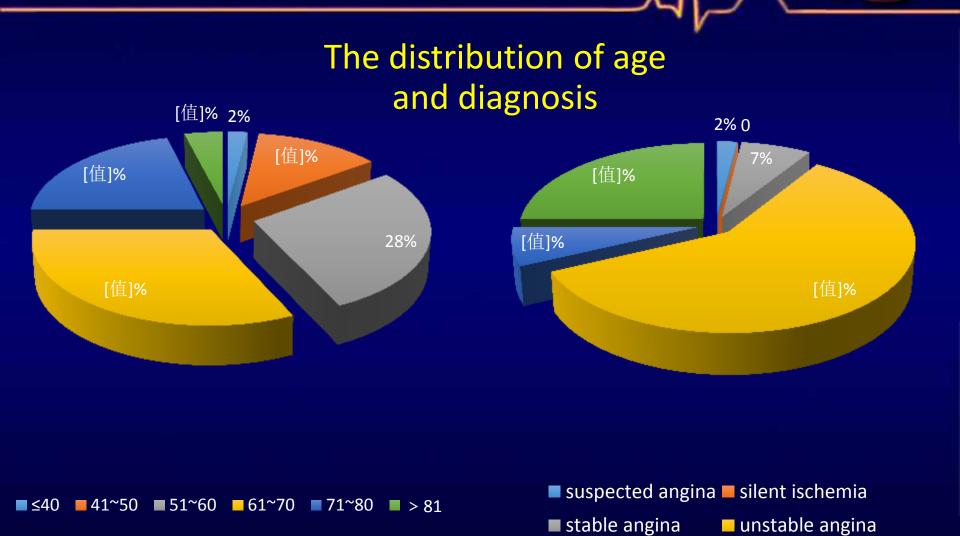


Junbo Ge, MD, FACC, FESC, FSCAI Professor of Medicine/Cardiology Chairman, Shanghai Institute of Cardiovascular Diseases Director, Dept. of Cardiology Zhongshan Hospital, Fudan University

