

LMN + TVD PCI before TAVI



Hong Kong Society of
Transcatheter
Endocardiovascular Therapeutics

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TCTAP 2012



Mr. KS TSUI

- M/ 81
- ADL_i, walks with stick
- non-smoker
- PMH_x: AF, CHF, DM
- CHF 3 years ago, echo: severe AS, EF60%
- Pt refused AVR
- Recurrent CHF with chest pain in 11/2010
- ECG: AF, LVH
- BH: 162cm, BW: 60kg
- Cr: 120, Hb: normal
- NYHA FC III



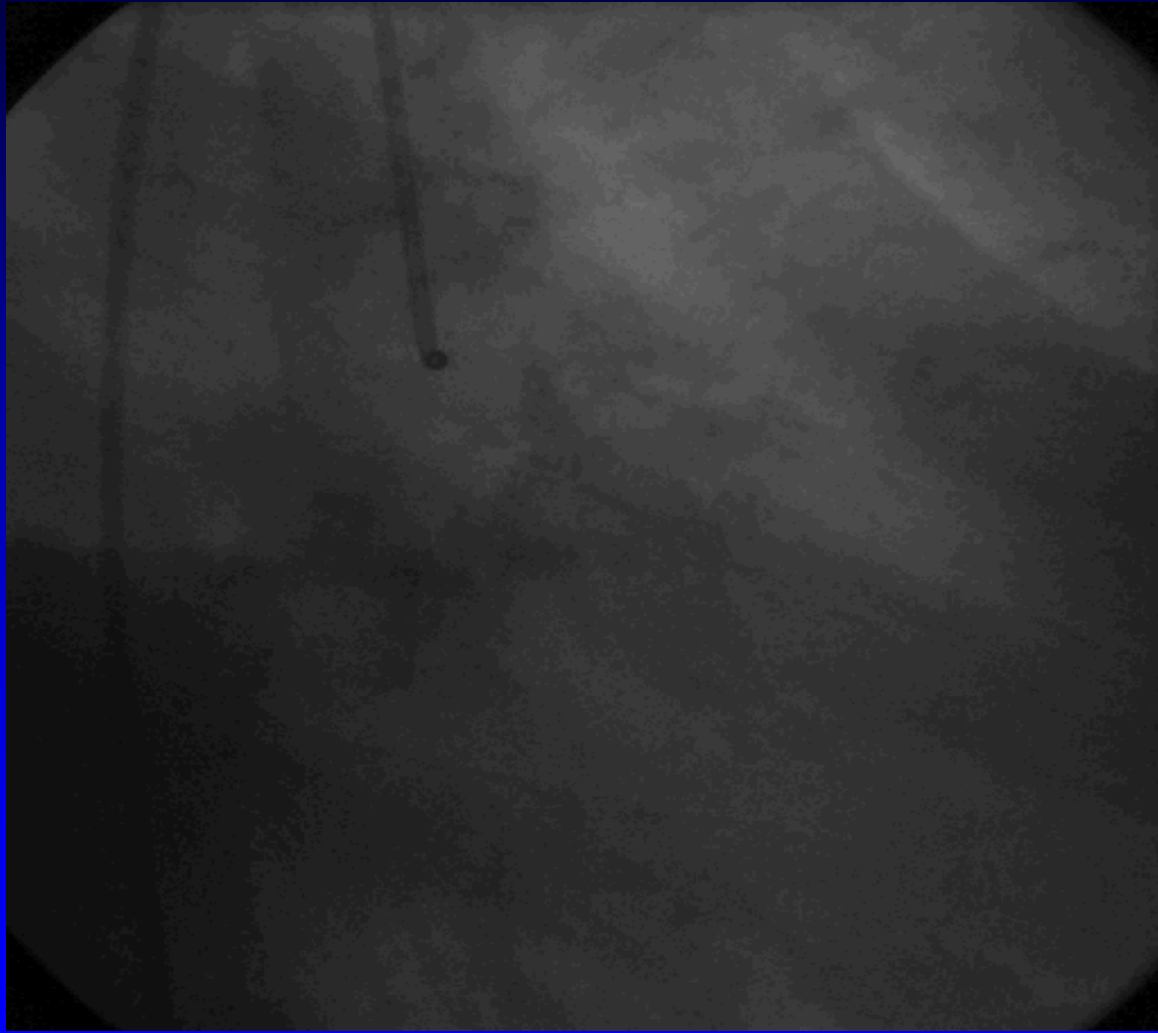
TTE/TOE in 12/2010

- EF 30%, HK over anterior/anteroseptal wall
- Dilated bil atria
- Severe AS, AVA: 0.88cm², mean grad: 42mmHg, tricuspid AV
- Mild AR
- Mild MS, mild MR 2/4, mod TR 3/4, no pul HT
- Annulus: 25.4mm (TTE)/ 23.8mm (TOE)
- Ascending aorta: 37.5mm (TTE)/ 40.4mm (TOE)
- Sinus width: 39mm



