# Discovering New Frontier With

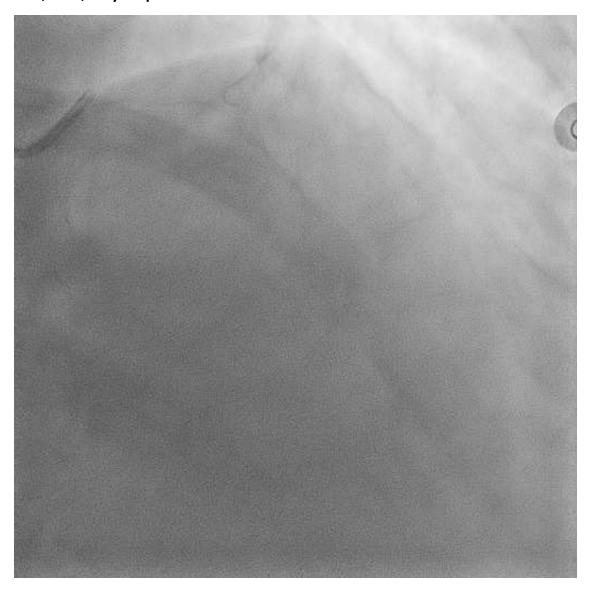
# Polymer Free Stenting in Complex PCI

ROSLI Mohd Ali Consultant Cardiologist National Heart Institute Kuala Lumpur

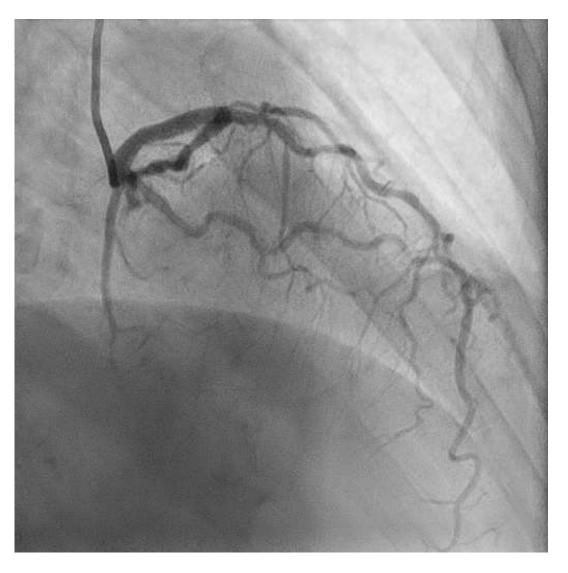
President
ASEAN Federation of Cardiology