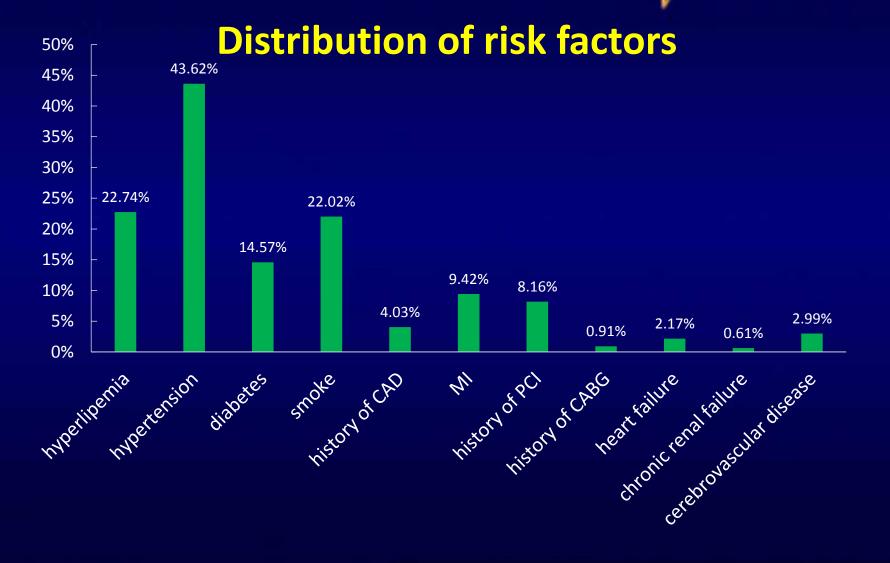




NSTEMI

STEMI

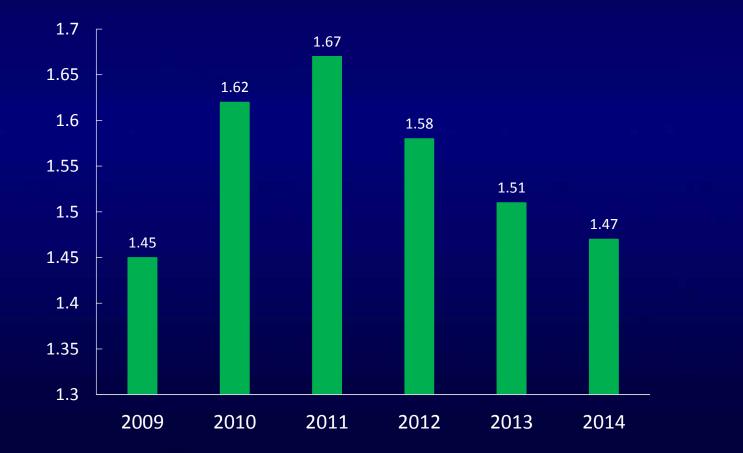






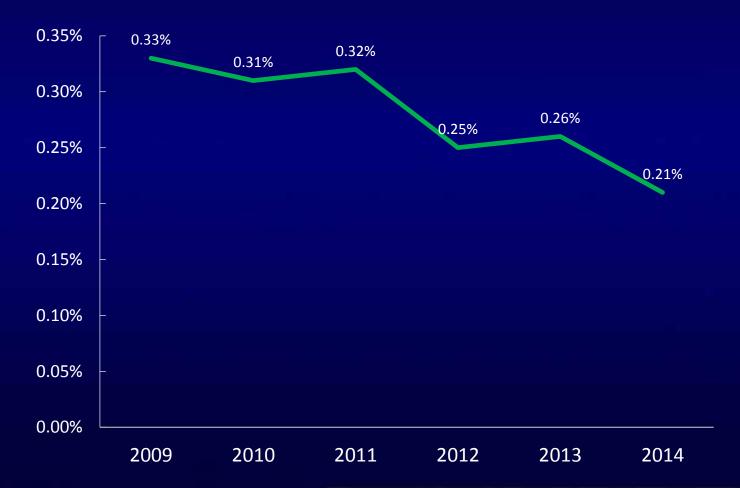


Stent(s) per patient in one procedure





Mortality peri-PCI

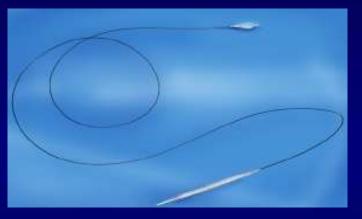




BRS in China

- Rapidly developed since 2006
- First domestic BRS (XINSORB) implantation in Sept. 2013
- Over 300 patients were treated with BRS
- 2 kinds of BRS (XINSORB & NeoVas scaffold) in clinical trail
- More BRS (including magnesium stent) will be introduced into clinical practice

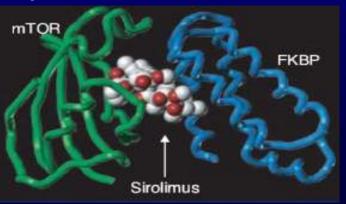


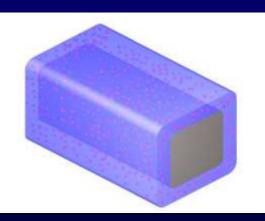


1. PLLA bioresorbable compositions

- 2. 150 µm thickness
- **3. Radial strength similar to BMS**
- 4. Sirolimus-eluting
- 5. Available size: 2.75mm, 3.0mm and3.5mm in diameter; 12mm, 15mm,18mm, 23mm and 28mm in length

Rx. & balloon expandable





P-DL-LA polymer carrying sirolimus

Sirolimus

First in Man (FIM) (Apr.2013)

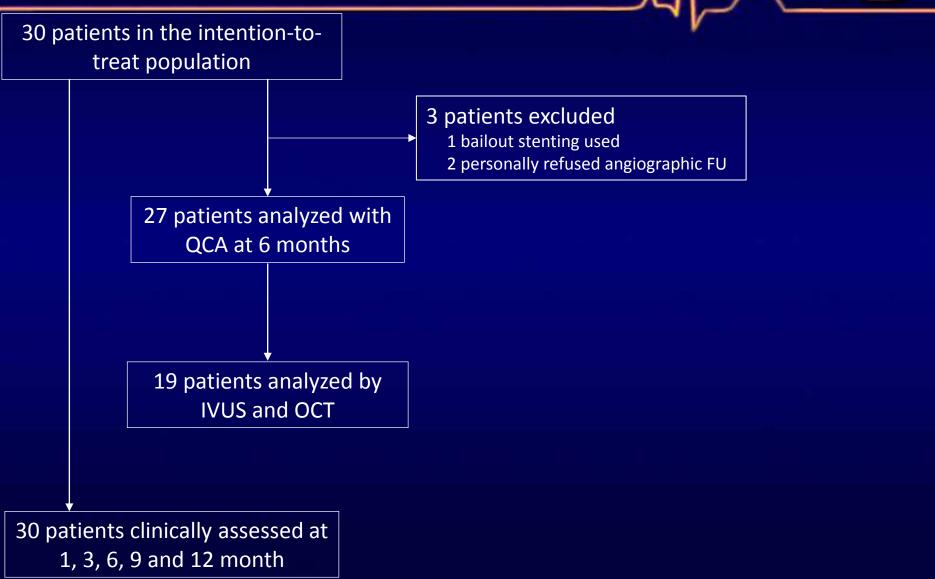
Clinical FU (N=30)