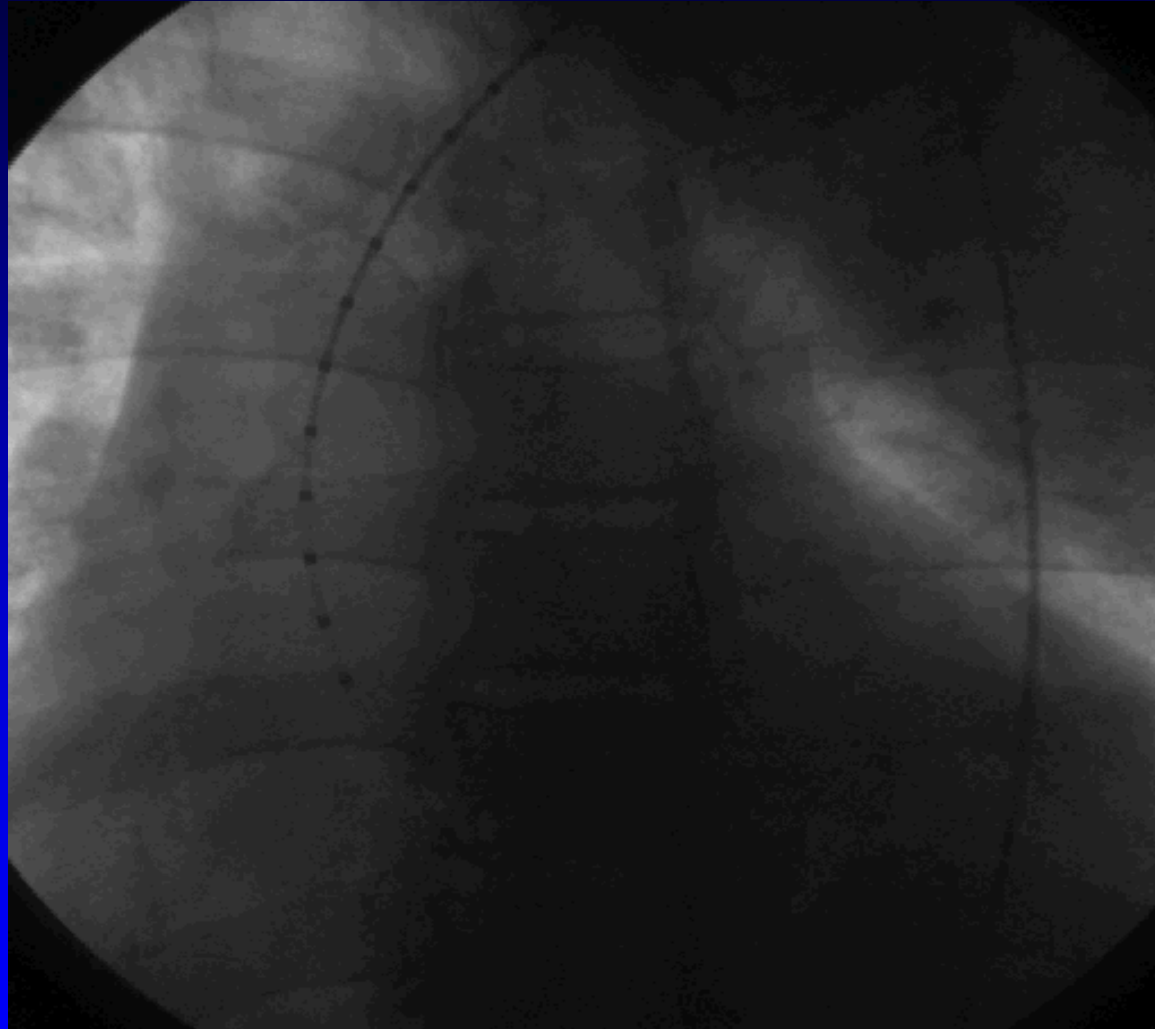


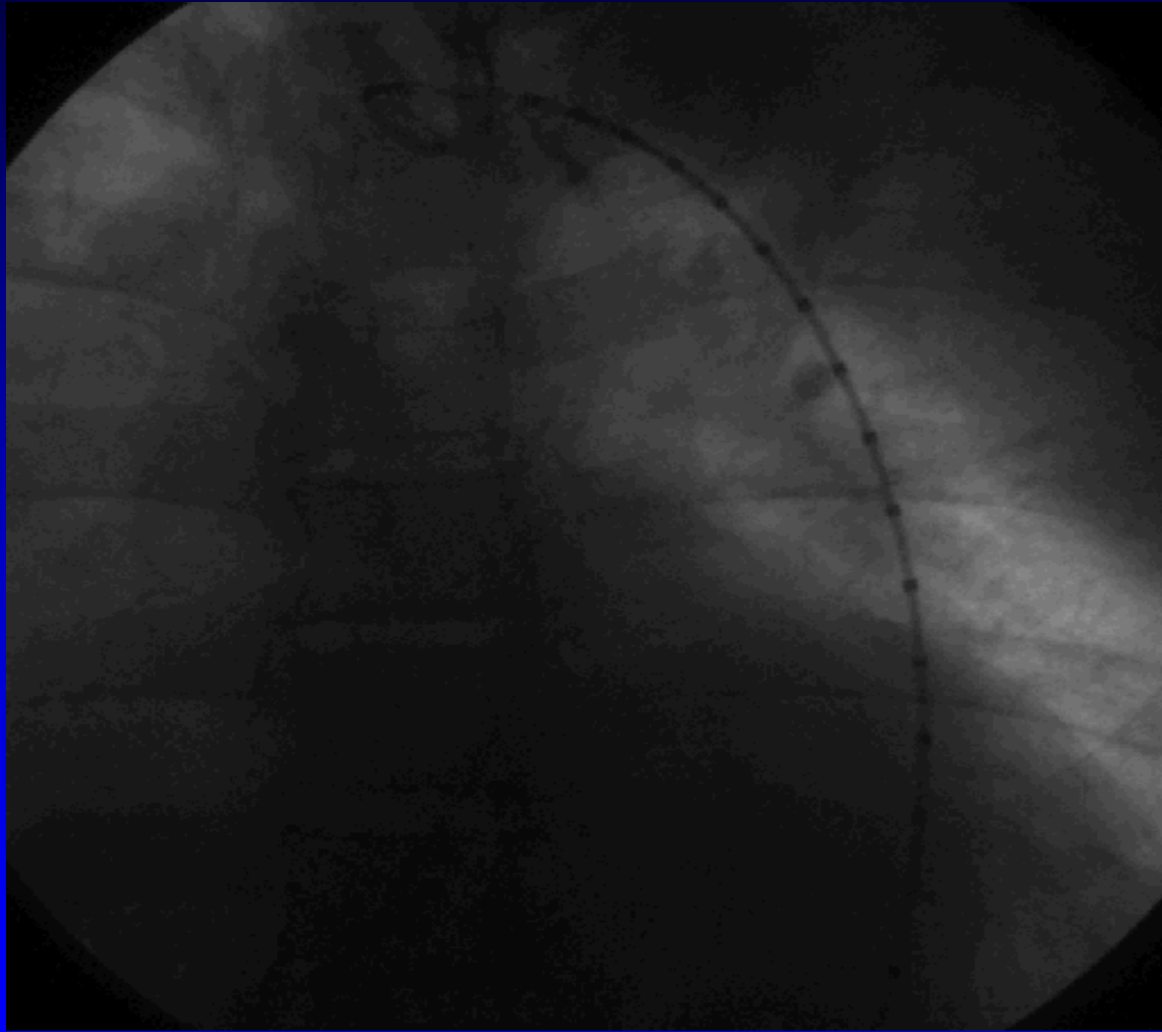


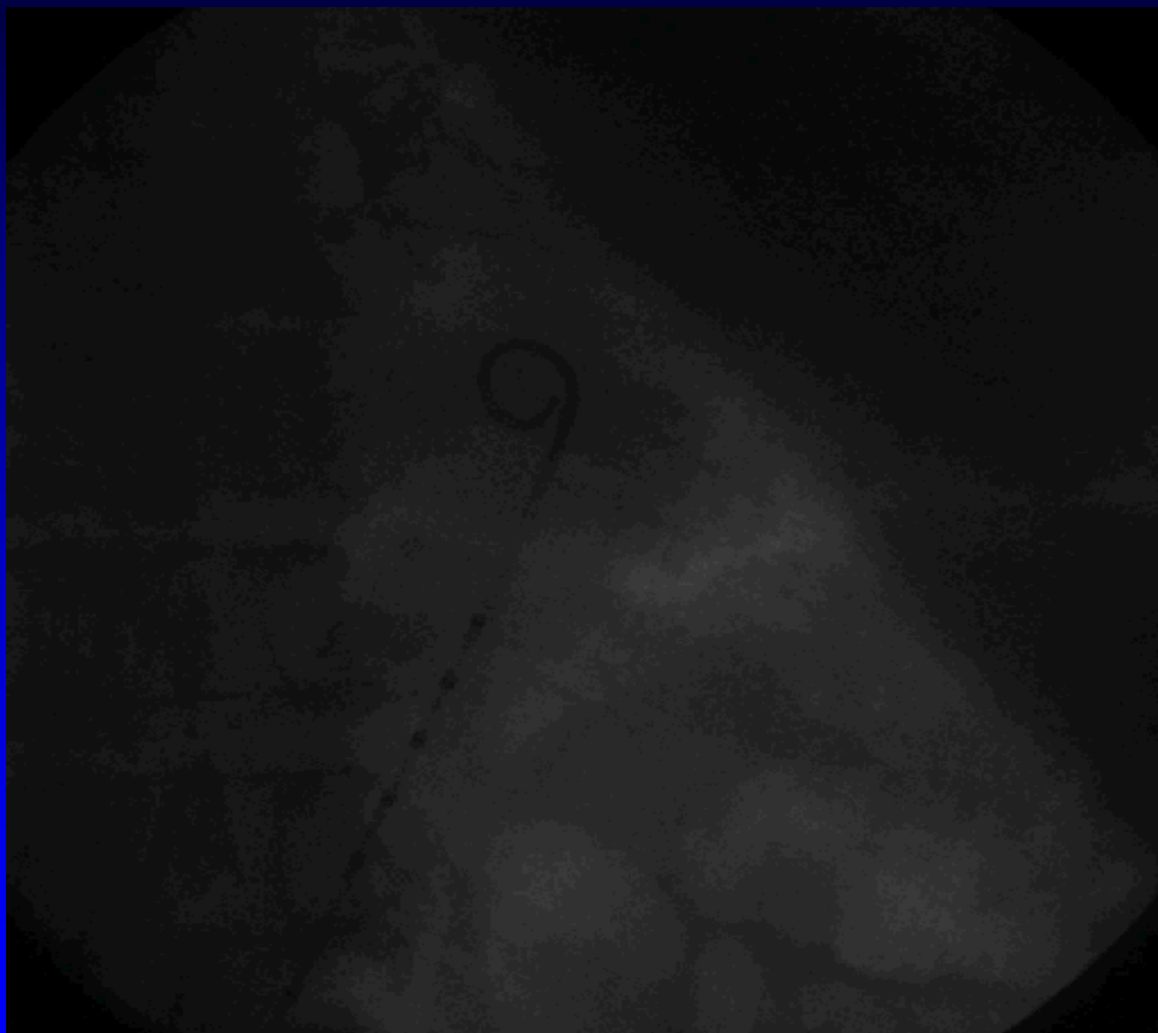


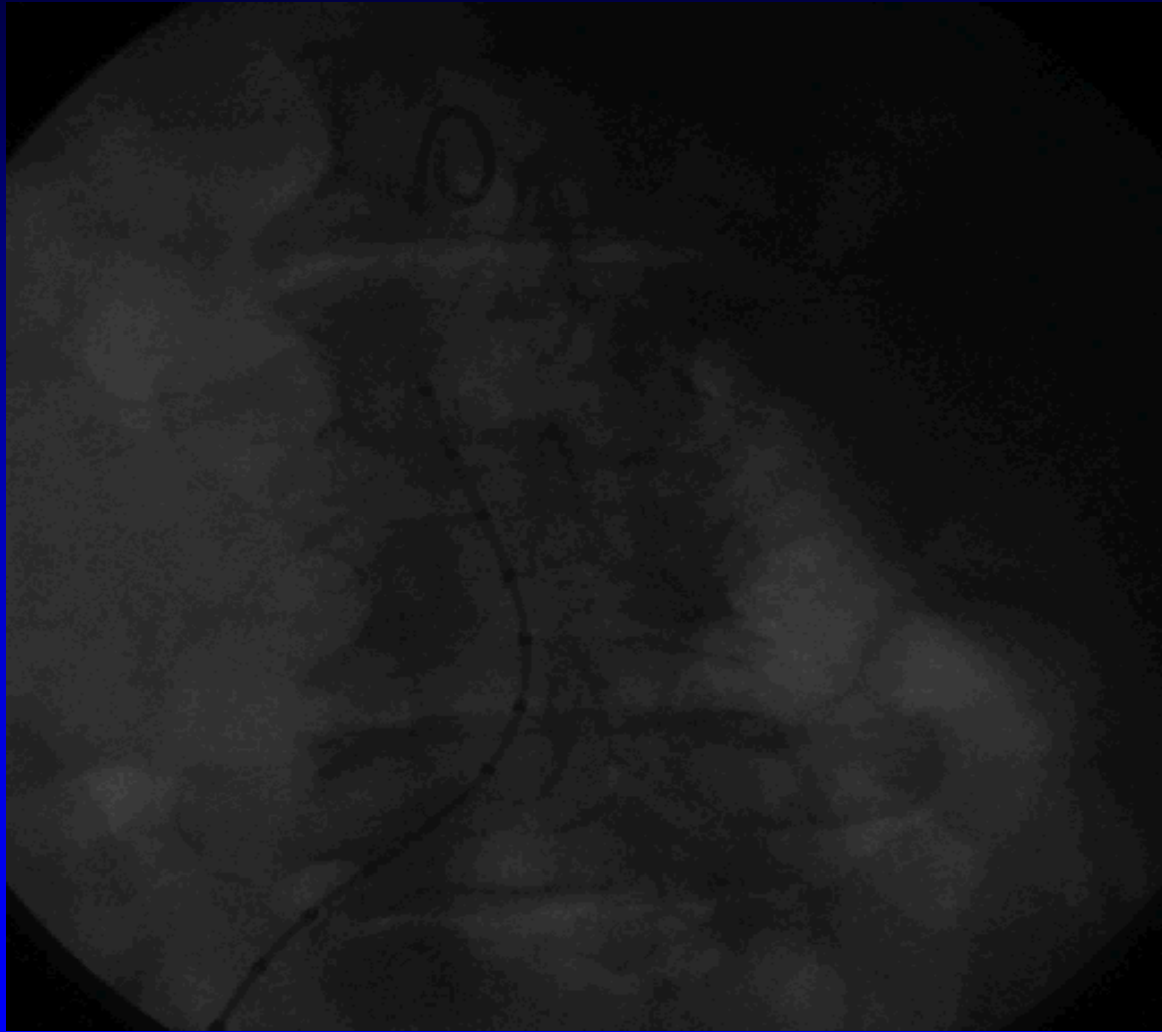


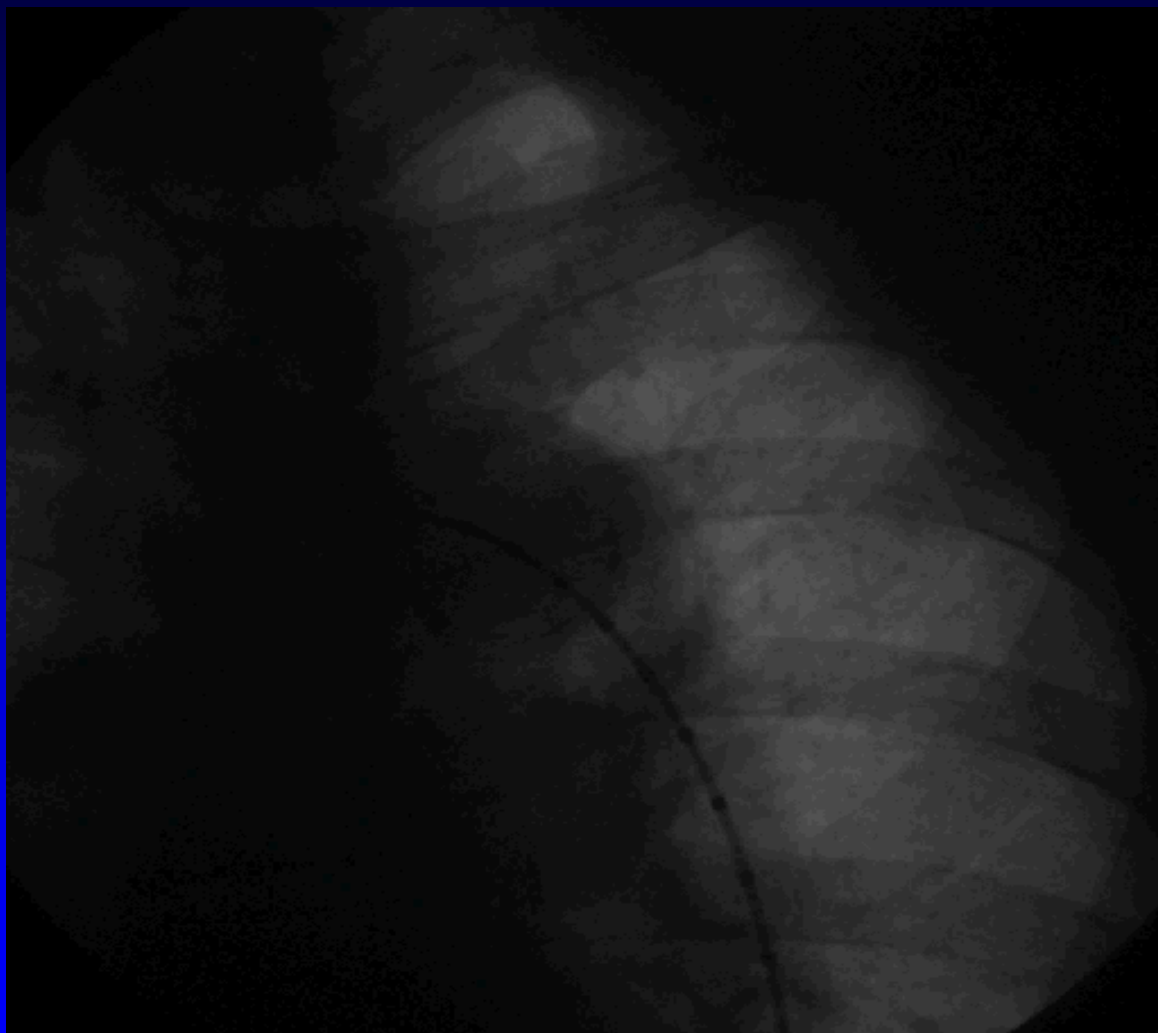


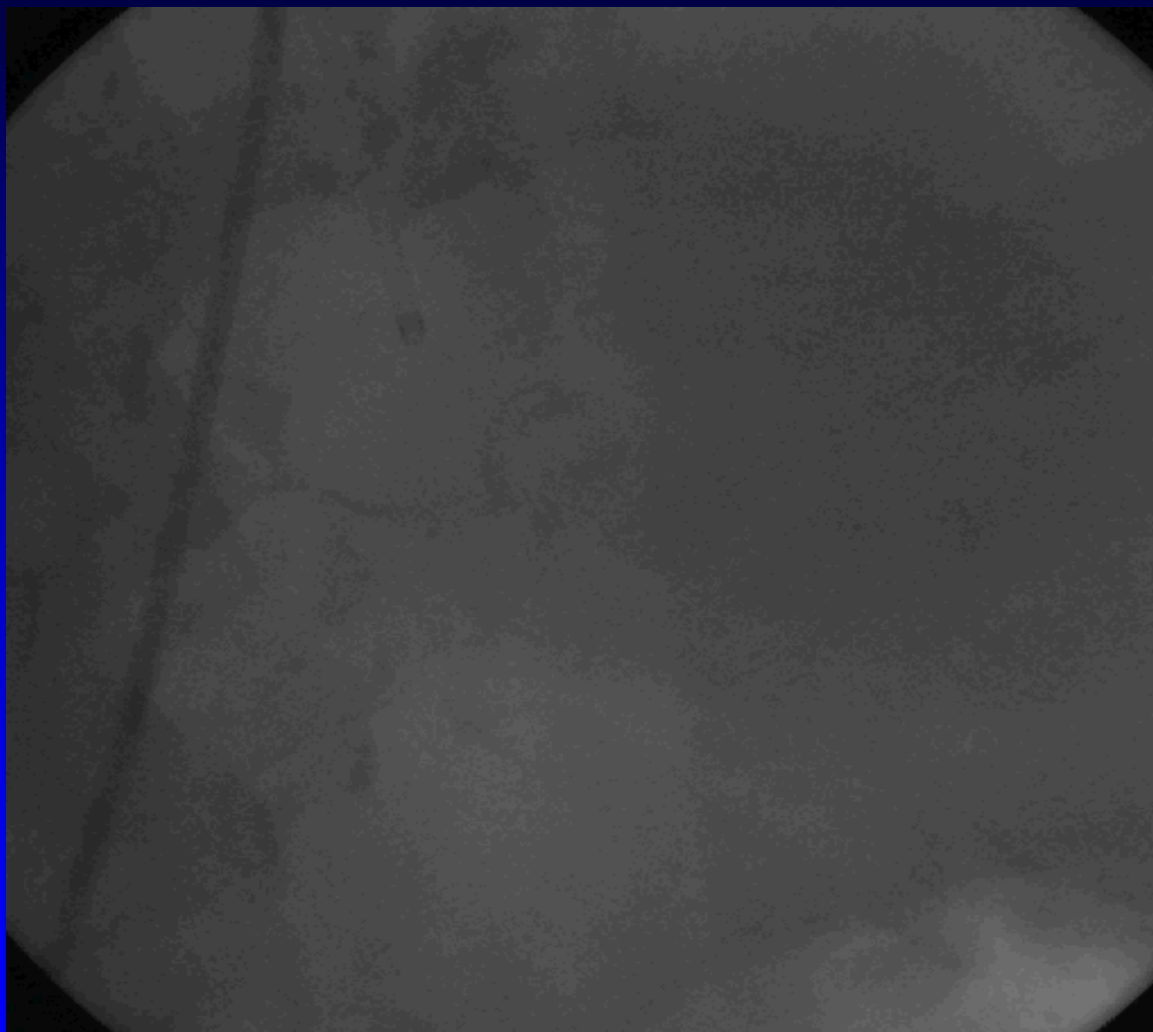










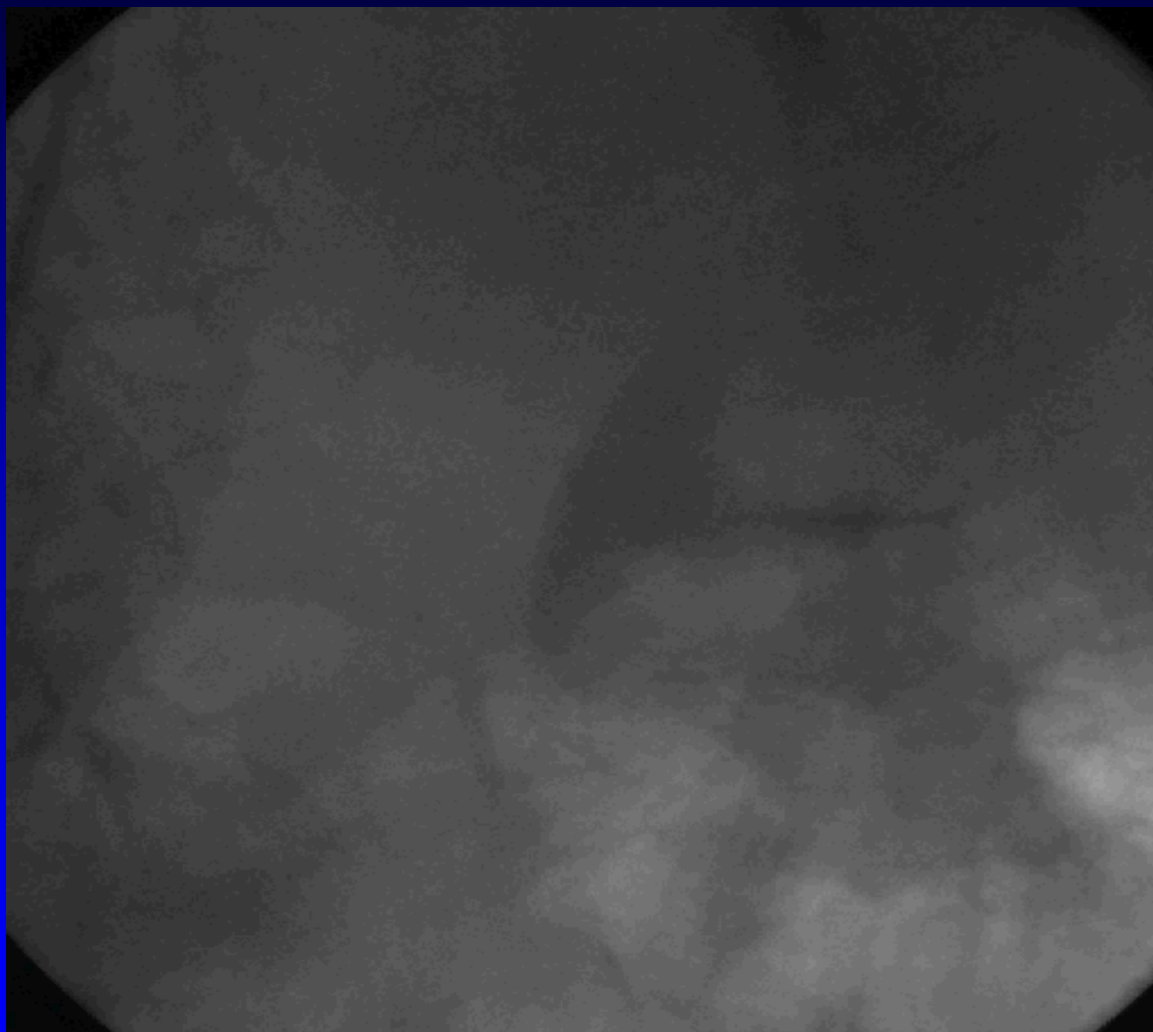


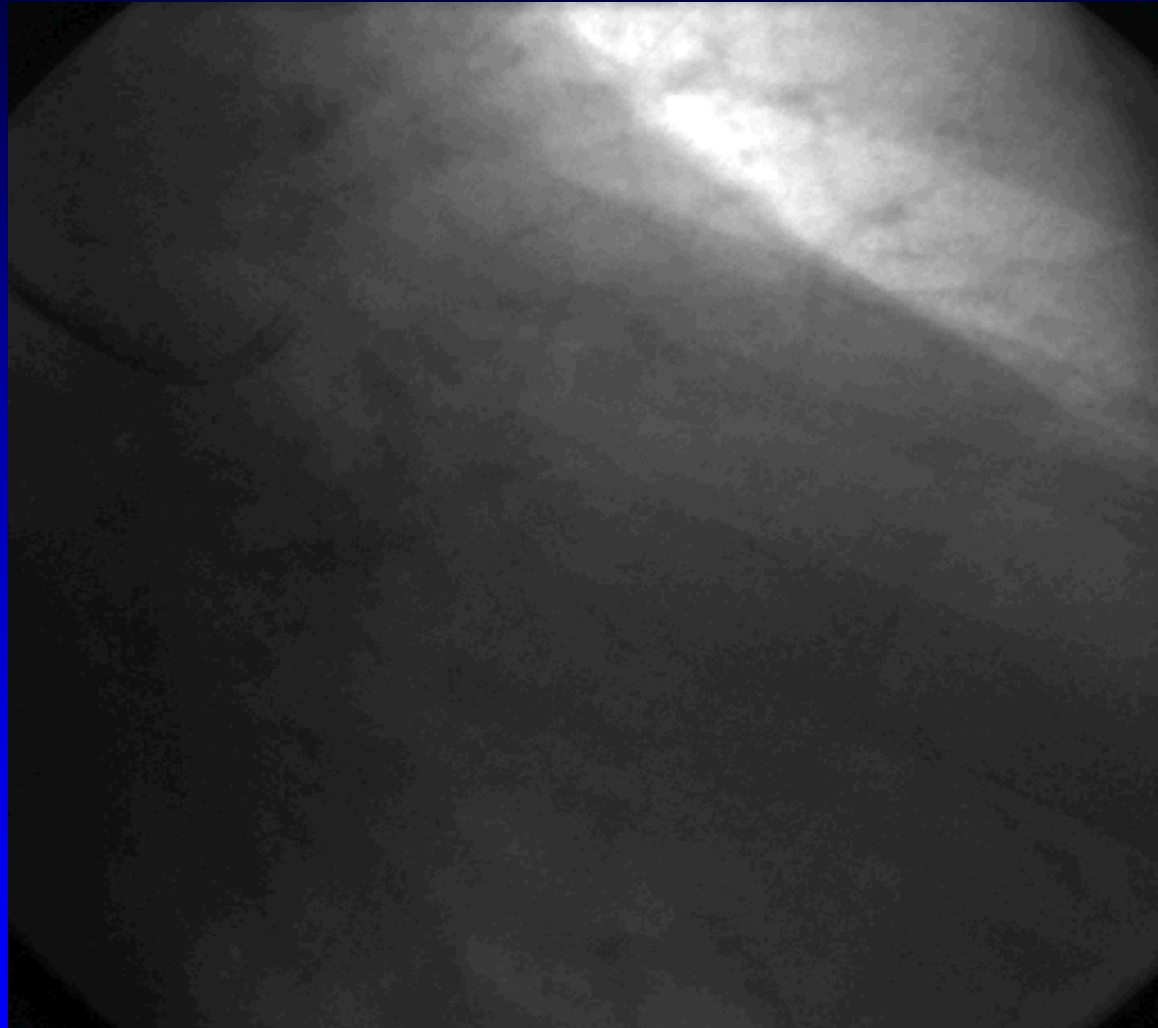
