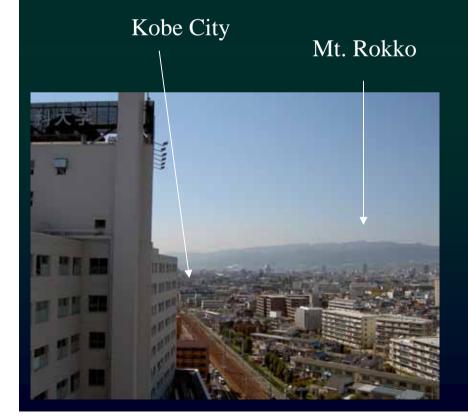
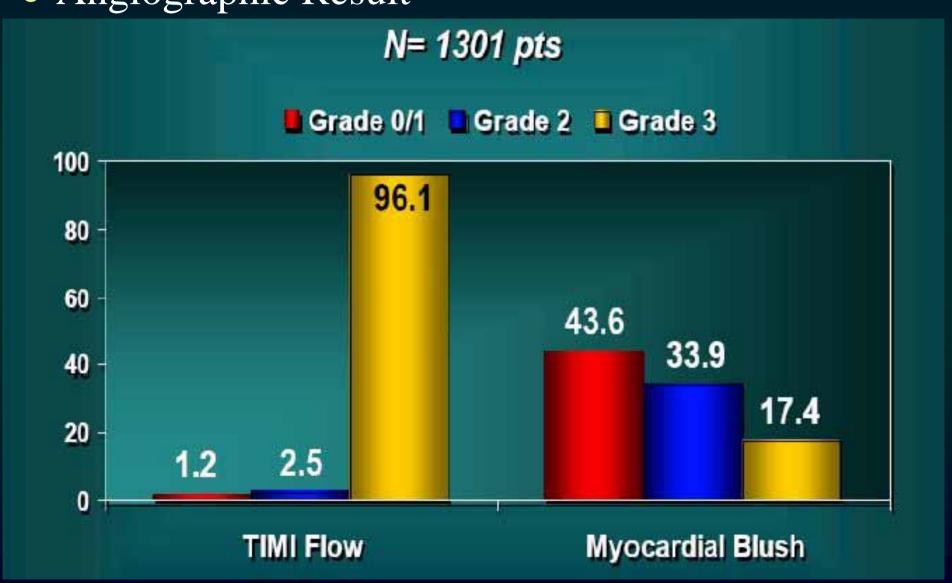
IVUS Guide PCI at Acute Coronary Syndrome



Hyogo College of Medicine Department of Internal Medicine, Division of coronary heart disease Motomaru Masutani MD, PhD

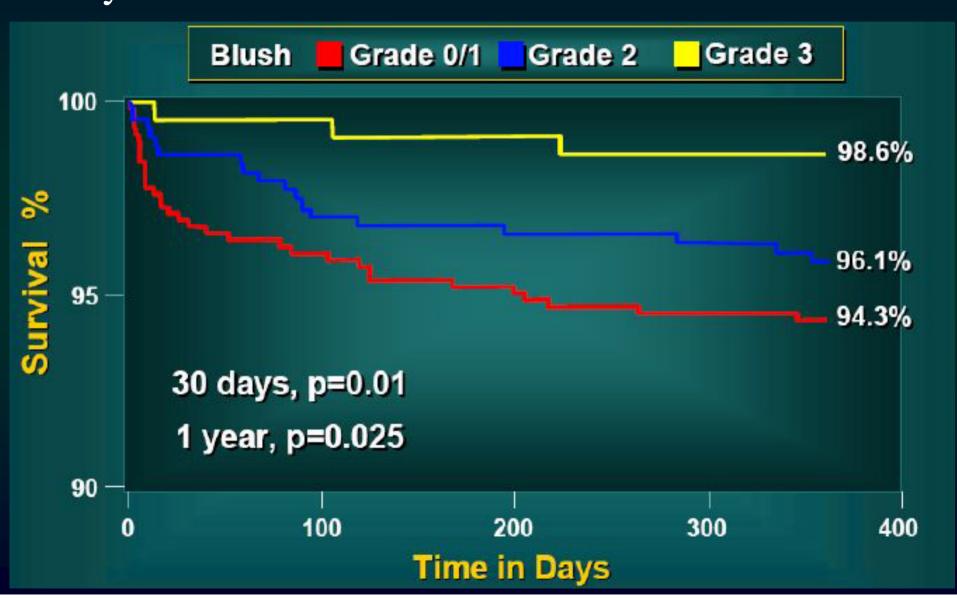
CADILLAC

Angiographic Result



CADILLAC

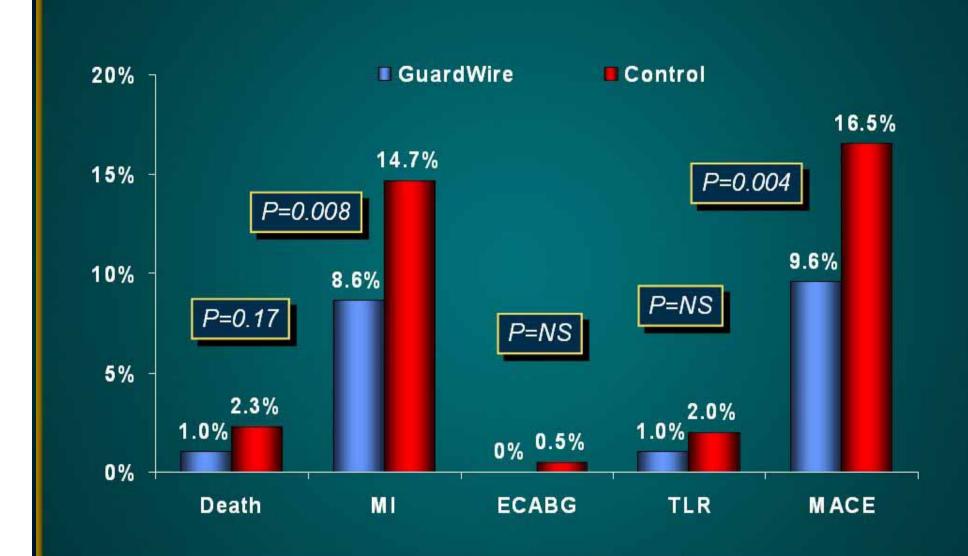
• 1 year Survival

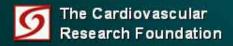


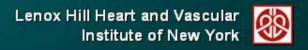
How to reperfuse better?

