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Medical History

- 1. Age/Gender: 48/ Male
- 2. Medical History
 - Chronic T2DM- OHA
 - Dyslipidemia Statin
- 3. CC and PI
 - Bilateral lower limbs claudication
 - Progressively worsened last 3 months
 - Worse on the right lower limb

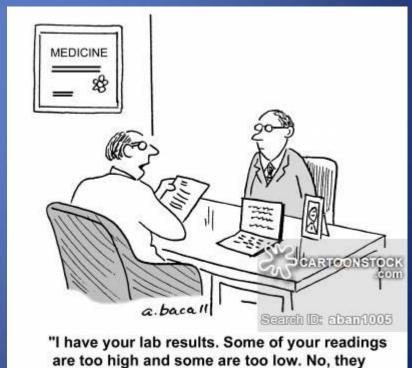


Physical Examination

- 1. Vital Signs- Stable
- 2. Systemic Examination- Unremarkable
- 3. Lower Limbs Examination
 - ✓ Warm
 - ✓ No trophic changes
 - ✓ No Wound
 - ✓ Peripheral pulses palpable

Investigations

- CBC- Hb=10.3g/dL
- RFT/LFT= Normal
- Echo Examination
 - > LVEF=60-65%
 - > No RWMA



don't balance out."

ABI

Ankle/Brachial Index (ABI) Results

(Note: Use the higher arm pressure for both the left and right ABI calculations.)

Pressure:

Ankle/Brachial Index Interpretation*

0.96 or Above - Generally Normal

0.81 - 0.95 - Mild Disease

0.51 - 0.81 - Moderate Disease

0.31 - 0.50 Moderate to Severe Disease

0.30 or below - Severe Disease

 Techniques in Norinvesive Vascular Diagnosis: Protocal and Paccadures Guideline Marrial. R.J. Daigle BA, RVT. Academy Martinal Systems, 1999. P. 134

Pressure: ___

Right ABI

Right Ankle Pressure = mmHg = mmHg = ___

0.64

Pressure: _____

Left ABI

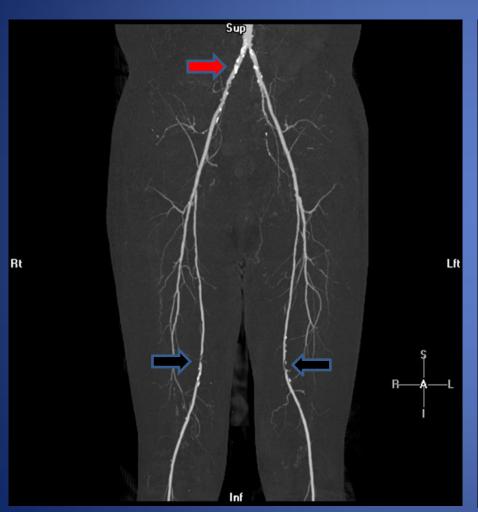
Left Ankle Pressure Highest Arm Pressure = mmHg mmHg =

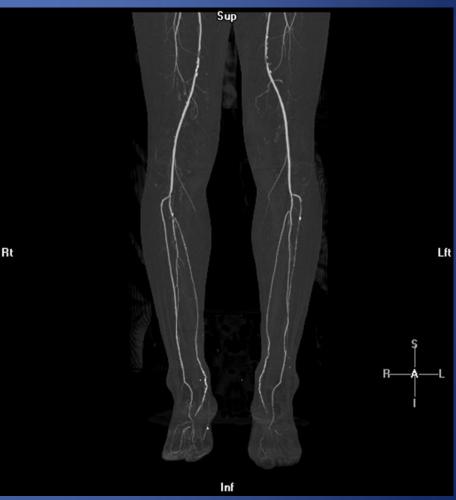
0.72

Pressure:

Example = Ankle Pressure = 125 mmHg Brachial Pressure = 114 mmHg = 1.09

Lower Limb CTA



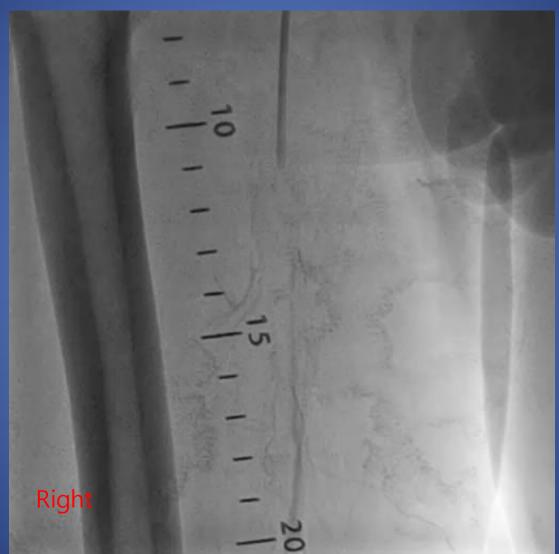


What Would Be The Strategy?