2.5x10 balloon



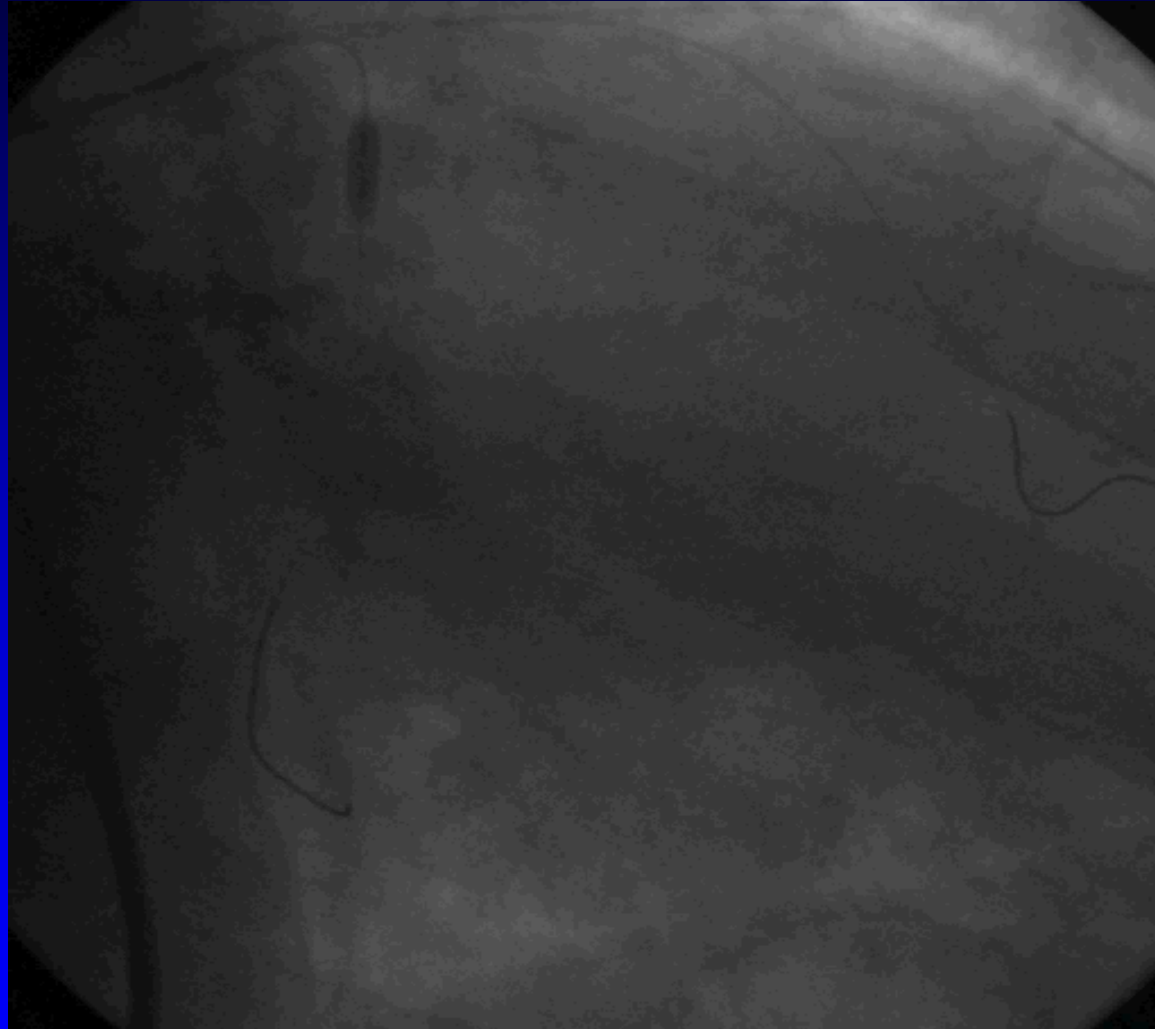
2.75x12 BMS



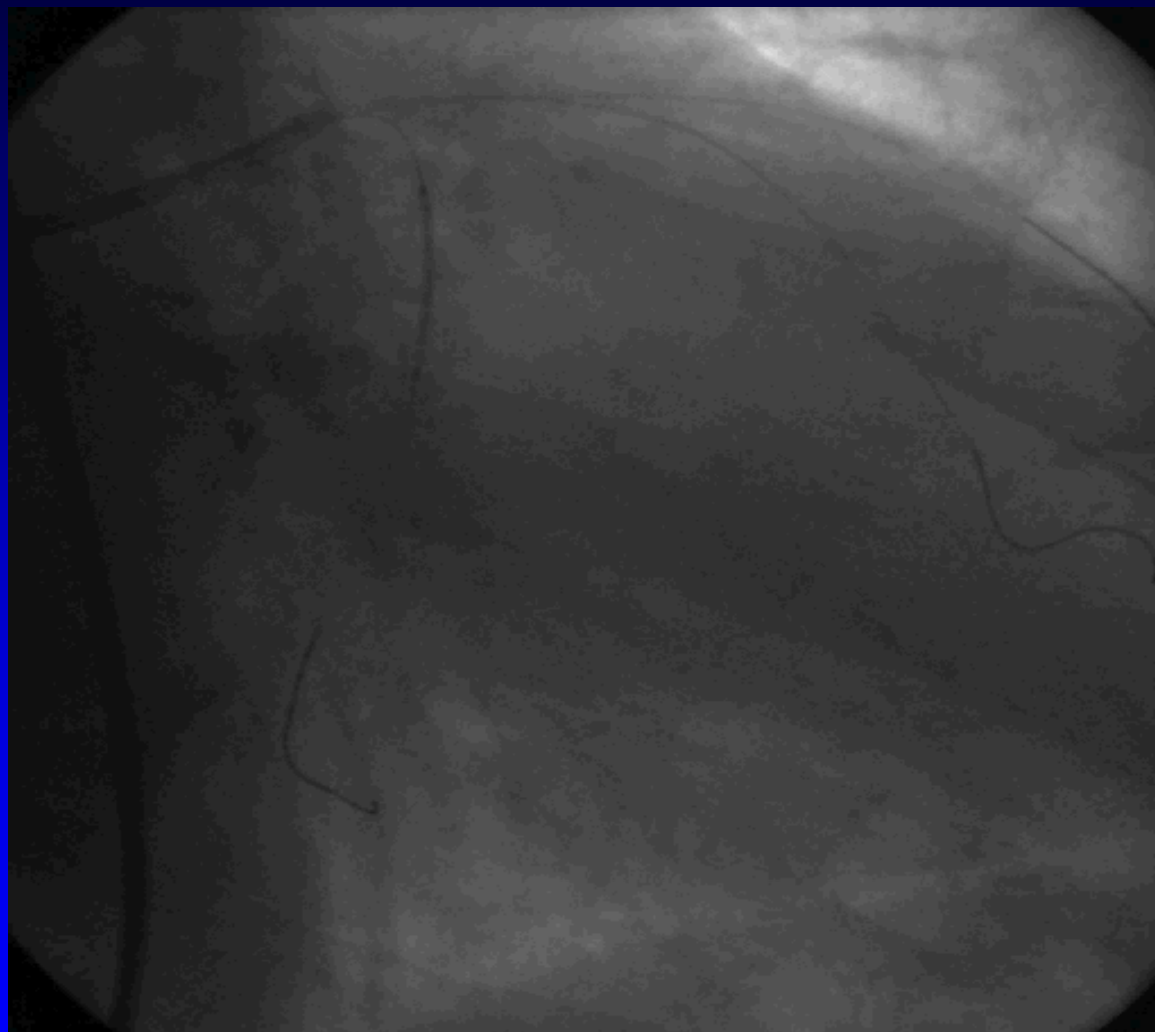


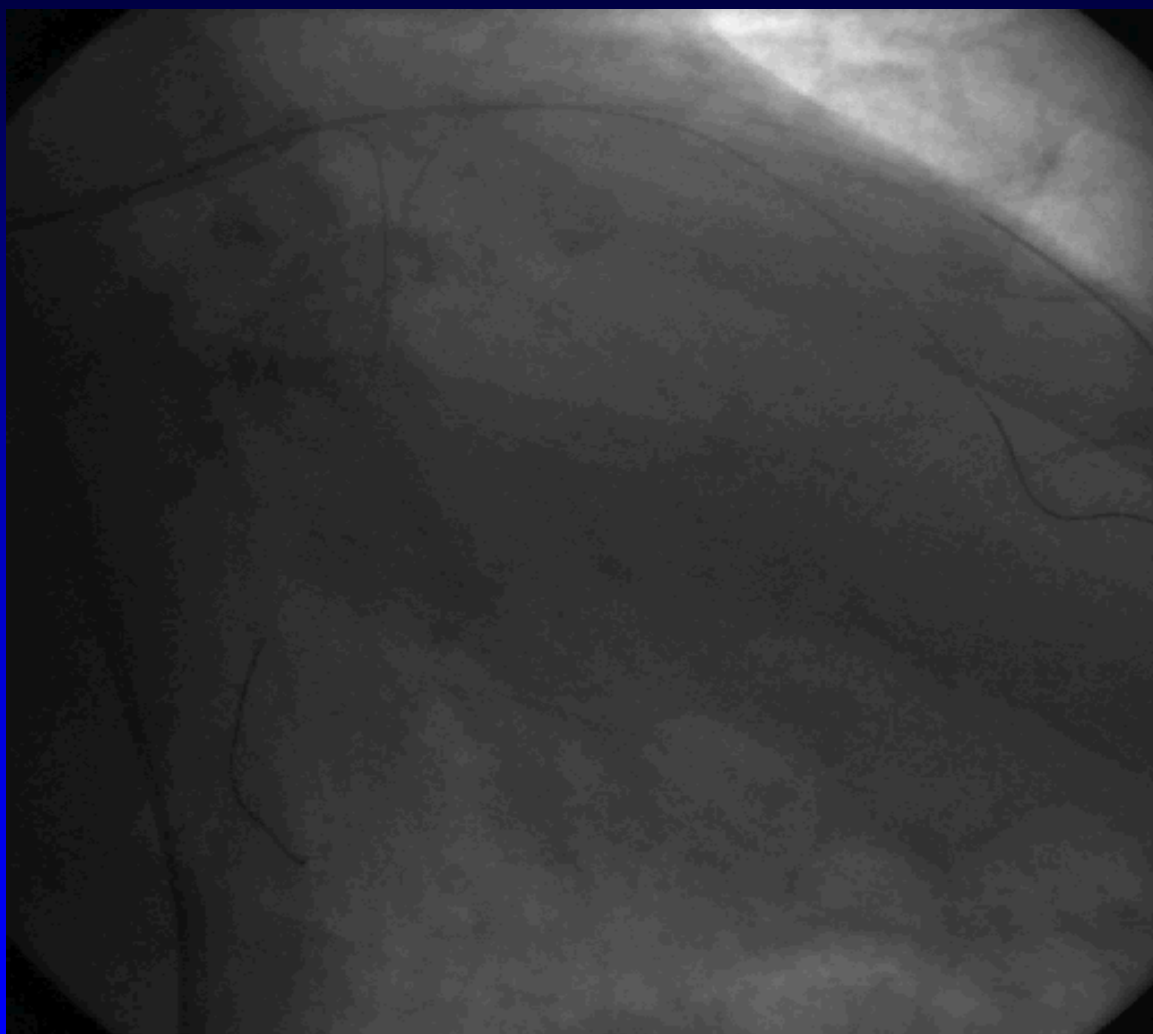


2.5x10 balloon



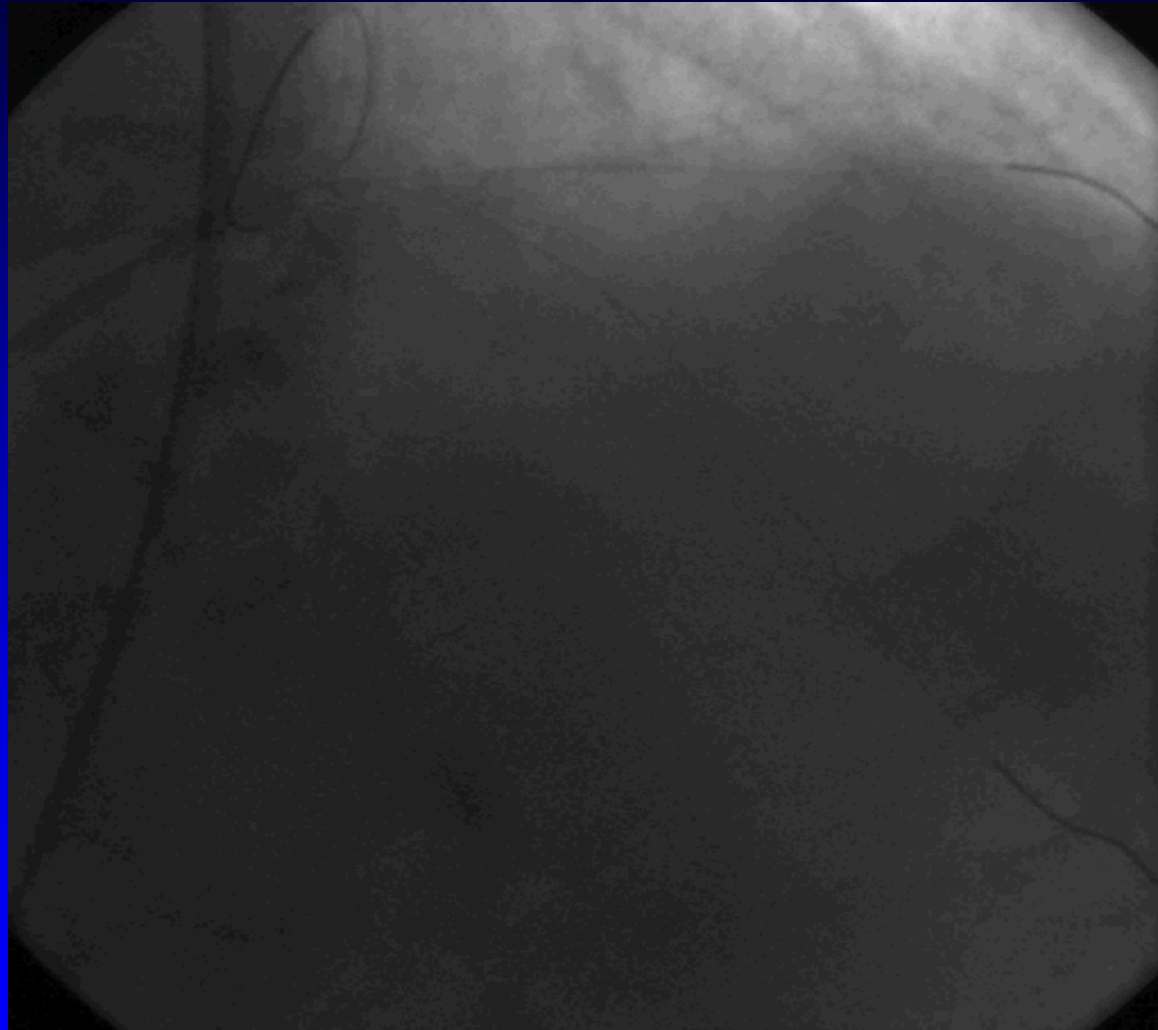
2.75x26 BMS



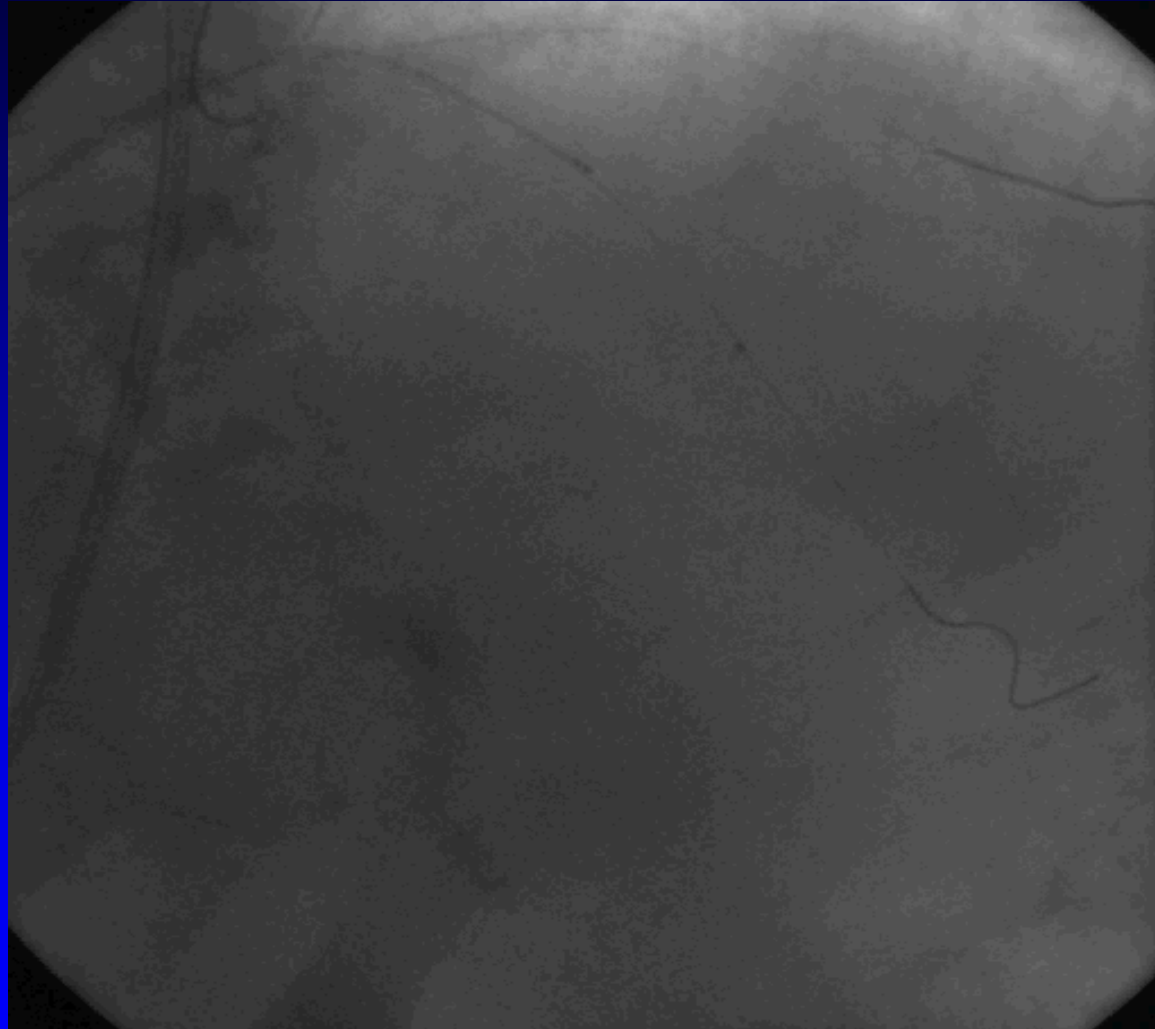


D1 direct
stenting with
3.0x12 BMS





IVUS study of
LAD/LMN



2.5x10 balloon