• Use Distal protection!

SAFER: 30 Day MACE (n=801)





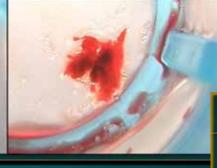


ACS = SVG



PercuSurge **Distal Protection** in AMI







Liserrood-Hilliff-heart servic/Wesseulls Institute of NewYork

PercuSurge Aspirates from SVGs

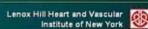
The SAFE study - 103 SVGs (105 Isns) stented with PercuSurge distal protection at 10 sites; particles retrieved in 91%. Histology: fibrin & necrotic core - 100%; foam cells - 80.2%; cholesterol clefts - 28.5%





Grube et al AJC 2002;89:941-5

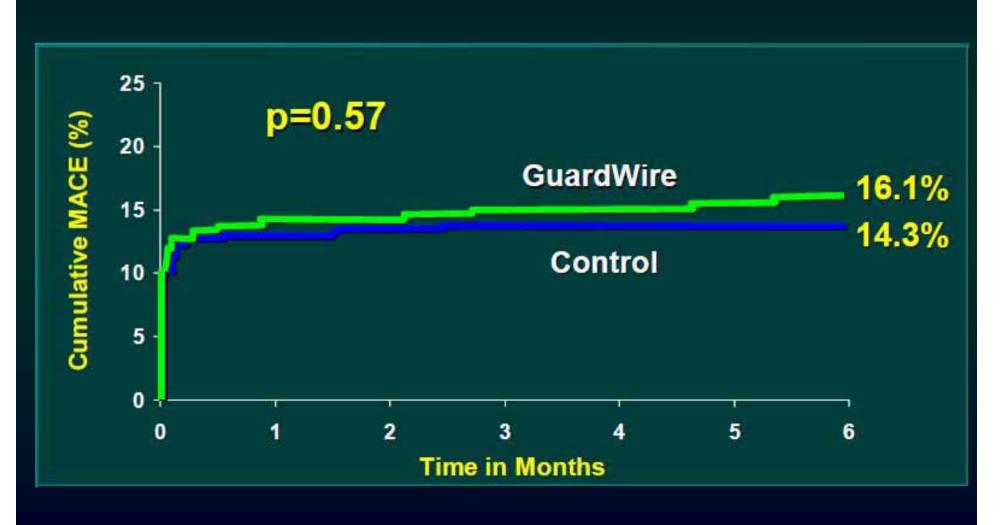




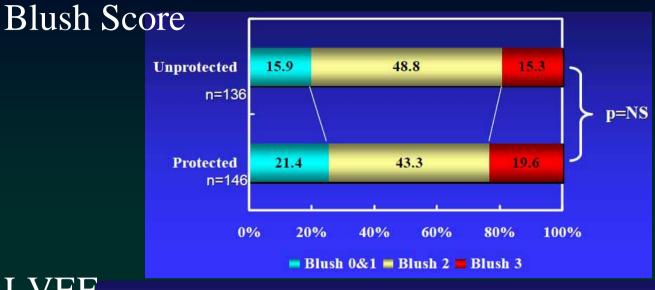


EMERALD

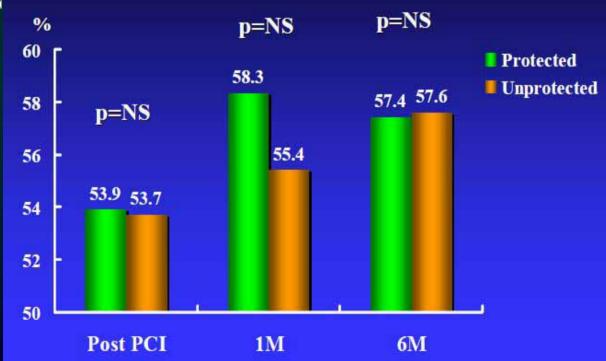
• 6 month MACE



ASPARAGUS







Distal protection for AMI?

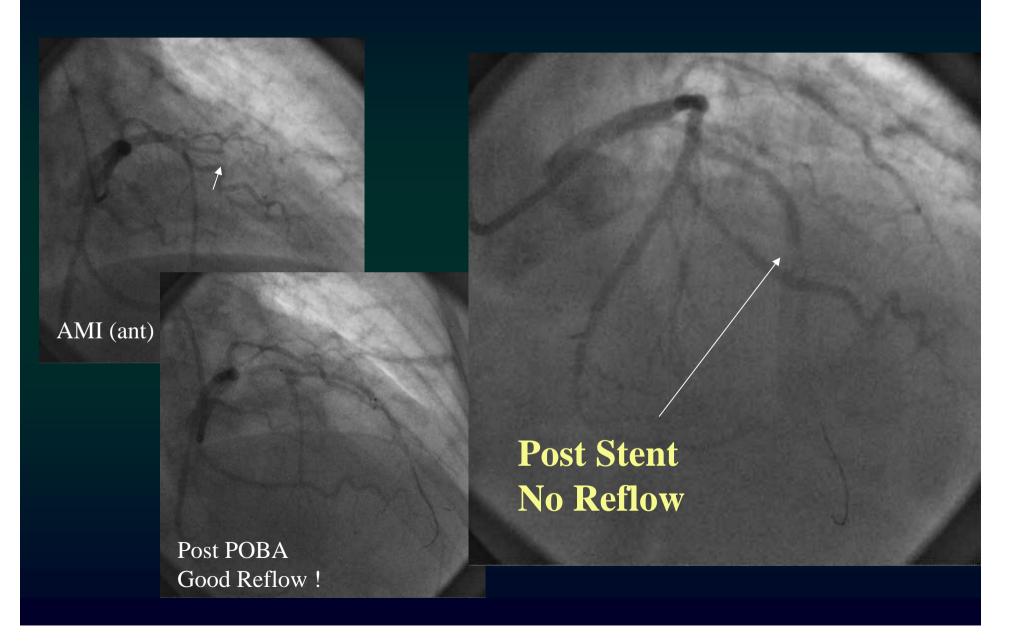


"...distal embolic protection with this device did not result in improved microvascular flow or function..."

