

Peripheral artery occlusive disease(From aorta to popliteal)

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Case 1

Aorta disease

**-antegrade via brachial artery,
subintimal approach, wire
retraction, kissing stent-**

- C.C : intermittent claudication (Fontain IIb)
- D : remote 2 years
- PHx : HTN (7 yrs),DM(2 yrs) on medication
- P.Ex: BP 130 / 90 mmHg HR 60 /min
- Lab : BUN/Cr 24.7/**1.5** mg/dL,
HbA1c 6.9 %
TC/TG/HDL/LDL 186/149/40/125 mg/dL

Aorta angioplasty (2004-10-27)



Aorta angioplasty subintimal technique



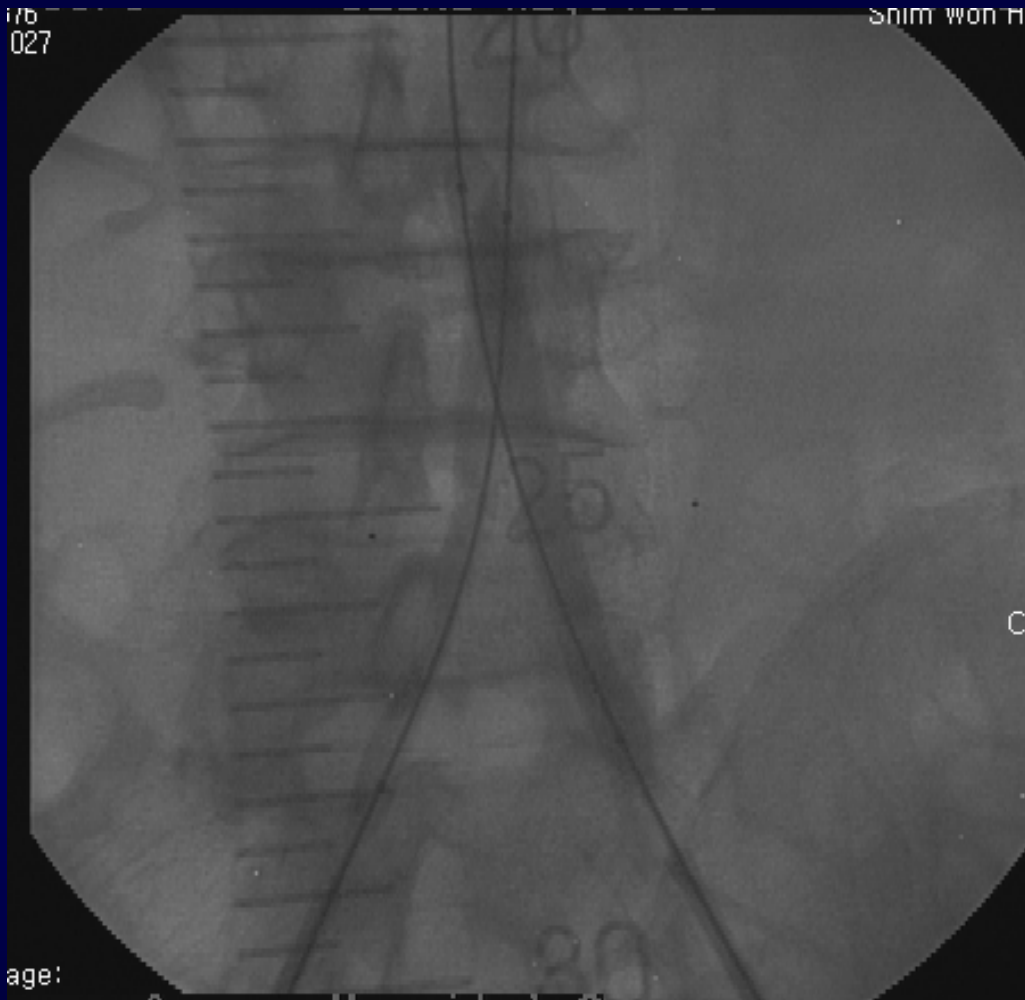
8Fr Shuttle sheath-035" Terumo Wire – J tip – subintimal approach to both iliac artery

Aorta angioplasty

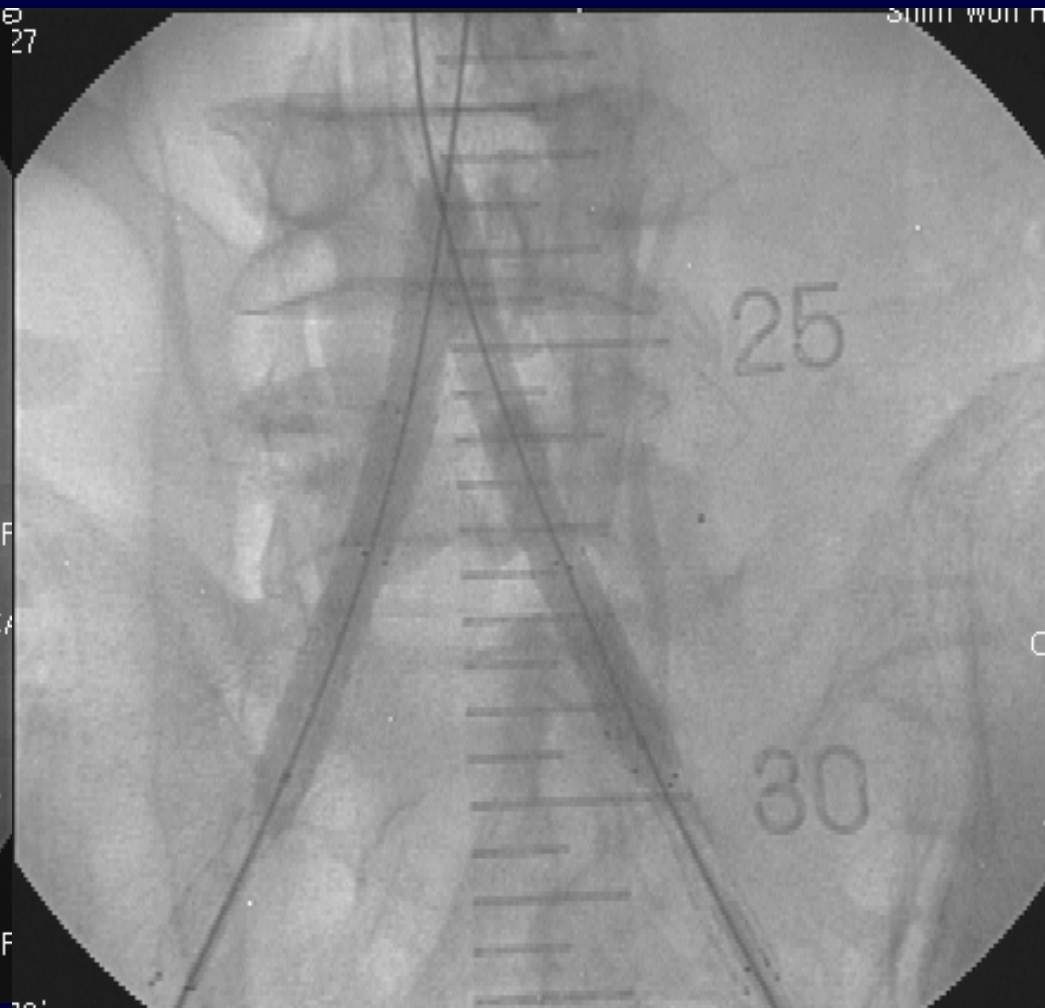
Wire retraction with SNARE catheter : Multi-SNARE 15 mm



Aorta angioplasty



Kissing stent
Zilver 8 X 80mm at both iliac artery

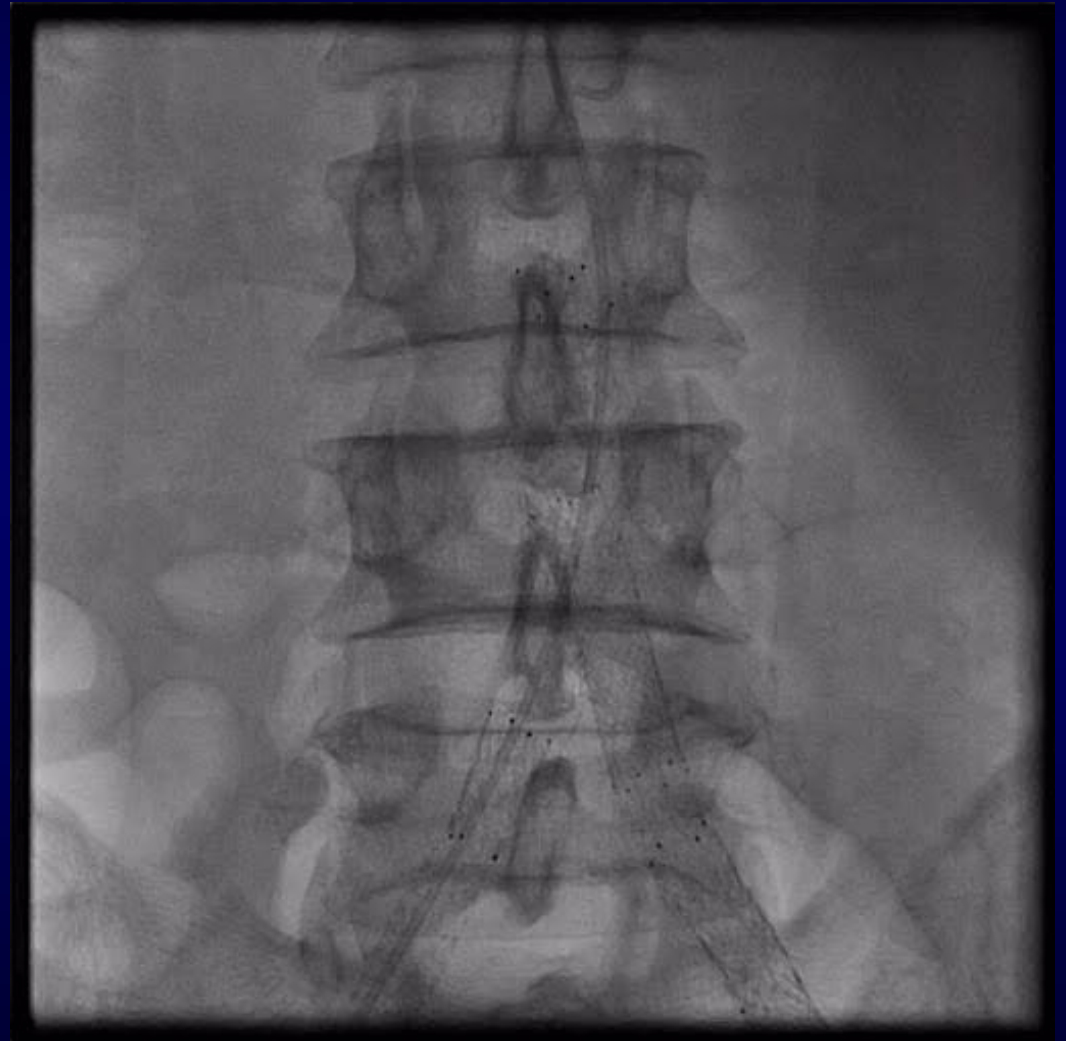


Kissing balloon angioplasty

Aorta angioplasty



Immediate final angiography



6 months follow up angiography

- **Guiding catheter**
- **Wire**
- **Balloon catheter**
- **Stent**
- **Etc.**

Case 2

**Superficial femoral artery
-contralateral approach,
subintimal approach-**

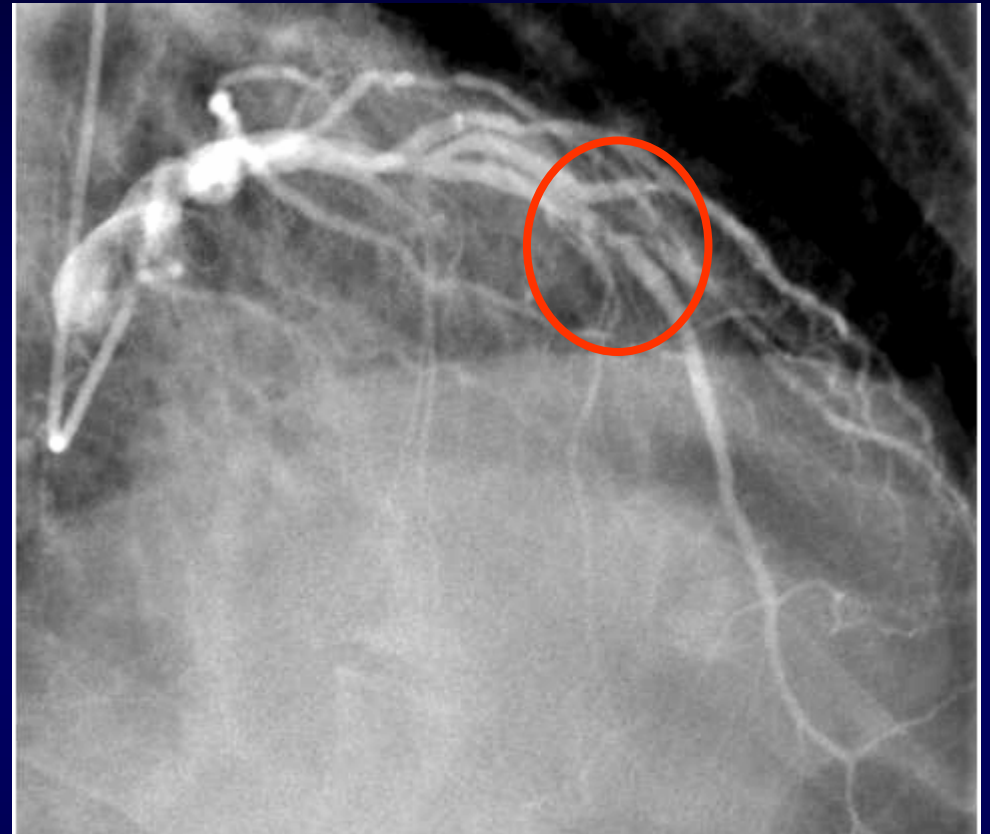
M/71

#3759212

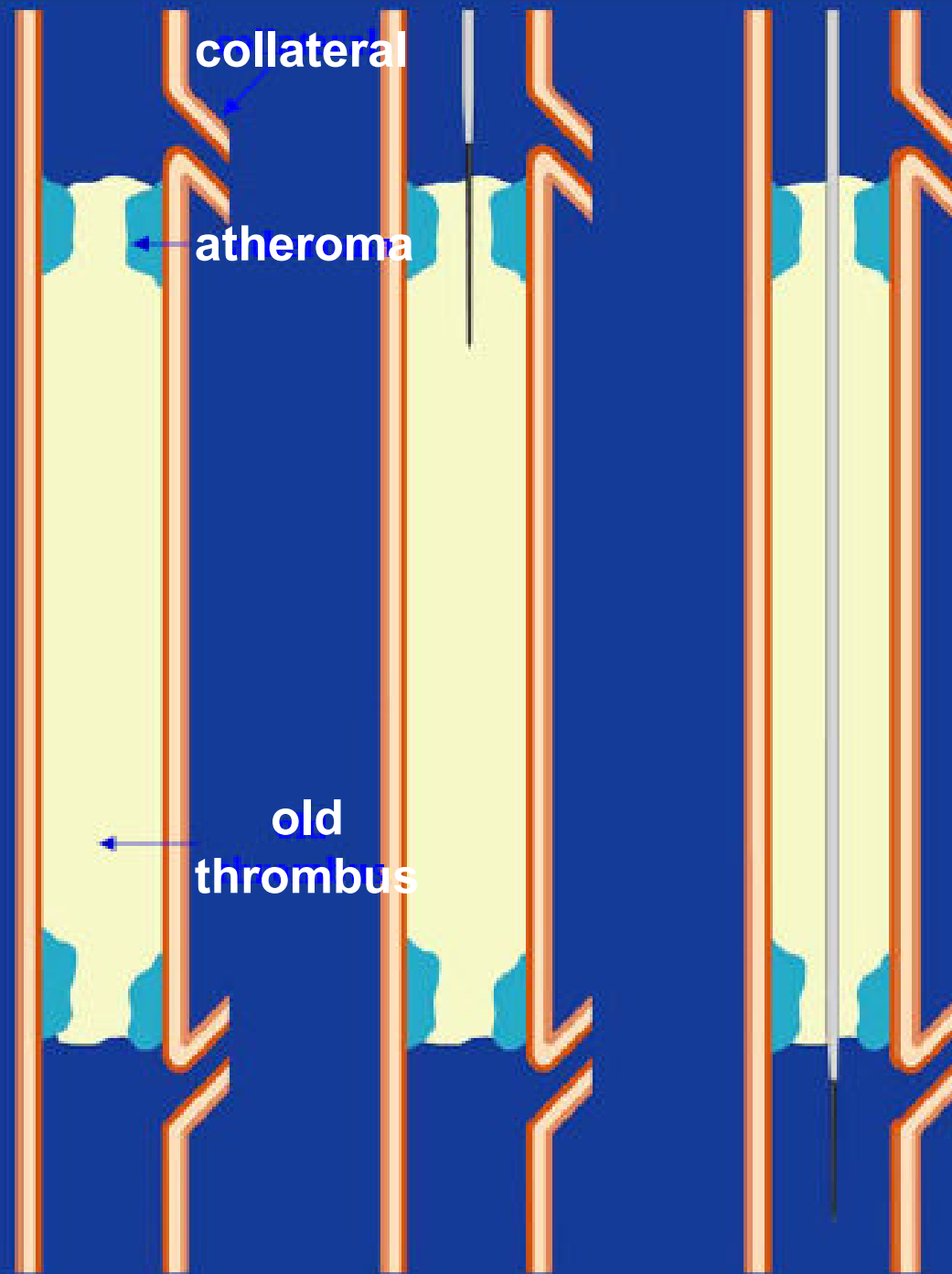
- **CC** : Aggravated Claudication of Lt. leg (20 m)
- **D** : 30 days, remotely for 1 year
- **PHx** : HTN (+) - 2 yrs
DM (+) - 4 yrs
CVA (+) - 2 yrs
- **P/Ex** : BP 140/70 mmHg,
Lt. popliteal & dorsalis pedis a. - not palpable
- **Lab** : AC glc 120 mg/dL, HbA1c 7.7%
BUN/Cr 17.0/1.1 mg/dL
T.chol/TG/HDL/ LDL 200/72/50/136 mg/dL