I receive a speaker's fee for B. Braun

59 yr old lady UA and CCS II on treatment DM, HT, Dyslipidaemia

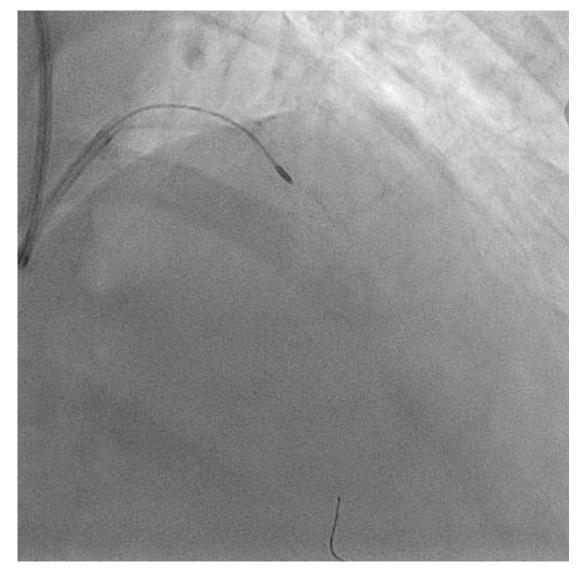


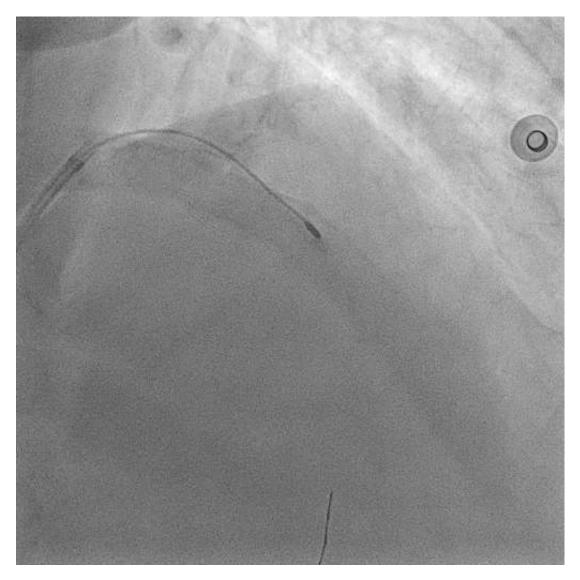
TRI Calcified, tortuous LAD

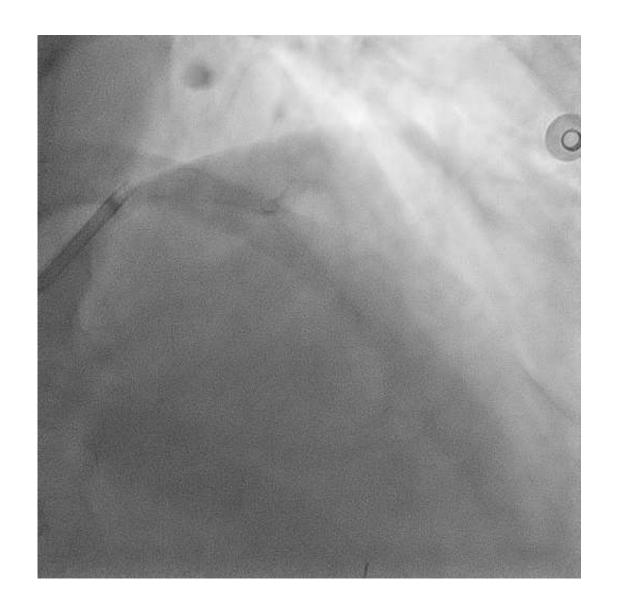


EBU 3.5 6 Fr 1.25 mm Burr Rotafloppy wire

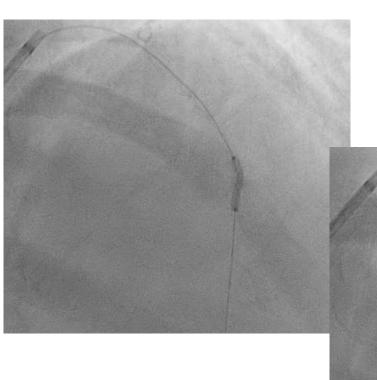
5 runs at 180,000 rpm











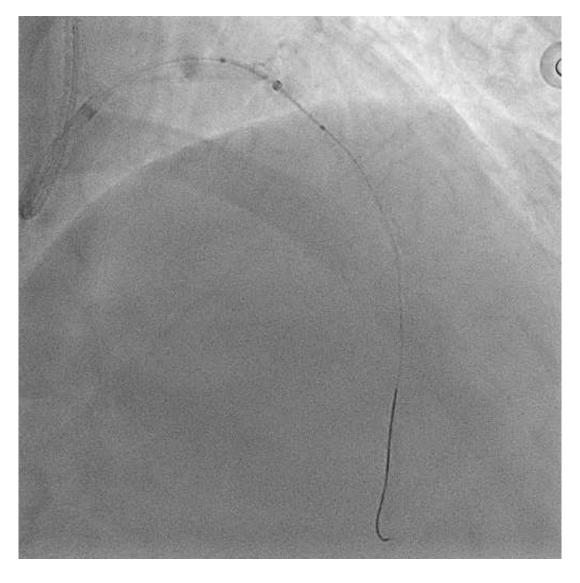
2.5 x 15 mm NC balloon 14 to 18 Atm

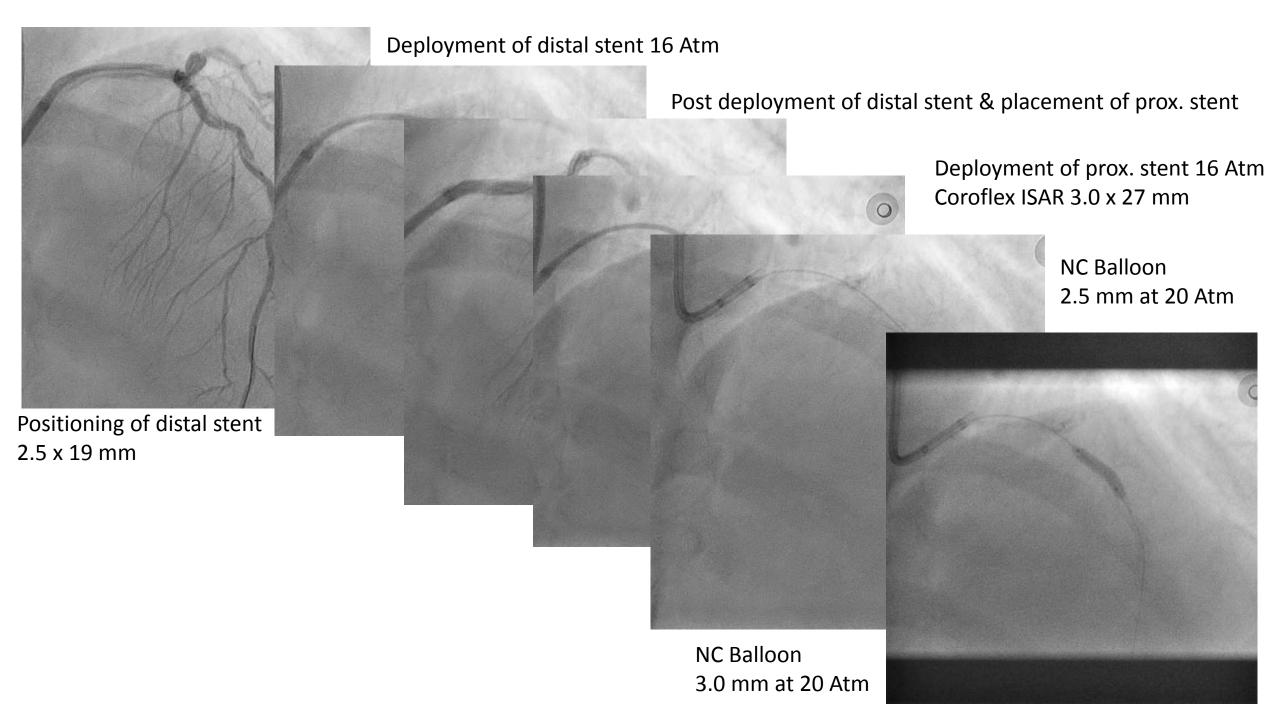