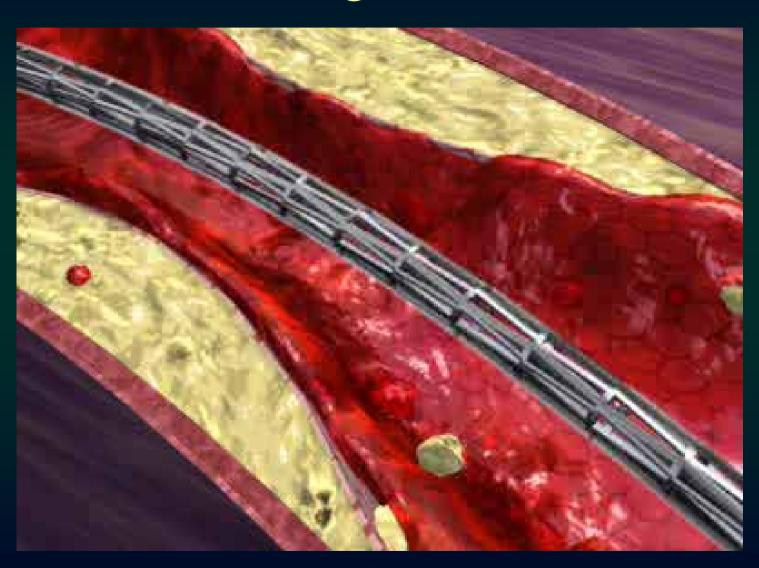
G. Stone

Should we throw away our distal protection devices in AMI patients treated with primary PCI?

Exist No Reflow Case

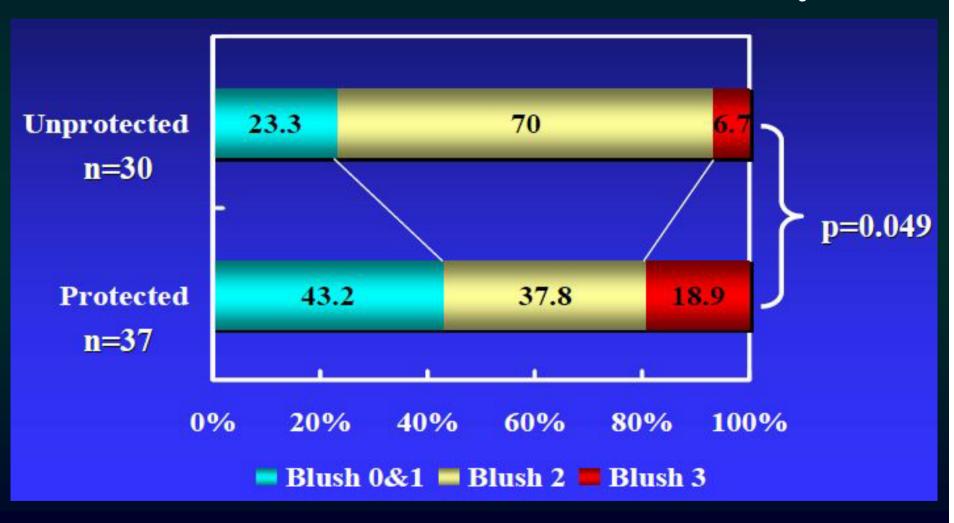


Stenting for ACS



Distal protection Use or not

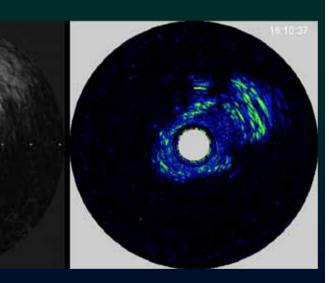
• ASPARAGUS Result RCA Proximal only



Prevention of Slow/No reflow

- Full time Distal Protedction
 - Negative Data
 - EMERALD
 - ASPARAGUS
- Select High Risk Case
 - IVUS
 - Histology by IVUS
 - VH
 - IB-IVUS

IB-IVUS



Calcium or Attenuation Plaque?

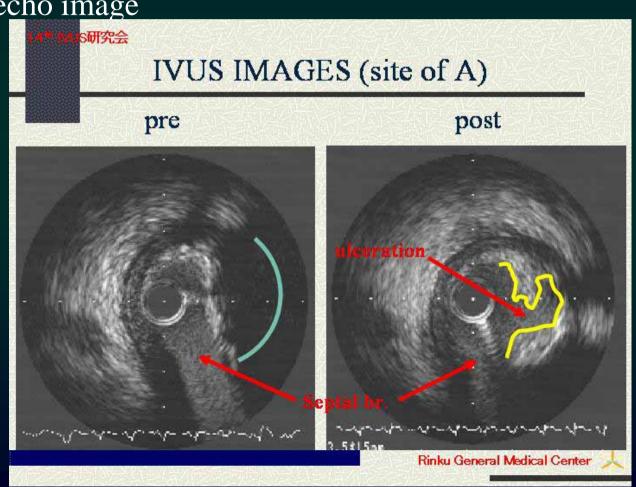
Lipid and micro Calcium

IVUS at ACS plaque

- Pre PCI
 - Attenuation plaque

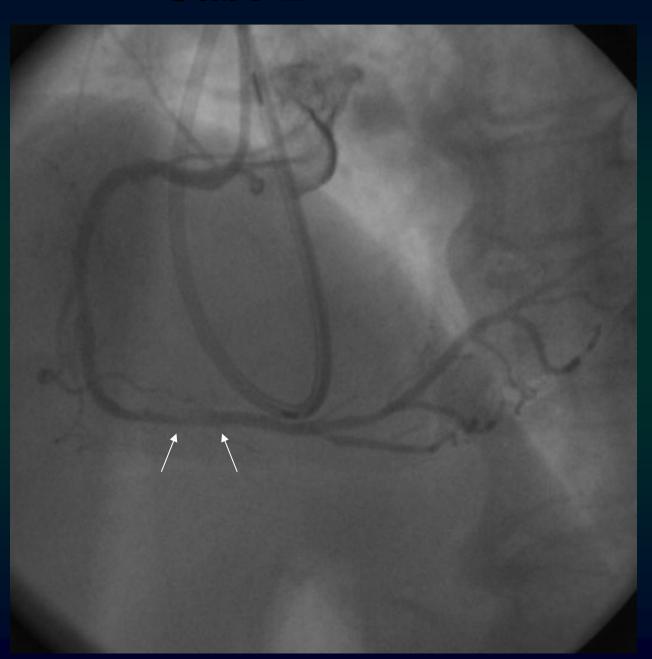
- Superficial high echo image

- Post POBA
 - Slow flow (+)