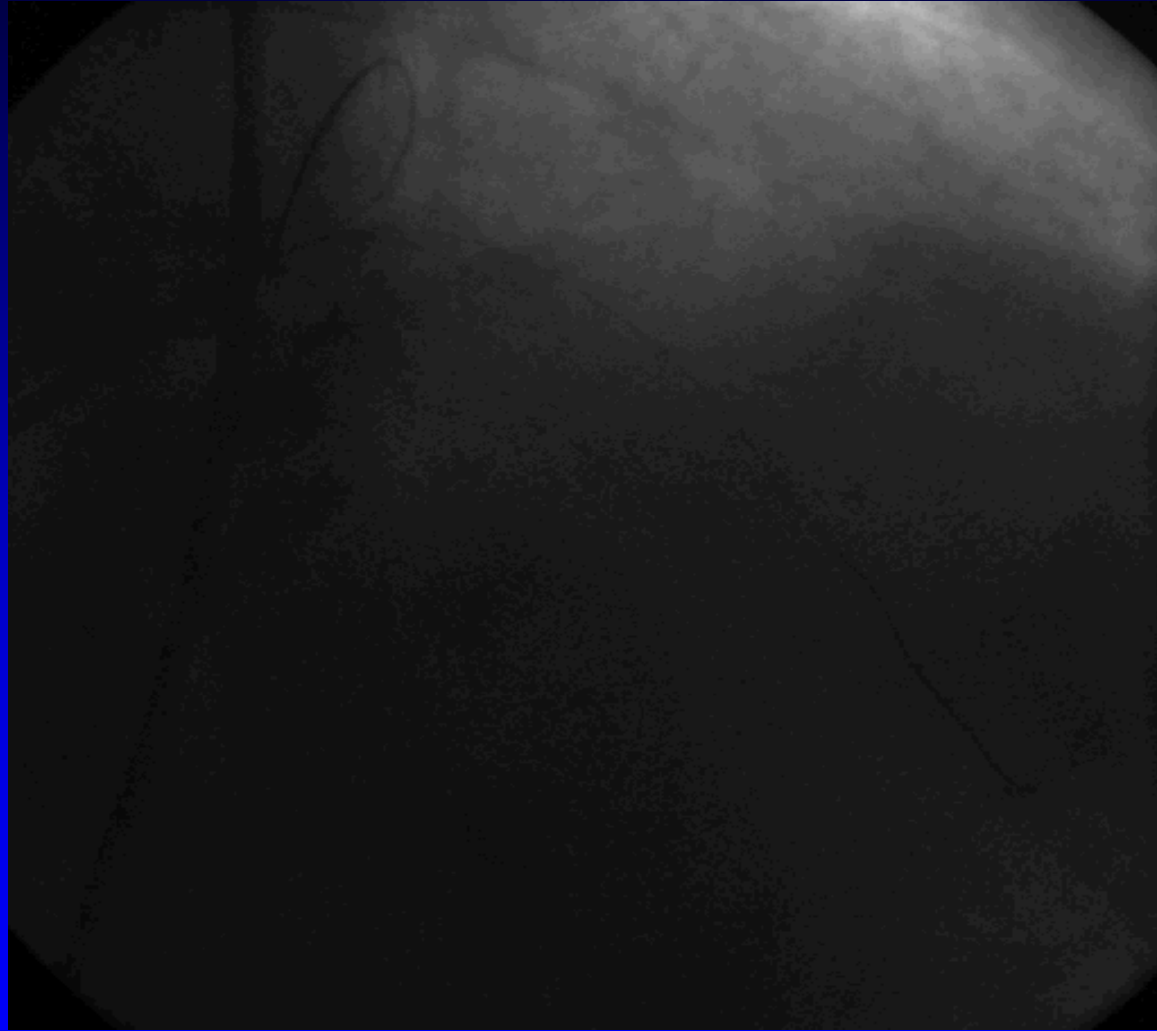


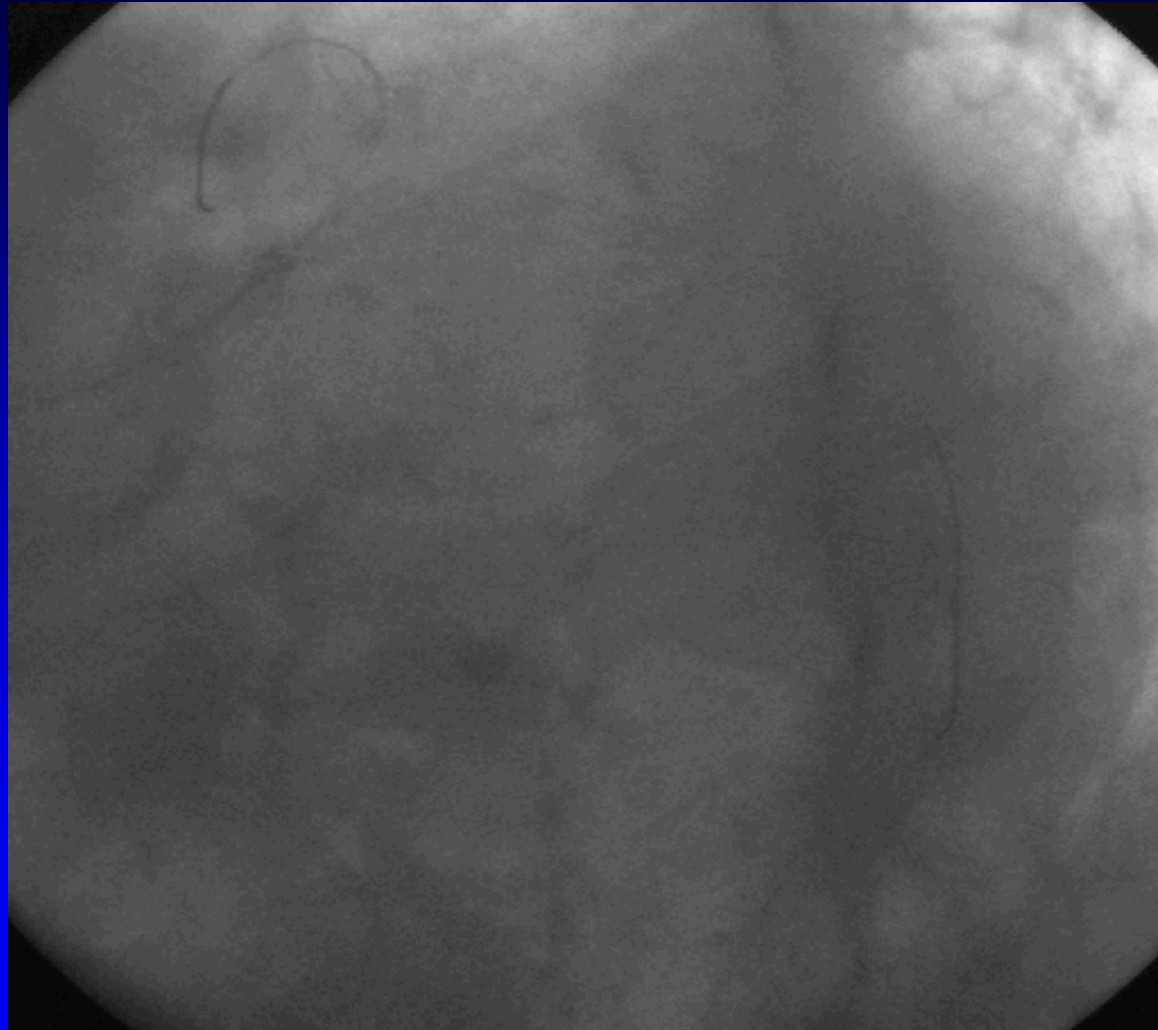
3.5x18 BMS



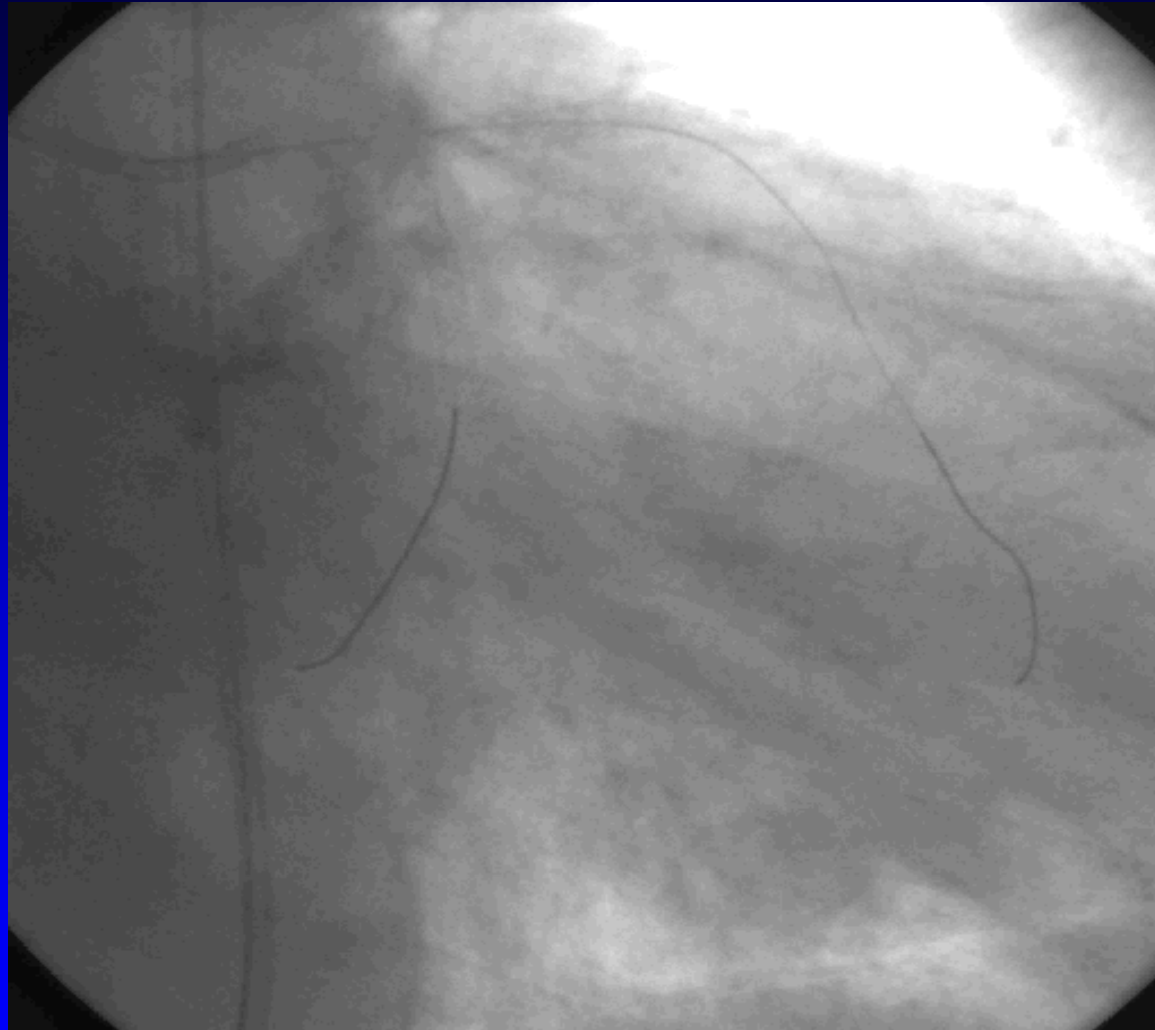
4.0x12 BMS



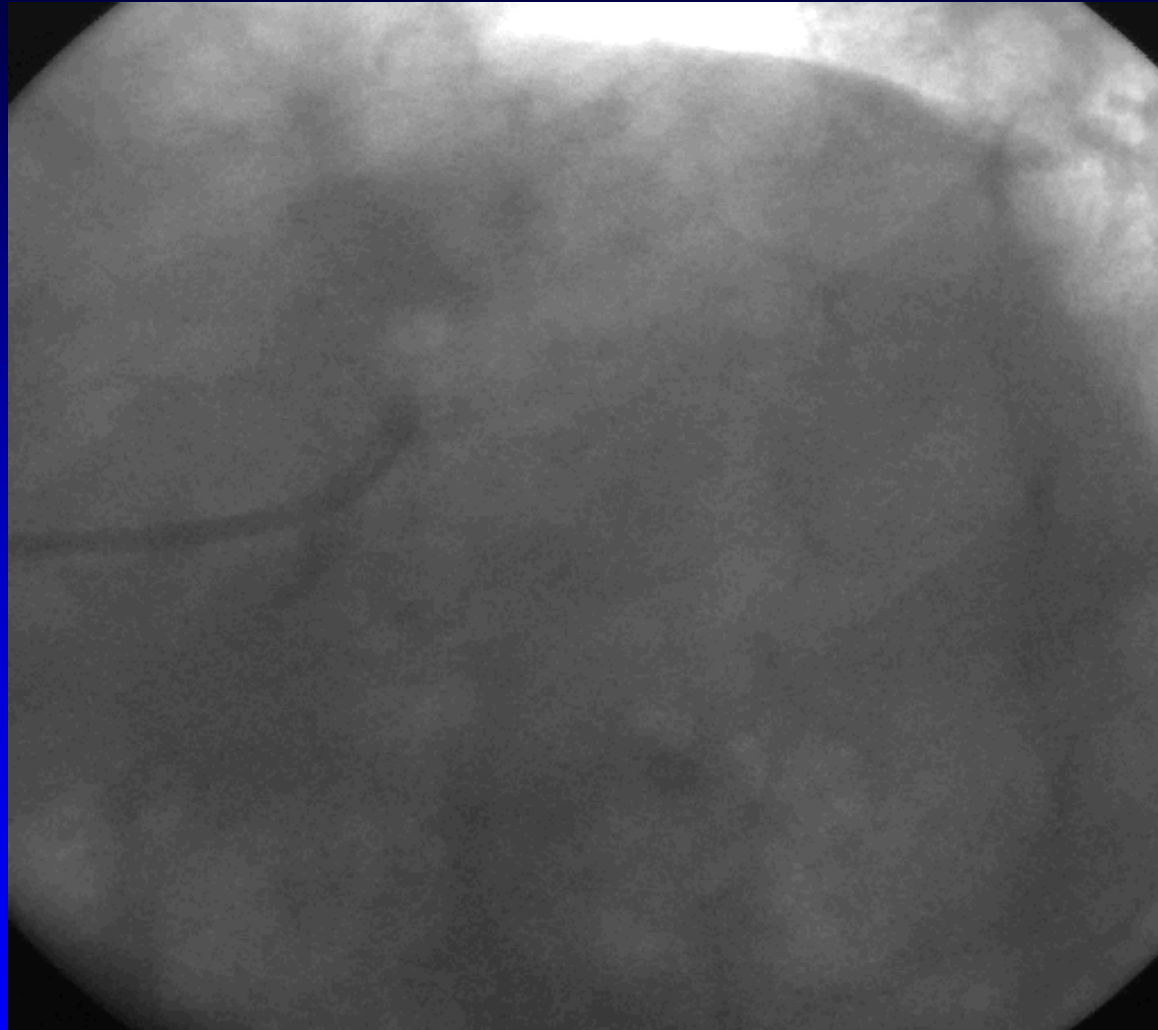




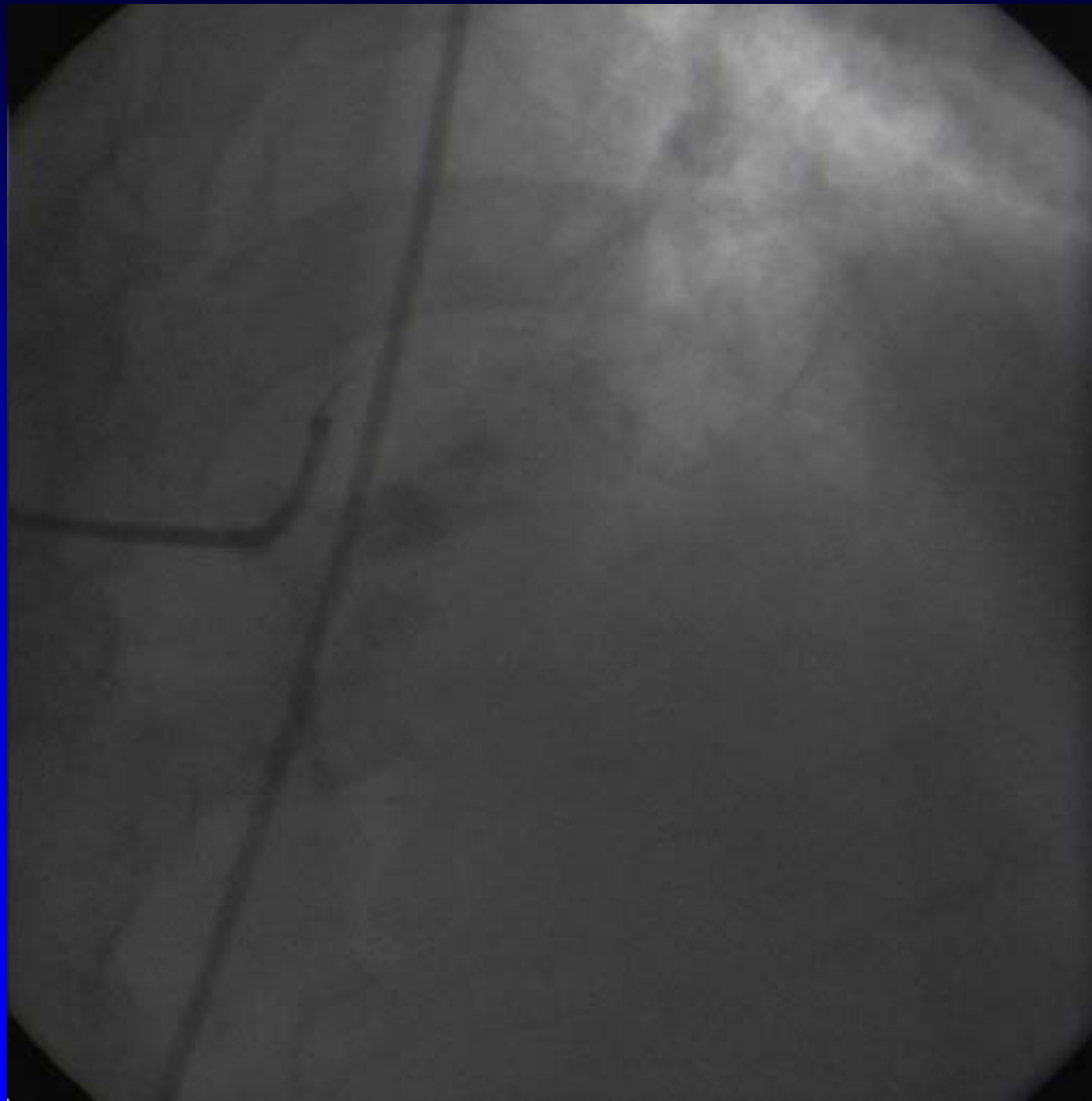
LCx
FFR=0.97
with IV
Adenosine

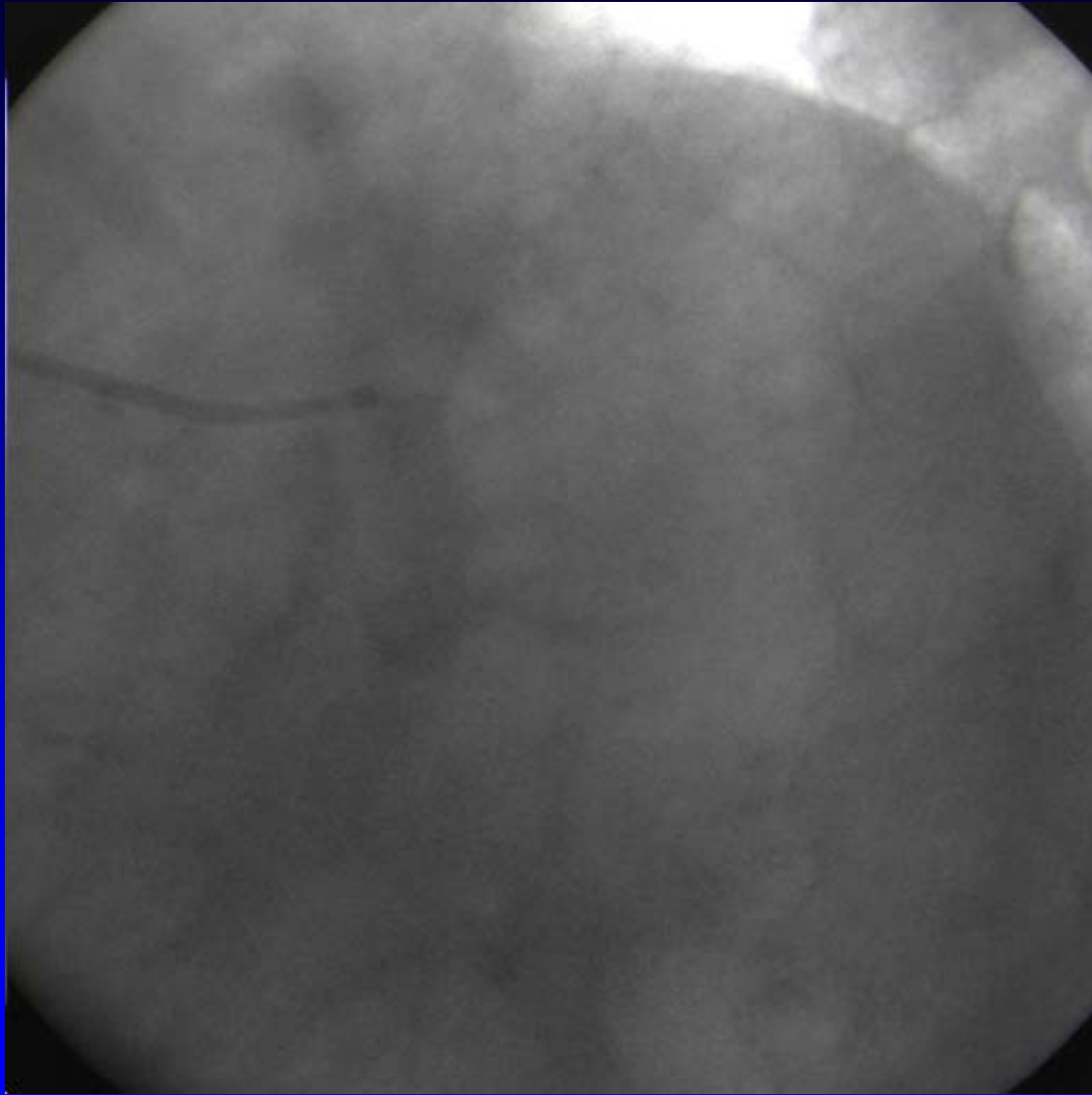




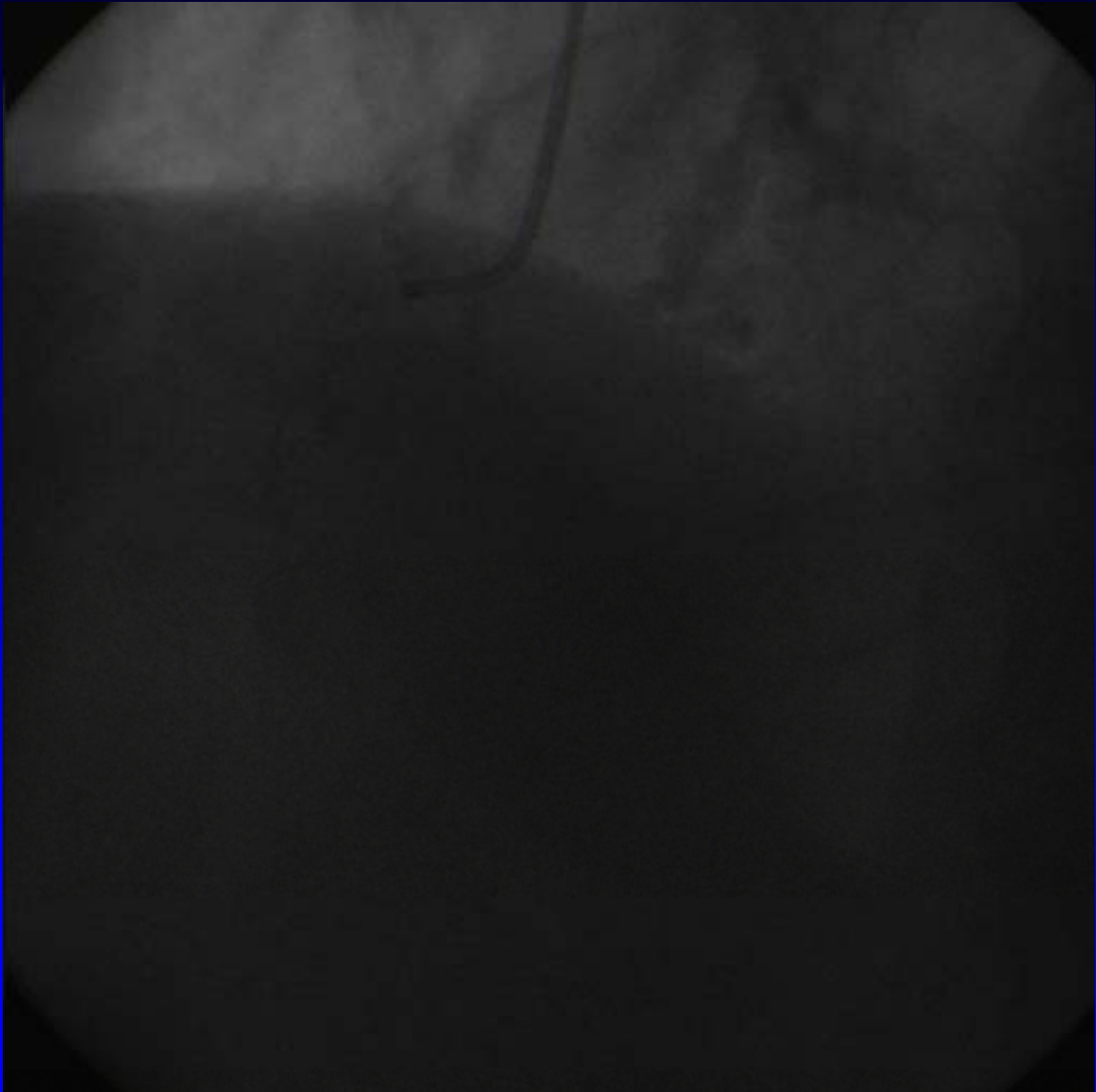


Relook coro
2 months
later before
TAVI









Plan

- Summary
- Severe AS (EF 40%, AVA: 0.88cm², mean grad: 42mmHg)
- dLMN + TVD with PCI in 11/2010
- LAA clot resolved, AF on warfarin
- Horizontal aorta
- Tortuous femoral arteries
- Refused AVR
- Combined meeting: for TAVI
- GA
- CoreValve: 29mm
- Left femoral or left subcalvian approach