1. Approach : Contralateral Access

- 2. Pre-Intervention Pharmacology:
 - DAPT- Aspirin, Plavix
 - Antithrombotic- LMWH(1mg/Kg) ± reduced dose of UFH (50 IU/Kg) during procedure
 - ❖ Target ACT= 250-350 secs

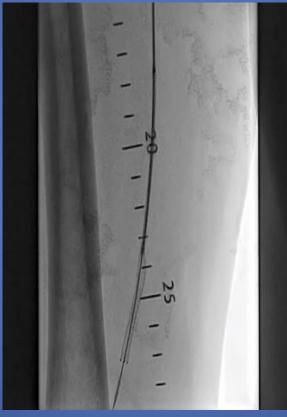
Baseline Angiography



Terumo 035 wire 5F MPA

Ipsilateral Intraluminal Wiring, Ballooning, and Stenting





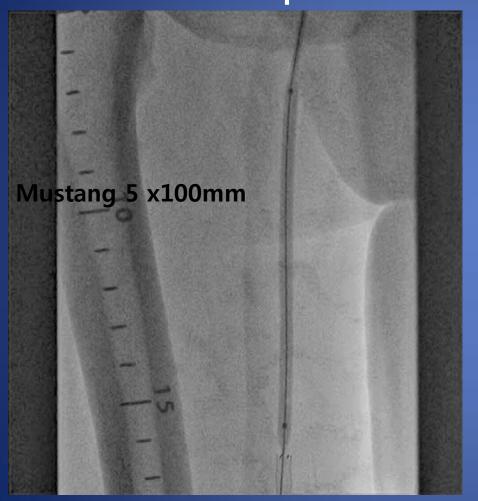


Terumo 035 wire Powerflex 4.0x40mm

Smart 6.0x 100mm

Mustang 5.0x100mm 16atm

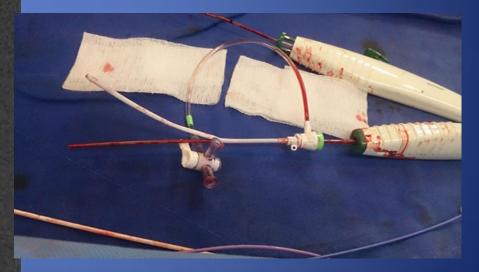
Proximal Ballooning and Completion Angiography





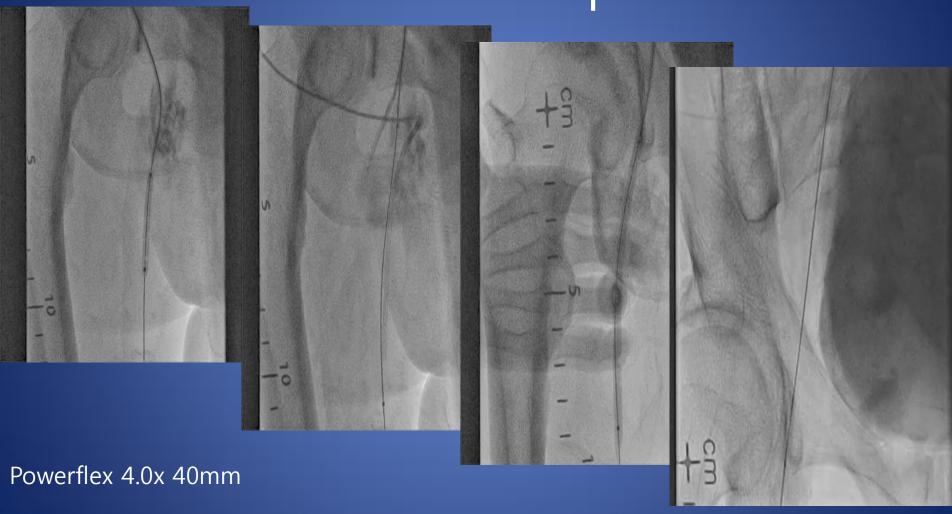
Alamak! What Happened?

Wire re-insertion!!!



6F Exoseal

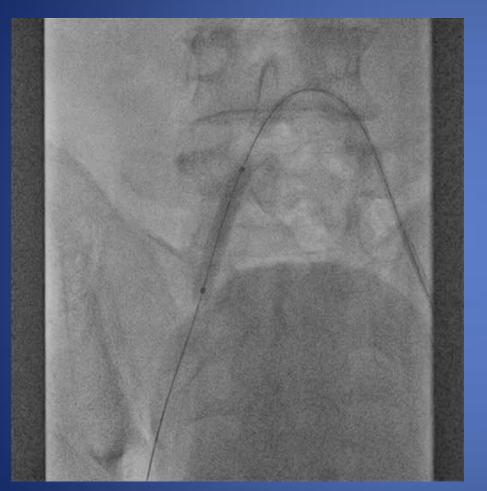
Prolonged Balloon Tamponade and Manual Compression



DSA- Stop or Do Further?