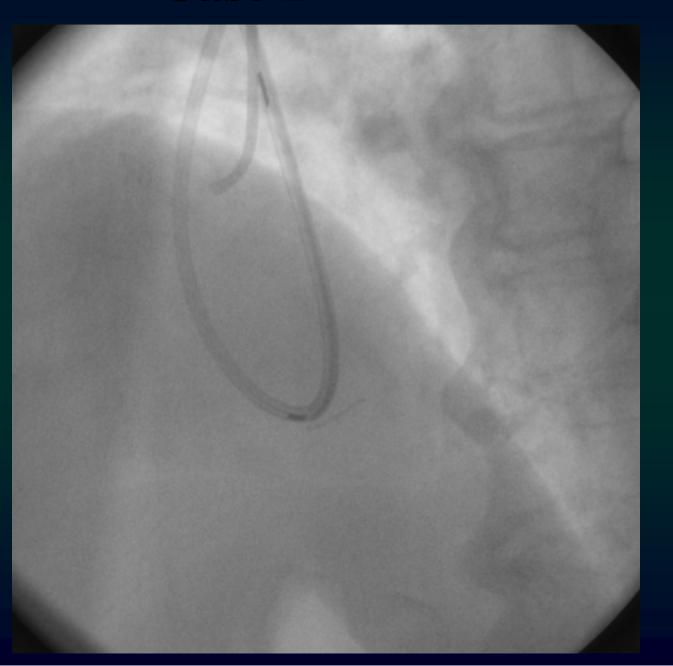
Case 1

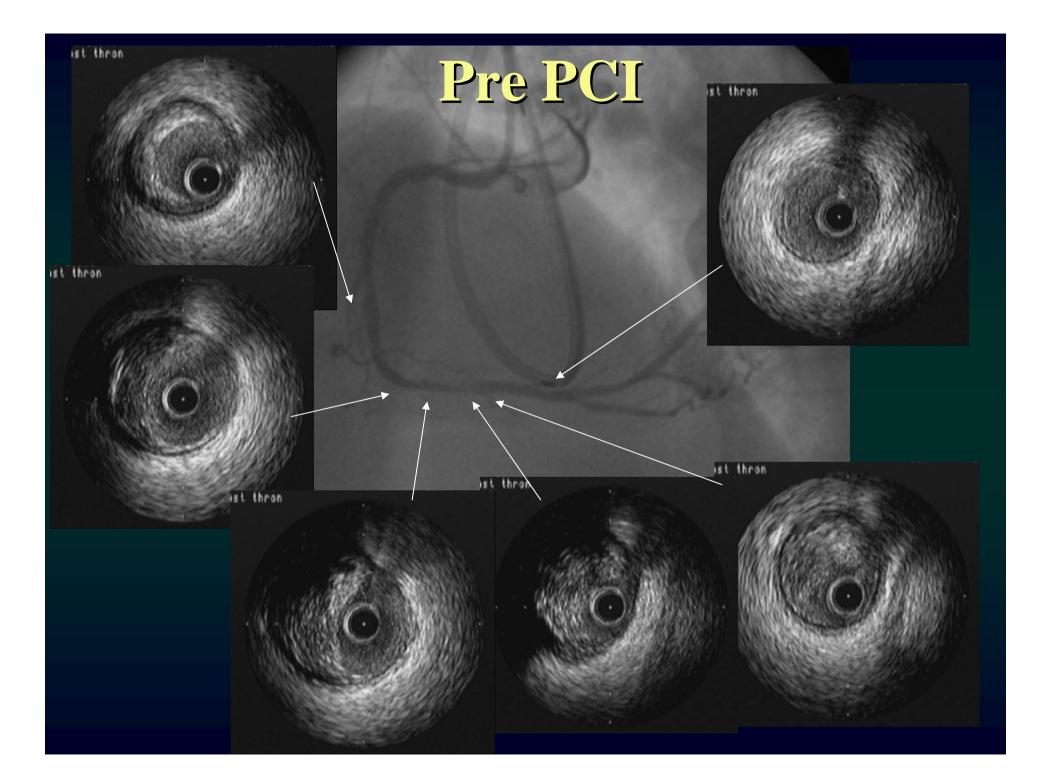
- 75y/o Female
- AMI (inf)



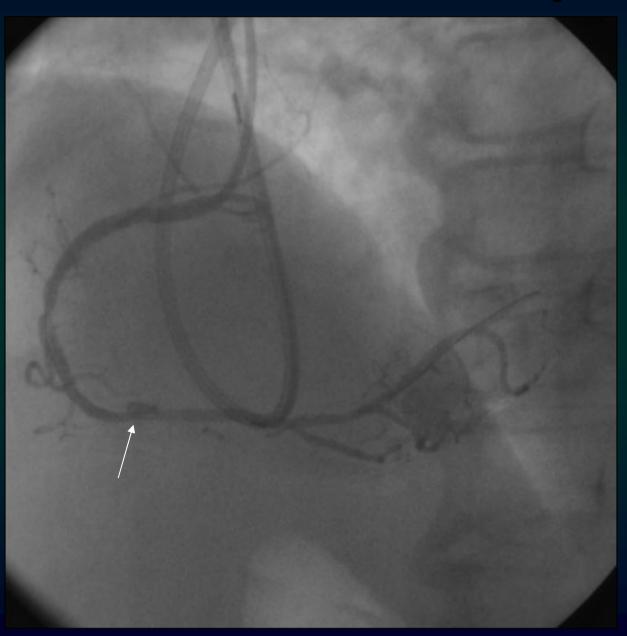
Case 1

- 75y/o Female
- AMI (inf)