## Runthrough floppy Coroflex ISAR 2.5 x 19 mm

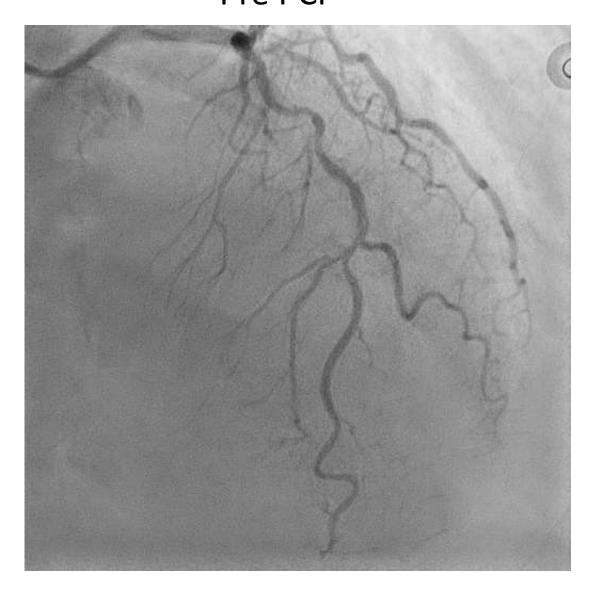


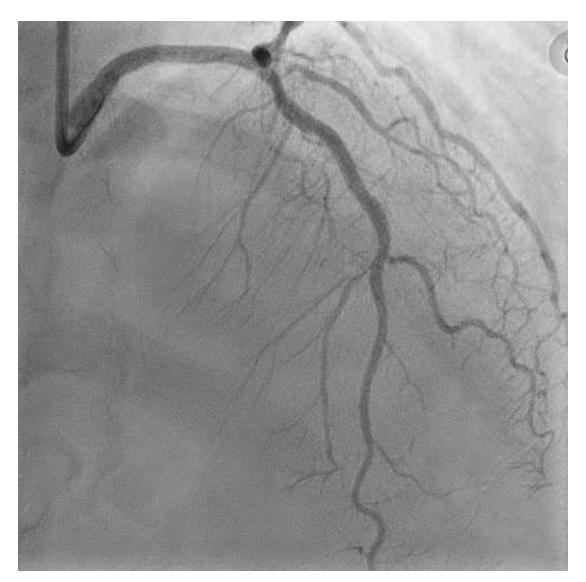
Guideliner 6 Fr



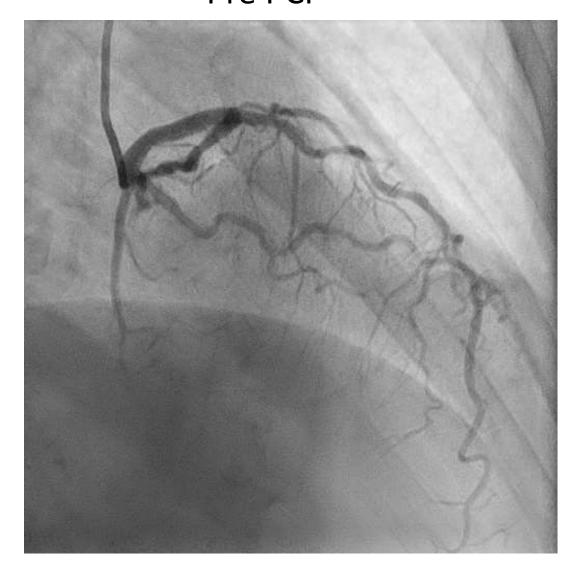


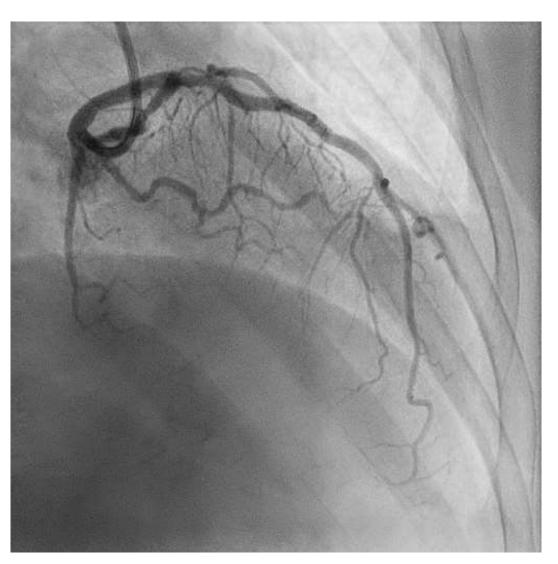
Pre PCI Post PCI



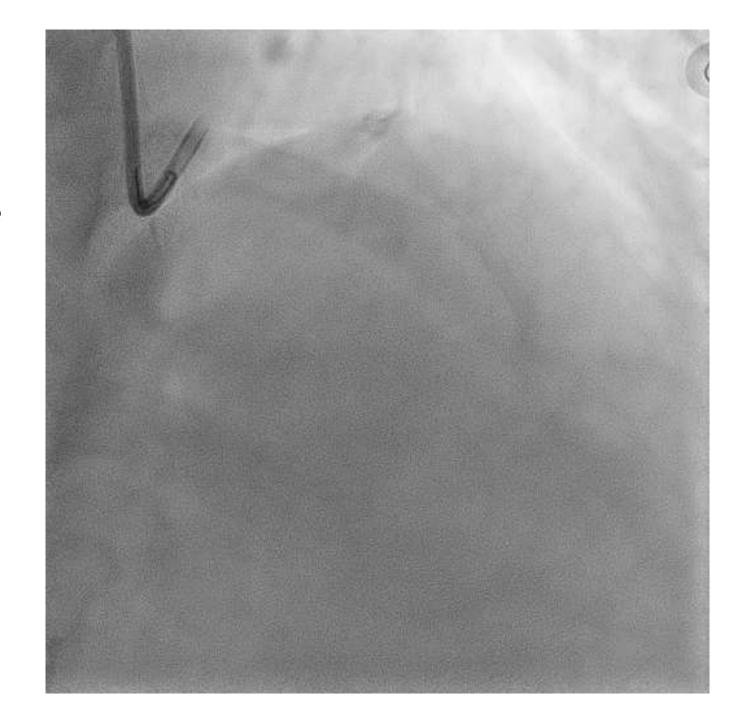


Pre PCI Post PCI



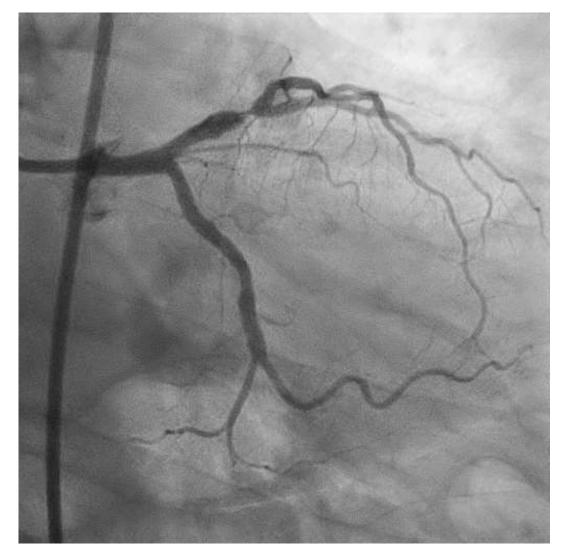


Conformable Still fairly visible



57 yr old man Inferior STEMI 5 days prior with Rescue PCI to RCA Dyslipidaemia, HT

