

**Welcome to the 4th
European Bifurcation Club
26-27 September 2008 - PRAGUE**

*A novel side branch solution
to bifurcation disease*

European Bifurcation Club



TargetSE
Delivery System for Self-Expanding Devices

 **Sideguard**
Ostium Protection Device

Cappella
Cardiovascular Innovations

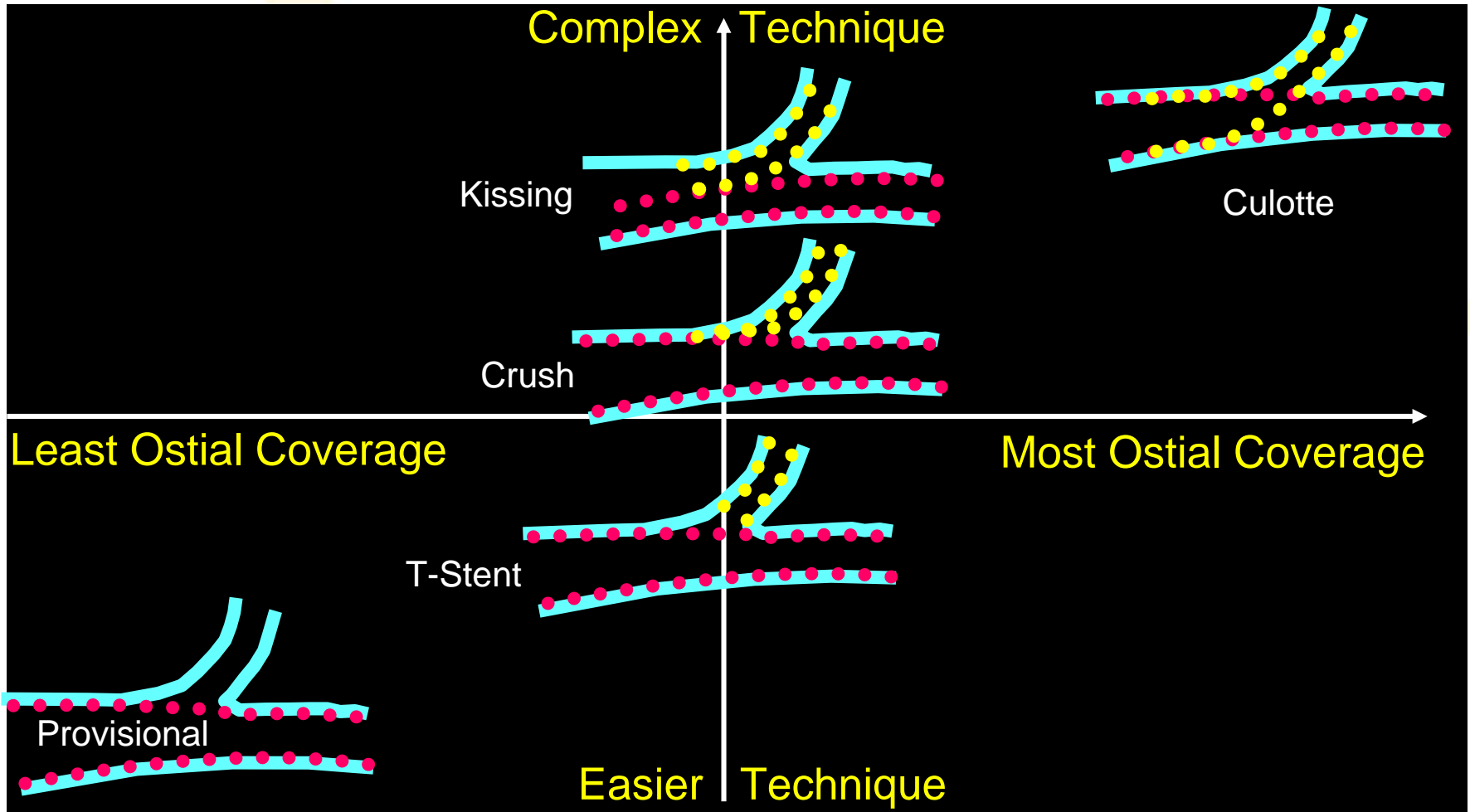
Dr. Ralf Müller, MD

*HELIOS Klinikum
Siegburg, Germany*

European Bifurcation Club



Bifurcation Stent Techniques Matrix



The Next Generation of Bifurcation Stenting

European Bifurcation Club



The Cappella Sideguard™
Side Branch Stenting System



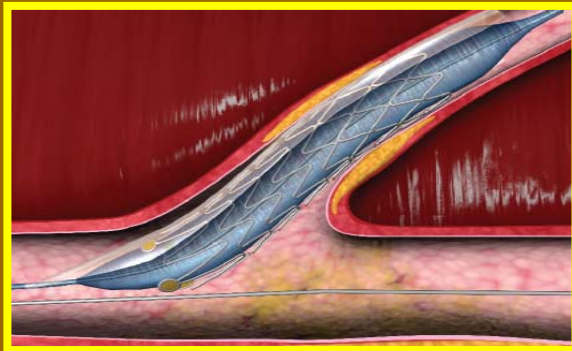
About Cappella

- Co-founded by Drs. Antonio Colombo & Ascher Shmulewitz in 2004
- Developed a non-DES solution for the treatment of coronary bifurcations -- the Sideguard™ self-expanding side branch stent
- Completed CE pivotal safety trial:
 - 75 patients treated
 - Investigational device
 - Preparing to file for CE Mark approval in Europe in Q4-08
- European product launch scheduled for Q1-09

The Cappella Products

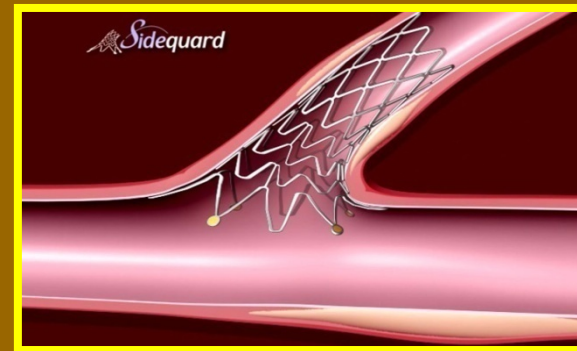
Cappella products uniquely address the complexities associated with **ostial** and **bifurcated** lesions

Target SE Delivery System



Splittable Sheath, Balloon Catheter System

Bare Metal Sideguard OPD



Self-Expanding (SE) Stent

- Sideguard is a self-expanding, anatomically-shaped stent
- Target is a balloon-release delivery system for SE stents