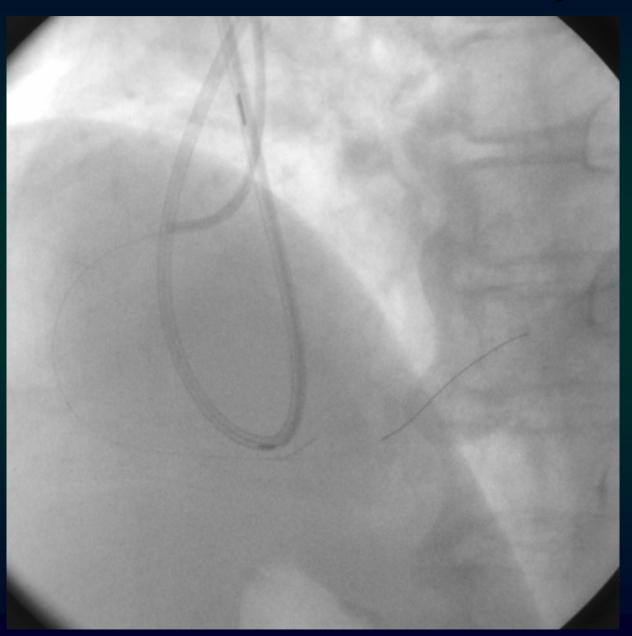




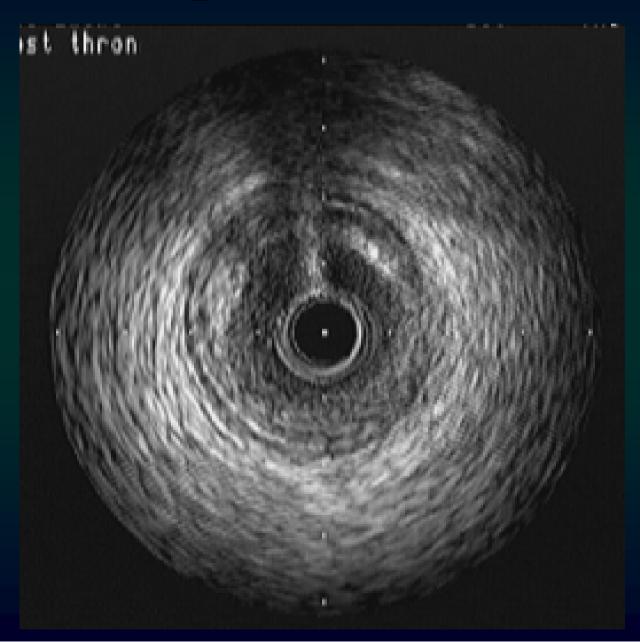
Post Thrombectomy

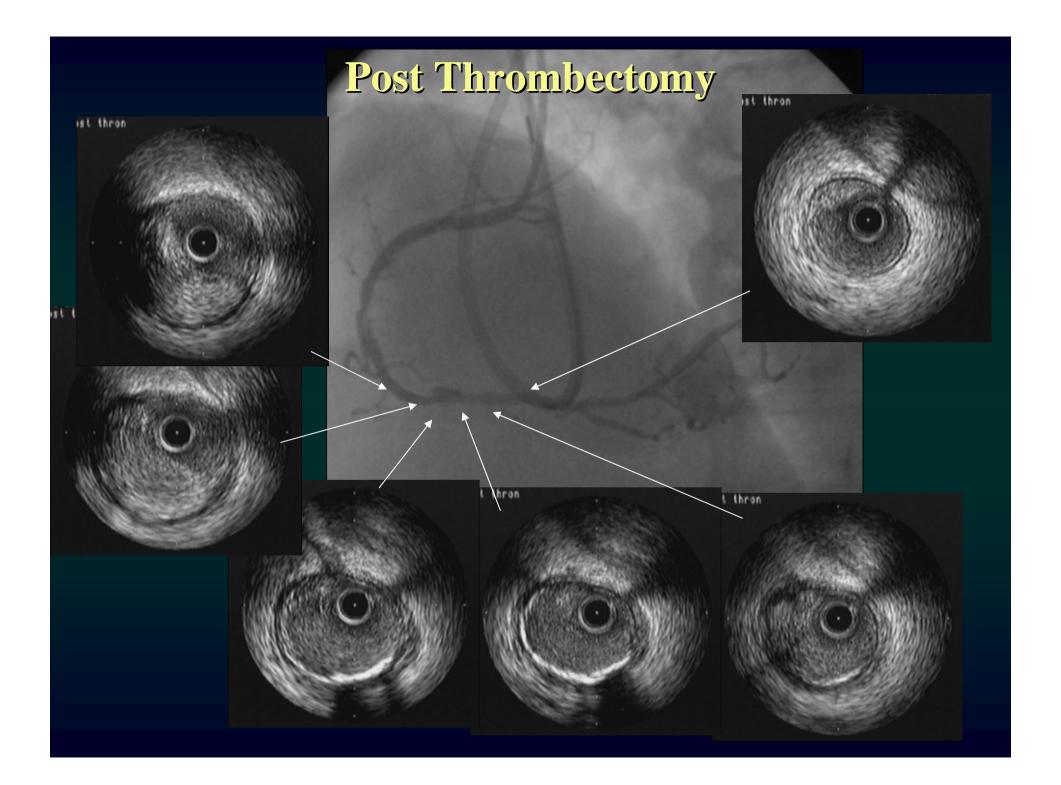


Post Thrombectomy

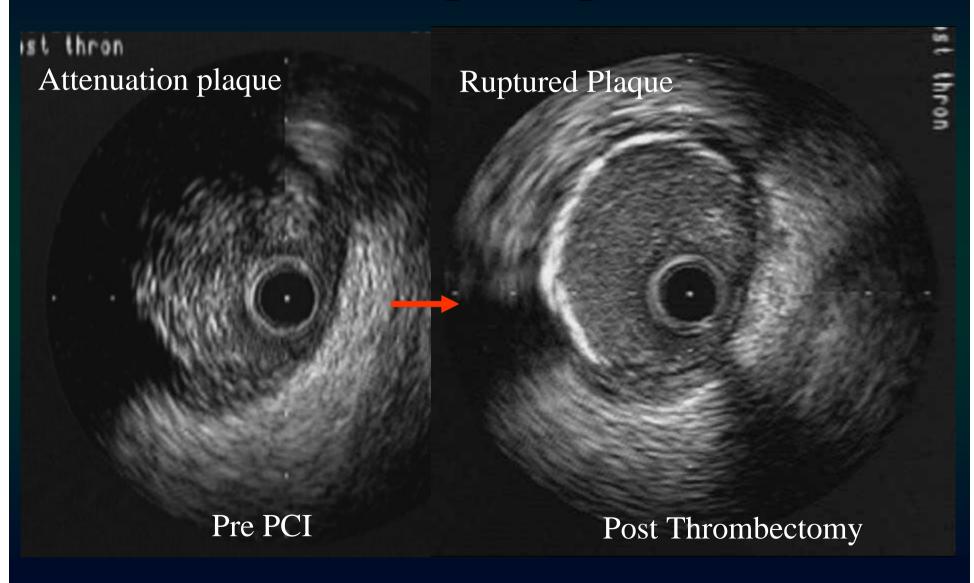


IVUS at post thrombectomy





IVUS pre to post

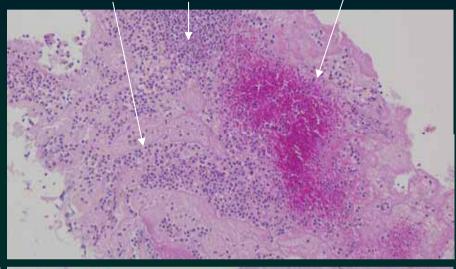


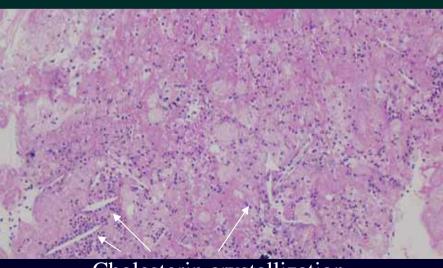
Debris

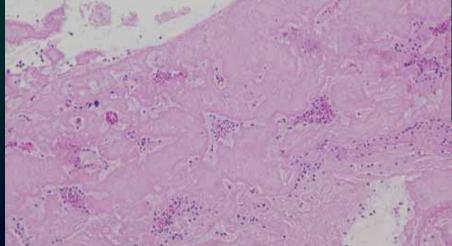


Red cell thrombus