EBU 3.5, 7 Fr LAD/D1 Medina 1,1,1



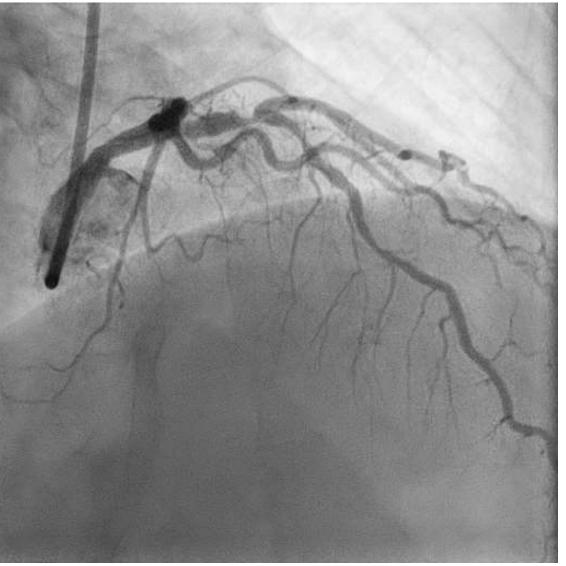


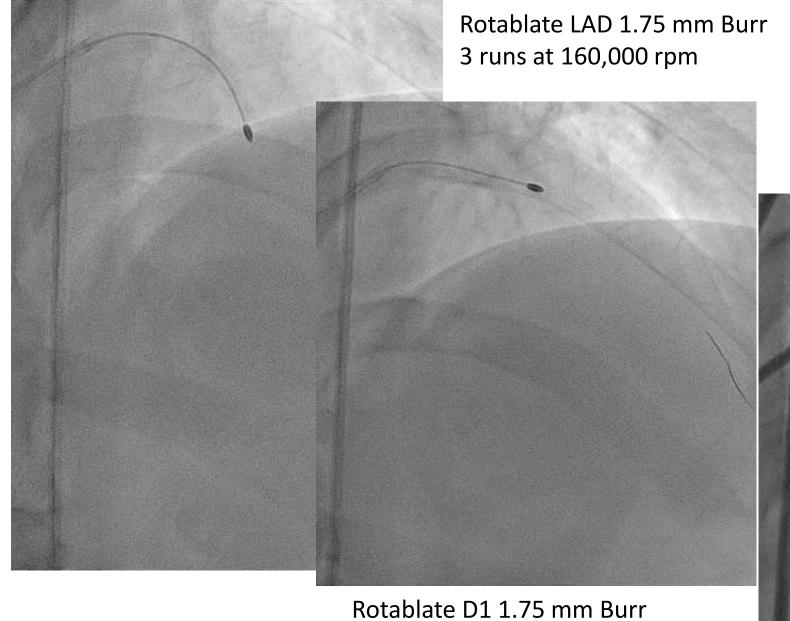
Calcified LAD & Ostial D1 Medina 1,1,1



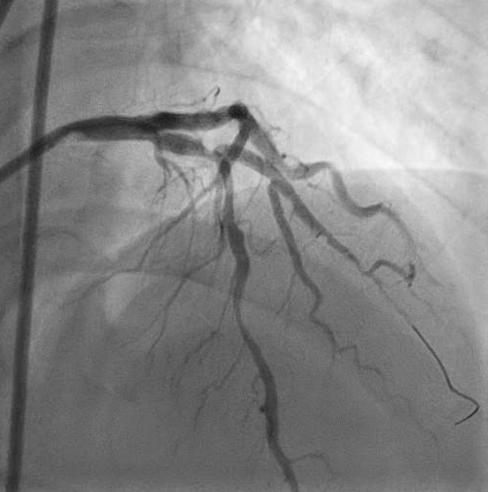
#### Plan for:

rotablation 2 stent strategy – Double Kissing Cullotte

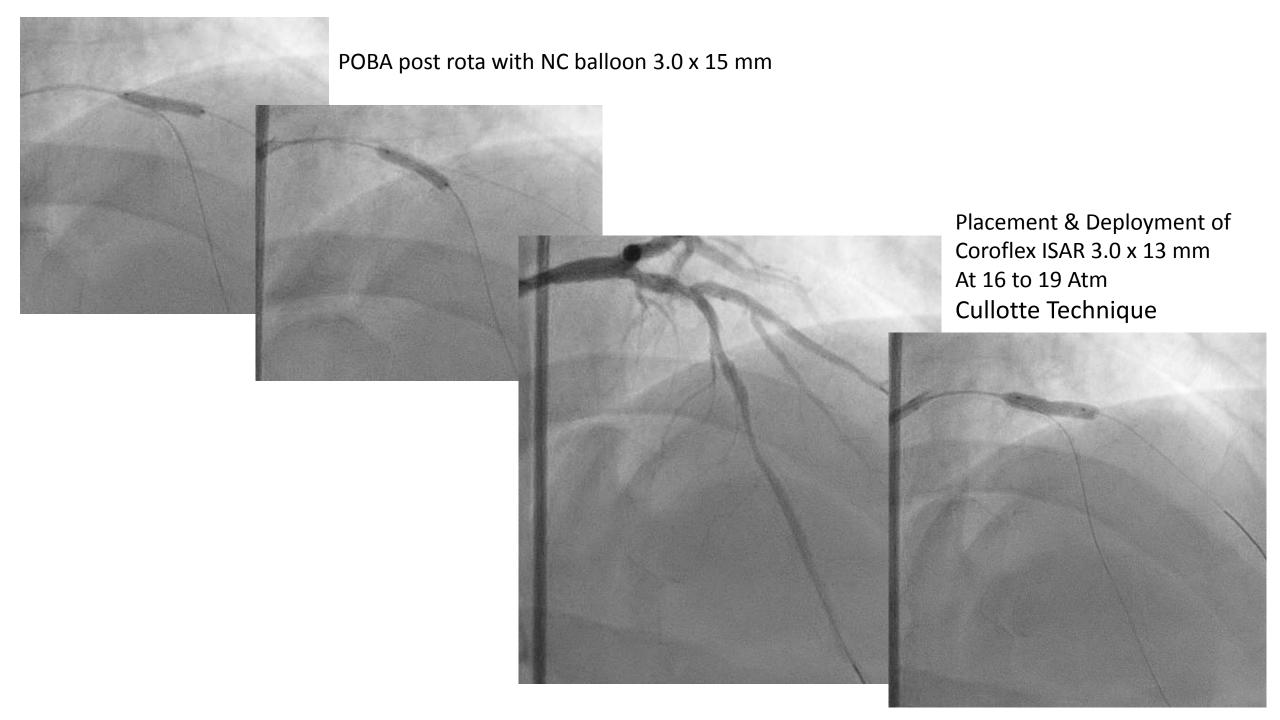




Post Rotablation

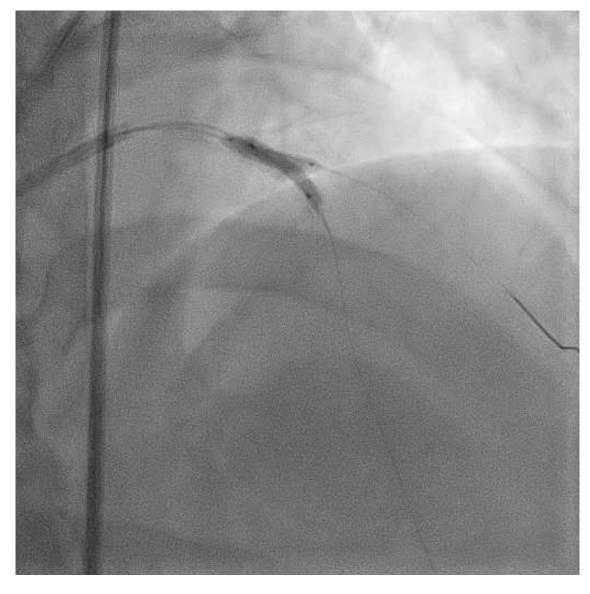


Rotablate D1 1.75 mm Burr 2 runs 160,000 rpm

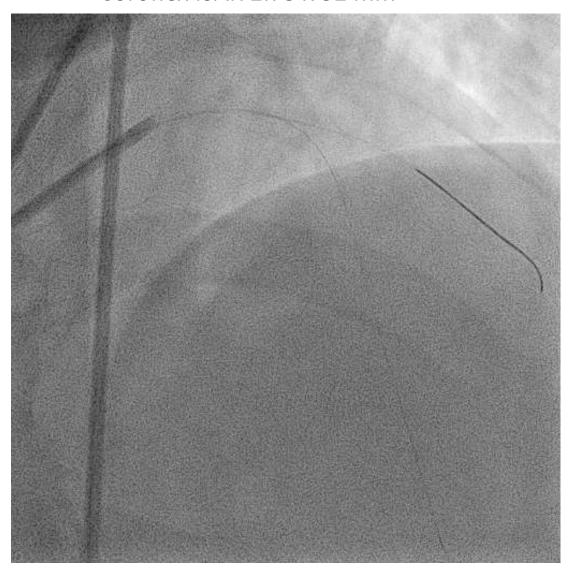


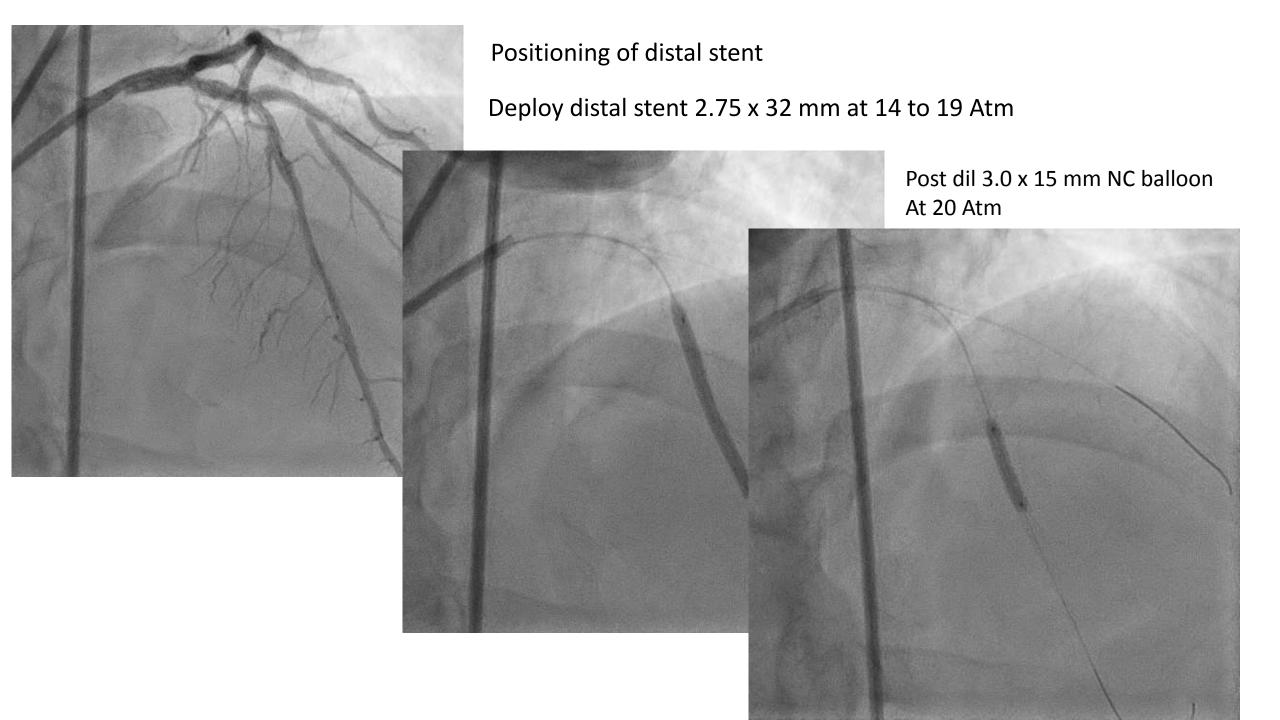
Recross wire thru' stent struts

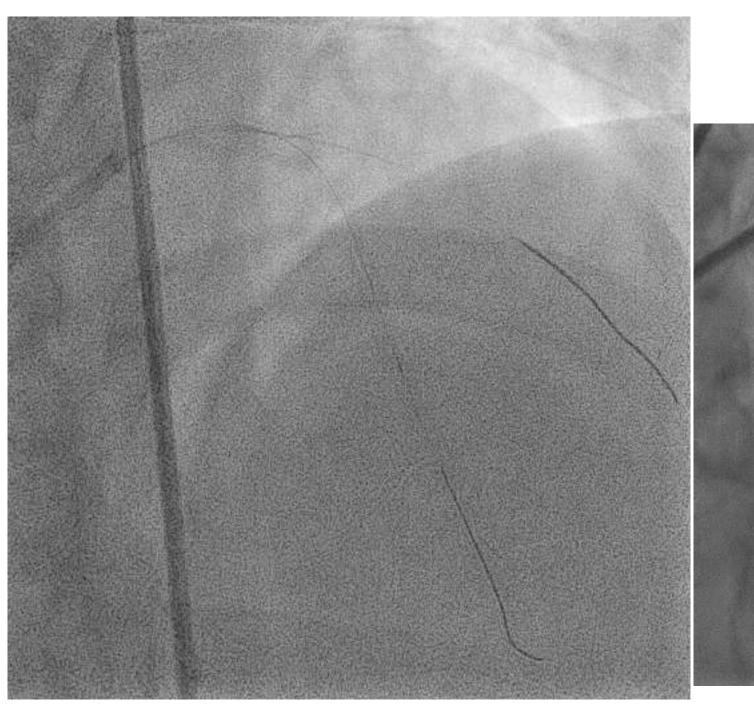
1st Kiss (Double kissing cullotte) LAD – 2.5 mm x 15 mm, D1 - 3.0 mm stent balloon