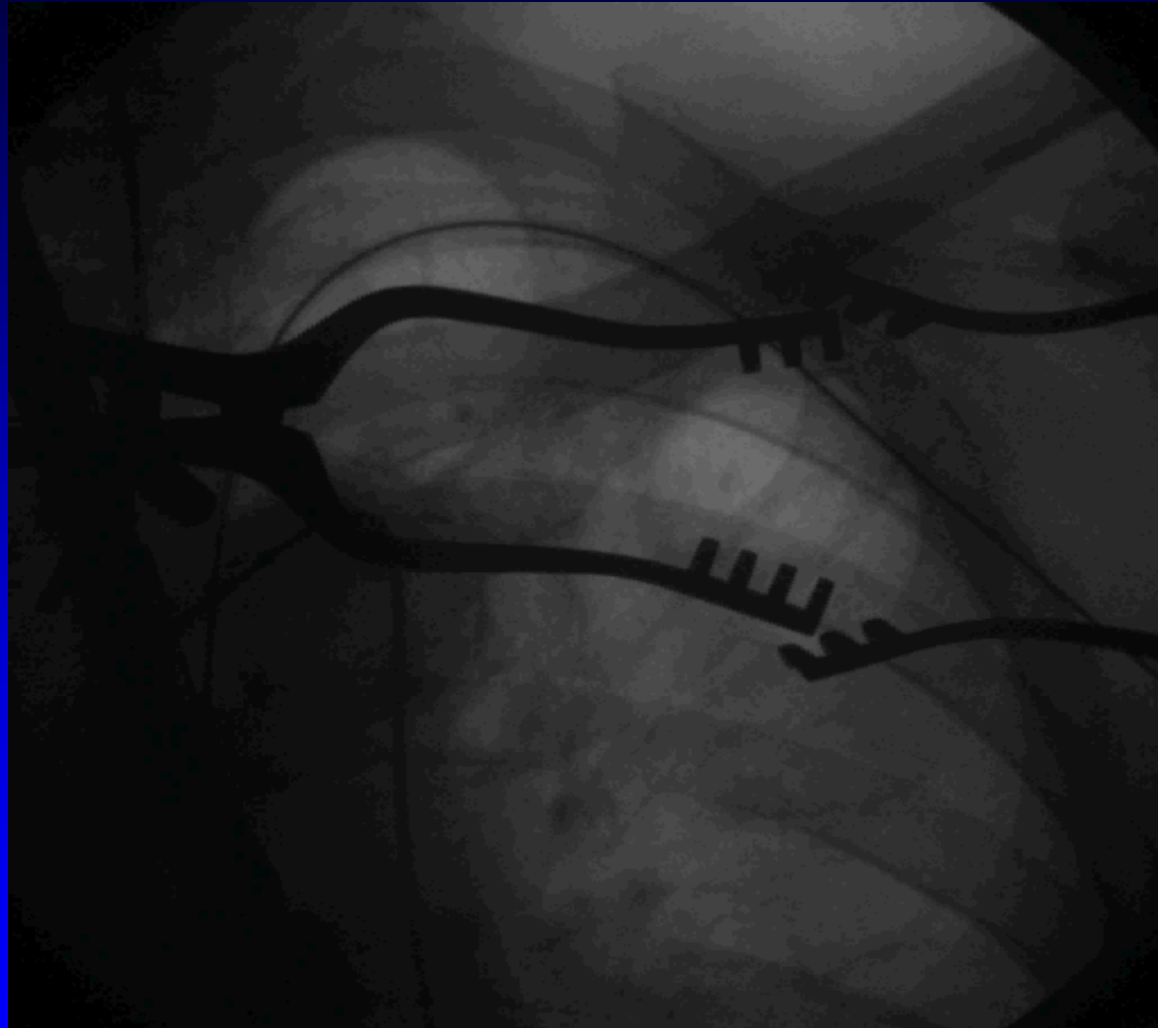


Temp wire

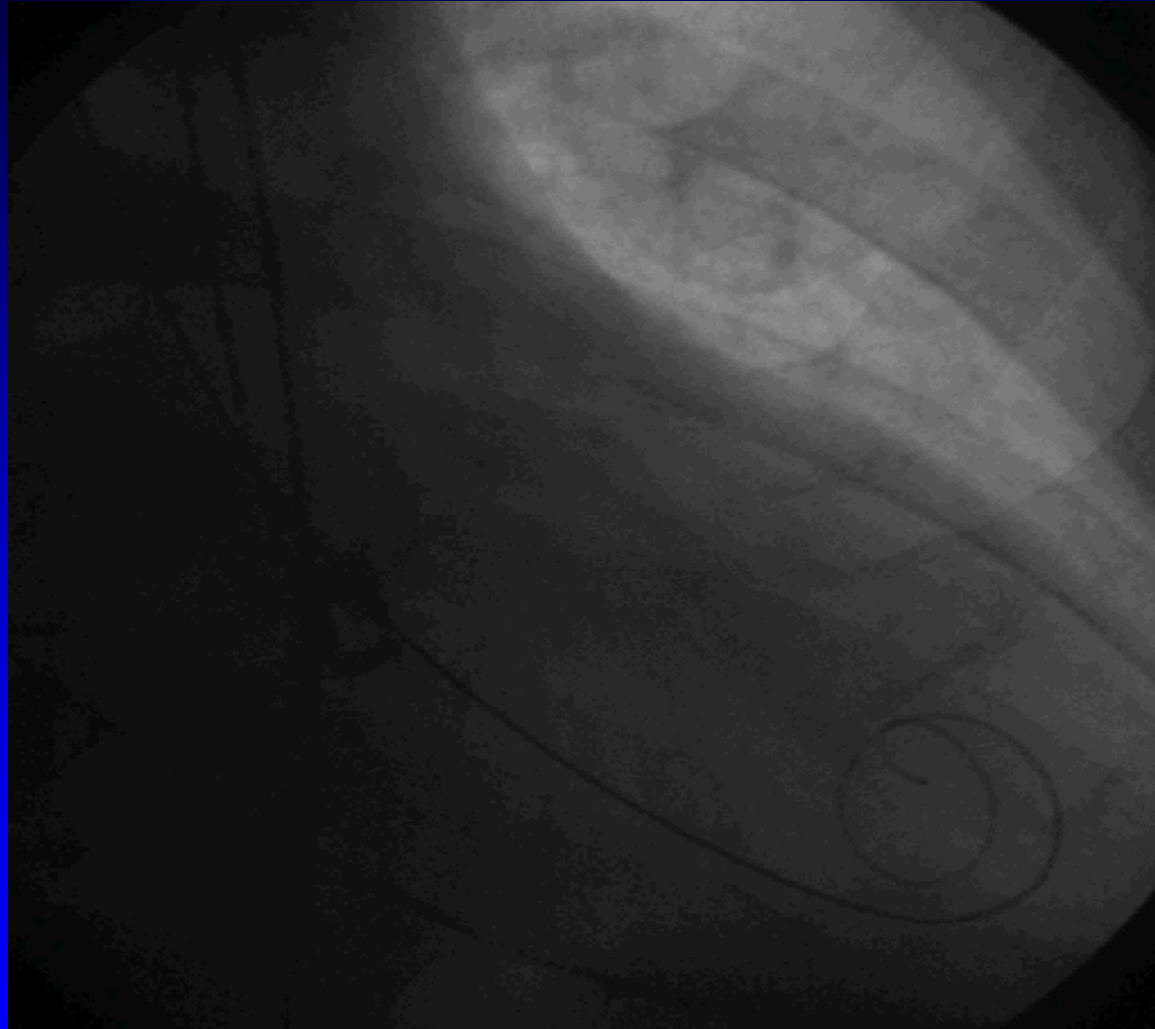
Graded Pigtail

GA with TEE

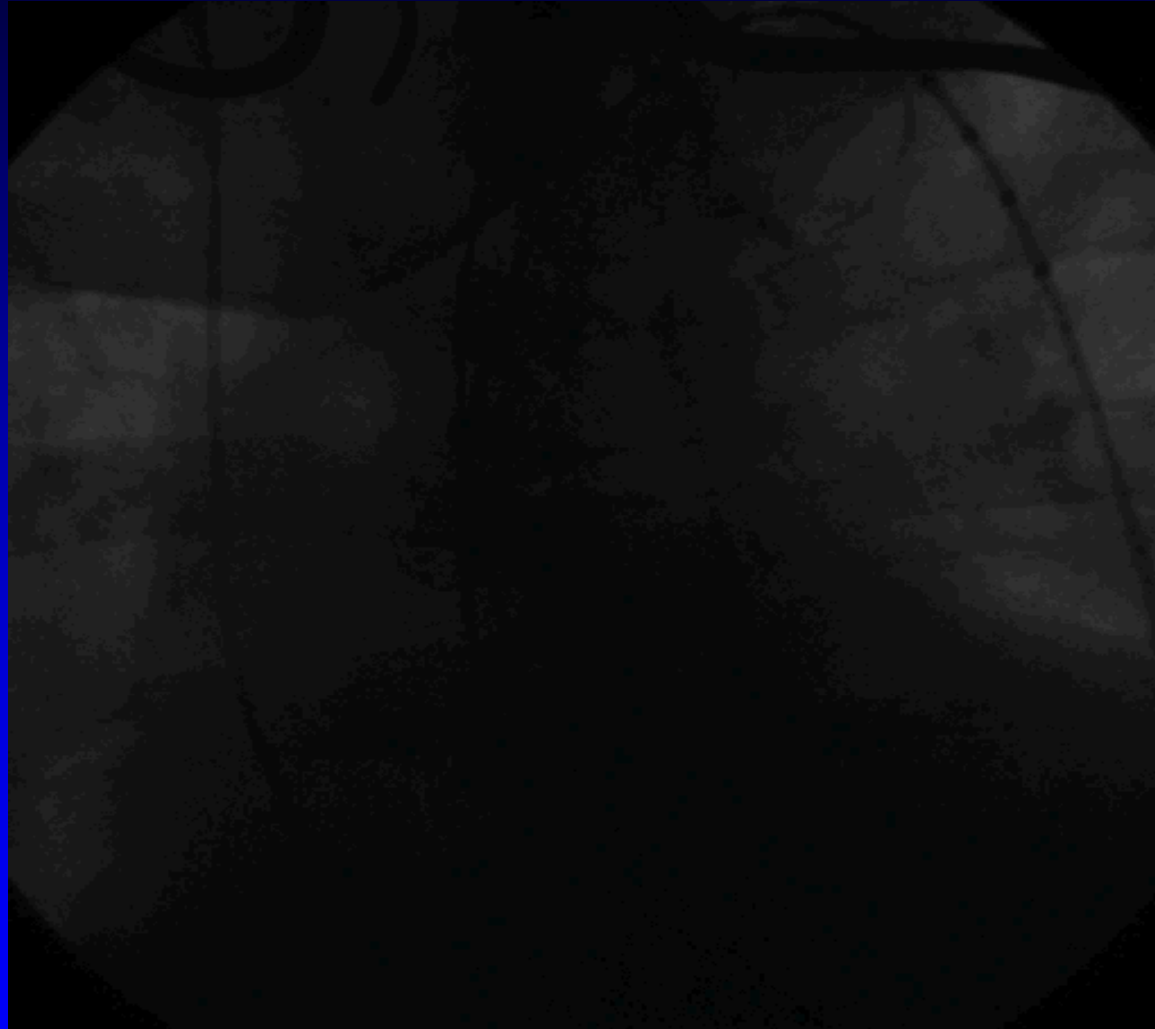




Superstiff GW in LV

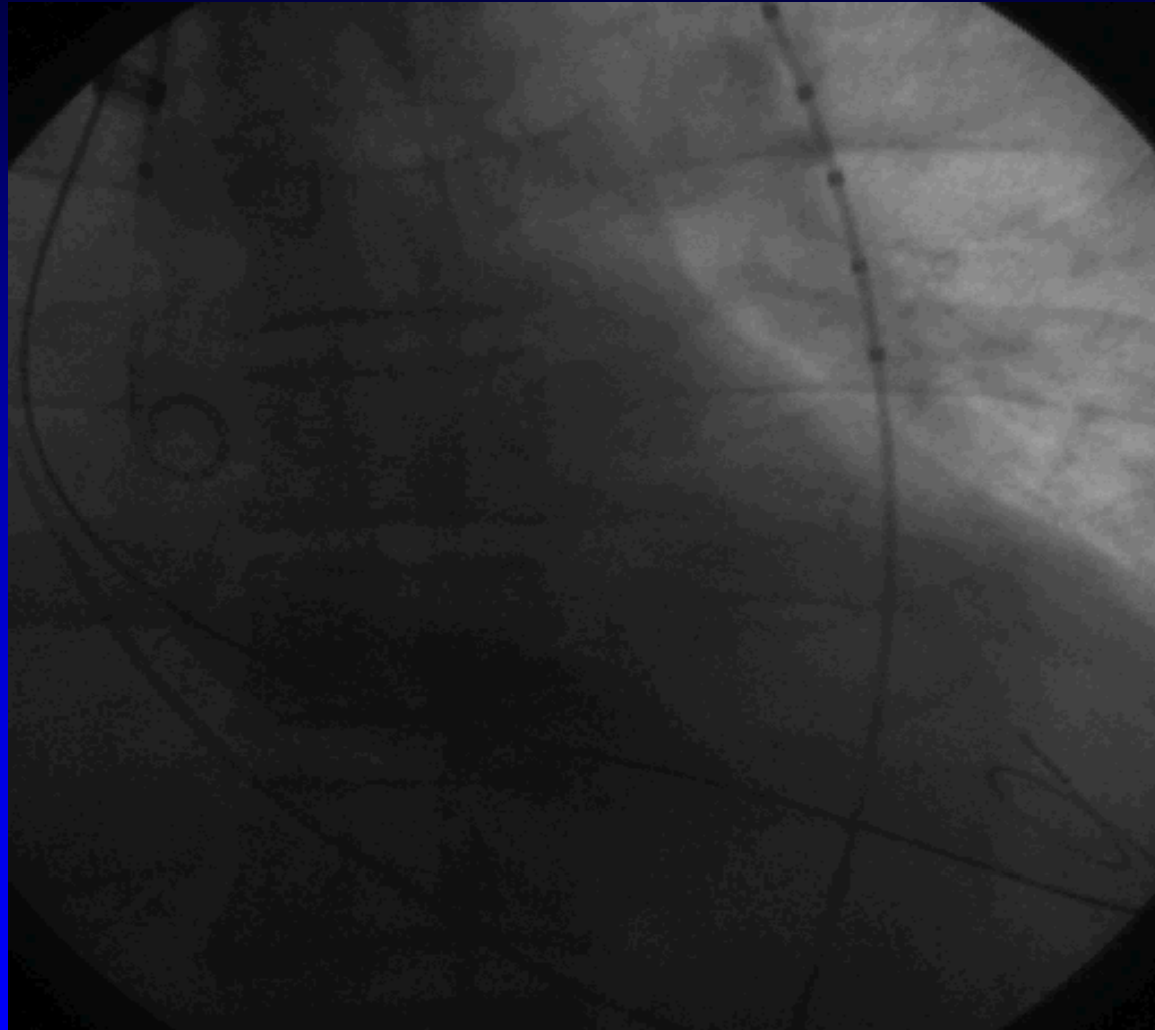


18F sheath
through left
subclavian
artery

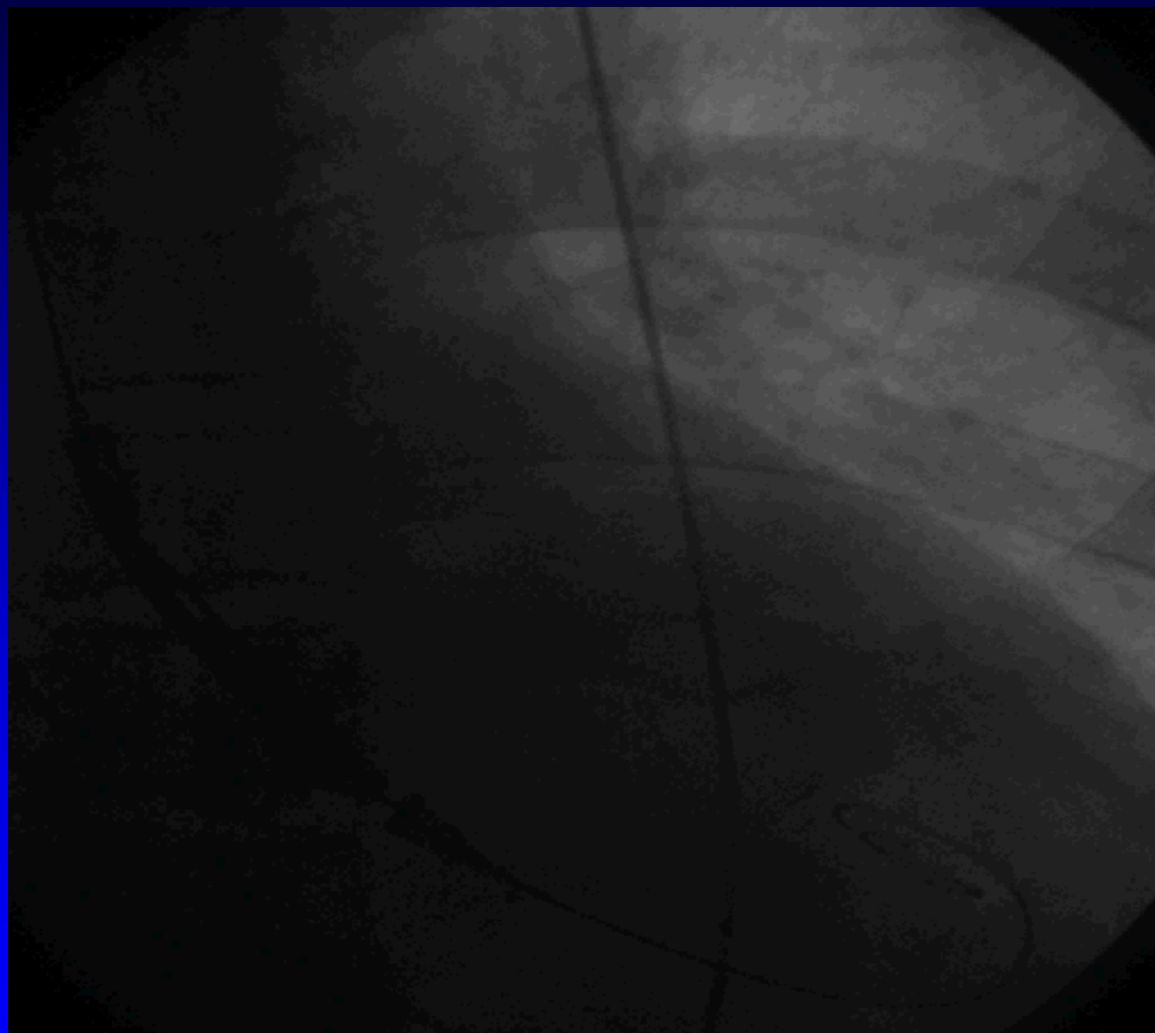


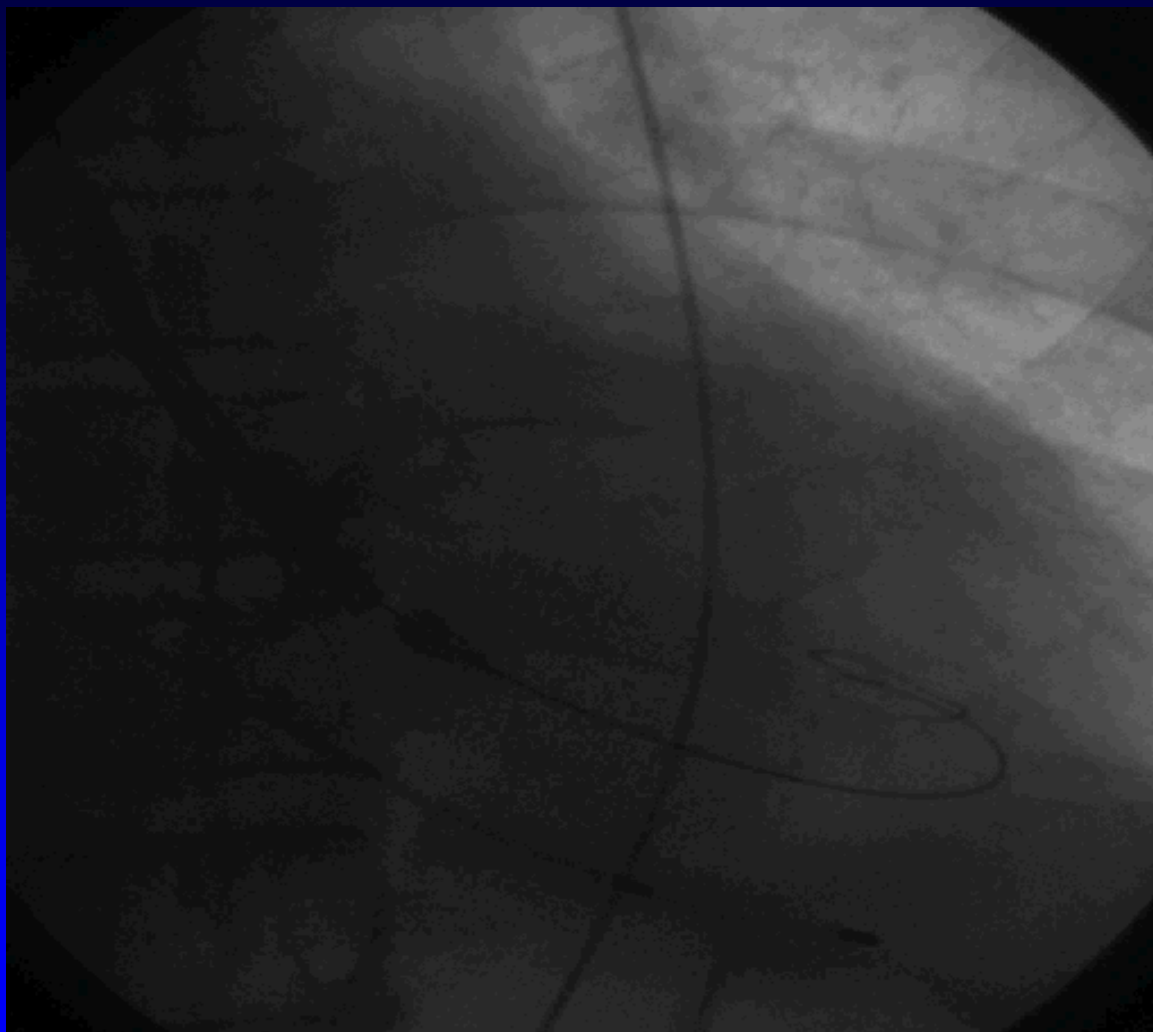