Stop or Do Further?

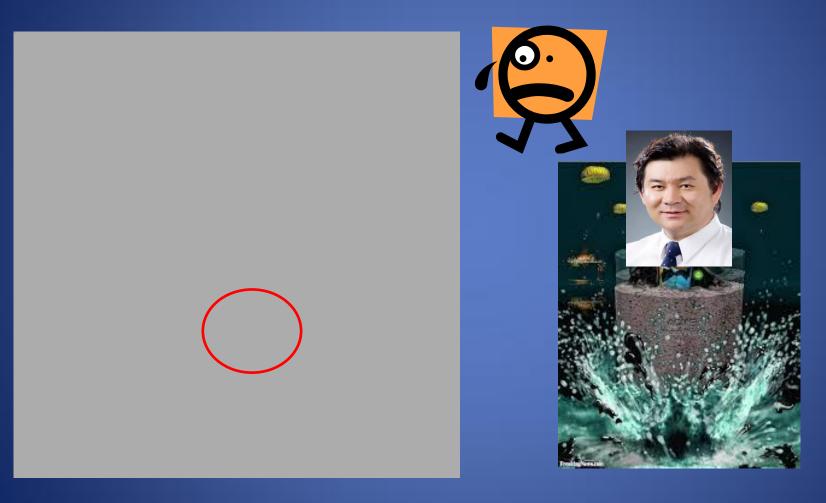
CIA Angioplasty





Post Angioplasty Angiogram

Work on Access Site Again!



Plugging The pipe!!

Prolonged Balloon Tamponade and Stenting

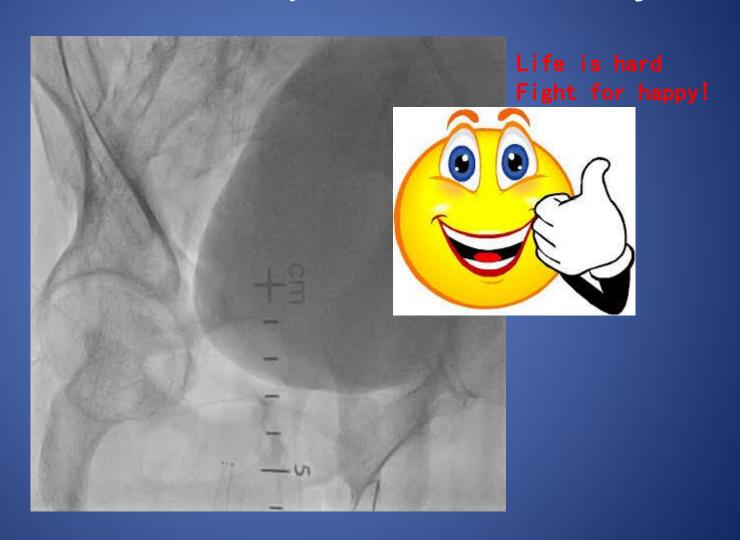




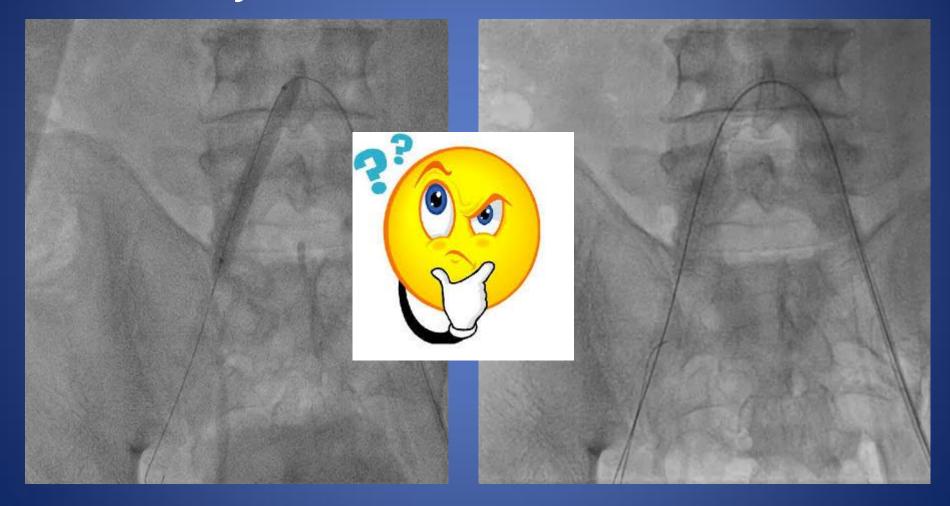
Mustang balloon 5.0 x100mm

Smart stent 6.0 x 100mm

Mission Accomplished. Really!