HD # 3 : C-angio

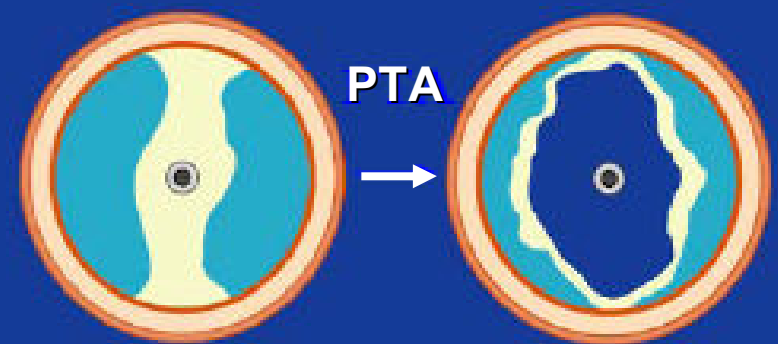


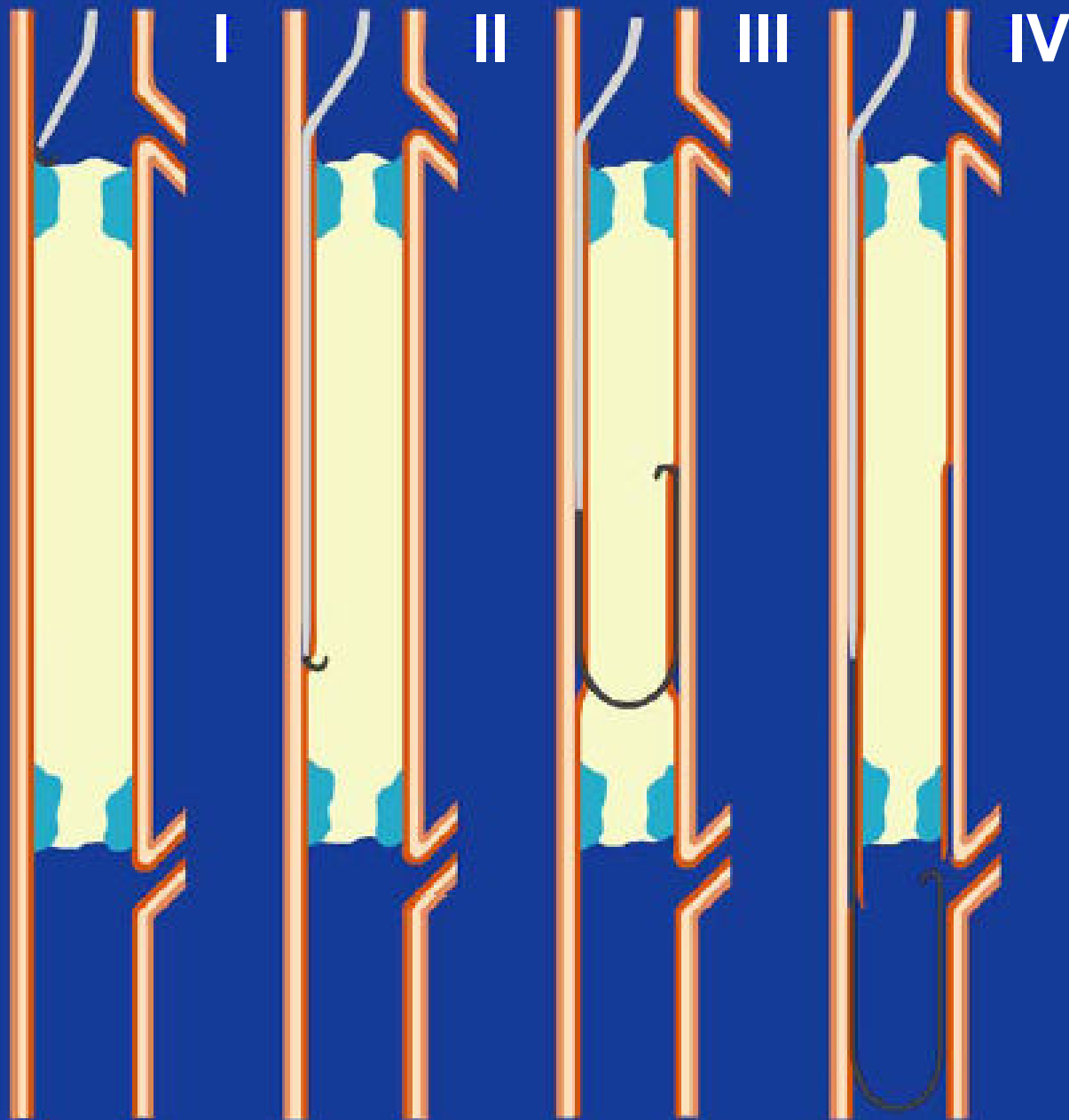
CAD (1-vessel disease)
→ PTCA with stenting
at d-LAD



Intraluminal Femoral Angioplasty

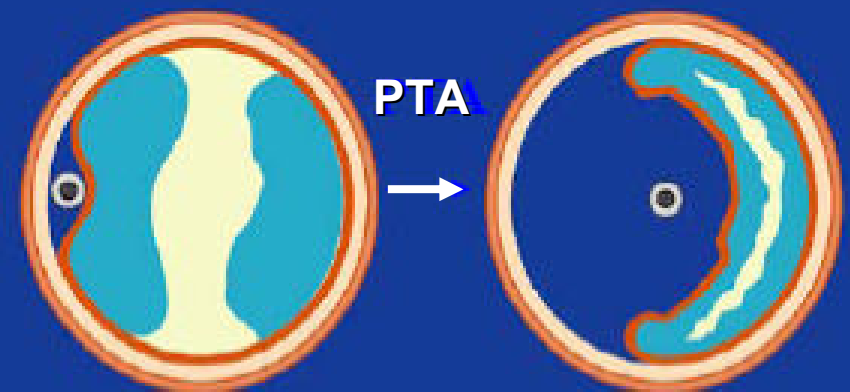
Cross-section



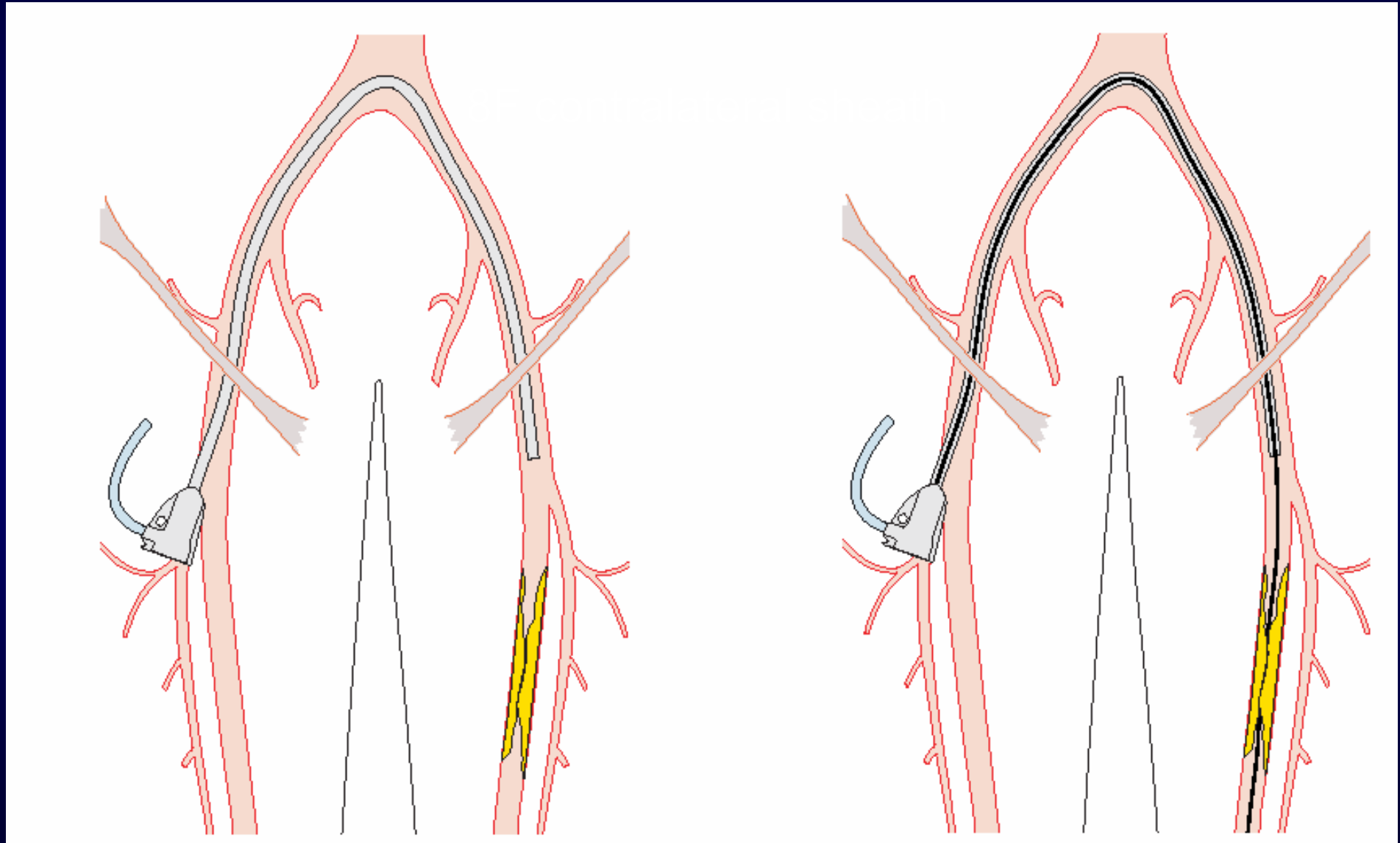


Subintimal Femoral Angioplasty

Cross-section



HD #5 : PTA via contralateral approach



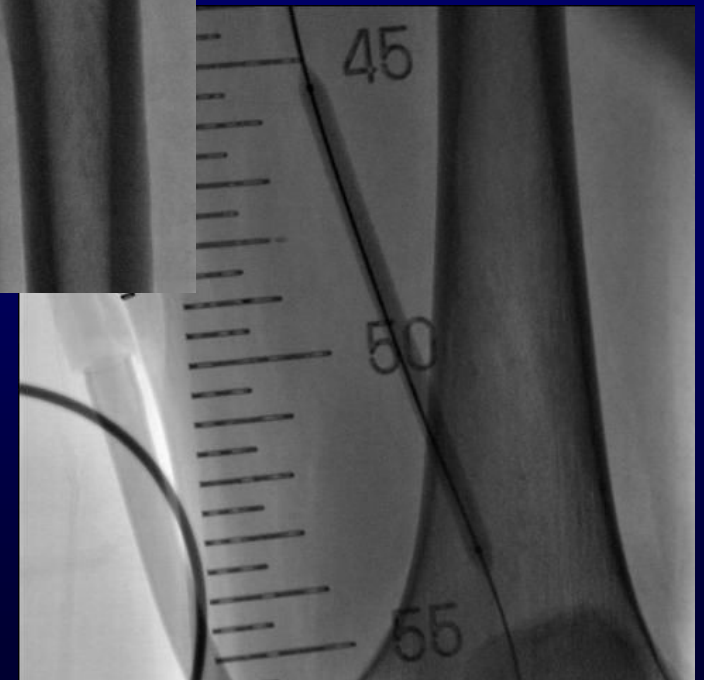
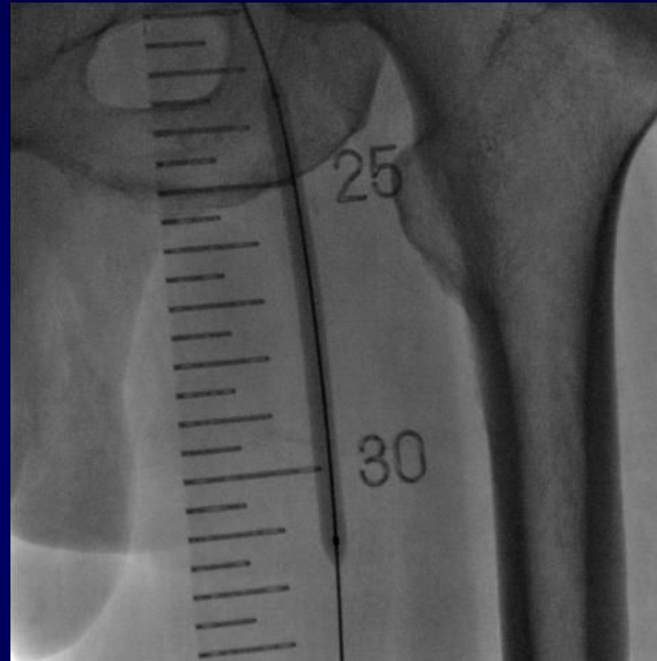
Lt. lower limb arteries



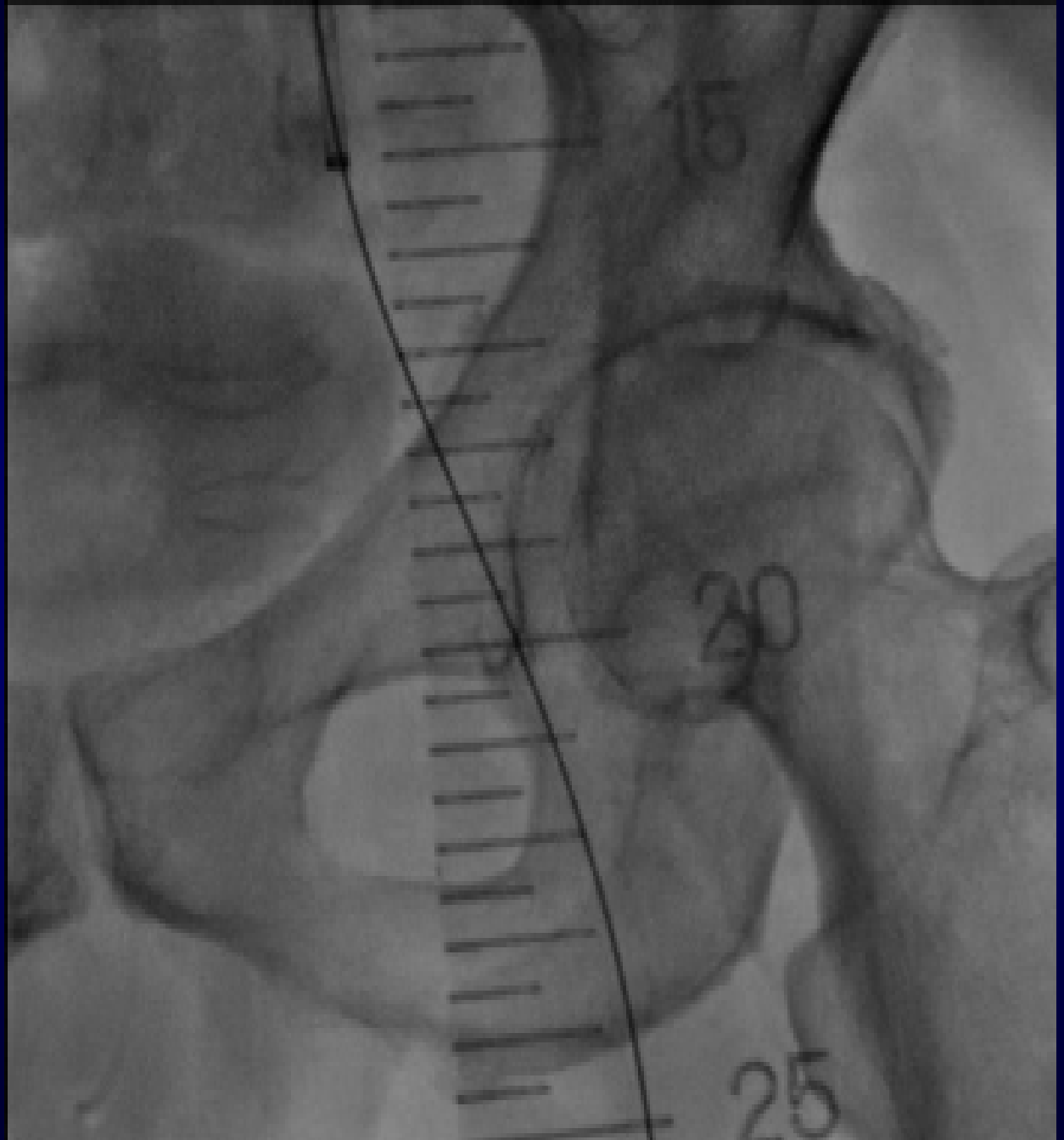
**035" Terumo wire &
5F multipurpose catheter**



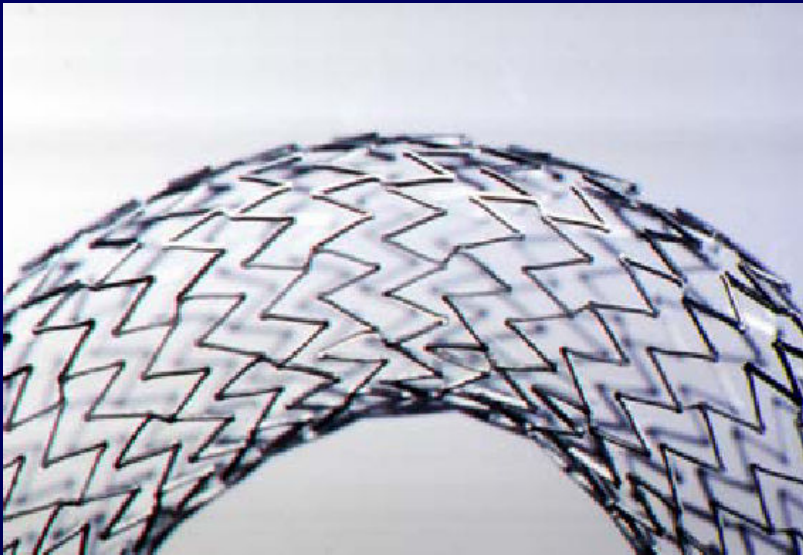
**035" Stiff wire &
6 x 100 UTD balloon**