collections of inflammatory cells







Cholesterin crystallization

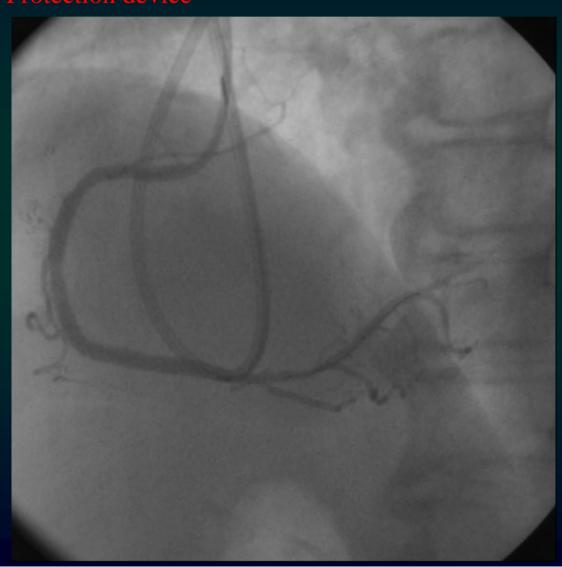
Platelet thrombus

What procedure

- This attenuation plaque was removed completely
- Our procedure
 - Direct Stenting without distal protection

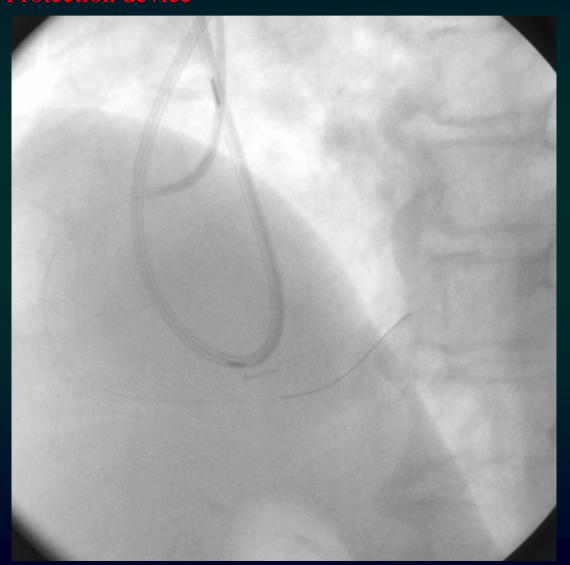
Final CAG

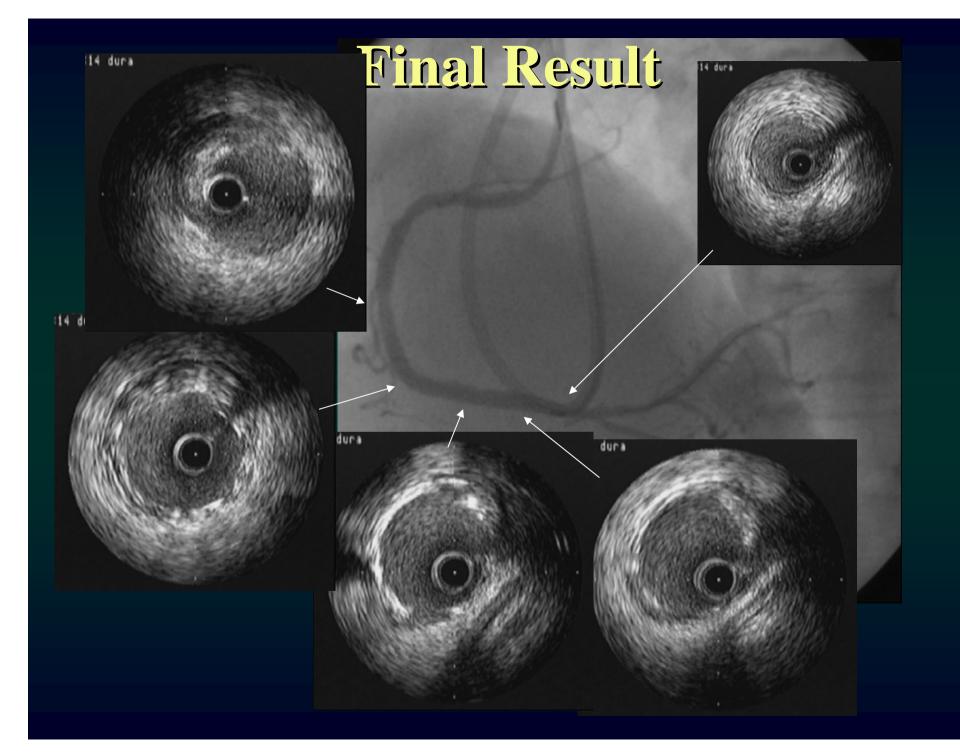
- TSUNAMI 3.5 x 30mm 14atm
- Duraflex 4.0 x 15mm 12atm
- Without Distal Protection device