Post-procedure 30days 90days 180days 270days 365days

Angiographic FU (N=30)

Study objective:	Prospective, bi-centers, first-in-man clinical trial		
PI:	Prof. Junbo GE		
End point:	Primary point: MACE at 30 days FU and LLL at 180 days FU Secondary point: instantly device / procedure success, in-stent / in-segment restenosis, and TLR		
Treatment:	Single <i>de novo</i> lesion with %DS≥50% and <100%, TIMI grade >1. Diameter of lesion 2.75mm ~ 3.25mm (based on QCA). Length of lesion must ≤24mm.		
Device sizes:	Scaffold diameter: 3.0mm Scaffold lengths: 12, 15, 18, 23, 28mm		

Overview of China PCI Study Profile





Baseline Characteristic

		intention-to-treat population (n=30)	Per-treatment-evaluable population (n=27)	
Age (years)		53.5±9.9	53.0±10.3	
Men		21 (70%)	19 (70.4%)	
Diabetes		4 (13.3%)	4 (14.8%)	
Hypertension		16 (53.3%)	15 (55.6%)	
Previous MI		2 (6.7%)	1 (3.7%)	
Stable angina		5 (16.7%)	5 (18.5%)	
Unstable angina		23 (76.6%)	21 (77.8%)	
Target vessel	LAD	16 (53.3%)	15 (55.6%)	
	LCX	8 (26.7%)	6 (22.2%)	
	RCA	6 (20%)	6 (22.2%)	



Acute Data (n=30)

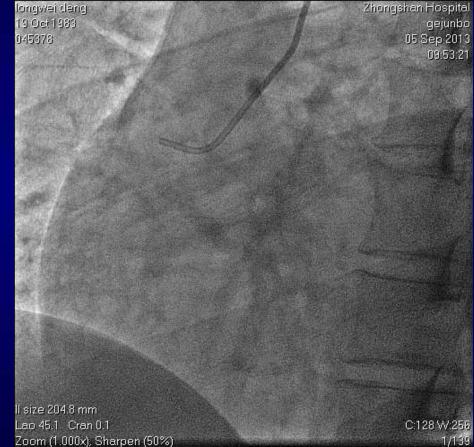
		After procedure	
	Before procedure	In-scaffold	Peri-scaffold
Diameter of Reference vessel (mm)	2.90±0.30	2.92±0.29	
Minimal Luminal Diameter (mm)	1.20±0.40	2.61±0.25	2.71±0.25
Lesion length (mm)	12.75±3.84		
Acute gain (mm)		1.42±0.43	1.28±0.41
Percentage of diameter stenosis (%)	58.9±12.4	10.4±4.5	10.6±4.8

Baseline



- 30-year-old Male
- inferior myocardial infarction 12 days before procedure
- No hypertension or type 2 diabetes
- Smoke for 15 years
- ECG showed Q-wave in ||/||/aVF with T inversion
- ECHO showed regional wall (inferior) constriction attenuation

Coronary Angiography



Zhongshan Hospital gejunbo 05 Sep 2013 09:53:21

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1/136

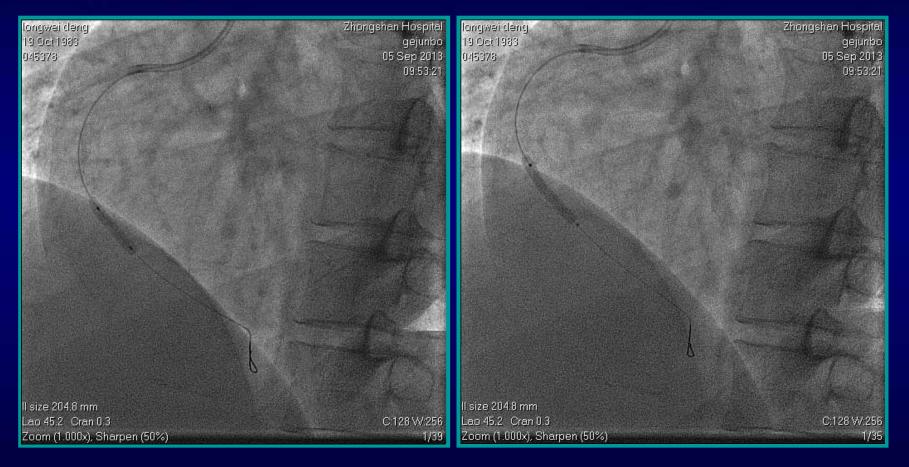
ll size 204.8 mm Rao -31.6 Caud -32.3 Zoom (1.000x), Sharpen (50%)