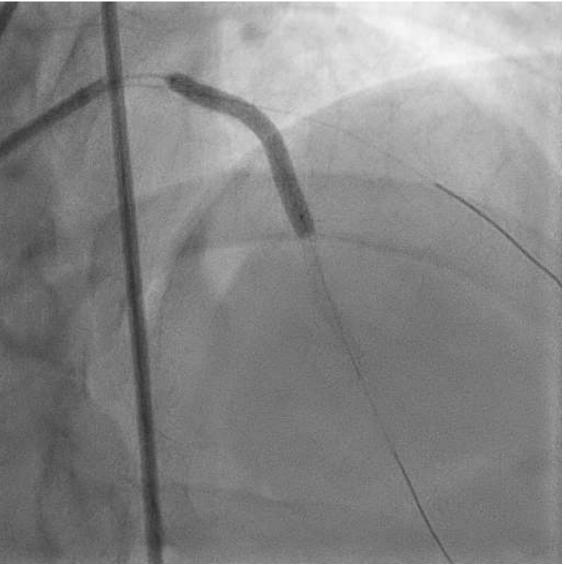
Coroflex ISAR 2.75 x 32 mm





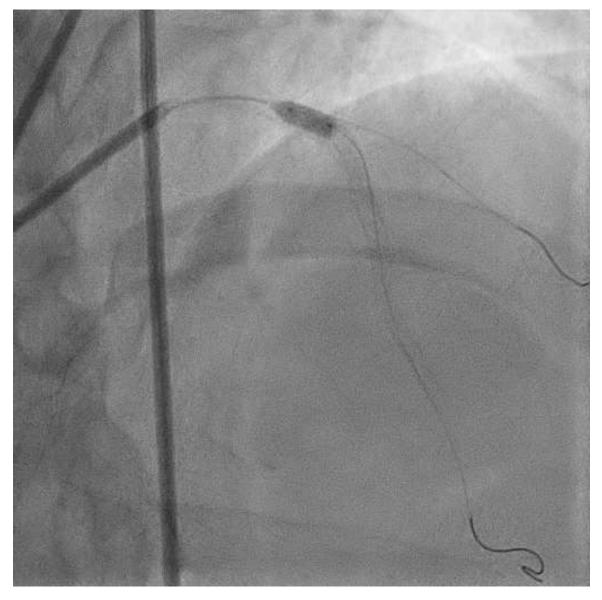


Coroflex ISAR 3.0 x 32 mm Deployed at 16 to 19 Atm

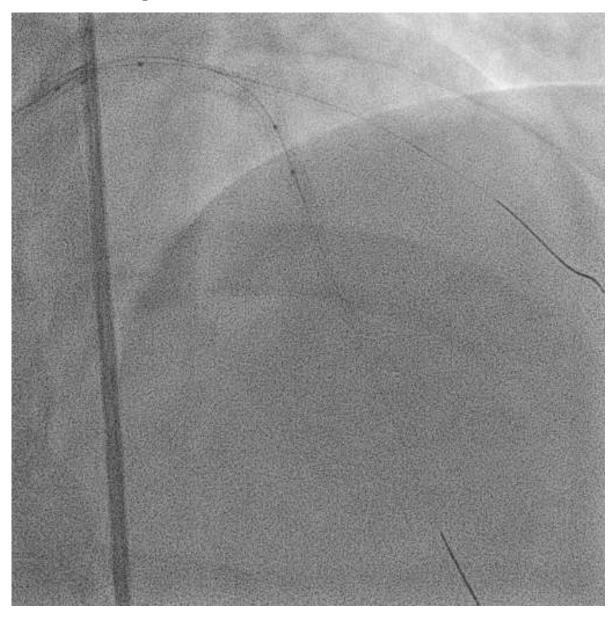




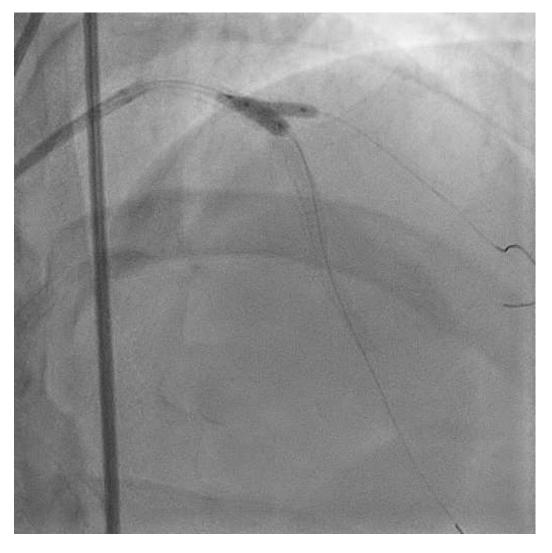
POT Technique LAD – 3.75 x 8 mm at 20 Atm

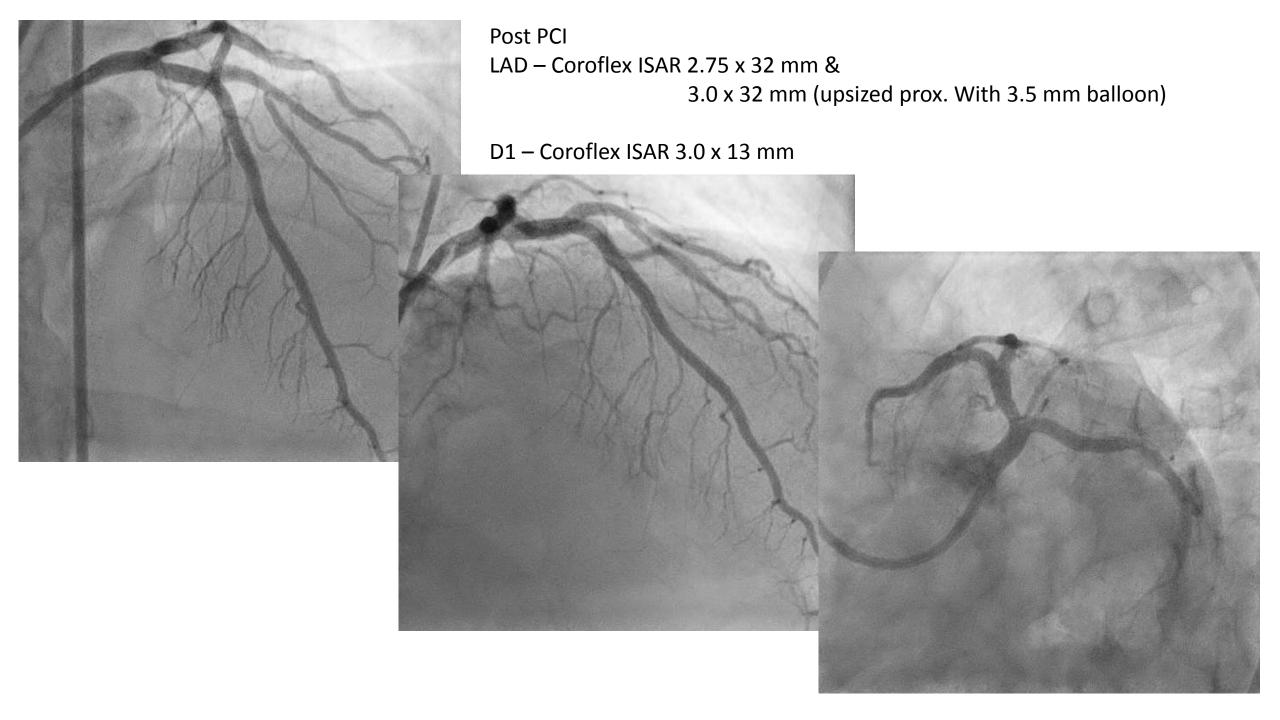


## Crossing into D1 thru' stent struts



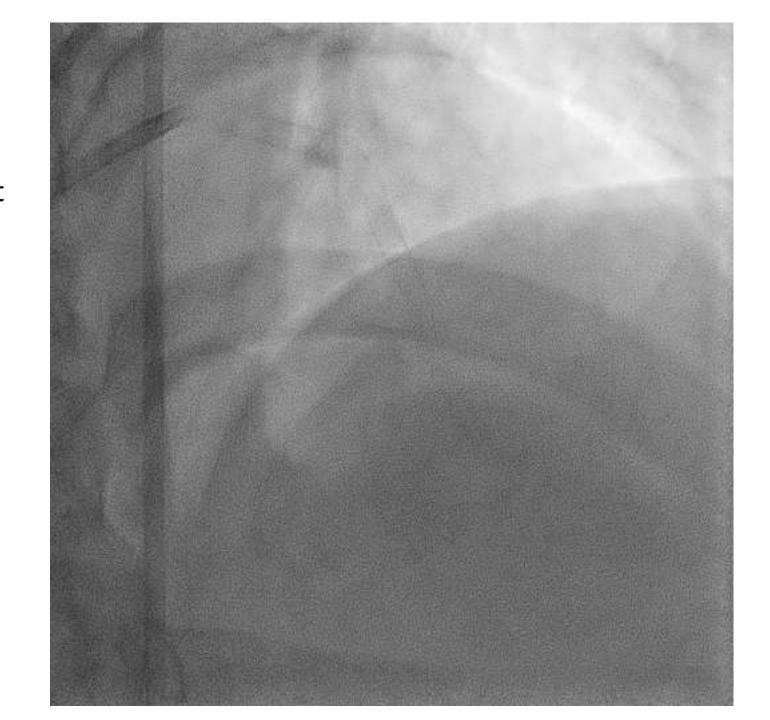
2<sup>nd</sup> kissing cullotte LAD - 3.75 x 8 mm NC balloon at 8 Atm D1 – 2.5 x 15 mm balloon at 8 Atm