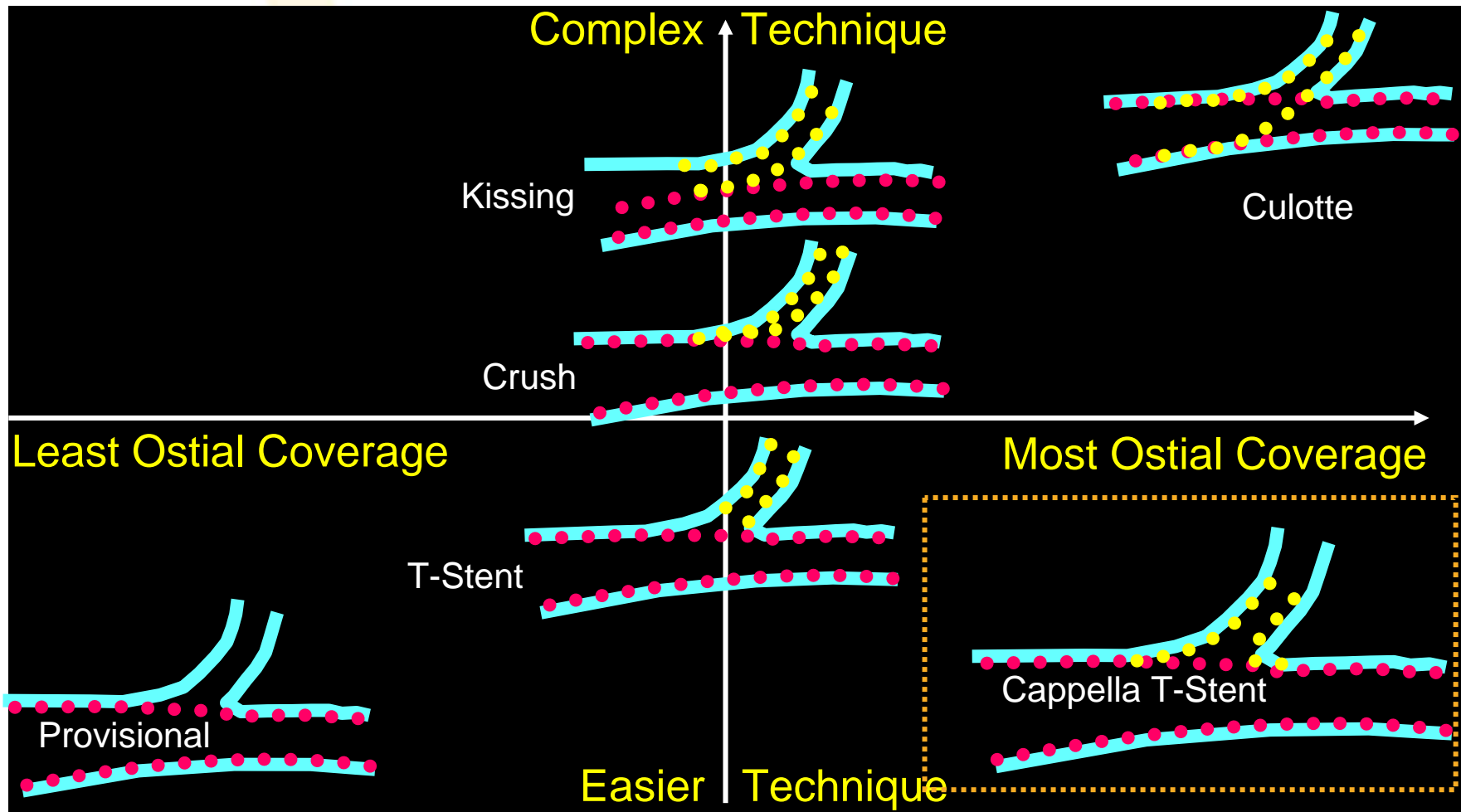


The Cappella Technology

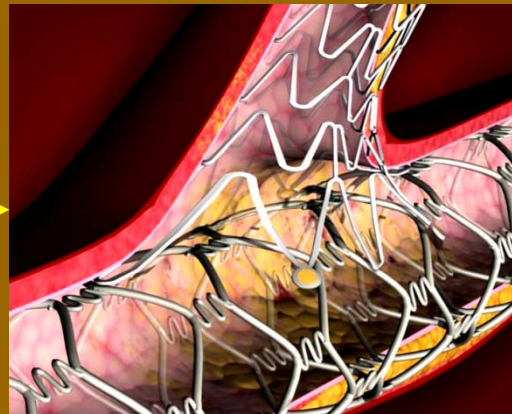
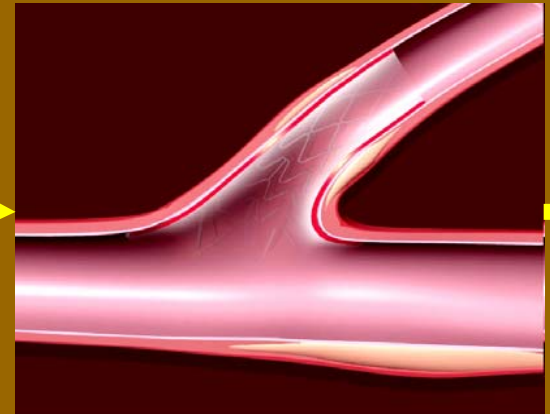
Sideguard Side Branch Stent & Target SE Delivery System

<i>Device description</i>	Self-Expanding, Bare-Metal Nitinol, Full Ostial-Supporting Side Branch stent			
<i>Mechanism of operation</i>	Splittable-sheath, balloon release catheter system			
<i>Device size (Fr)</i>	3.1			
