Endovascular Management of Iliac Limb Occlusion due to Kinking of Bifurcated Aortic Endograft

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Patient History

- 77 year-old male
- C.C: Right thigh pain, weakness
- Duration: 3 days

Past history
- Hypertension
- Penetrating aortic ulcer contained rupture
  - s/p TEVAR (2011.5.30)
- Abdominal aortic aneurysm
  - s/p EVAR (2011.5.30)
Stent graft insertion

2011.5.30
Valiant 40-167

2011.6.3
Endurant 32-16-124
Endurant 16-16-124
Endurant 16-82
6 days later...ER
What is your option?

- Observation
- Bypass surgery
- PTA with stenting
• Terumo wire could not pass through the kinking site at first time
Procedure

- Suction with MP guiding catheter was done
- Large amount of thrombus was removed
Procedure

• Infusion catheter was placed to use continuous urokinase infusion for 4 hours.
• After 4 hour
Flow was recovered
But we need to treat the kinking site..
Additional self expandable stent insertion
Treatment

PRE

SMART 4x40mm

Post
Additional problem...

Distal embolization  Remove thrombus with MP guiding catheter
Endograft kinking

- **Limb occlusion after stent graft**: 0~5%
  - First 2 months after EVAR
  - **Cause**
    - Stent graft kinking
    - Extension of the small diameter stent graft into the EIA
  - **Treatment**
    - Observation
    - Additional stent graft
    - PTA with stenting
    - Operation

• Limb occlusion can happen by endograft kinking, especially tortuous iliac artery in early phase.

• Additional PTA stenting could be a treatment option for endograft kinking.