Angio after balloon dilatation



**Self-expandable
Nitinol stent :
SMART (Cordis)**



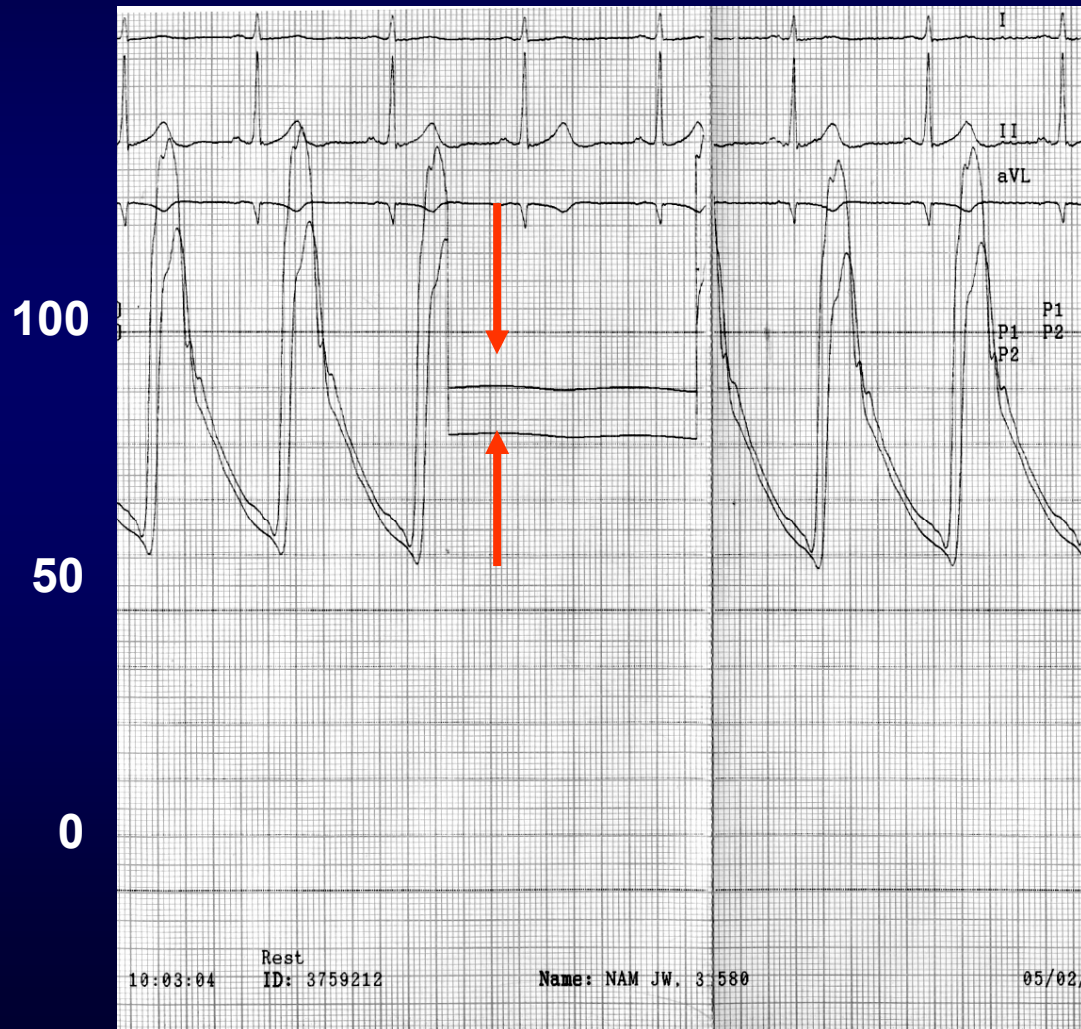
7 x 80 mm



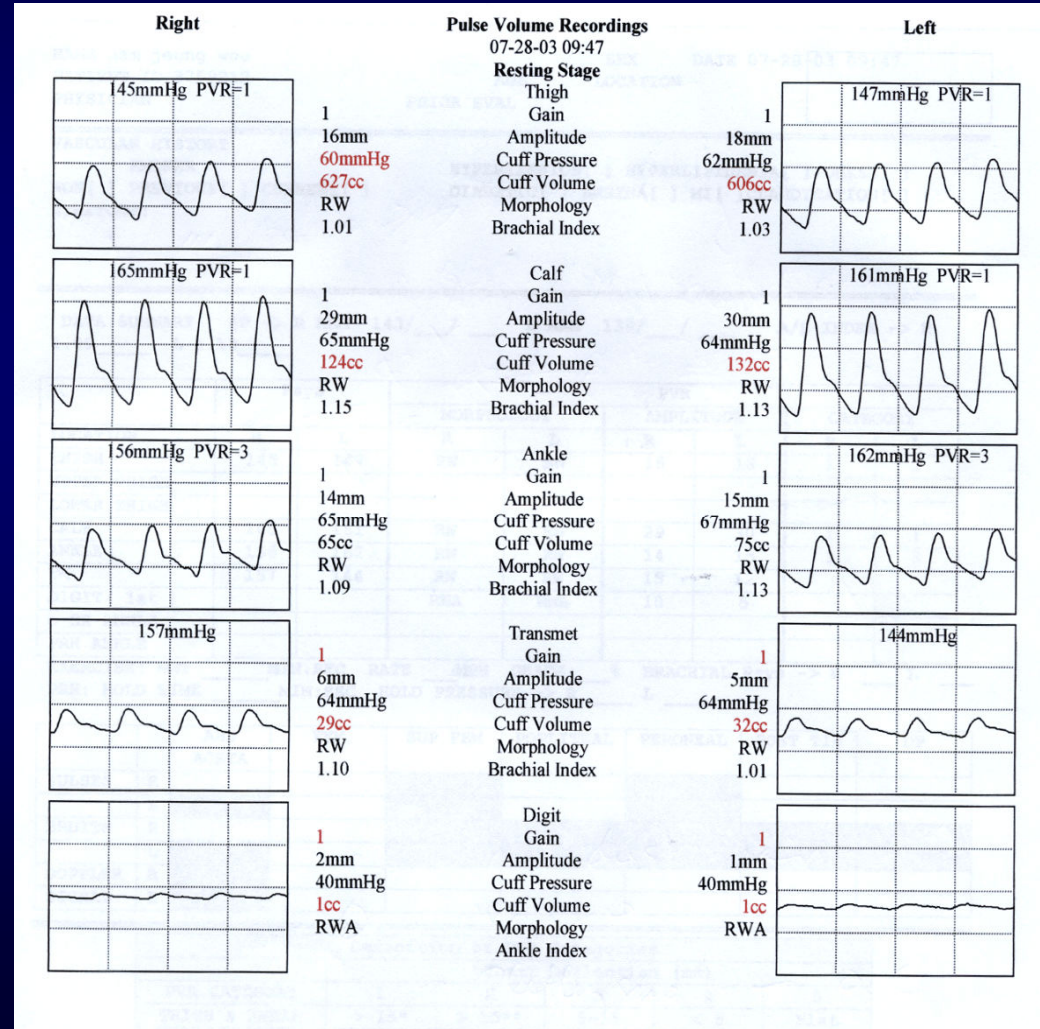
**Angio after
Additional ballooning**



Pressure gradient after PTA



Plethysmography 3 months later



- **Guiding catheter**
- **Wire**
- **Balloon catheter**
- **Stent**
- **Etc.**

Case 3

**Superficial femoral &
Popliteal artery
-antegrade approach,
intraluminal approach-**

M/35

#3937666

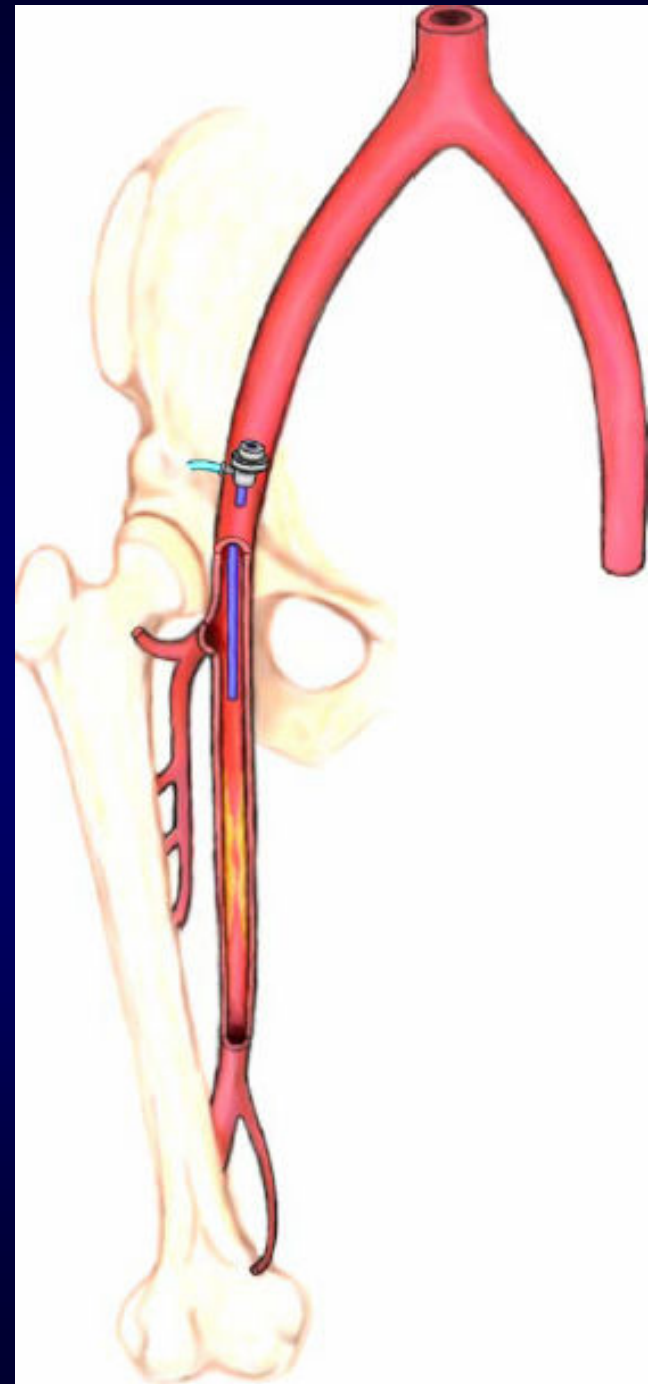
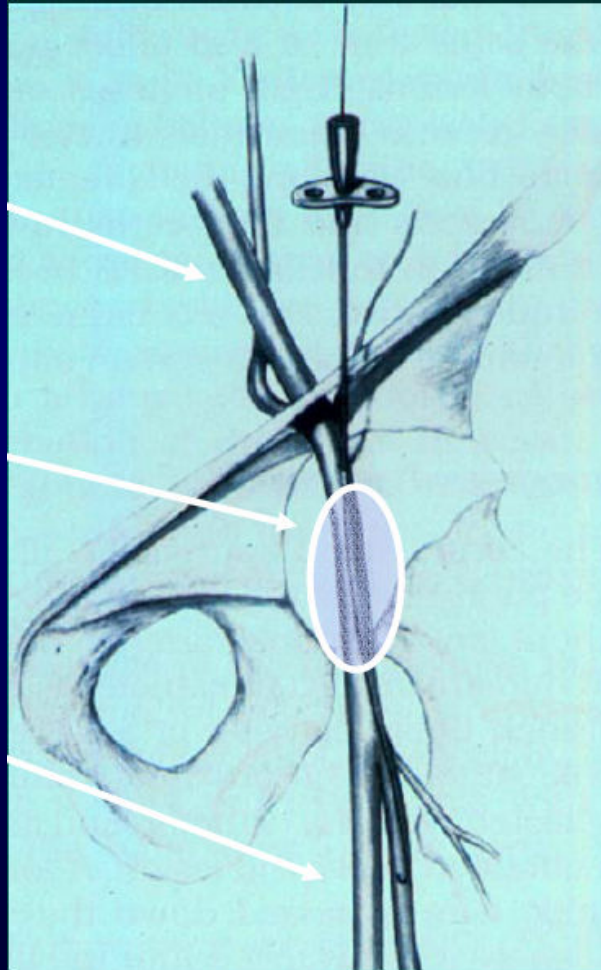
- **CC : Claudication of Lt. leg (Fontaine IIb)**
- **D : 4 years**
- **PHx : HTN (-), DM (-)**
Smoking (+) - 10 PYs
- **P/Ex : BP 130/70 mmHg**
Lt. popliteal & dorsalis pedis a. - not palpable
- **Lab : Glc 88 mg/dL, BUN/Cr 14.3/0.8 mg/dL**
T.chol/TG/HDL/ LDL 187/282/29/102 mg/dL

Antegrade Approach

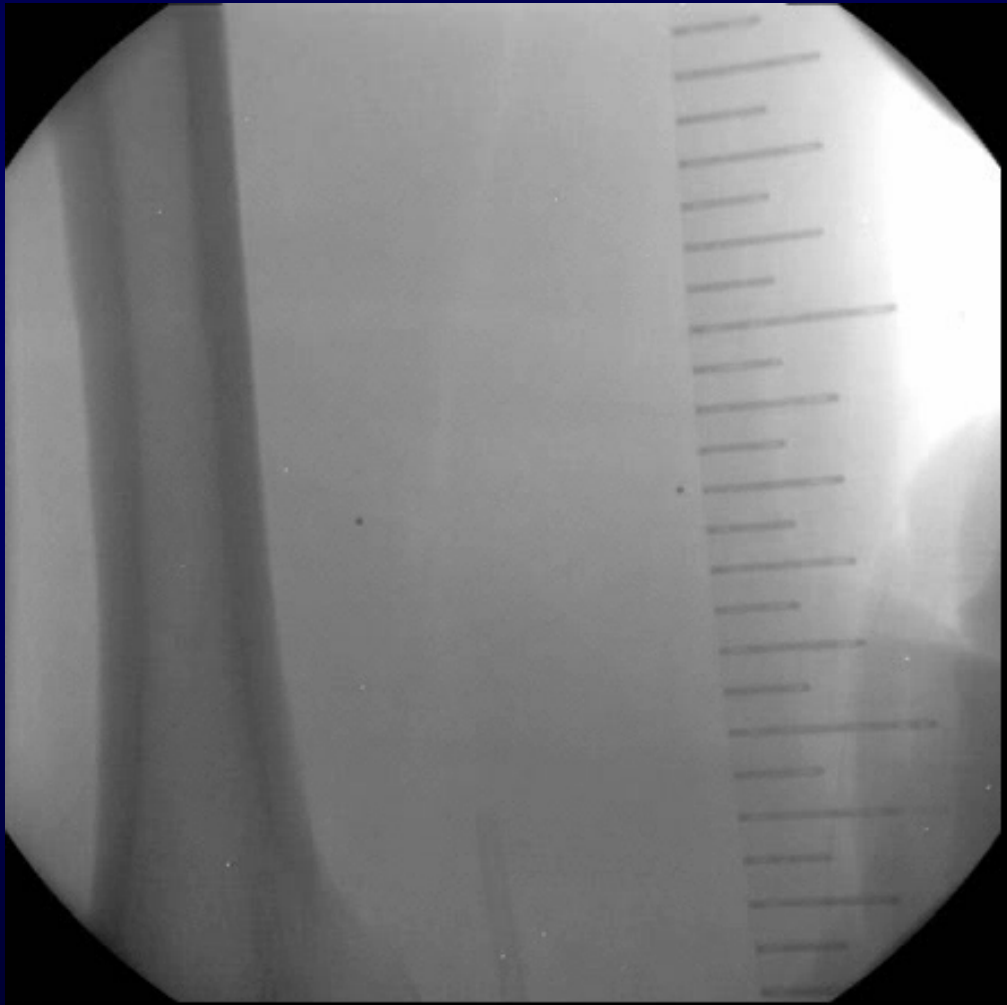
Ext. Iliac a.

Com. femoral a.

Sup. femoral a.



8 Fr Sheath



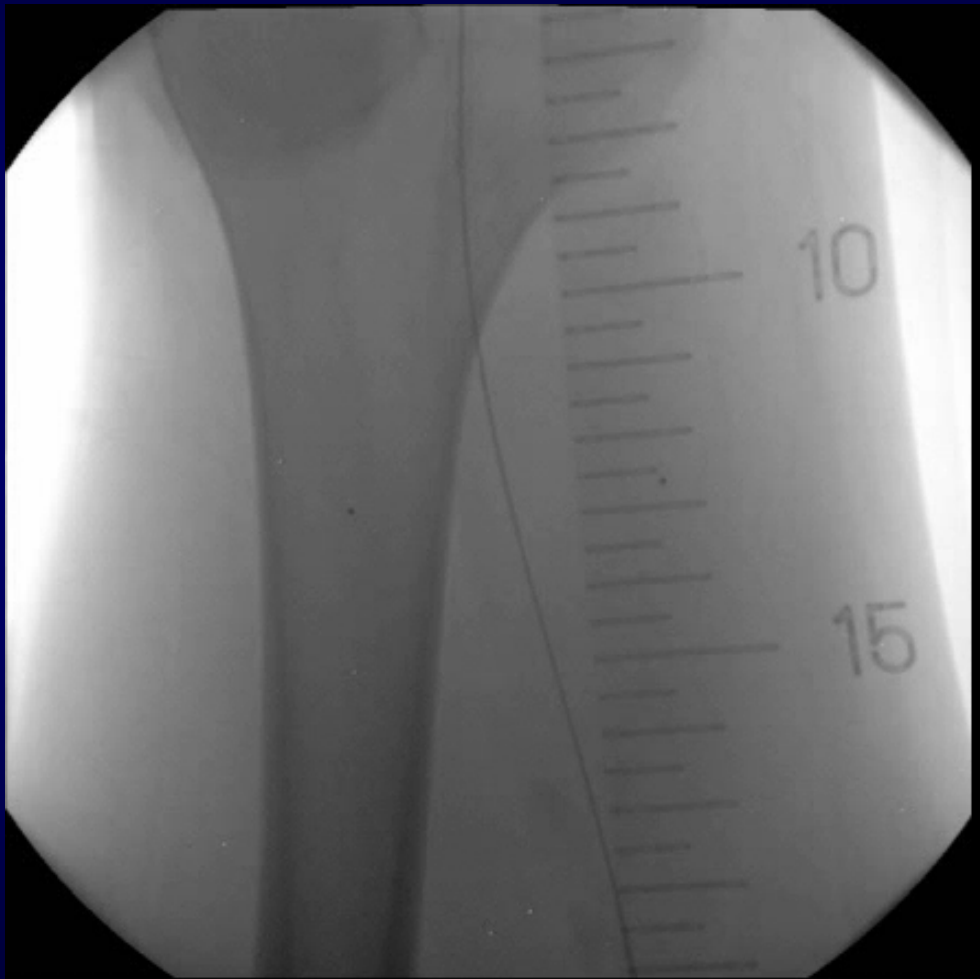
035" Terumo J wire & 5F Multipurpose catheter