<i>Length</i>	Treats lesions up to 7 mm in SB			
<i>3 sizes – SB vessel size up to</i>	<table border="1"><tr><td>2.5 mm</td><td>2.75 mm</td><td>3.25 mm</td></tr></table>	2.5 mm	2.75 mm	3.25 mm
2.5 mm	2.75 mm	3.25 mm		
<i>Product Approval and Indication</i>	<i>Investigational device; CE Mark expected Q1-2009</i>			

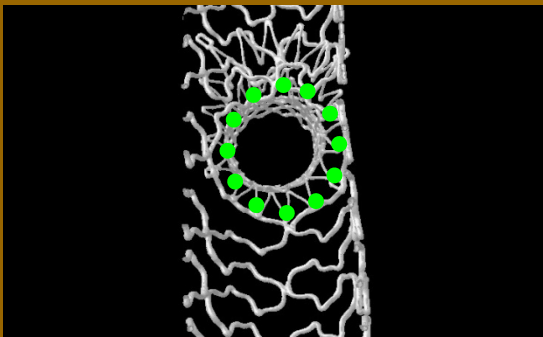
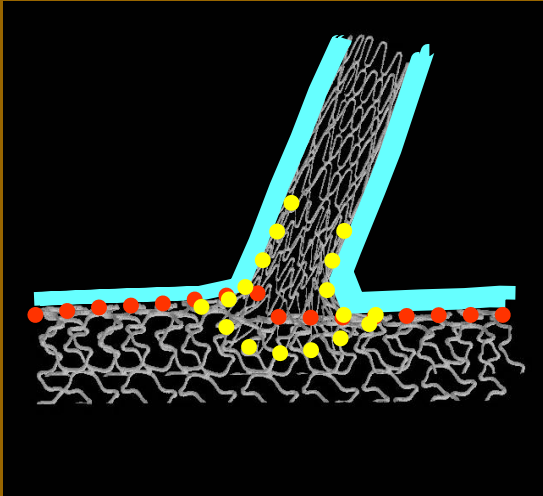
Bifurcation Stent Techniques Matrix