25mm Nucleus
balloon

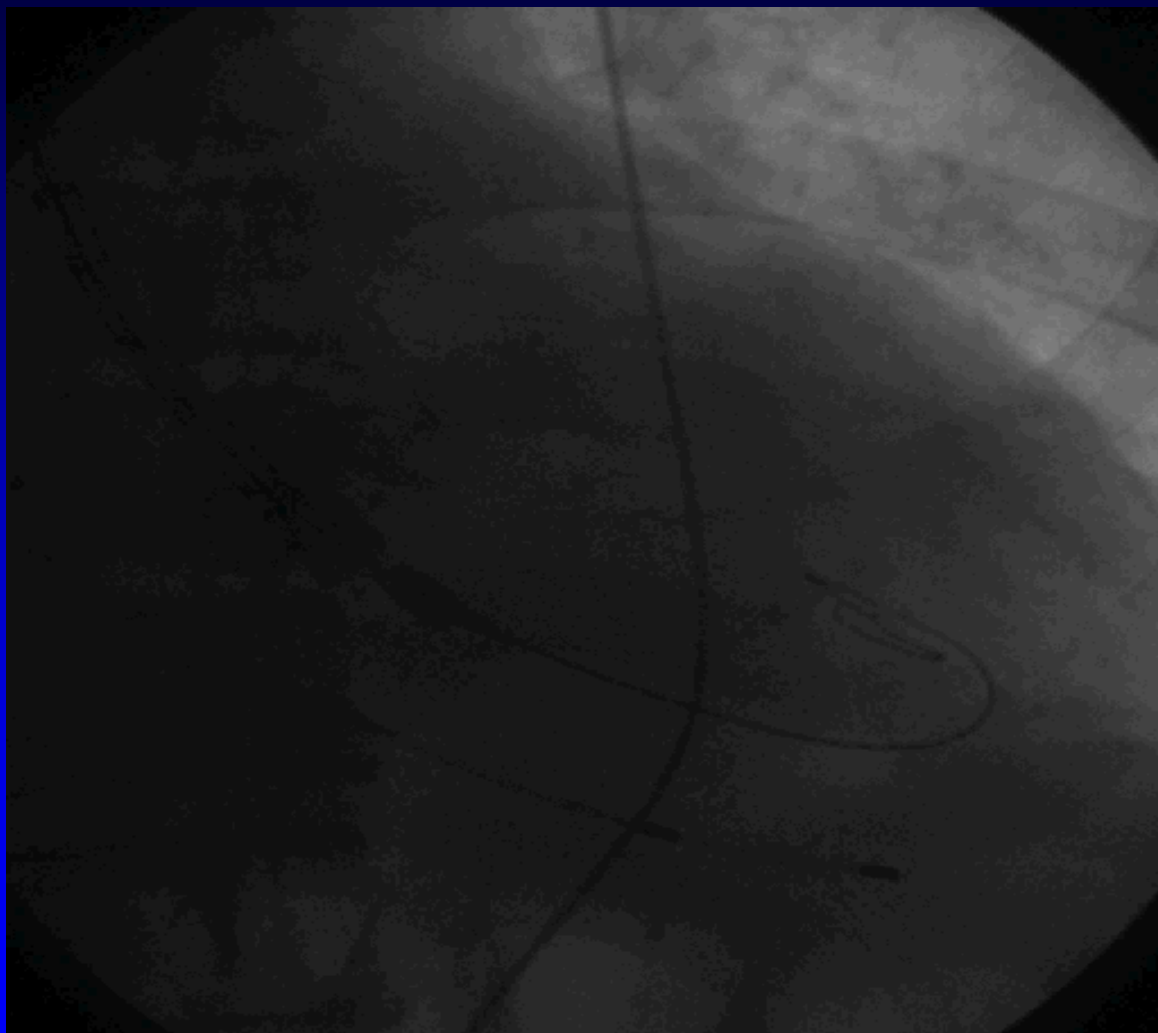
Rapid
ventricular
pacing at
160/min

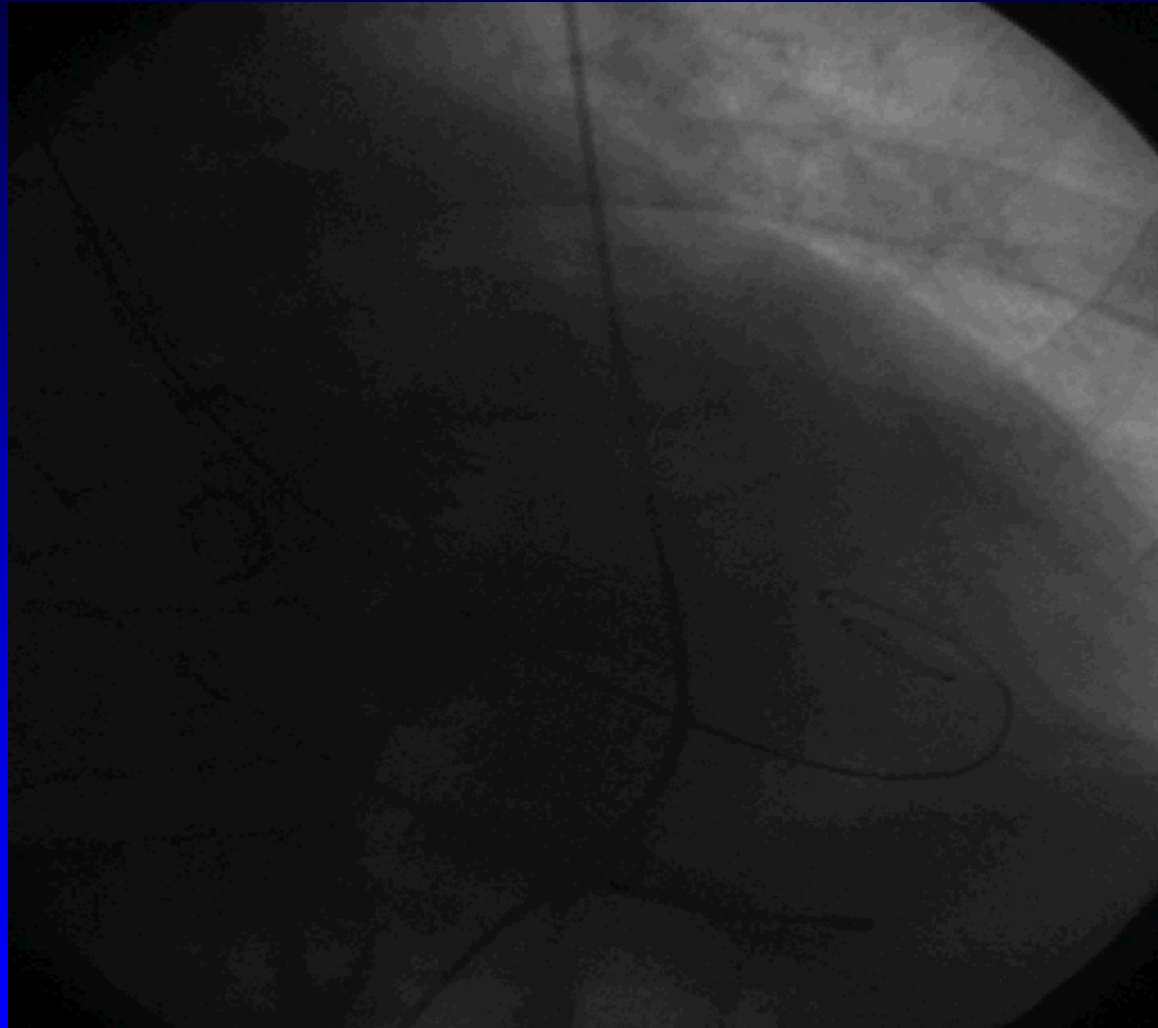


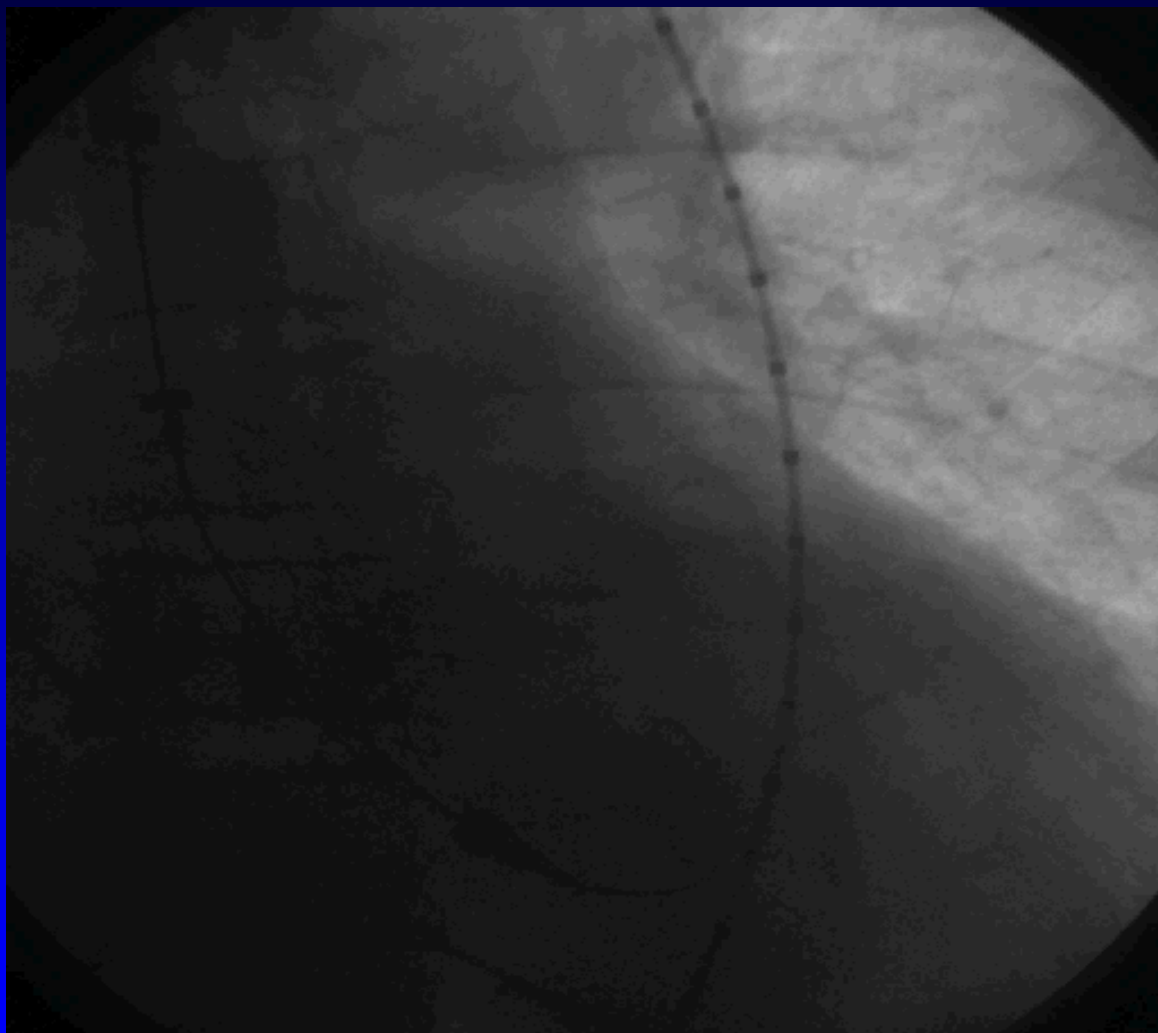
29mm
CoreValve

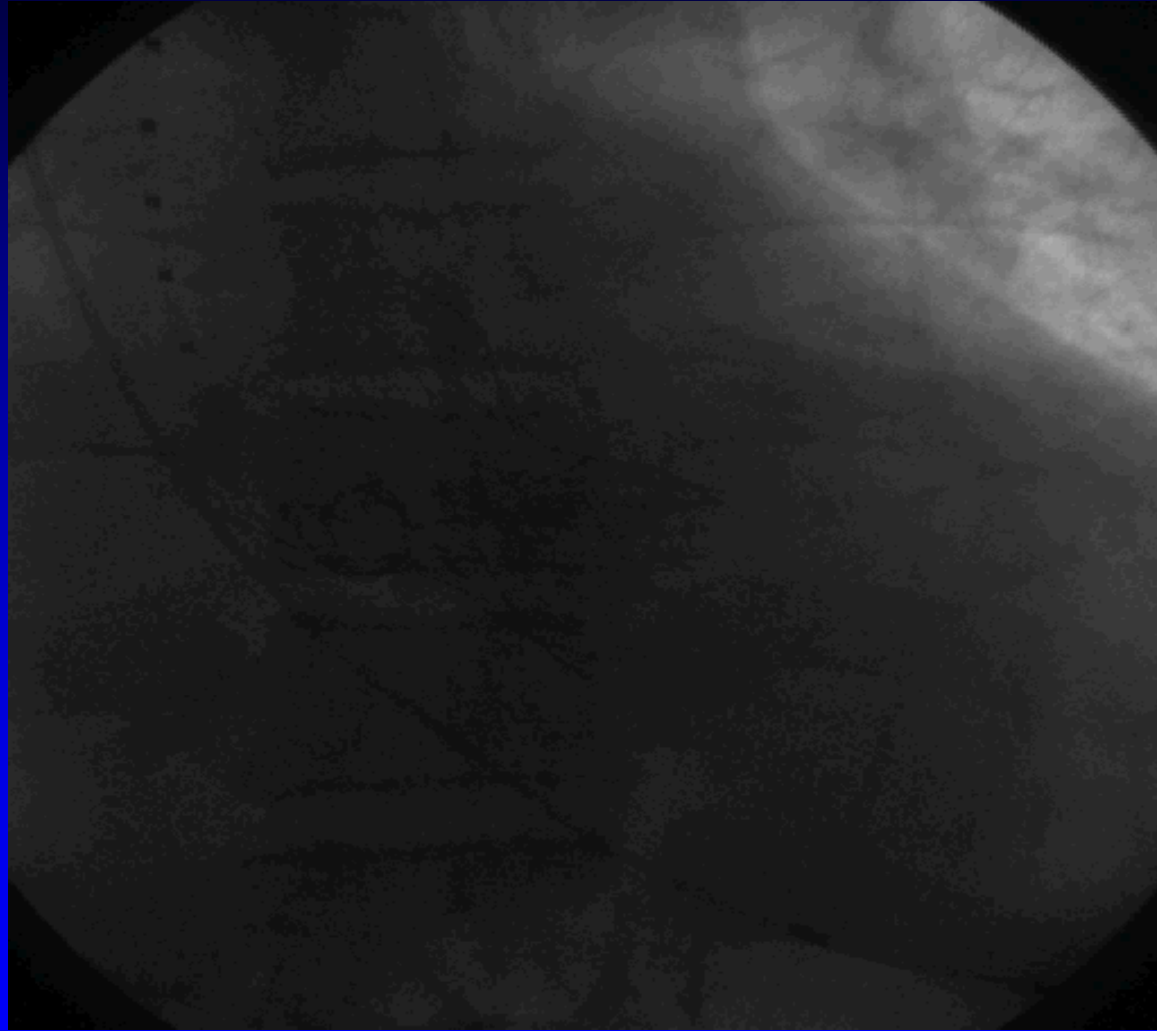






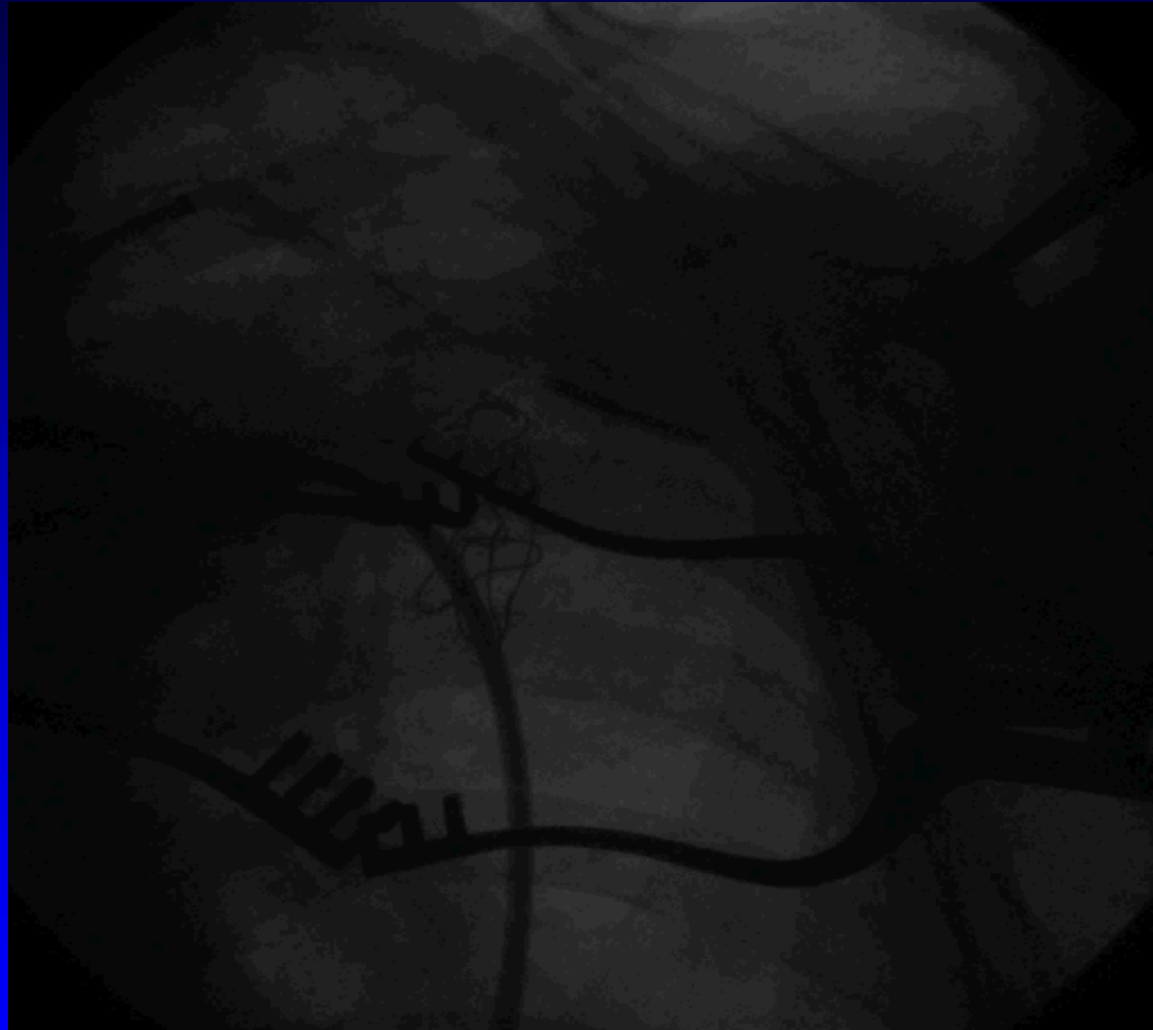


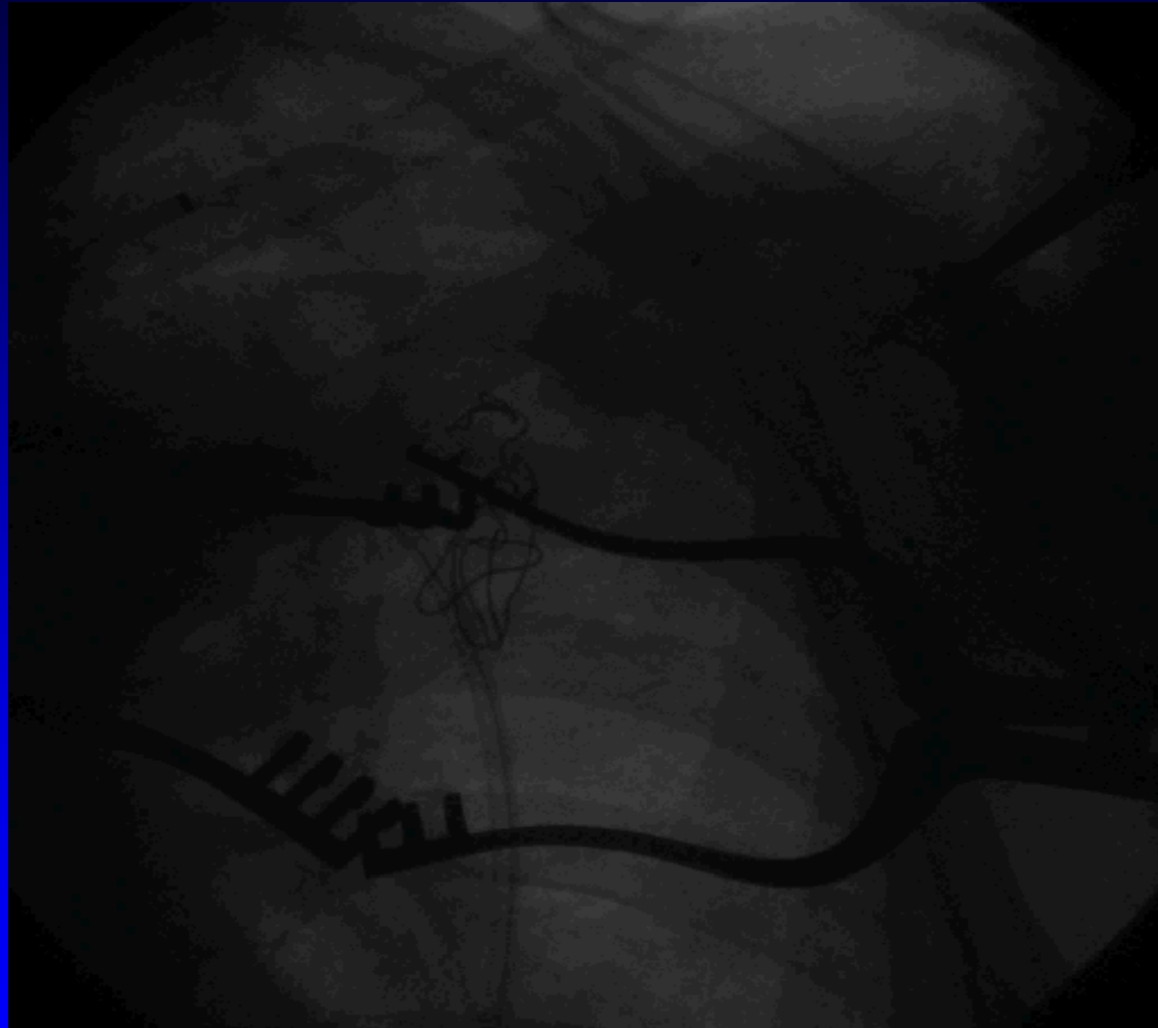