Post PCI
Double Kissing Cullotte
Visible struts
Crossed thru' stent strut
Conformable

(For all stents Cell size for side-branch access – 4.3 mm)



#### **PTCA-Catheter platform: SeQuent Neo**

Bare metal stent platform: Coroflex Blue Ultra & Neo ultra-low strut thickness

2.0, 2.25 & 2.5 mm - 50 microns (max. dilatation diameter - 3.0 mm)

2.75 – 4.0 mm – 60 microns (max. dilatation diameter – 4.5 mm)

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## **Polymer-Free** & absorbable

coating

**Matrix Excipent:** 

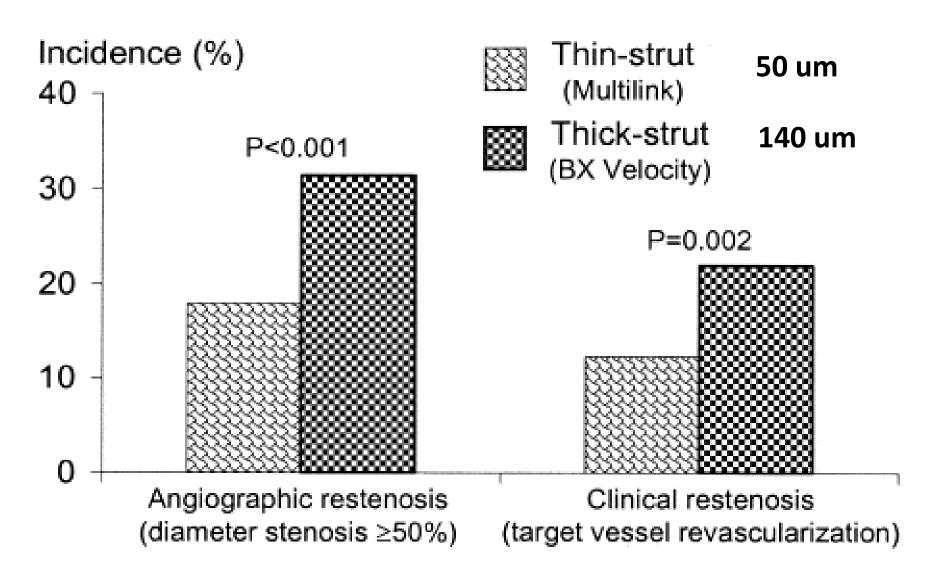
Drug:

**Probucol** 

**Sirolimus** 

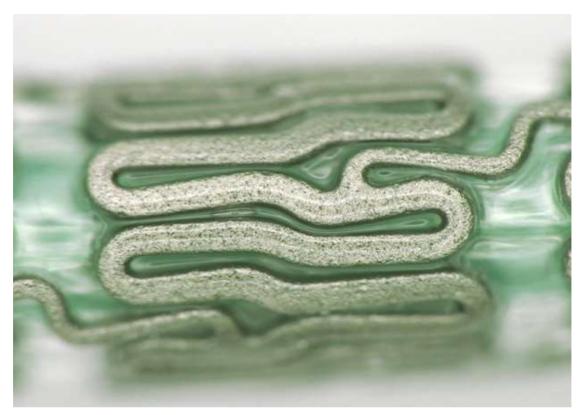
**Coroflex ISAR** IV. Generation DES

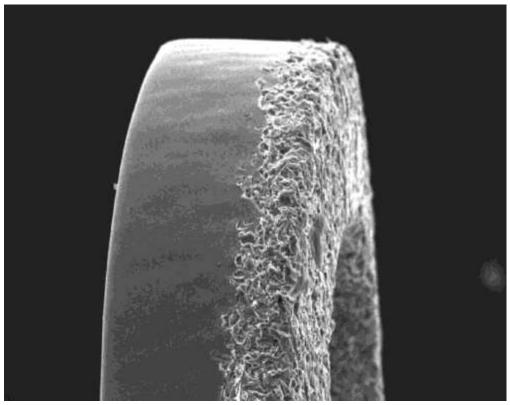
# ISAR STEREO 2



## **Coroflex ISAR: Next Generation Polymer-Free Sirolimus DES**

Coroflex ISAR: Abluminal Coating on Roughened Surface (Microporous Stent Surface Modification)





A defined abluminal surface roughness binds the drug matrix and supports a controlled drug release into the vascular tissue

# Coroflex ISAR: Matrix Coating Technology

## The Matrix Coating Technology

- Covered with a sirolimus containing matrix, which consists in equal shares (1:1) of the drug sirolimus and probucol
- Probucol is needed to bind the drug on the stent and to facilitate a controlled & continuous drug release
- Probucol mimics the function of a polymer by retarding the release of sirolimus over a time period of several weeks
- The drug load is 1.2µg/mm² sirolimus
- The Matrix Coating is applied only on the abluminal surface



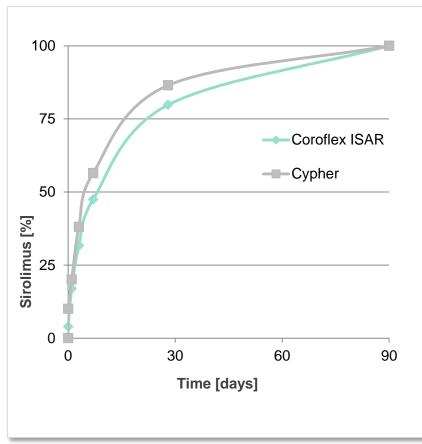
Coroflex ISAR Cobalt Chromium – Abluminal, Polymer-Free Drug Delivery

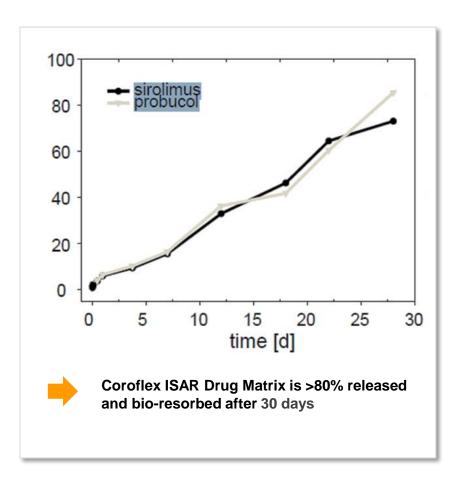
# Coroflex ISAR: Matrix Coating Technology

### Coroflex ISAR Sirolimus Release Kinetics in-vivo

### 100% polymer-free Matrix Coating

- Improved endothelial healing
- Efficacy in drug elution equivalent to Cypher
- Hydrophobic matrix-builder (probucol) extends drug release over time