longwei deng

19 Oct 1983

045378

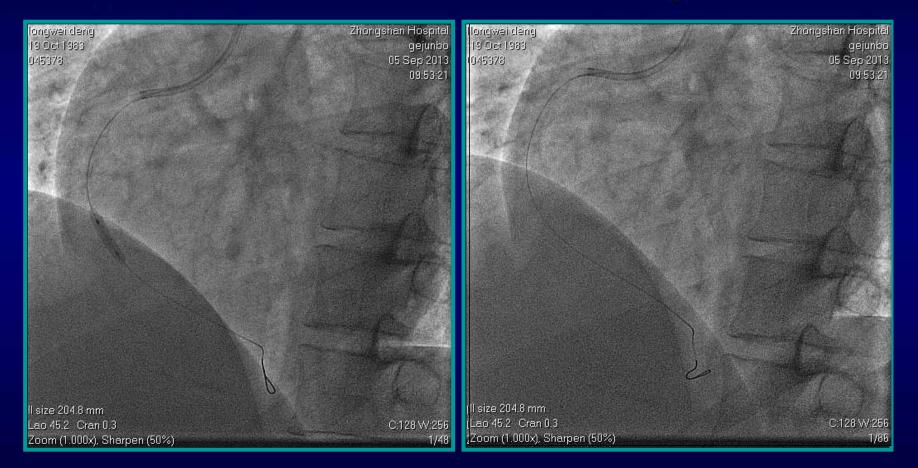
Stent deployment



Pre-dilation(Sapphire 3.0*15mm 12atm*10s)

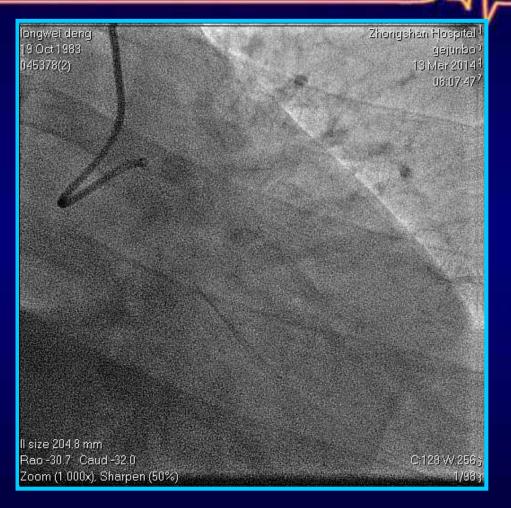
Stent deployment(xinsorb 3.0*18mm 14atm*30s)

Post-dilation and Final Result



Post-dilation(Quantum 3.25*12mm 20-22atm*10s)

6m angiographic FU



LAD and LCX Shanghai Institute of Cardiovascular Diseases

6m angiographic FU

Zhongshan Hospital

gejunbo

08:07:47

13 Mar 2014

longwei deng

19 Oct 1983

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ll size 204.8 mm Rao -29.9 Cran 0.6 Zoom (1.000x), Sharpen (50%)

longwei deng

19 Oct 1983

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C:128 W:256 1/110

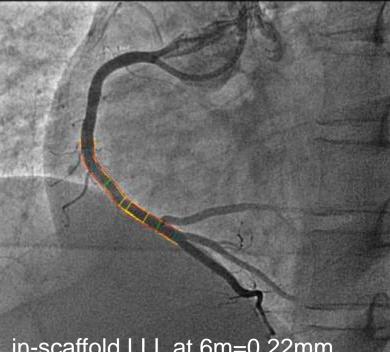
RCA Shanghai Institute of Cardiovascular Diseases