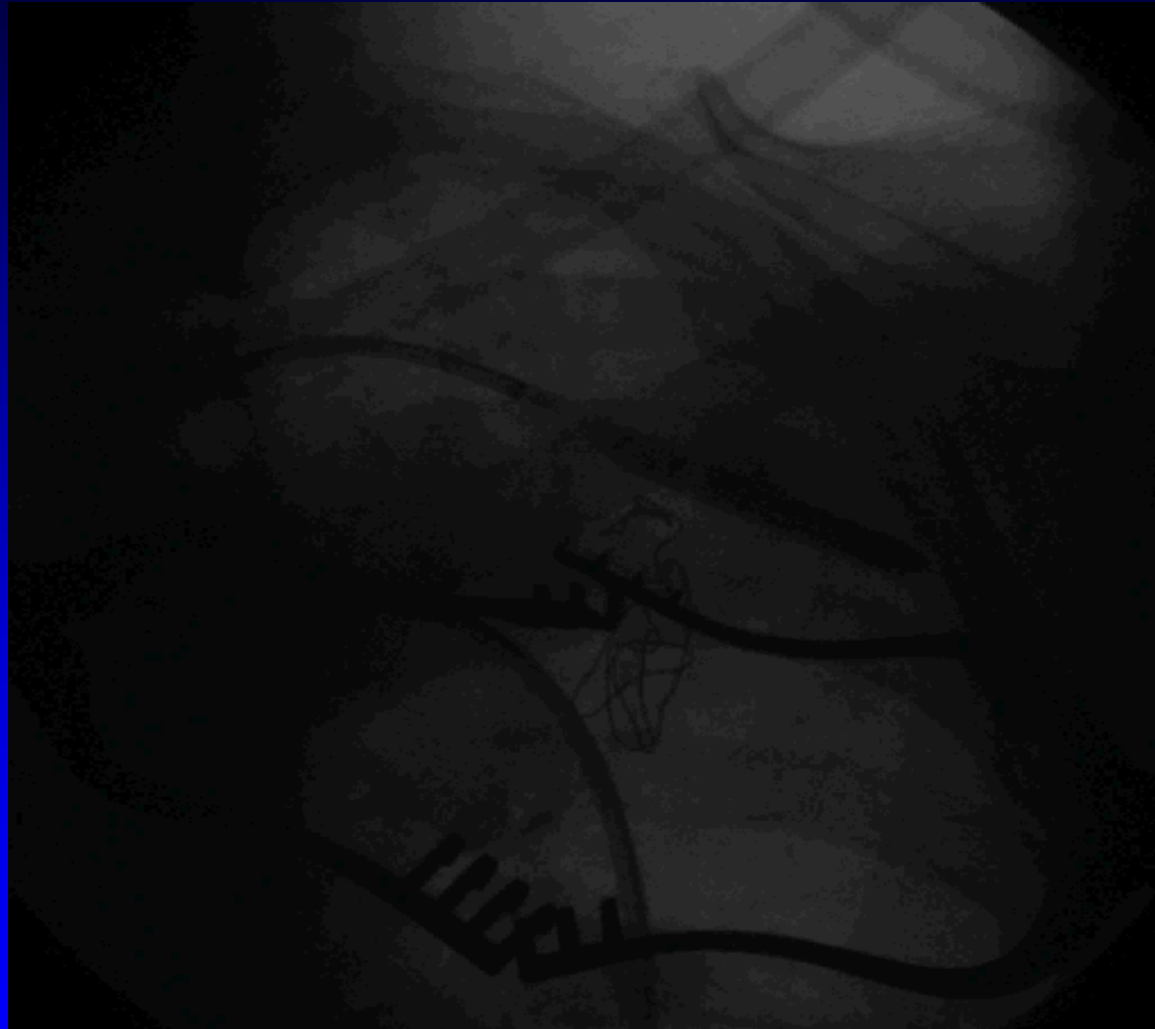


4.0x20
peripheral
balloon through
a 7F Shuttle
sheath





6.0x30
Peripheral stent
graft







1 year FU (Feb 2012)

- Mild SOB on exertion, no chest pain
- Regular morning exercise
- FC II
- Echo – EF 50%, AVA 2.02cm², Mean gradient 9.6mmHg, mild periprosthetic AR, mild to mod MR, mod TR



Algorithm for Bifurcation Lesion