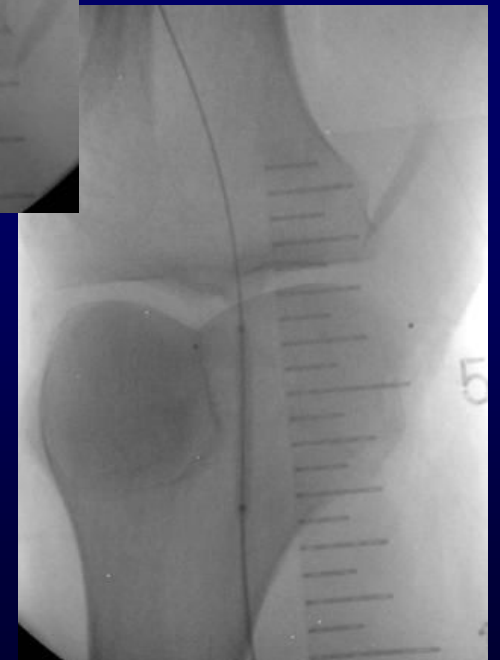
After passage of 035" Terumo wire & Multipurpose catheter



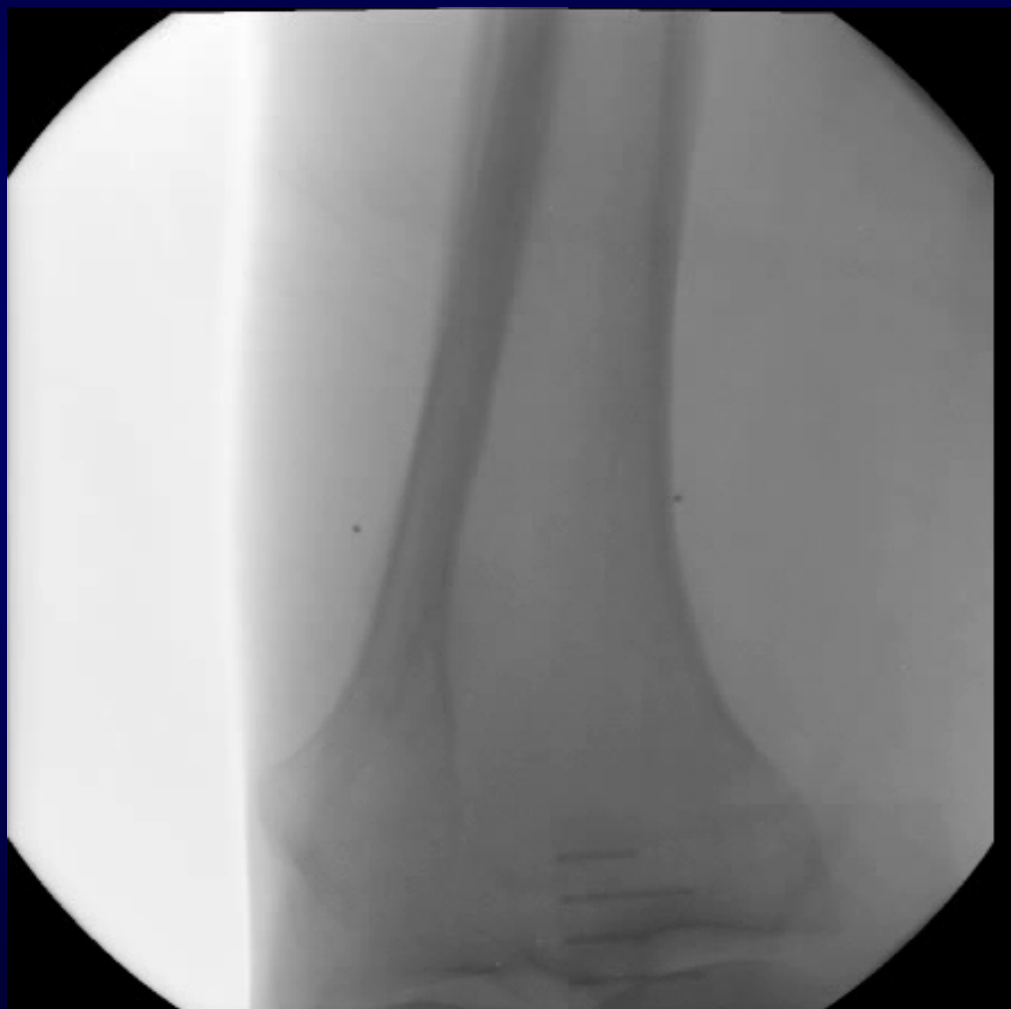
035" Terumo wire



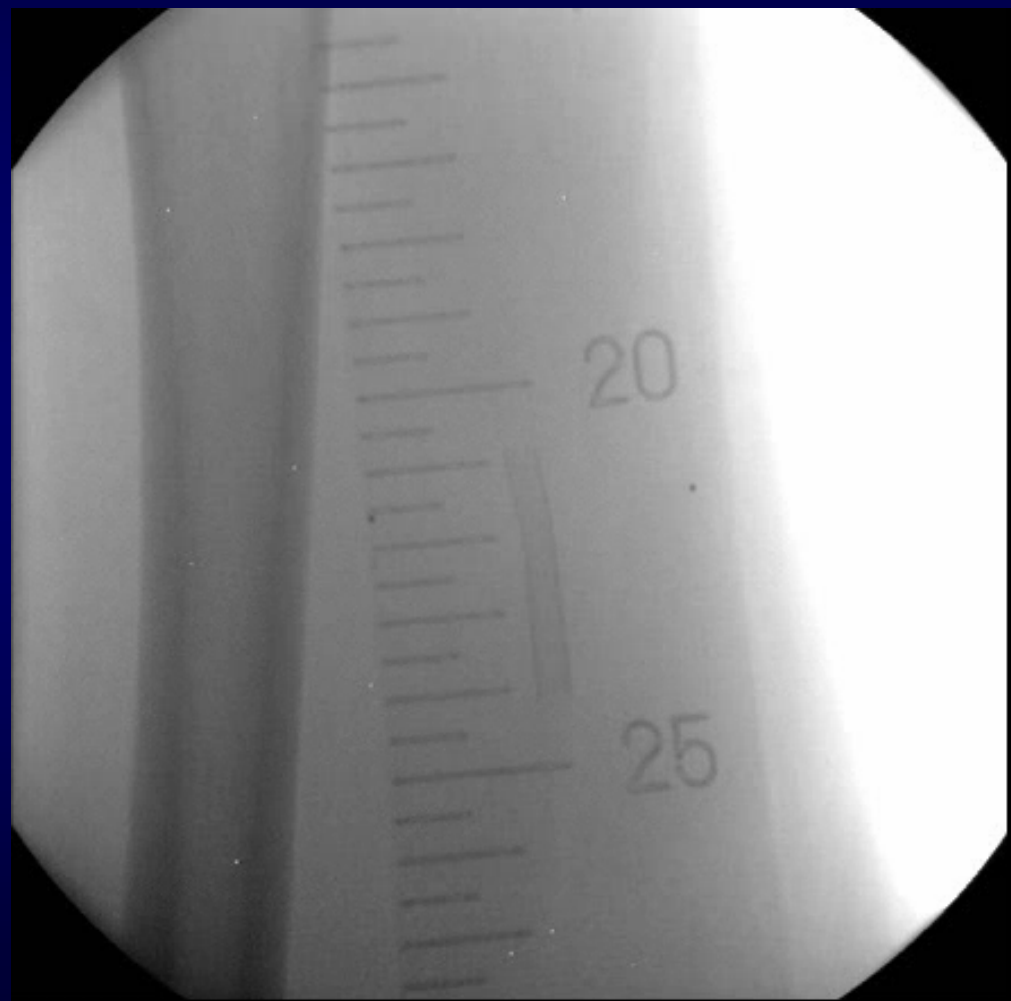
PTA with UTD 4 x 40 mm



After balloon dilatation



SMART 6 x 40 mm



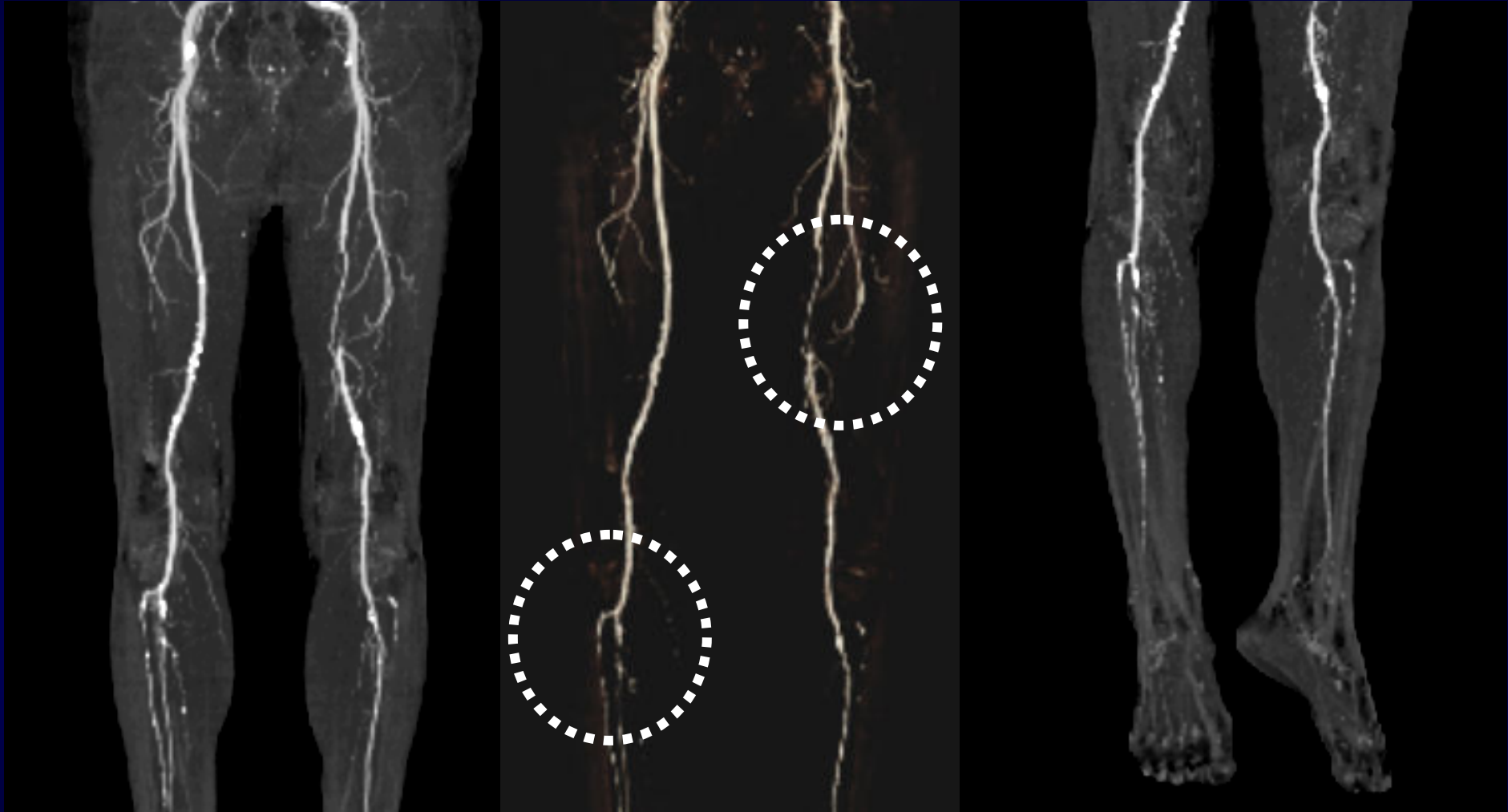
- **Guiding catheter**
- **Wire**
- **Balloon catheter**
- **Stent**
- **Etc.**

Case 4

Popliteal artery
-contralateral approach,
intraluminal approach-

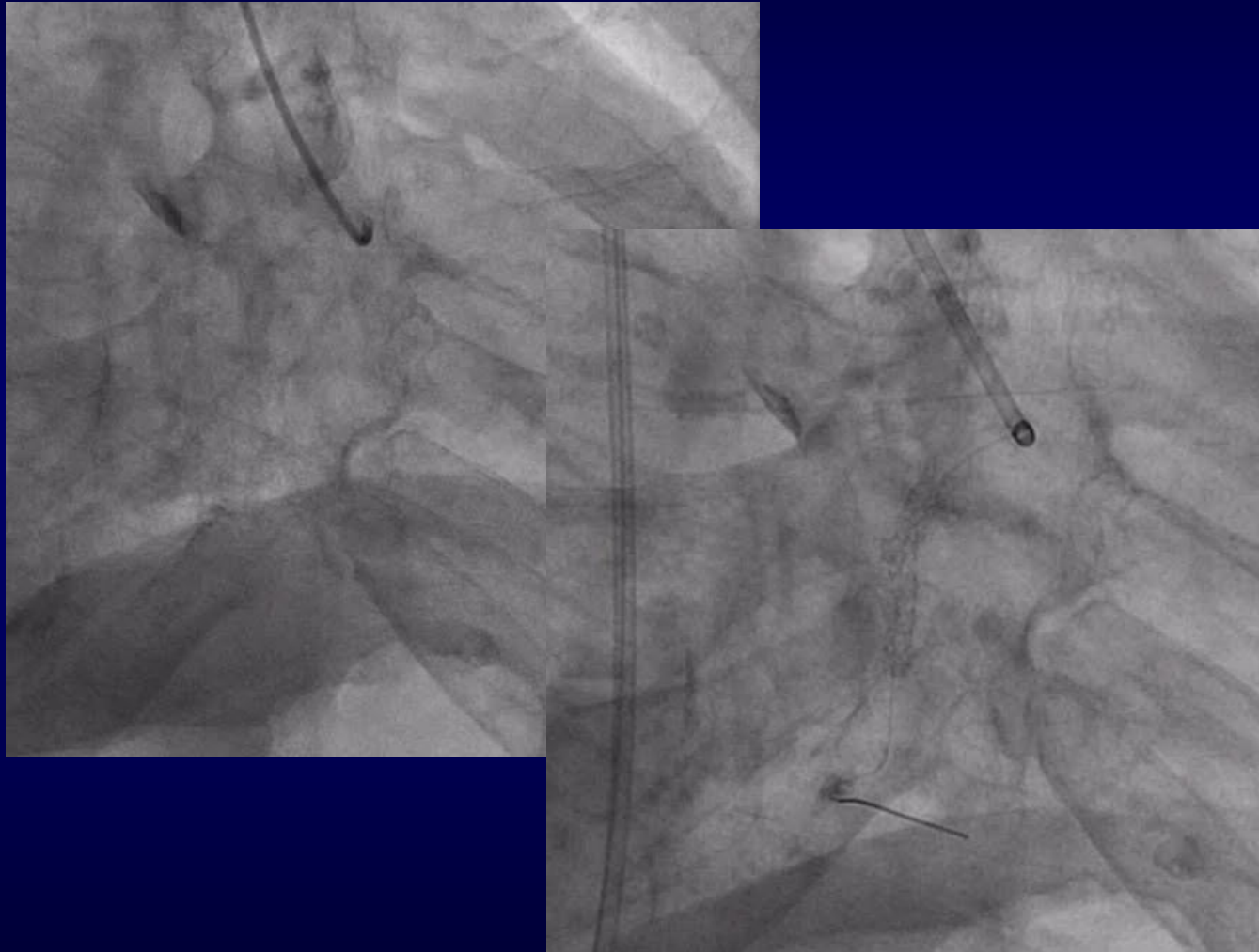
- C.C : Intermittent claudication (Fontain IIb)
- D : 6 months
- PHx : HTN (15 yrs), DM(15 yrs) on medication
- PEx : BP 130 / 90 mmHg HR 80 /min
- Lab : BUN/Cr 20.3/**1.3** mg/dL,
HbA1c 6.9 %
TC/TG/HDL/LDL 134/143/55/74 mg/dL

Lower Extremity CT Angiography



**Lt. SFA, distal portion obstruction , Rt. PTA obstruction,
Rt. ATA|| multifocal stenosis**

PTCA at RCA and PTA at Lt.SFA



cypher 3.0 * 28 mm



Powerflex 5 X 40 mm
SMART 6X100 mm

Peripheral angioplasty : Rt. PTA



014" G/W
PTCA balloon 3.0X 20 mm



Cypher 3.0X33 mm

Peripheral angioplasty

1042712

KIM,SINGWON

12JUL06



Name of your Hospital,C

1042712

KIM,SINGWON

12JUL06



Name of your Hospital,C

Case 5

Aorta

-antegrade approach,
intraluminal approach,
thrombolysis-

F / 68

5205007

- **C.C : Claudication (Ilb), both leg paresthesia**
- **D : 1 week**
- **PHx : HTN (10 yrs) on medication**
- **P.Ex: BP 130 / 80 mmHg HR 62 /min**
- **Lab : BUN/Cr 3.7/ 0.6 mg/dL,**

