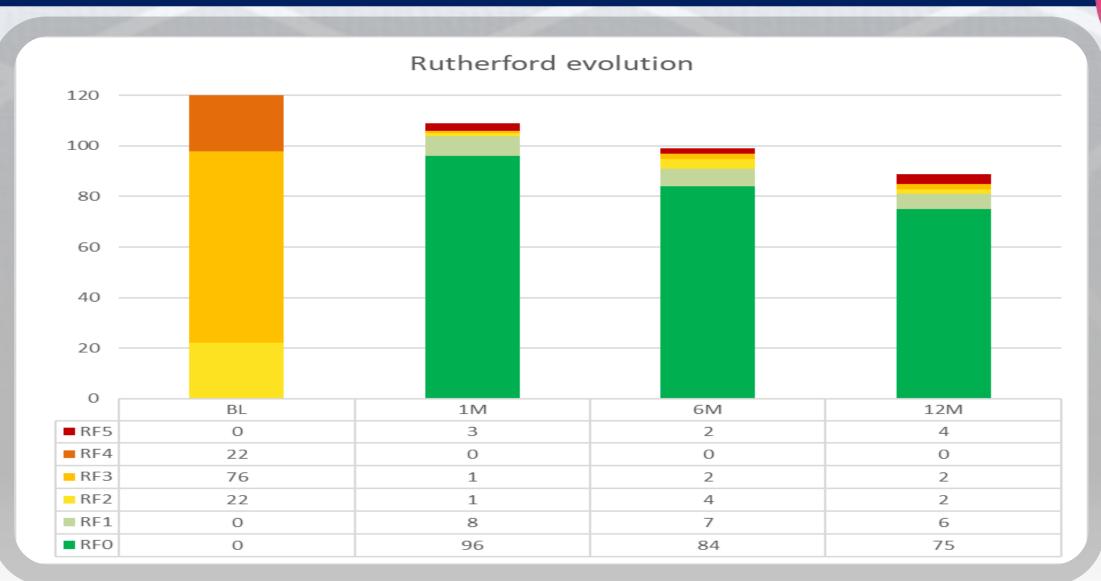


12-month Freedom from TLR

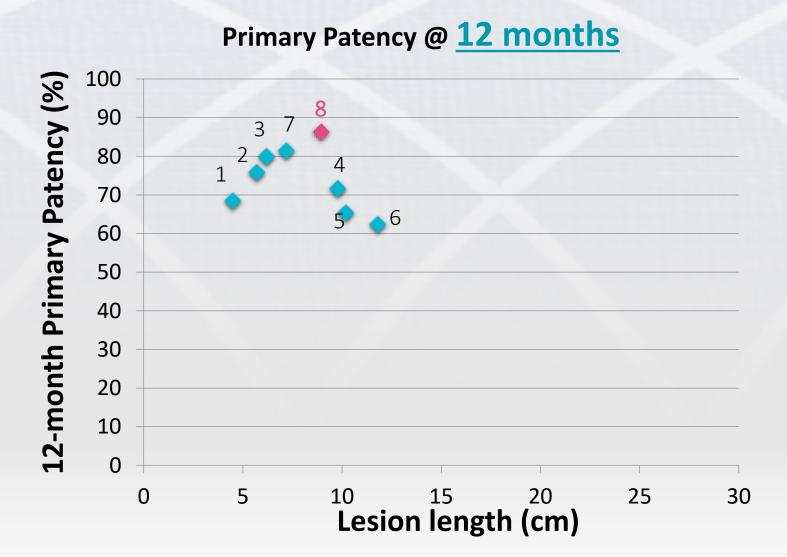


12-month Rutherford evolution





Results with stents in the SFA - TASC A & B



Stent

- 1. FAST
- 2. FACT
- 3. RESILIENT
- 4. **DURABILITY**
- 5. ASTRON
- 6. VIENNA
- **7. 4EVER**
- 8. Evolution

Conclusion

 Final results show that the iVolution stent is a very effective treatment for femoropopliteal TASC A&B lesions









Marc Bosiers Koen Deloose Joren Callaert

Imelda Hospital, Bonheiden
Patrick Peeters
Jürgen Verbist
W. Van den Eynde



OLV Hospital, Aalst

Lieven Maene Roel Beelen

R.Z. Heilig Hart, Tienen



Koen Keirse Bart Joos



Or is the iVolution stent a better alternative? **EVOLUTION 12-month data**

Dr. Marc Bosiers

LINC 2018, Leipzig