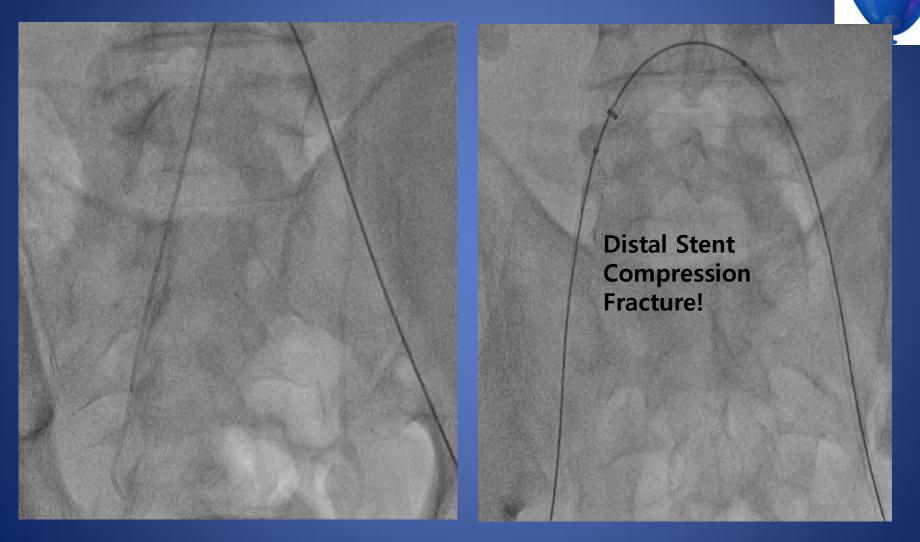
Unsatisfactory! Better Safe Than Sorry......Wait!!...Do More...



Time to Finish....



Rewiring, Difficult To Pass



Delivery of self-expanding Graft stent; S&G (Korea)

Graft Stenting



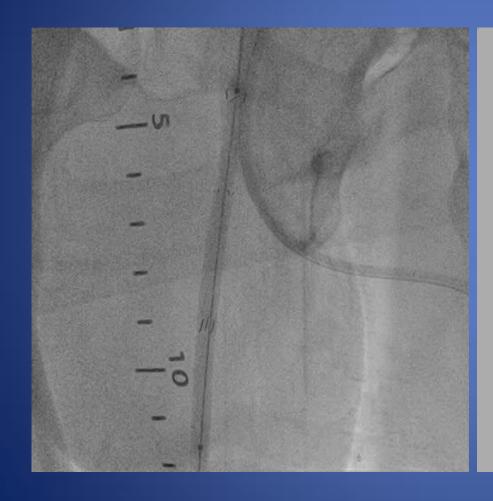


Geographical Miss!! Should be careful!!

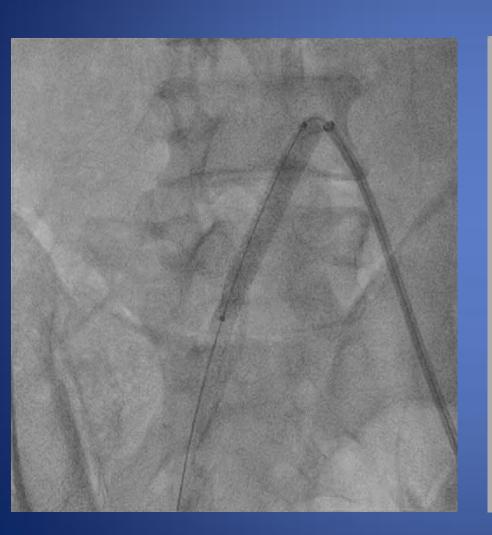
Post ballooning

What happened next?





Too long already....Complete The Job.





Foods for Thought!



- 1. What are the steps to be taken to prevent such uncommon complication?
 - 1) Closure device-related perforation
 - 2) Iliac stent deformity and crushing
- 3) Deep femoral artery loss due to geographic miss by a stent graft
- 2. Surgical vs. Endovascular solution in in this situation?

What Have We Learn From This Experience?

- Prevention is the Best Medicine.
- Clear strategy in performing endovascular intervention.....take one at a time!
- Clinical decision making is an art and you need to weigh pros and cons of each decision
- Be ready with covered stent in your cath lab

Perfection Is Not Attainable! But If We Chase Perfection, We Can Catch Excellent!



Thank you for your attention!!

Korea University Guro Hospital