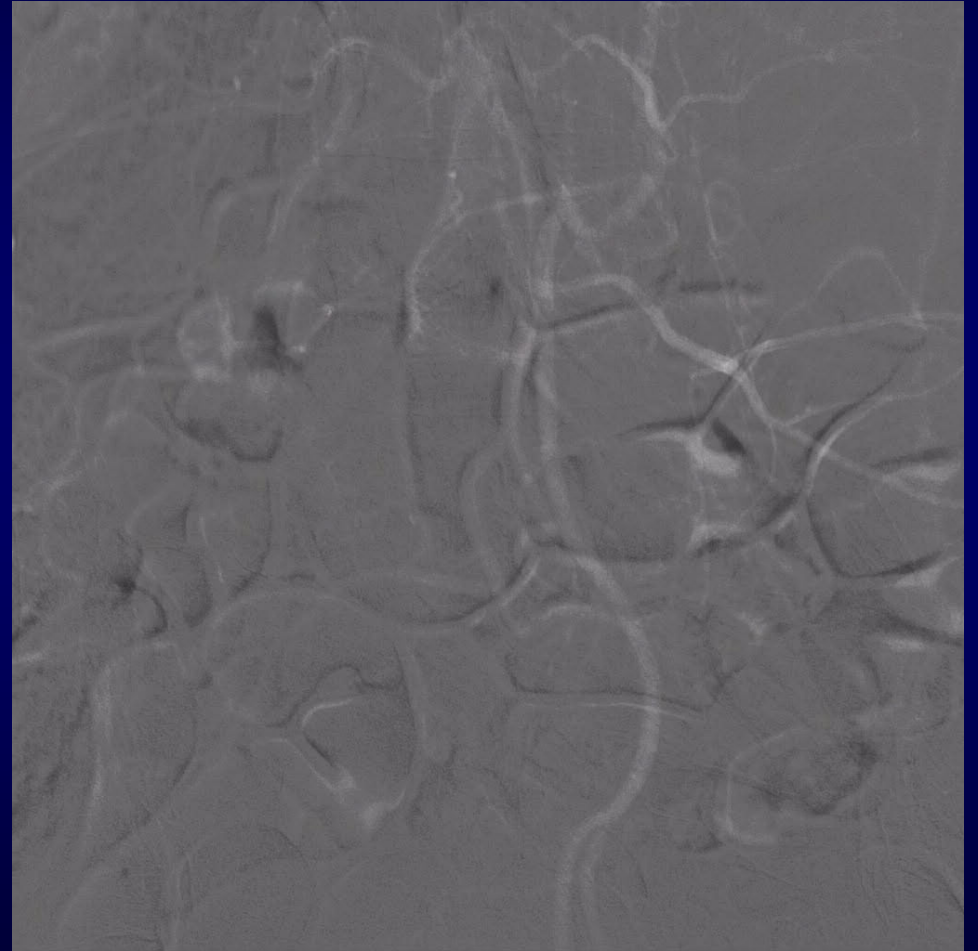
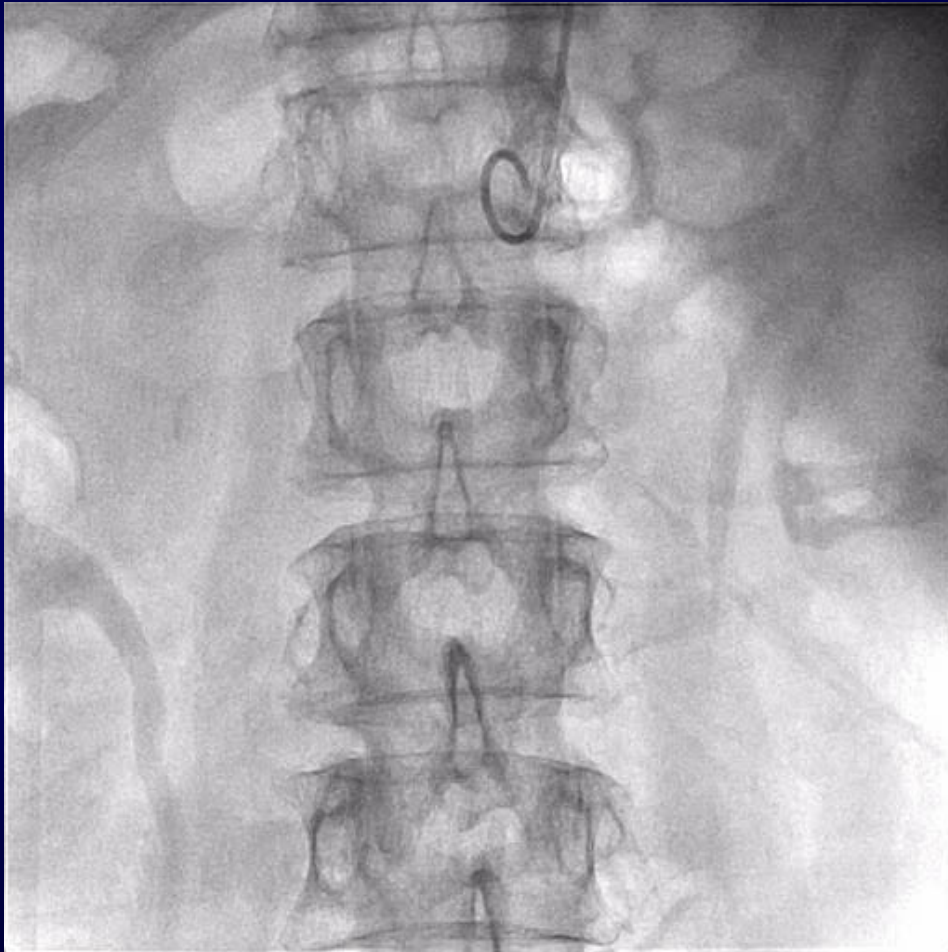
CT Aorta (07.3.29)



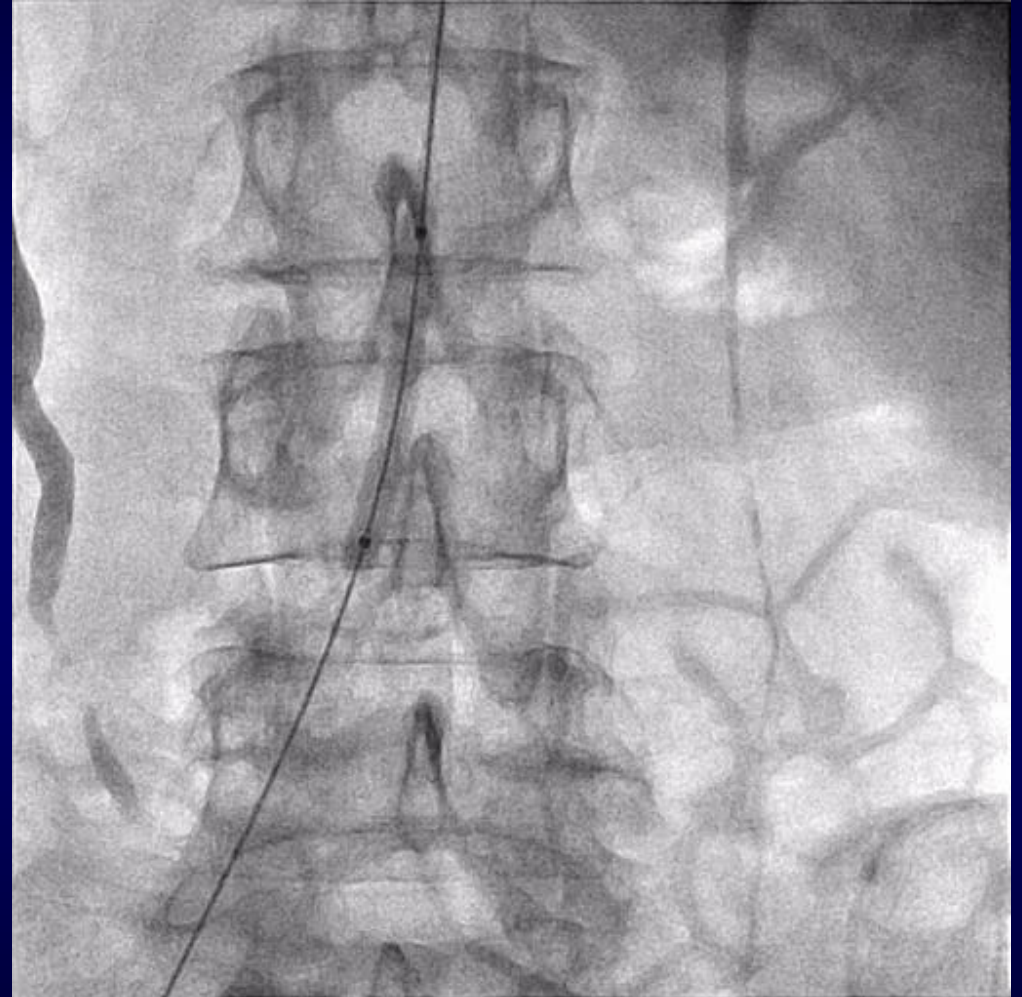
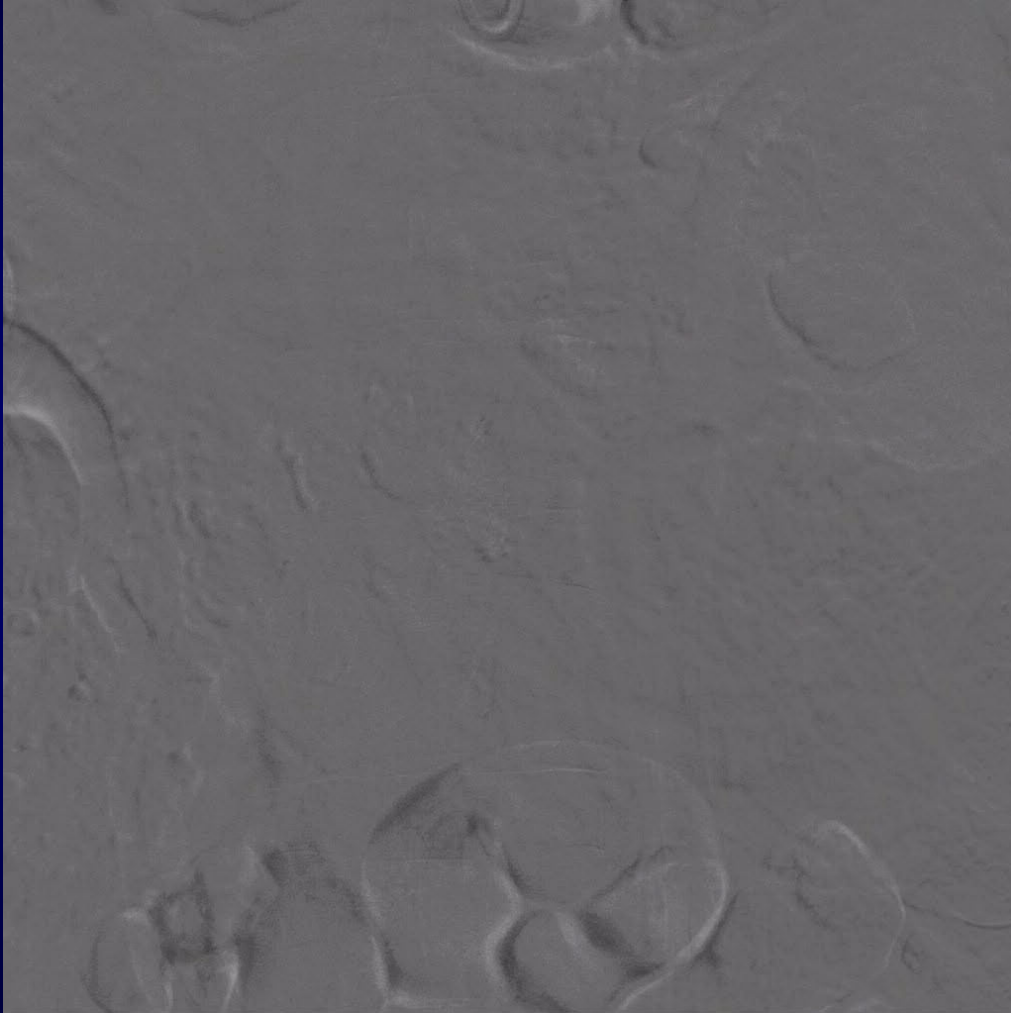
CT Aorta (07.3.29)



Aorta angioplasty (2007-3-29)

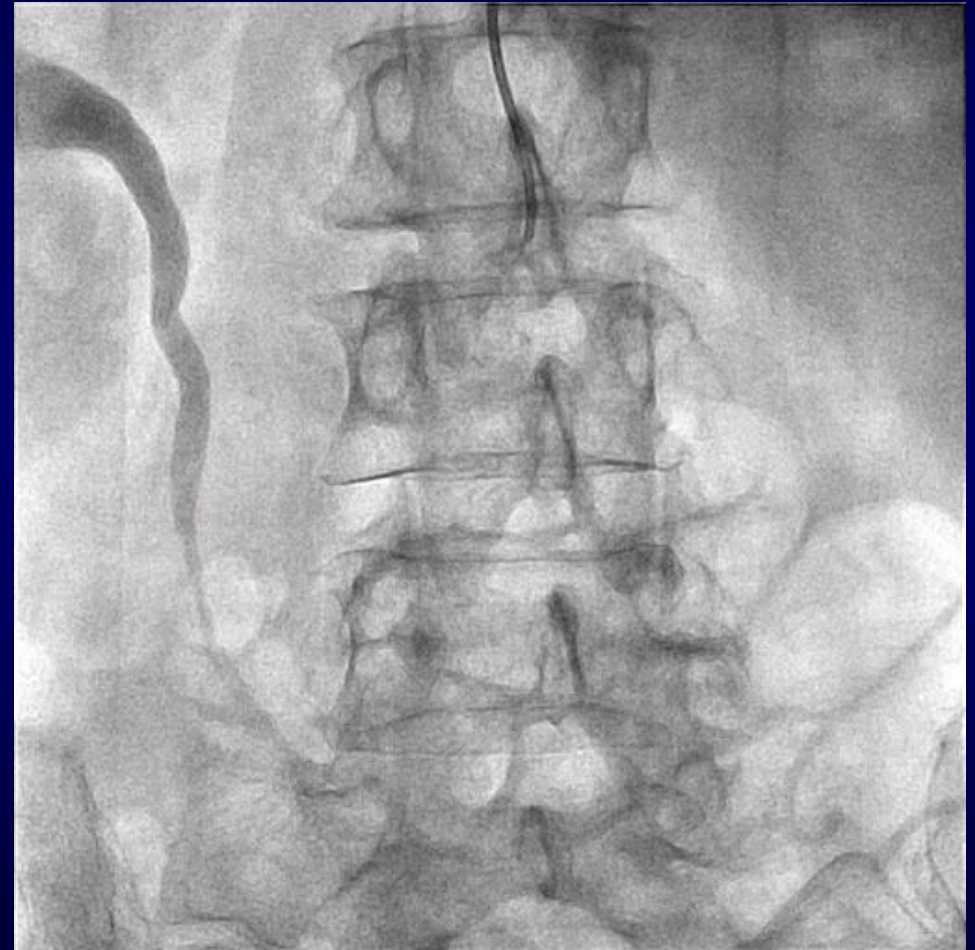
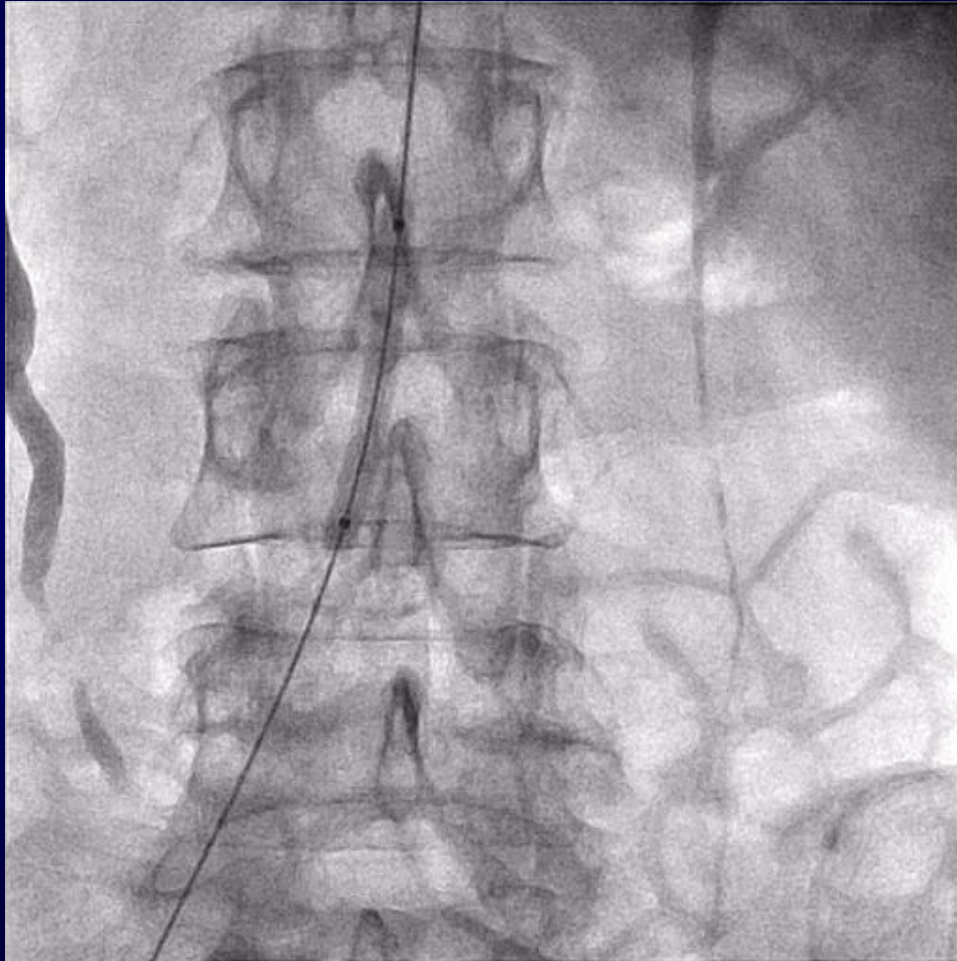


Aorta angioplasty (2007-3-29)