Cappella T-Stenting Approach



Cappella “T” seamless bifurcation stenting



- Seamless transition
- No crushing of metal
- No excess metal in MV
- No crossing of struts
- Improves flow dynamics
- Fewer thrombotic events
- Easier SB re-access

The Sideguard Advantage

For ostial and side branch lesions:

- Protects and opens the side branch ostium
- Facilitates side branch rewiring
- Eliminates jailed side branches
- Provides maximum coverage of ostium
- Minimizes stent overlap at transition zone
- No crushing of metal

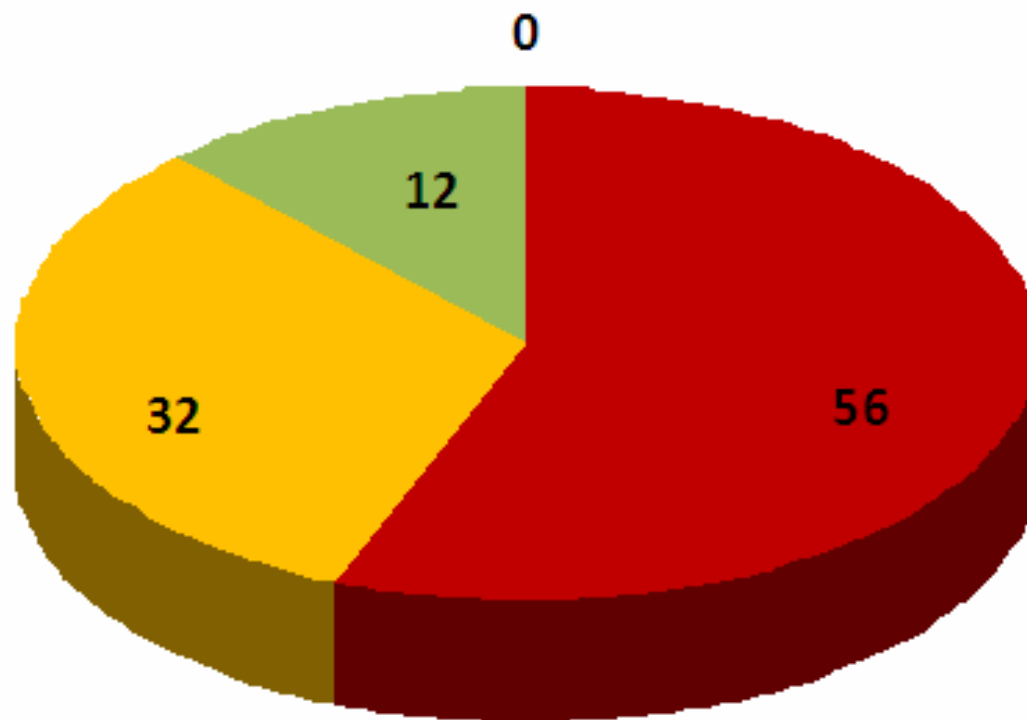




Sideguard FIM Experience

Objective	FIM Feasibility study of SG stent & catheter to establish: <ul style="list-style-type: none">• safety to proceed to pivotal trial• baseline efficacy of Bare Metal FIM design• procedural best practices												
Design	Single Arm, multi-centers												
Endpoints	<ul style="list-style-type: none">• Major Adverse Cardiac Events (MACE) @ 1 & 6 months• Technical Success (Procedural)• MV and SB MLD @ 6 months• MV and SB Binary Restenosis @ 6 months												
Patients	25 enrolled												
Investigators	<table><tr><td>W. Wijns, MD</td><td>Belgium (Aalst)</td><td>P.I.</td></tr><tr><td>E. Grube, MD</td><td>Germany (Siegburg)</td><td></td></tr><tr><td>R. Mueller, MD</td><td>Germany (Siegburg)</td><td></td></tr><tr><td>J. Schofer, MD</td><td>Germany (Hamburg)</td><td></td></tr></table>	W. Wijns, MD	Belgium (Aalst)	P.I.	E. Grube, MD	Germany (Siegburg)		R. Mueller, MD	Germany (Siegburg)		J. Schofer, MD	Germany (Hamburg)	
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Sideguard FIM Lesion Summary