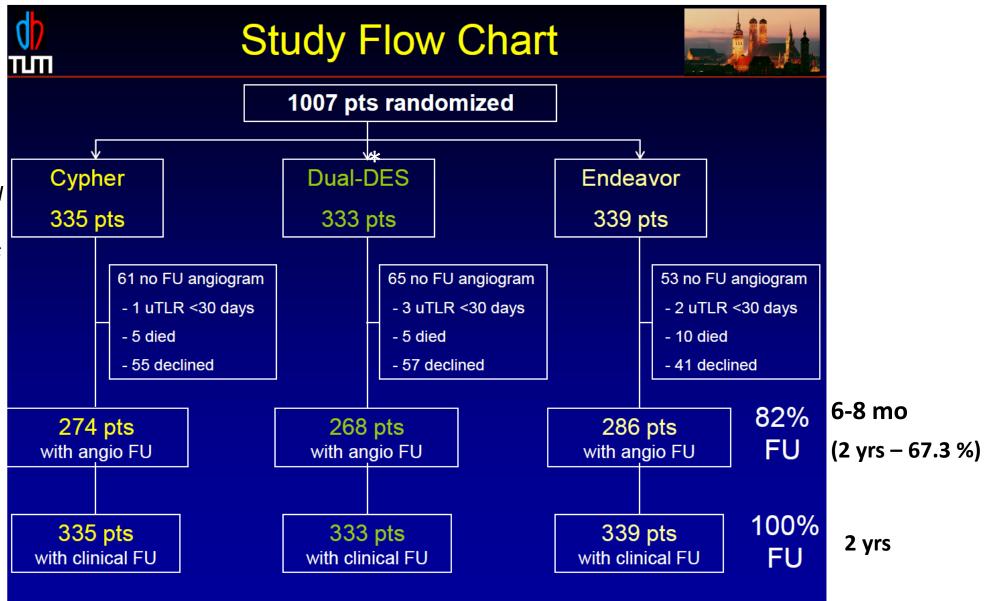
#### **Dual DES – ISAR STENT: Clinical Evaluation ISAR Test 2**

Primary Safety Endpoint At 2 yrs

1. Composite of Death & MI

2. Definite stent thrombosis

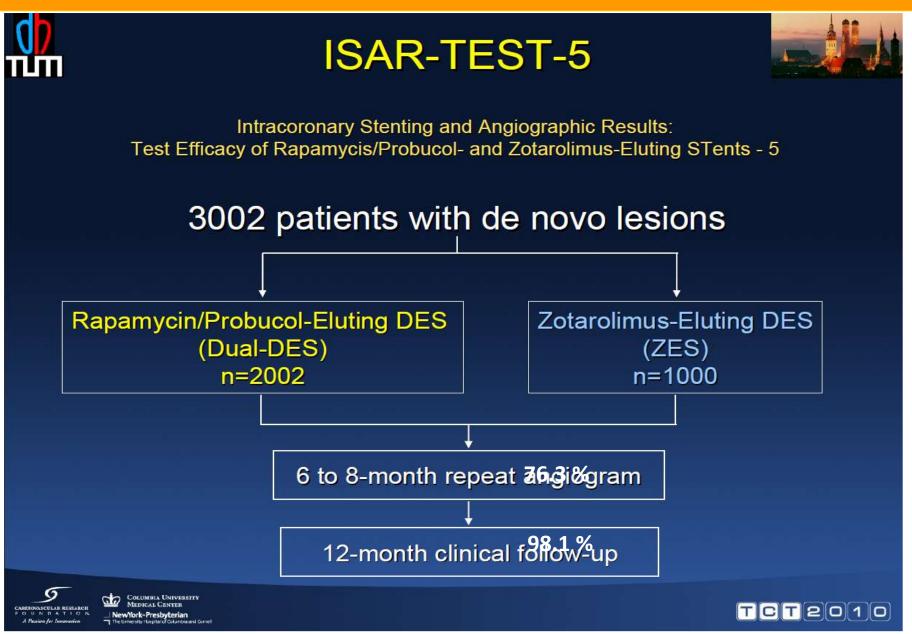
Primary Efficacy Endpoint *TLR at 2 yrs* 



<sup>\*</sup>Dual DES – 87 um stainless steel stent

#### **Dual DES – ISAR STENT: Clinical Evaluation ISAR Test 5**

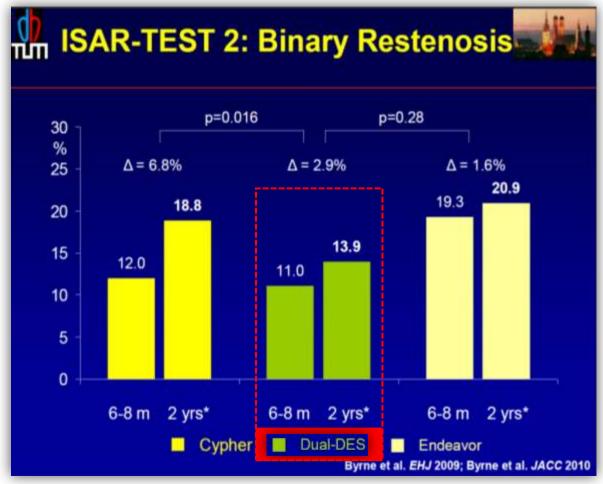
Primary Endpoint composite of Cardiac death TV MI or TLR at 1 yr

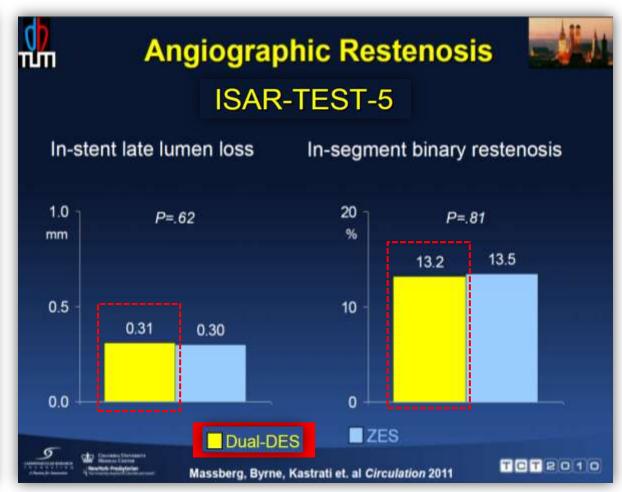


<sup>\*</sup>Dual DES – 87 um stainless steel stent

## Coroflex ISAR: Clinical Evidence

#### Results of ISAR TEST 2 and ISAR TEST 5





Rpt angiogram 6 – 8 mo & 24 mo

Rpt angiogram 6 – 8 mo & 12 mo

Clinical proven concept with more than 4,000 patients documented in the ISAR Test 2 and 5 trials. Efficacy equivalent to Cypher / Endeavor Resolute Integrity

## Coroflex ISAR: Benefits

The offer...

NO Polymer Complete Absorption

Strut Thickness of only 50/60 µm

Lowest Crossing Profile 0.031" - 0.035"

**Optimized Stent Design** 

Full Stent Portfolio from 2.0 to 4.0 mm

The benefits

. . .

Low Rate of Stent Thrombosis

Less Trauma
Fast Endothelialization

**Excellent Crossability** 

**Highest Flexibility** 

Ideal for all lesion types from SVD towards LM