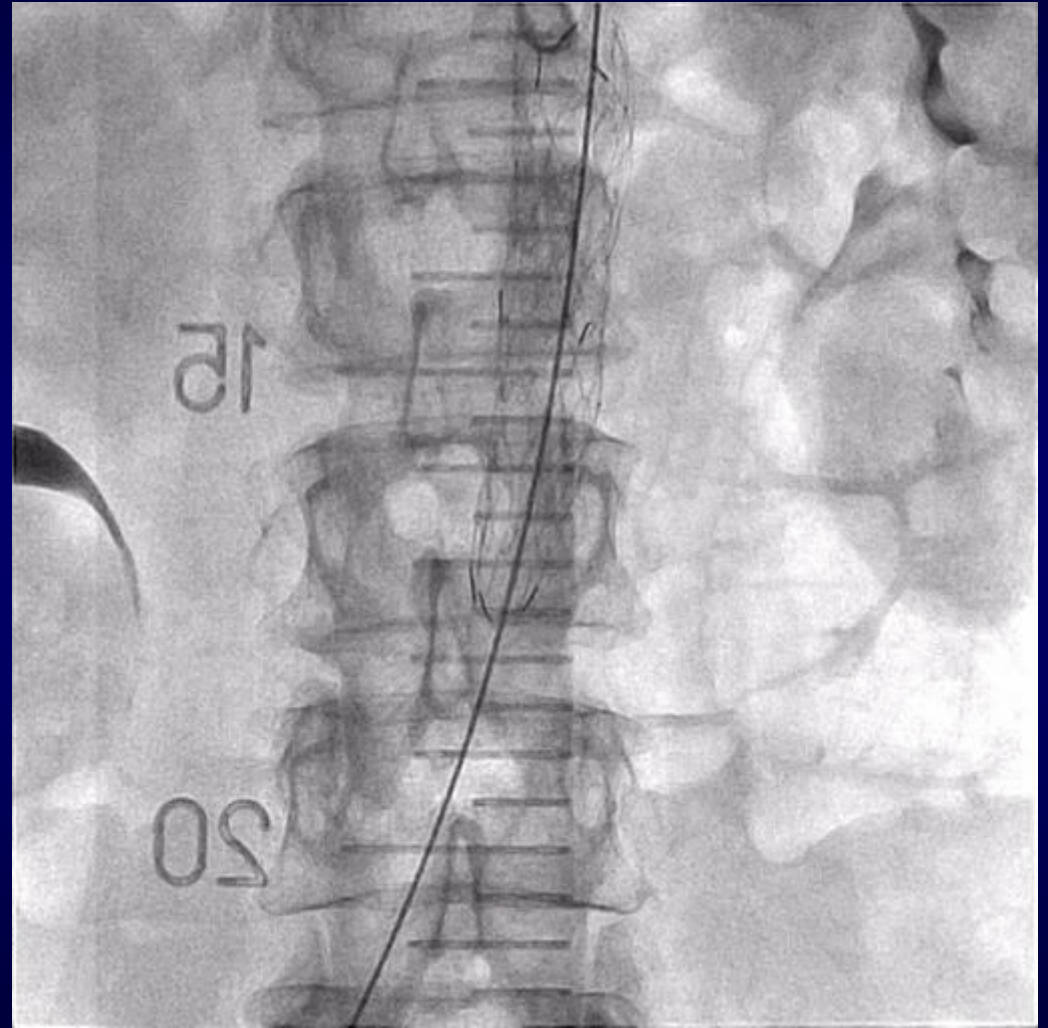
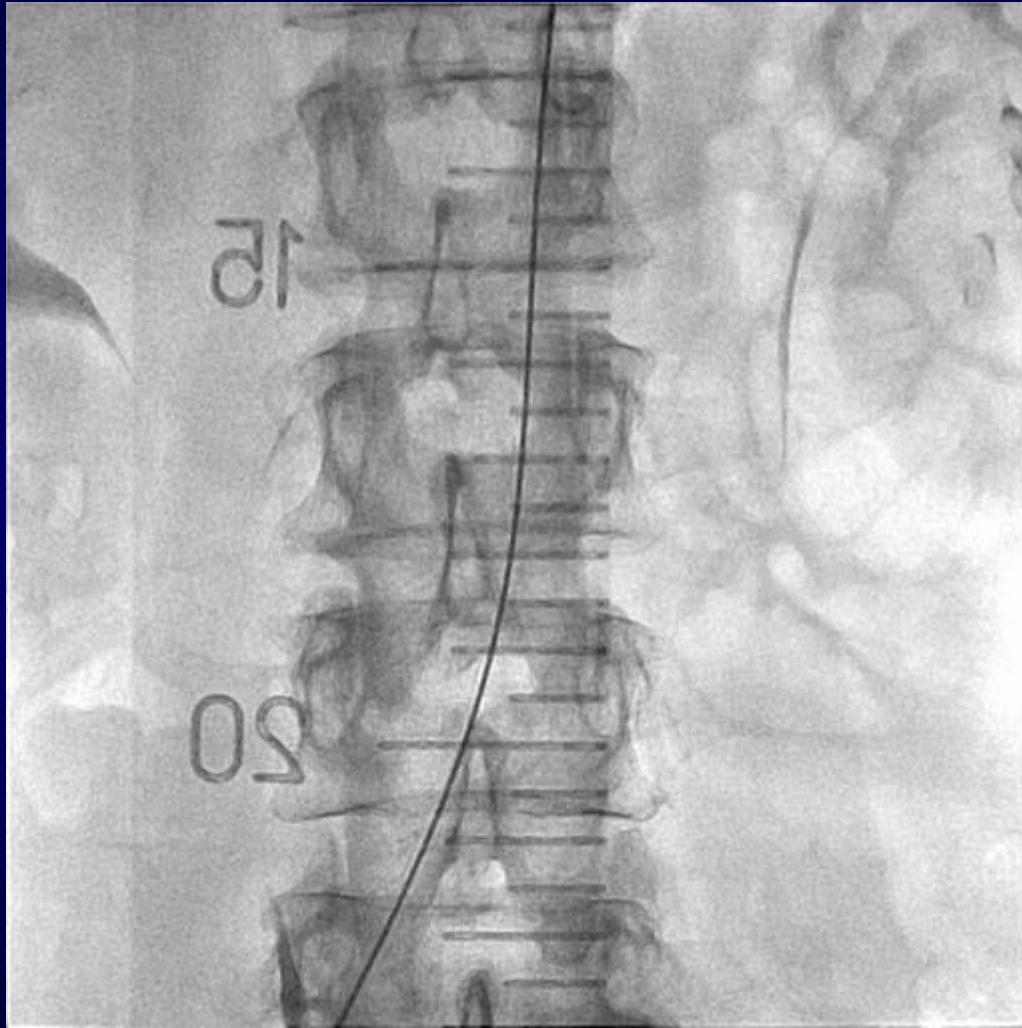
035'' Termo wire & Powerflex 5 X 40mm

Aorta angioplasty (2007-3-29)



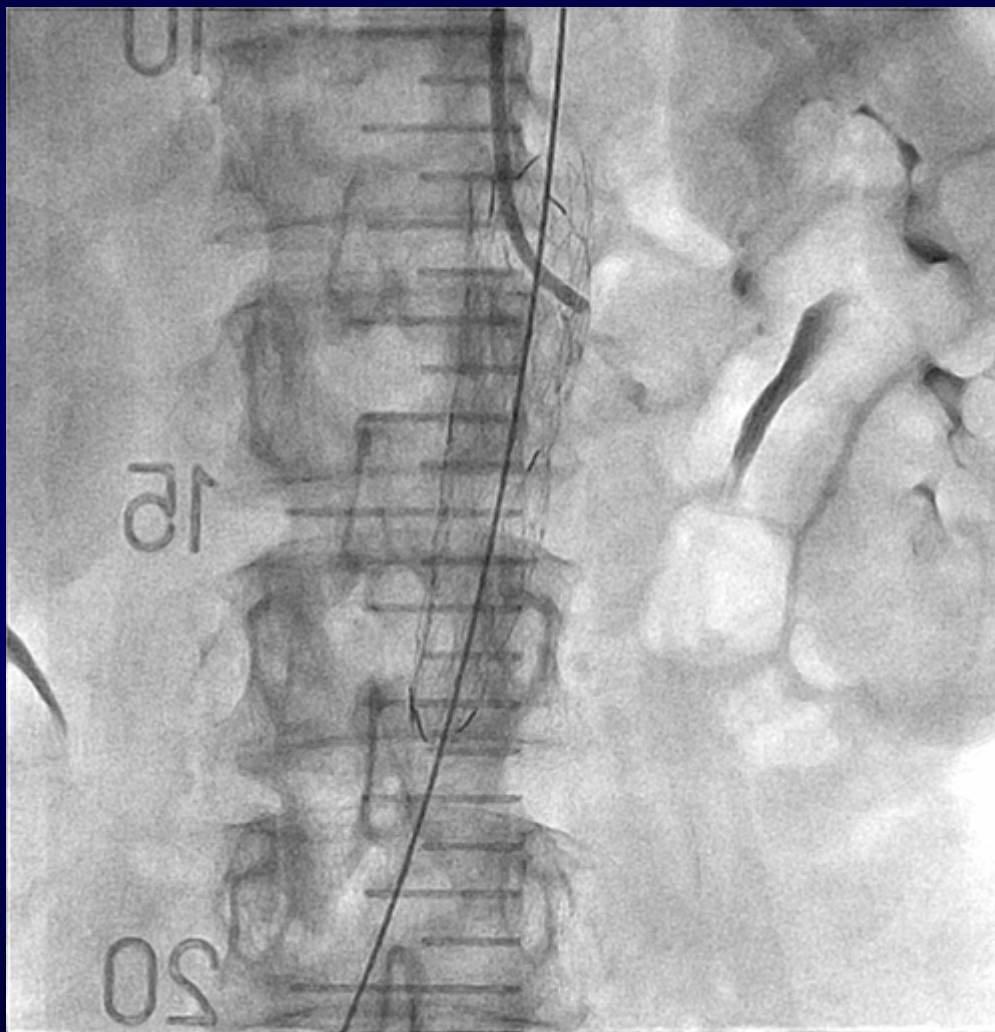
UK infusion (5000U/hr for 12 hrs)

Aorta angioplasty (2007-3-30)

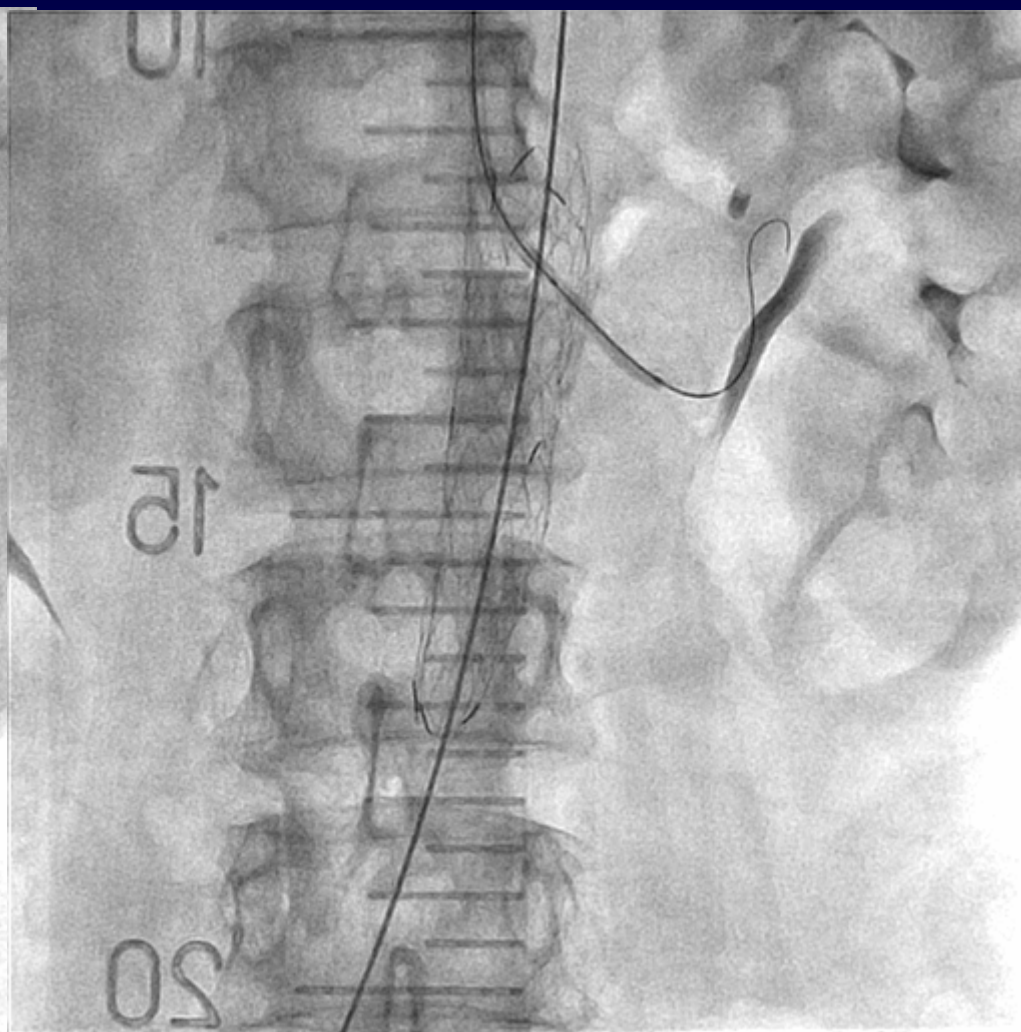


Taewoong Vascular Stent 28 x 60mm & Jailed Lt renal artery

Aorta angioplasty (2007-3-30)

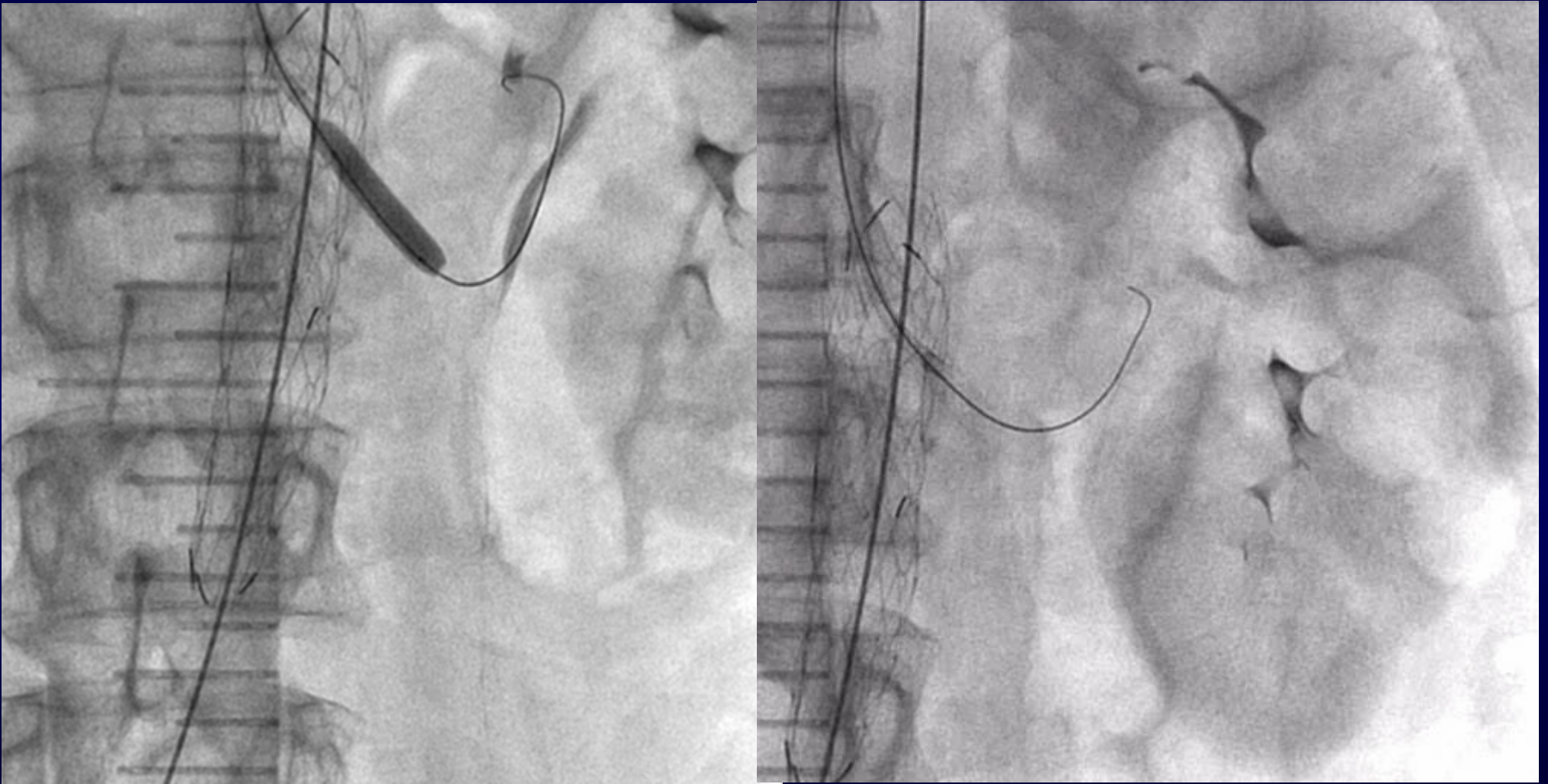


Cordis PTCA Guiding cath 6F JR3.5



PTCA G/W 014'' CONQUEST

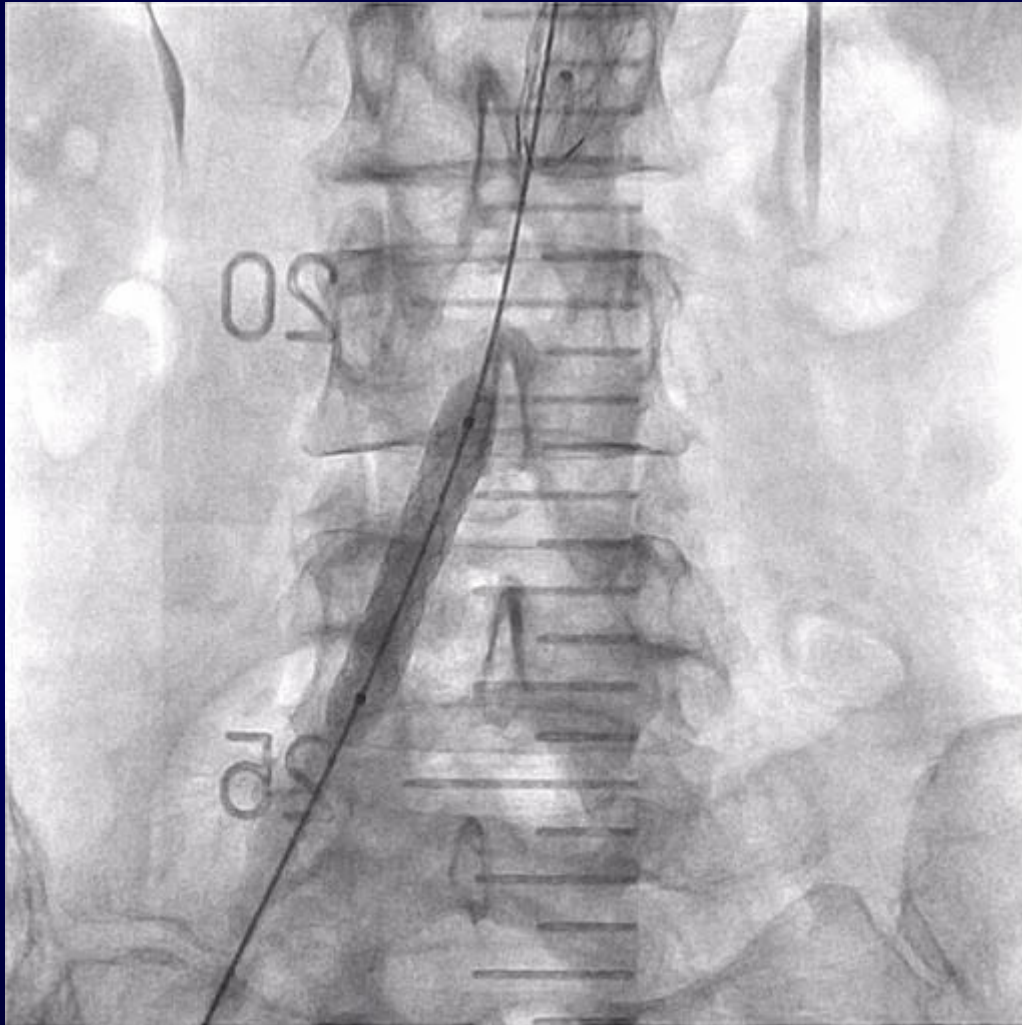
Aorta angioplasty (2007-3-30)