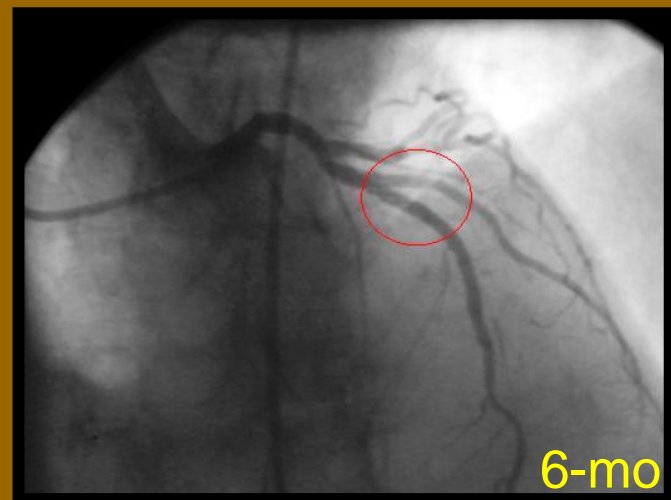
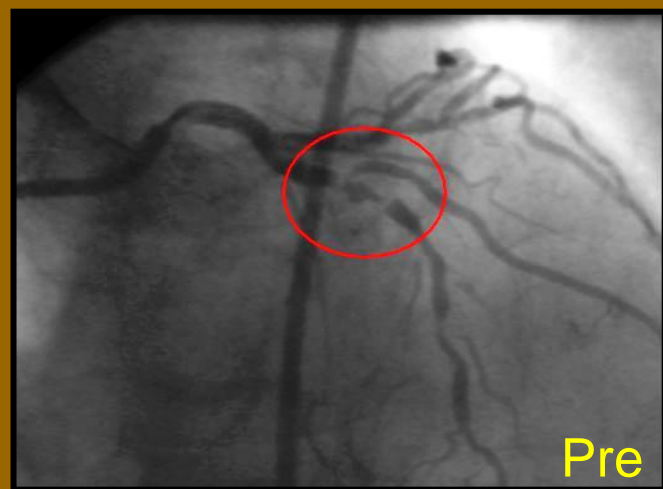


- Disease in all 3 segments (1,1,1)
- Disease in 2 of 3 segments including SB (1,0,1) (0,1,1)
- Disease in MB only (1,1,0) (1,0,0) (0,1,0)
- Disease in SB only (0,0,1)

Sideguard FIM Lesion Characteristics

Baseline Lesion Characteristic Averages (N=25)

Pre-Procedure	Side Branch	Main Vessel
MLD (mm)	5.8	13.6
RVD (mm)	0.69	0.90
Stenosis	70%	71.5%



High degree of vessel narrowing = challenging cases

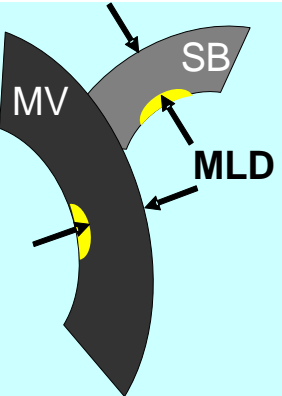


Sideguard FIM Clinical Outcomes

	N=25
Procedural Success	84%
Cardiac Death	0%
CABG	0%
MI	4%
TLR	8%
MACE	12%



Sideguard FIM Efficacy Data

2 Segment Analysis	N=21	Pre-Proc. (Ave)	Post/Acute (Ave)	6 Mo F/Up (Ave)	Late Gain (Ave)	Late Loss (Ave)
	<u>Sideguard</u> MLD	0.69 mm	2.19 mm	1.81 mm	1.12mm	0.38 mm
	<u>Cypher</u> MLD	0.90 mm	2.81 mm	2.60 mm	1.70mm	0.21 mm



Summary of Sideguard FIM Clinical Data

- Low restenosis rate:
 - 2/25 patients
- Acceptable safety profile:
 - MACE rate of 3/25 patients
- Late loss of < 0.4 in the SB

Full CE dataset to be presented at





Conclusion

- Very promising 6-month angiographic data and more will be available and presented at TCT
- FIM safety data is very acceptable
- Cappella T is similar to a reverse T-stent technique and due to the stent's trumpet design provides better coverage
- The Cappella stent makes T-stenting approach easier