Final CAG

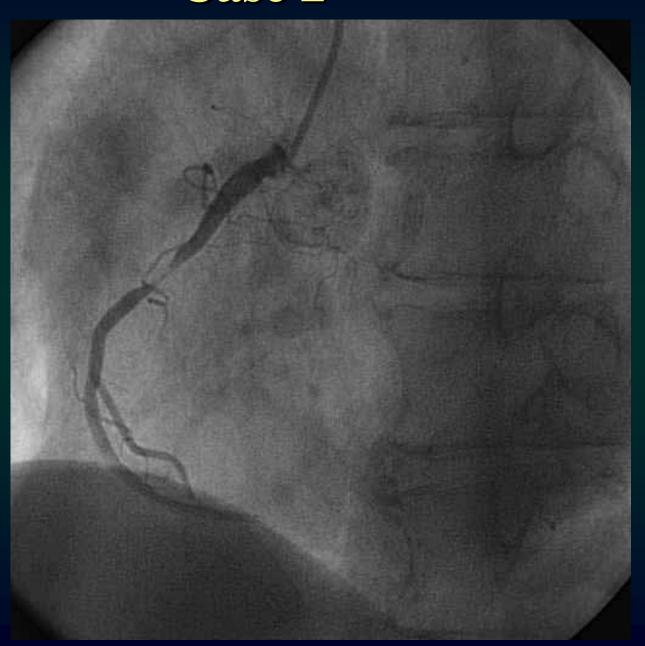
- TSUNAMI 3.5 x 30mm 14atm
- Duraflex 4.0 x 15mm 12atm
- Without Distal Protection device





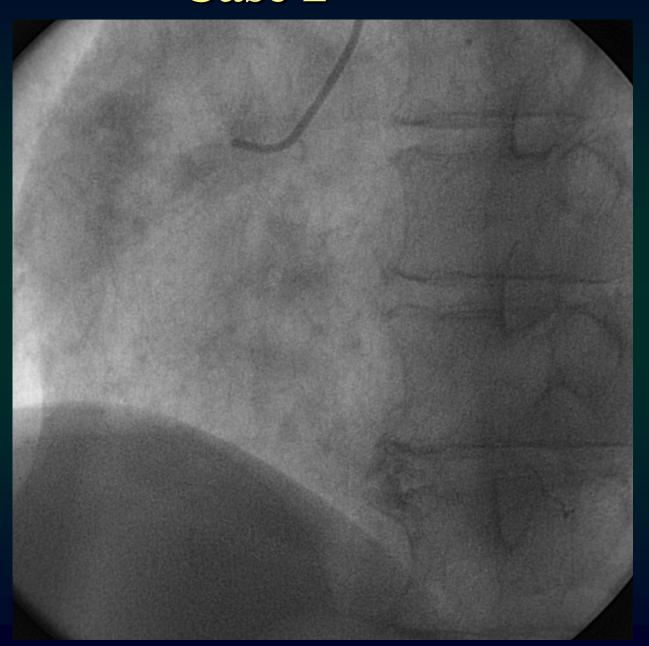
Case 2

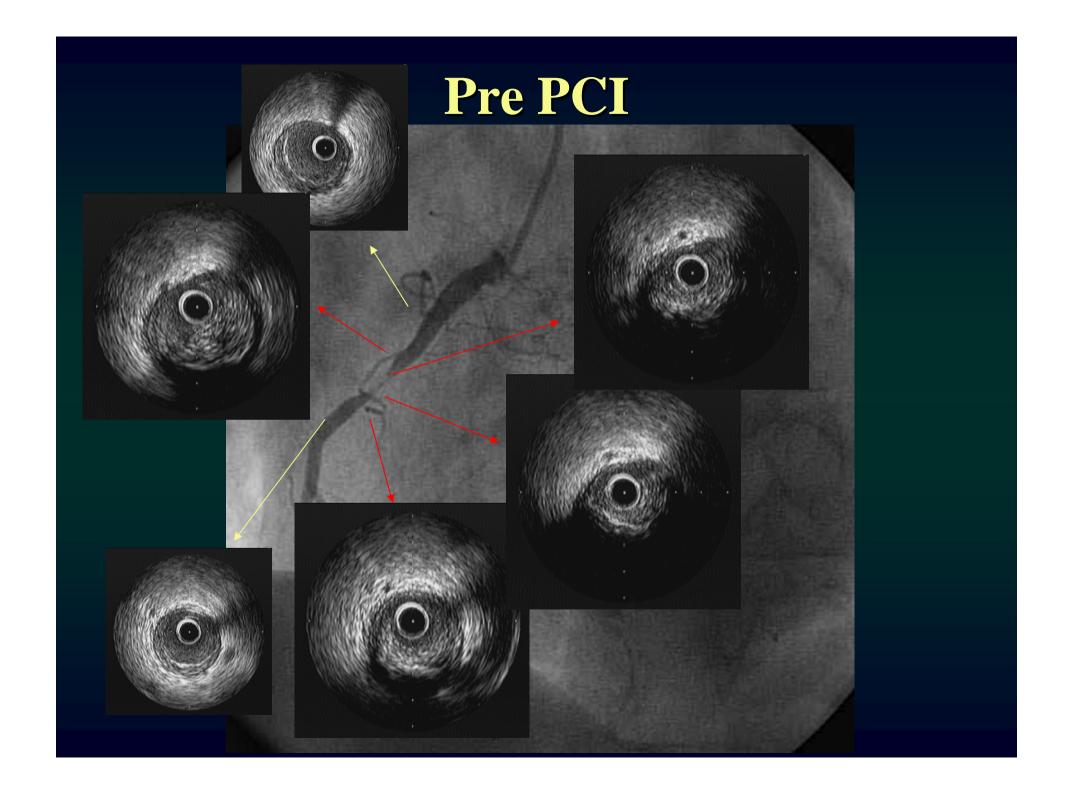
- 79 y/o male
- AMI (inf)



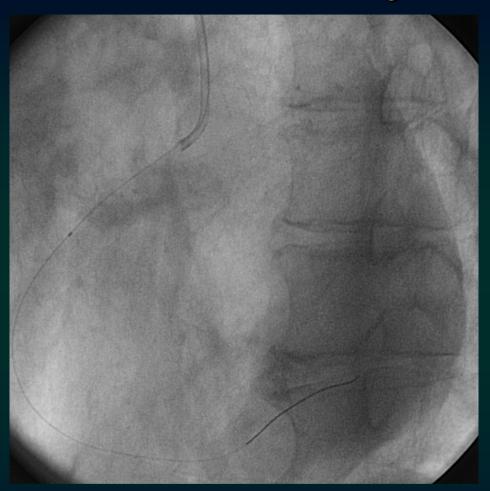
Case 2

- 79 y/o male
- AMI (inf)