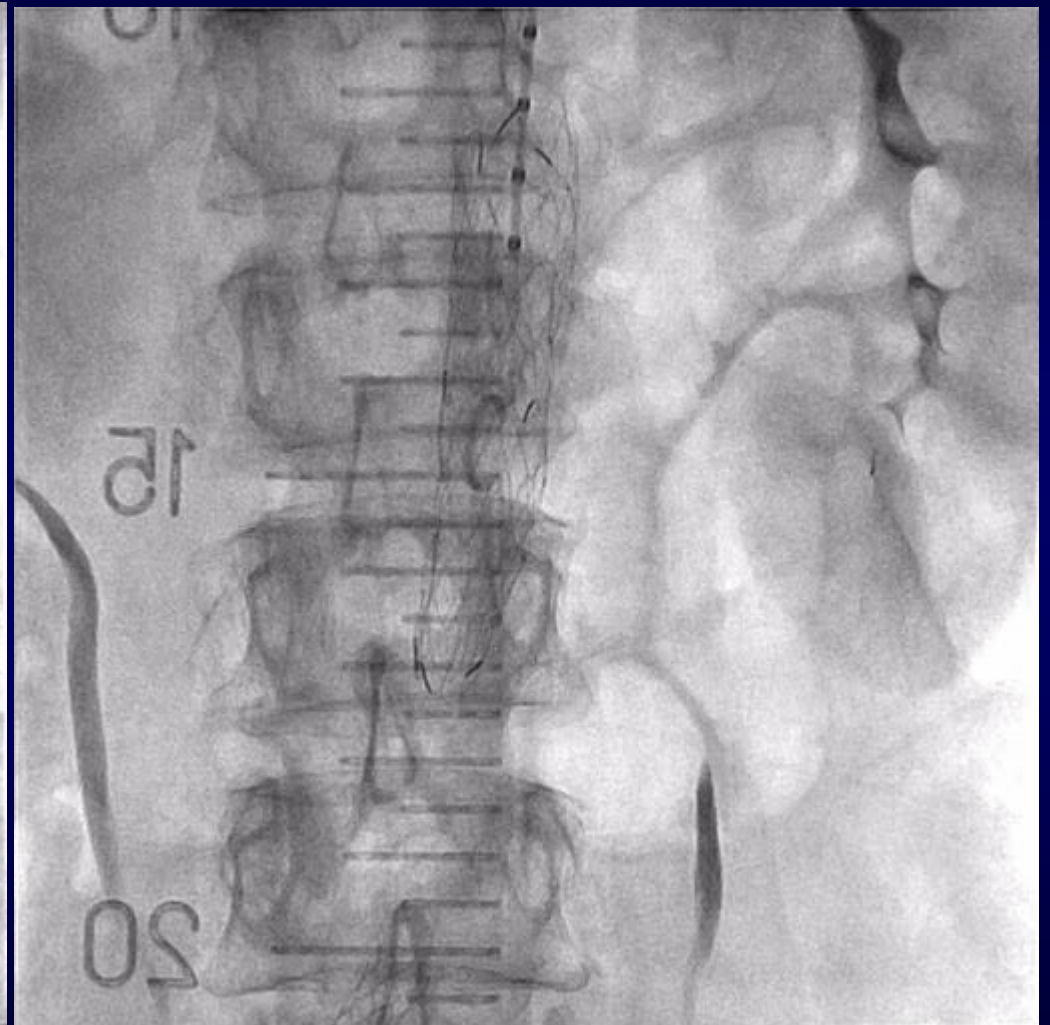
PTCA BALLOON SPRINTER 4.0x20,

ENDEAVOR 4.0x18

Aorta angioplasty (2007-3-30)



Peripheral Genesis stent 8 x 39 mm
PTA BALLOON UTD 8 X40 mm



Final angiography

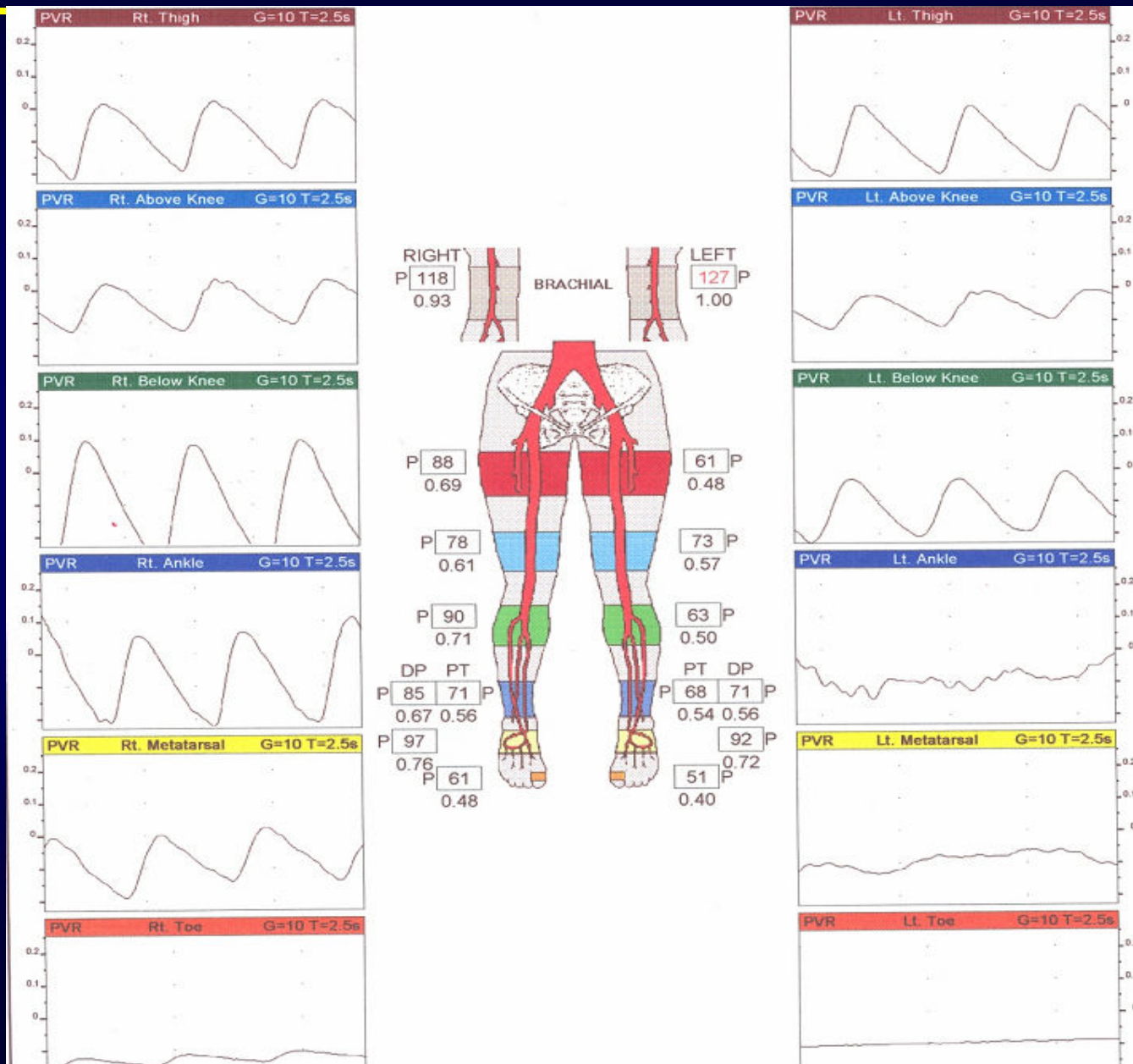
Case 7

Aorta

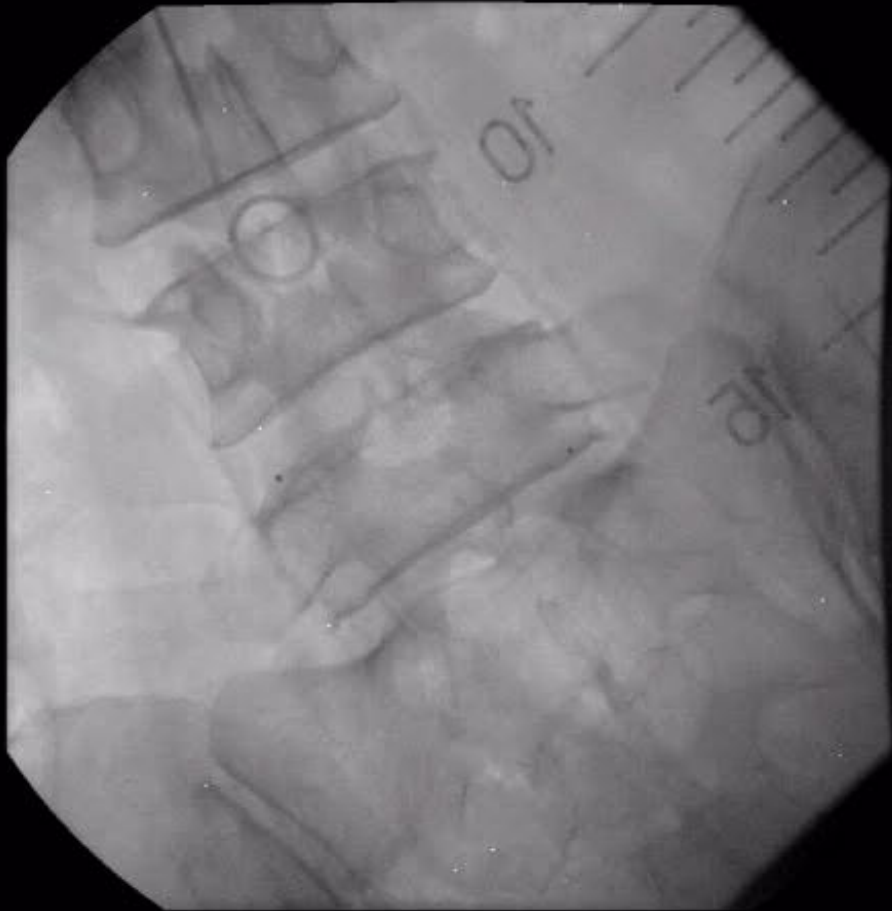
**-antegrade approach,
intraluminal approach-**

- **C.C** : Intermittent Claudication (Fontain IIb)
- **D** : 10 months
- **PHx** : '06. 5 NSTEMI, CAOD (1-VD)
 - PTCA stent insertion at pLAD
 - both iliac artery total occlusion
 - 2nd stage PTA failed
- **P.Ex** : BP 140 / 80 mmHg HR 80 /min
- **Lab** : BUN / Cr 10.7 / 0.7 mg/dL
TC/TG/ HDL/ LDL 151/ 132/ 76/ 63 mg/dl

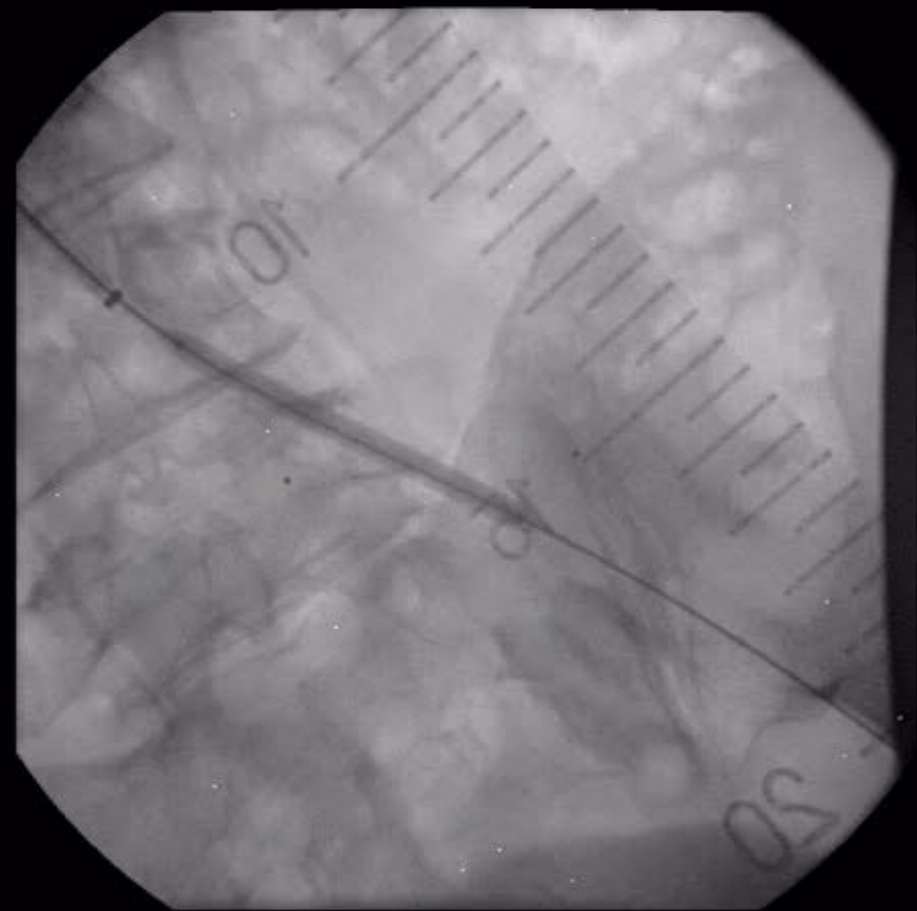
PVR (07.3.26)



PTA (07.04.4)

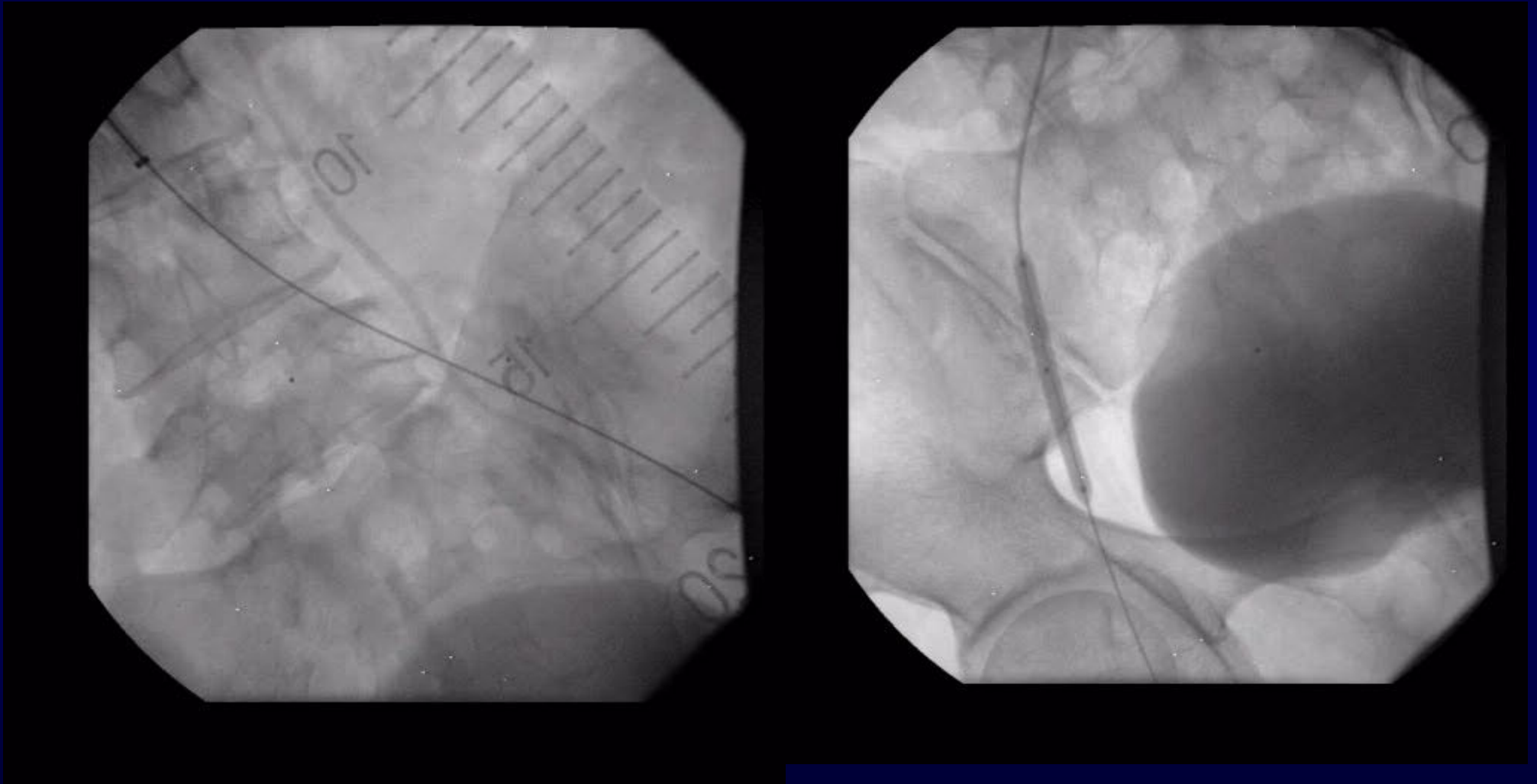


Total occlusion Lt CIA, Rt EIA



UTD 5X60mm Balloon

PTA (07.04.4)