Zhongshan Hospital gejunbo 13 Mar 2014 08:07:47

Ф



药物洗脱支架 - 分析 01 Medis QAngio XA7.2 deng longwei [045378(2)]



in-scaffold LLL at 6m=0.22mm In-scaffold %DS at 6m=8.8%

decalistawei (0453). 商人均当(10) 经基位展 音楽音型 31.10 计语言语 任業 使感移力 (mm) (mm) 兰建斯特征 三世思神堂杨安林 戈有 0.00 TI O 自行 局第五項 石村 禁作 - 小安信里还算过 104 10.0 重任 * 1 9.10 出意 夏日 洗布 10.00 PT in 1.3 2.73 2.73 7.61 7.61 8,43 8,43 (%) 16.89 16.89 23.56 23.56 (mm) 7.61 12.76 2,99 2,80 19.45 13.11 문제 신전 및 학교 28.56 30.99 32.76 3.03 2.95 34.99 5.07 5.07 2.73 7.61 16.89 0.00 我总数 前包选指生装约捕 的包选到生装改满 8.83 1.00 1.70 4.48 8,00 15.37 2.86 8.03 花身刺 2,75 21,56 5.92 35.93 7,61 3.95 8.83 7.33 -14.50 16.8X 3.00 3.05 3.49 8.03 27.90 3.67 1.06 正常正出用 2.75 14.13 -31.11 2,96 正常正式場 加速速度 展2 究言2 页



供人的

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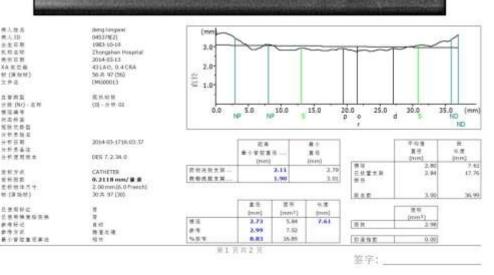
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世景 (N/2-高杯

药物洗脱支架 - 分析 01 Medis Medis QAngio XA7.2 deng longwei [045378(2)]

peri-scaffold LLL at 6m=0.22mm peri-scaffold %DS at 6m=8%

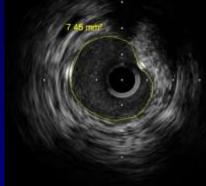


签字:

IVUS at 6m FU

Series MainSeries:Post:RCA:RUN1(1-4340) Frames 1...4340 by 1 Frame Time 0.00s Frame 1





Series MainSeries:Post:RCA:RUN1(1-4340) Frames 1...4340 by 1 Frame Time 20.746 Frame 514

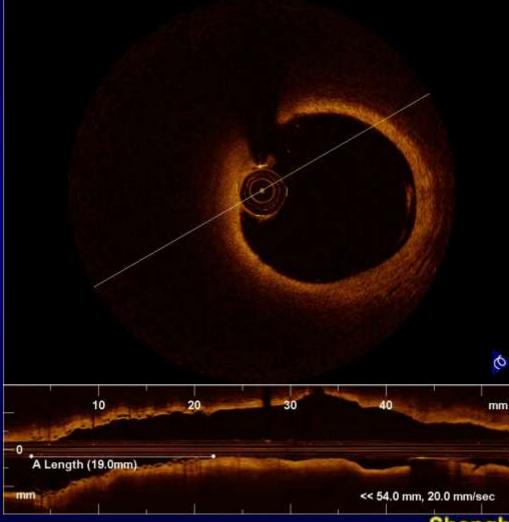


post-procedure luminal area = 7.45mm²

luminal area at $6m = 7.62mm^2$

IVUS at 6m FU

OCT at 6m FU



- 1. Almost all struts were covered by neointima.
- 2. No stent malappositon.
- Neointima thickness on the struts was 100 μm



6-month Angiographic FU (n=27)						
	proximal	In-scaffold	distal			
Diameter of reference vessel (mm)						
After p In-scaffold LLL = 0.17 ± 0.12 mm						
6-mont	t					
$Peri-scanold LLL = 0.13 \pm 0.$	Peri-scaffold LLL = 0.13 ± 0.24 mm					
Minimal I						
After p	After p					
6-mont						
P value	0.11	0.02	0.36			
Acute gain (mm)	—	1.43 ± 0.43	—			
Late luminal loss (mm)	0.17±0.30	0.18 ± 0.21	0.10 ± 0.32			
Diameter stenosis (%)						
After procedure	6.8±5.6	10.0±4.2	7.2±7.1			
6-month follow-up	6.4±5.7	10.6±6.6	7.4±7.5			
P value	0.78	0.70	0.89			

Clinical FU

MACE = 0 @ 6-month FU

No ARC confirmed/probable ST



Prospect of China PCI

- Increase the early reperfusion rate of STEMI, decrease the D2B time
- FFR and IVUS guided PCI, identify the lesions which really matters the ischemia
- Balance the development of coronary intervention between the east and west of China
- New devices and stents are being made or introduced by several industries
- Primary prevention of CAD should be emphasized



Thank You!