Thrombectomy



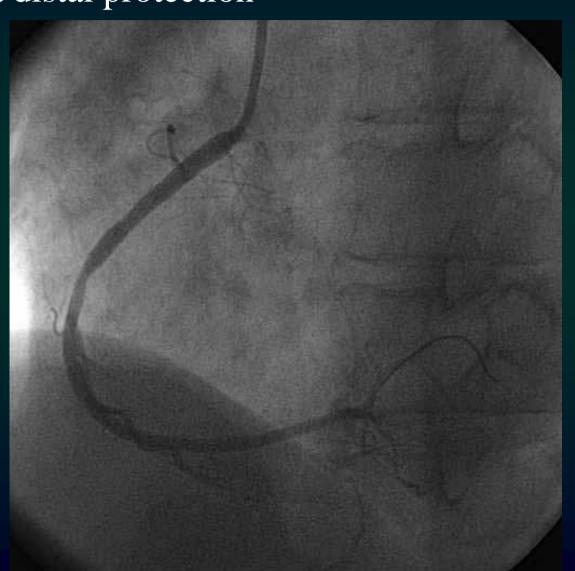
- There wasn't Deviris!
- IVUS image was no change post thrombectomy

What procedure

- This plaque was not fresh thrombus?
- Our procedure
 - -POBA and Stenting without distal protection

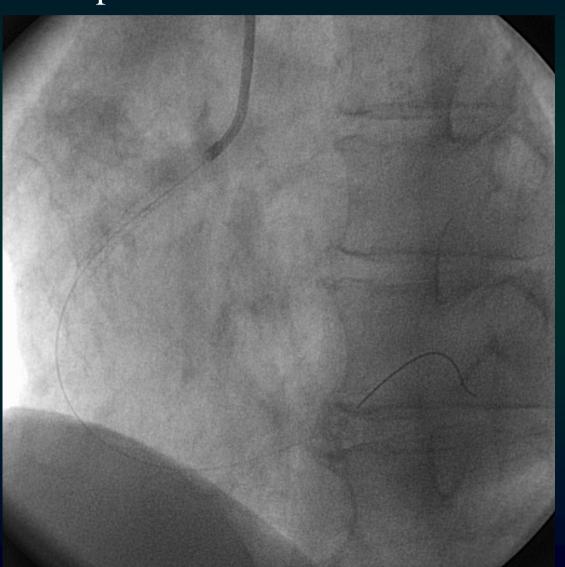
Final CAG

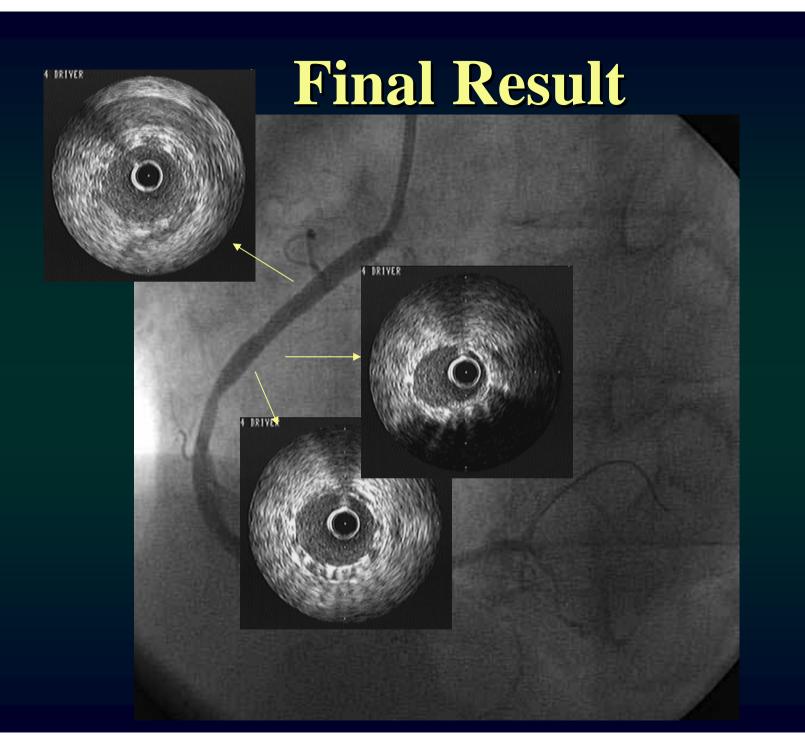
- Driver 3.5-24mm
- Without distal protection



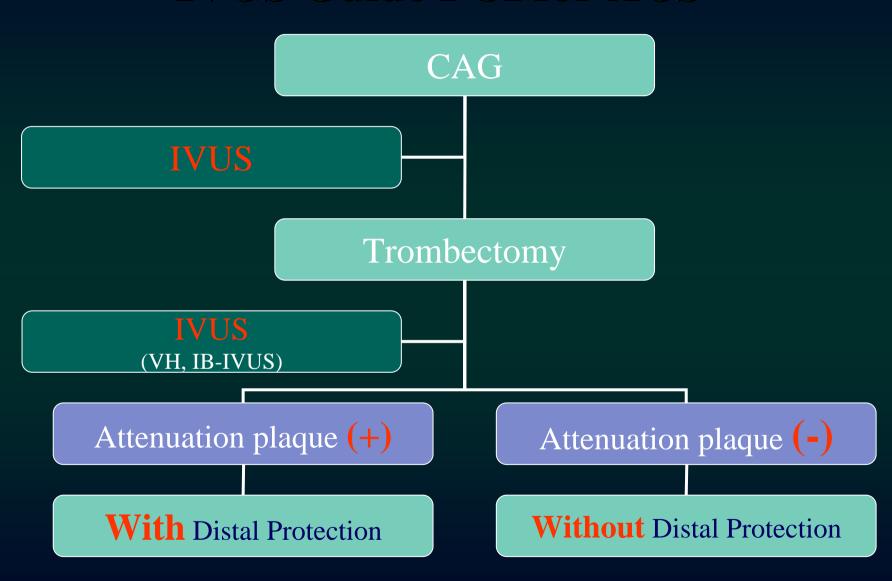
Final CAG

- Driver 3.5-24mm
- Without distal protection





IVUS Guide PCI for ACS



IVUS Guide PCI for ACS Study

- Now enrollment, analysis
- Report at next this summit

IVUS Guide PCI





- Safty, Easily
- No Complication
- No Slow/No Reflow
- Say Yes!