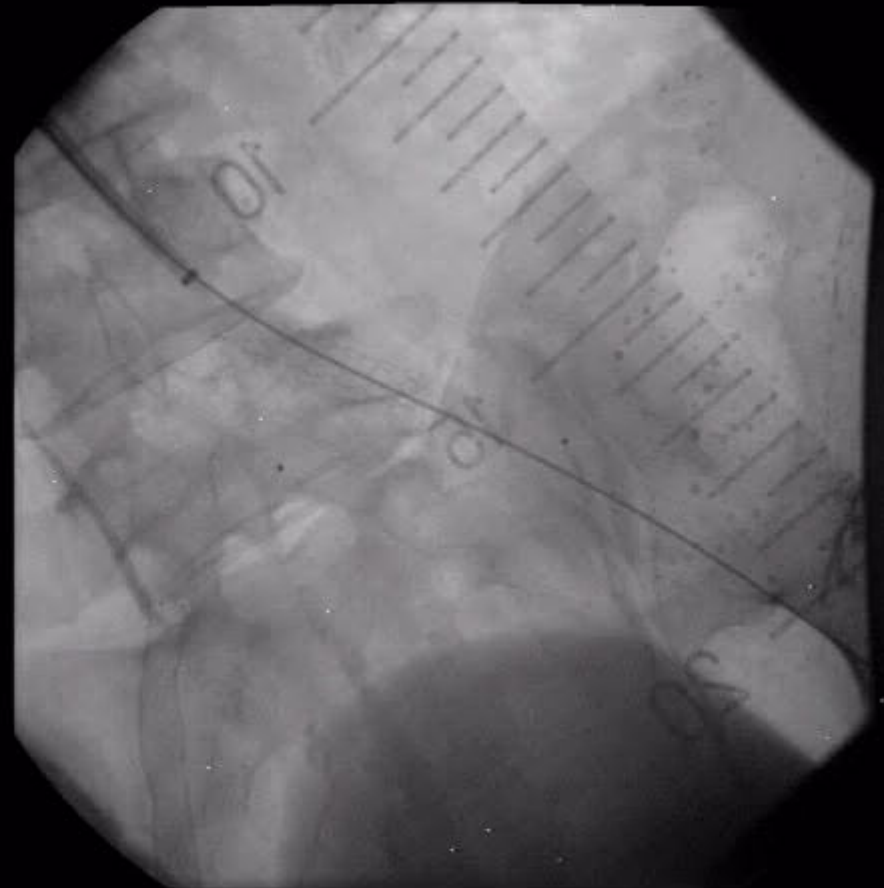


UTD 5X60mm Balloon

PTA (07.4.4)



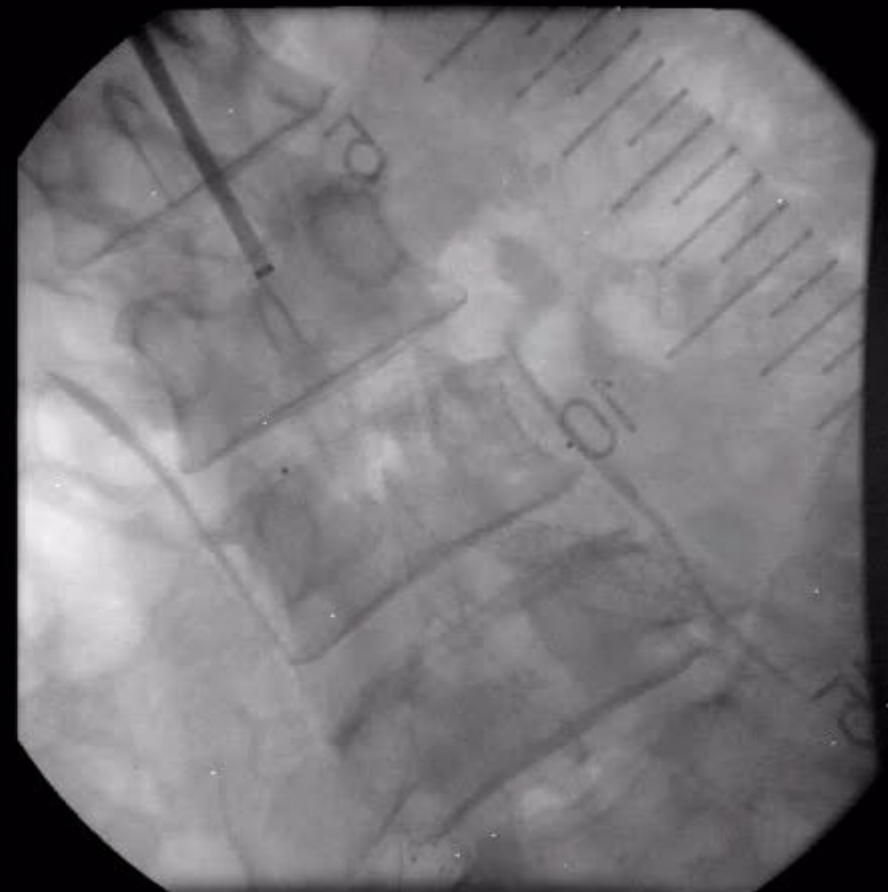
Smart control stent 8x100mm



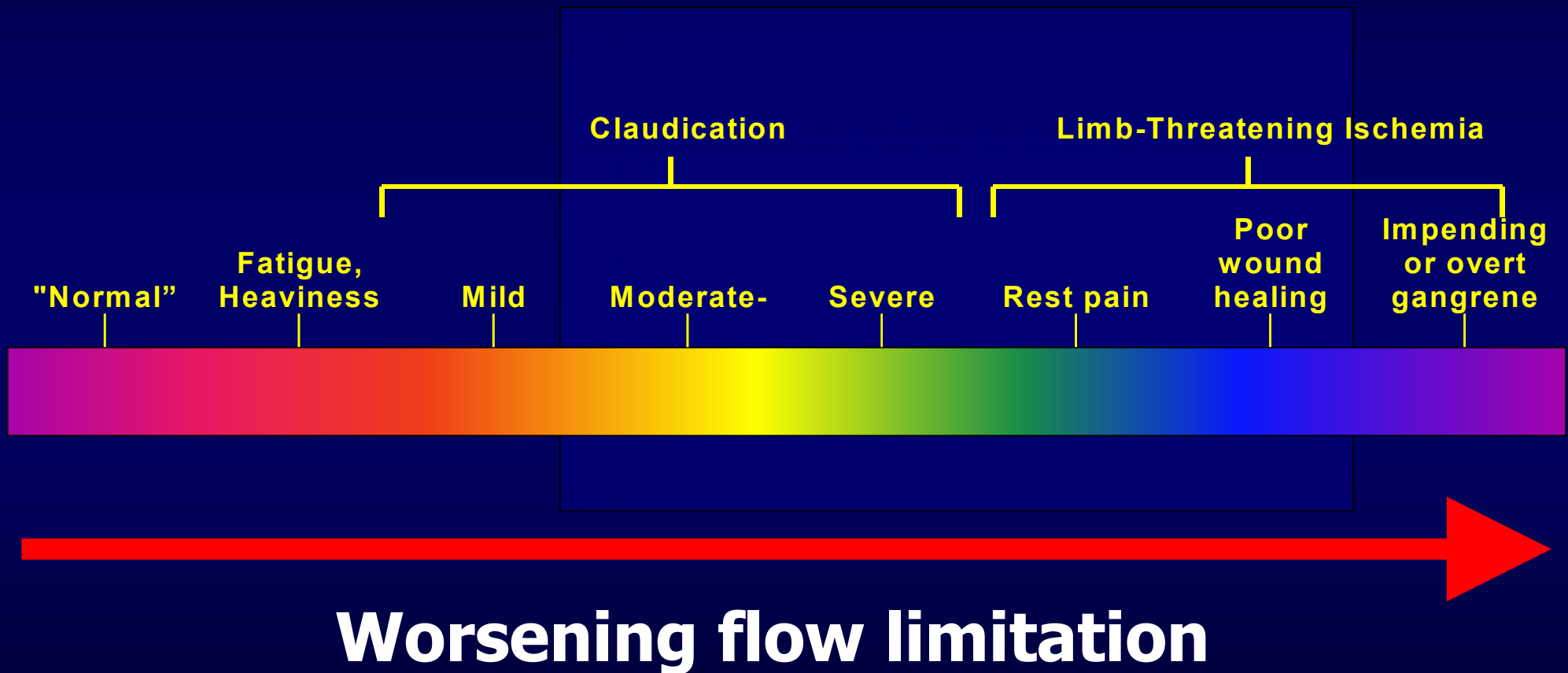
Peripheral Genesis stent 7x39 mm

PTA (07.4.4)

Final Angiography



Spectrum of Peripheral Arterial Disease





**5 'P's ; pulselessness, pain, pallor,
paresthesias, paralysis**



Acute limb ischemia

Intermittent claudication



Chronic limb ischemia

SFA Angioplasty: Acute and Late Clinical Results

	Acute	Late (1-3 yr)
Aorto-iliac	95-97%	85-93%
SFA/popliteal	72-95%	47-60%
Infrapopliteal	65-87%	35-60%



Case 4

Popliteal artery
-antegrade approach,
intraluminal approach-

KJI M/46 (#2447720)

C.C: Claudication for 3 weeks (Fontaine Class IIb)

PHx : Other involved vessels :

Rt, distal SFA to popliteal artery stenosis

→ PTA with stent (2002-7-11)

Atherosclerotic risk factors :

Hypertension(-), Diabetes(-), Smoking(-), Age(-), Male(+)

Current medications :

Aspirin, plavix ,vessel Due , berasil, coumadin 2.5 mg

Lab : BUN/Cr 12.0/0.9 mg/dL

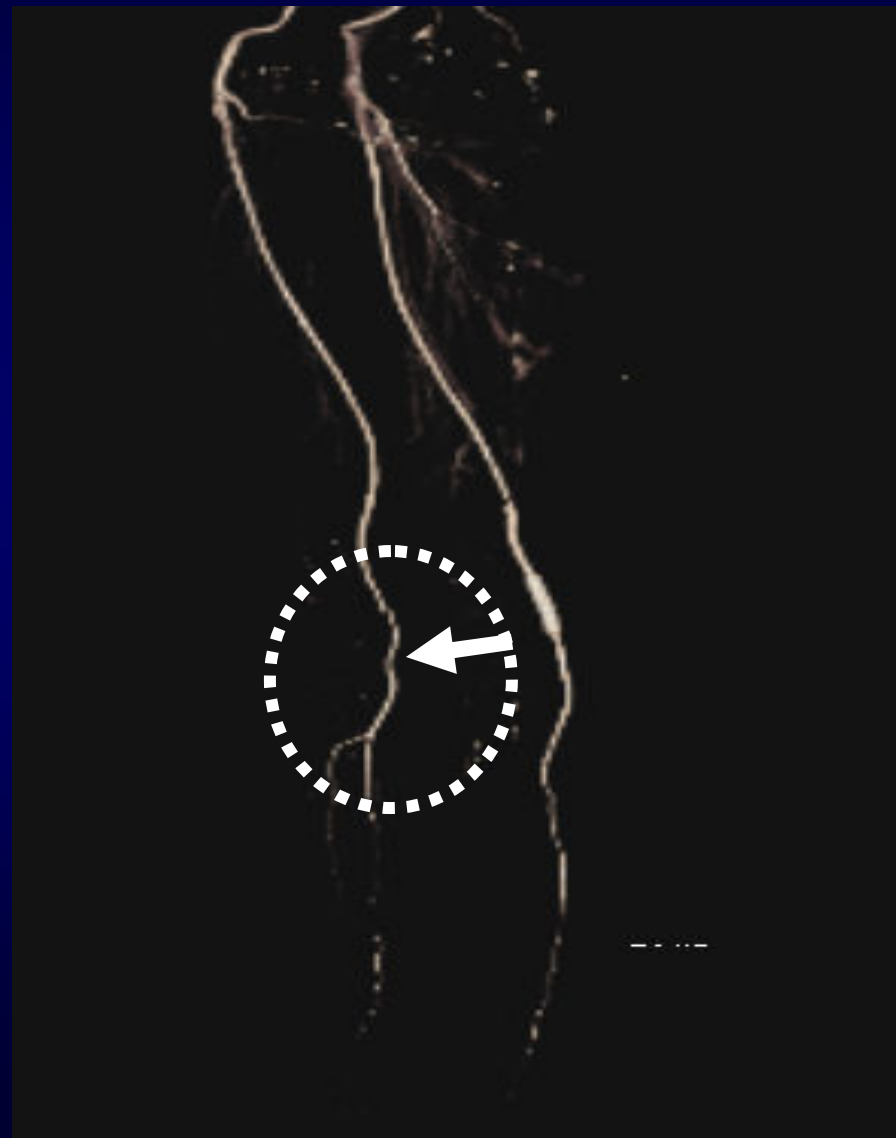
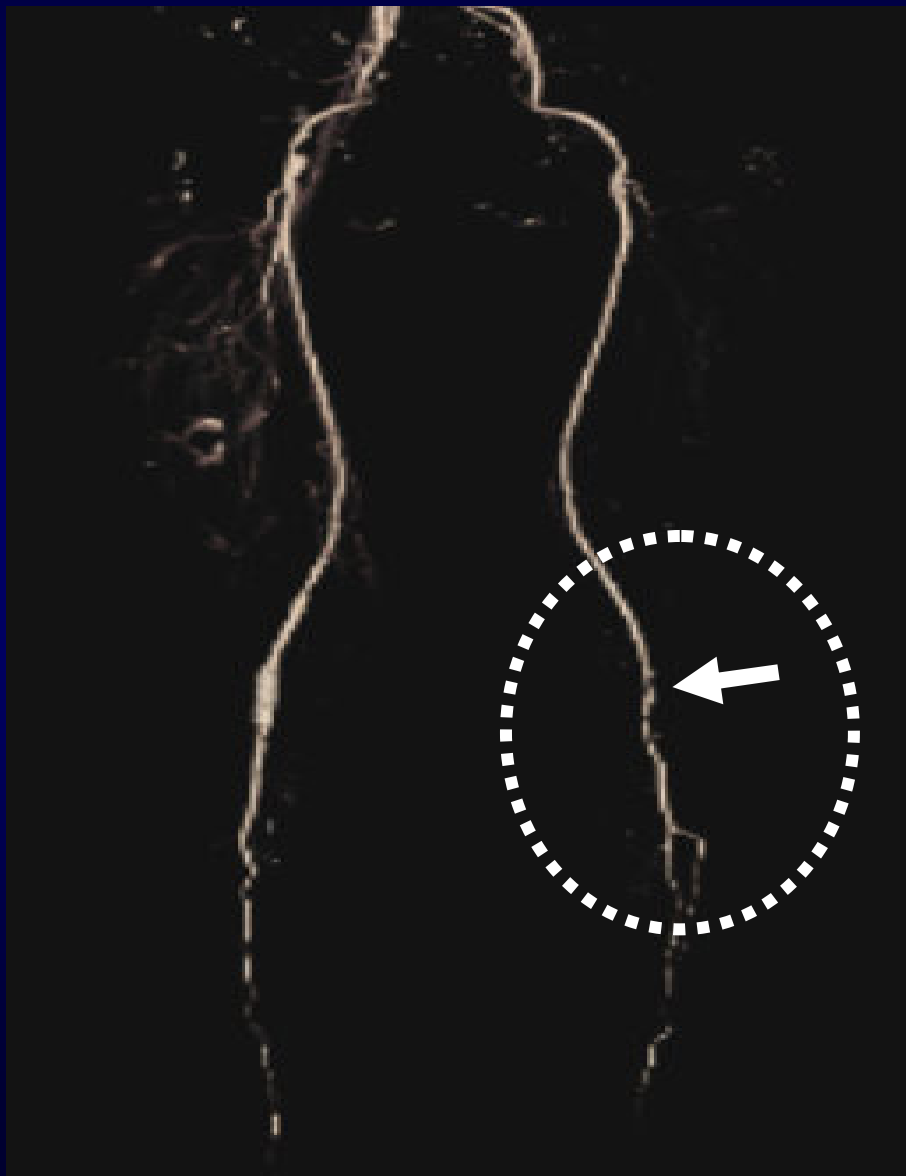
T.chol/TG/ HDL/LDL 183/52/47/143 mg/dL

Lower Extremity CT Angiography

**Patent Rt. popliteal artery stent.
Occlusion of ATA and PTA with prominent peroneal
artery Stenosis with focal dissection at Lt.popliteal
artery.**



KJI M/46 (#2447720)

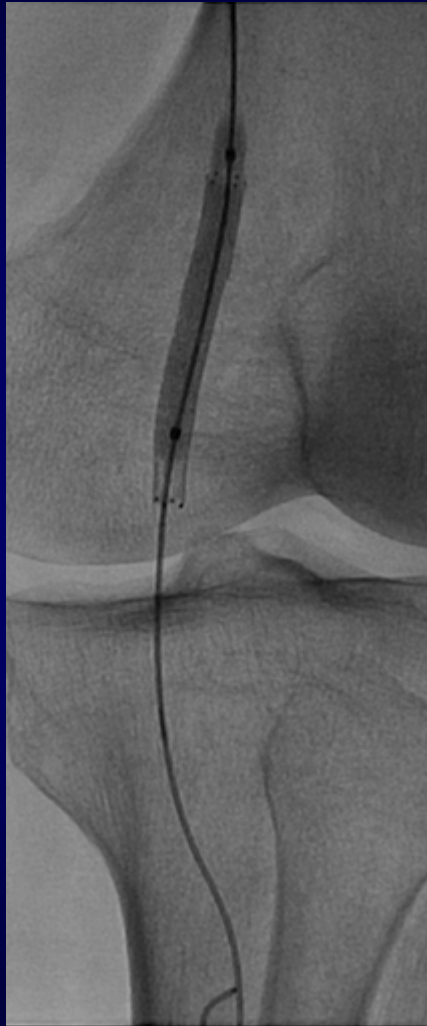
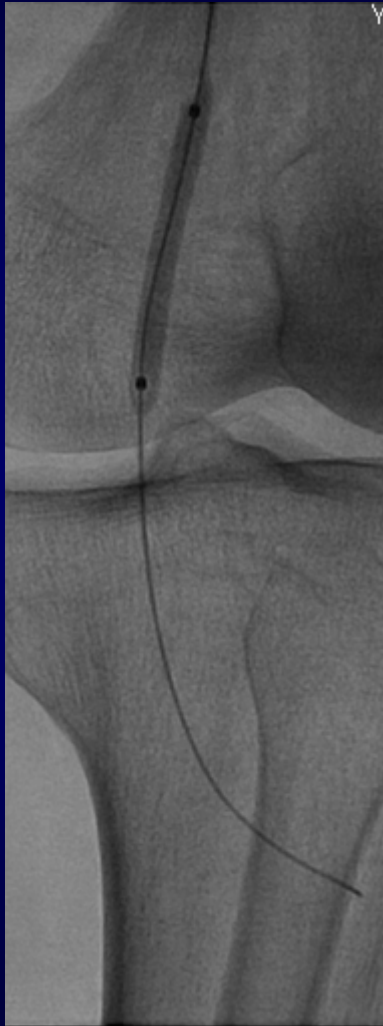


KJI M/46 (#2447720)

Peripheral angiography, Lt



KJI M/46 (#2447720)



Power flex 5*4



SMART 6*40 mm



Adjuvant powerflex 5*4