Strategy for Tortuous Iliac Curvature to Accomplish EVAR for Infrarenal AAA:
Use of Peripheral Stent-graft as a Bridge

Nam Yeol Yim MD.
Radiology
Chonnam National University Hospital.
Gwangju. KOREA
Disclosure

• Speaker name: Nam Yeol Yim MD.

• I have the following potential conflicts of interest to report:
  • Consulting
  • Employment in industry
  • Stockholder of a healthcare company
  • Owner of a healthcare company
  • Other(s)

• I do not have any potential conflict of interest
Aortoiliac Tortuousity

• Limb complication (e.g. limb occlusion, Ib endoleak..) have the probability of increasing even post EVAR in case of tortuous iliac artery

• Tortuous iliac artery’s anatomy being one of the most important factors associated with the increased complexity of EVAR procedure
Patient INFO.

- 80 yo female
- C/C: Abdominal pain (D: 4 days)
- P/H: Hypertension for 10 years
  - B.P on admission day: 160/90 mmHg
Initial CT

Aneurysmal diameter = 5.2cm
Proximal neck diameter = 2.1cm
Neck angulation > 90°
Abdominal Angiography
R) IIA Embo., Main Body

Right IIA embolization with Amplatz Vascular Plug II (16mm)

Excluder Main Body Graft (26 - 14.5 x 140 mm)
Limb Extender

**Excluder Limb Extender:**

- Flexible, light delivery system
- Stepped distal end
  - Can interrupt advancement
  - Can become stuck
Limb Extender

*Endurant Limb Extender:*

- Long, smooth distal tip
- Hydrophilic outer sheath → Reduce possibility becoming stuck
- Stiffer shaft can prevent further advancement
Limb Extender

Viabahn Stent-Graft: 13mm-10cm

**Viabahn Stent-Graft:**

- Flexible delivery system without stepped distal end
- Trackability/Pushability (↑)
- Up to 13mm in diameter
Final Result
FU CT after 3ms
Conclusion

• Although long term result is not yet available, “Bridging graft” with Flexible Viabahn™ could be helpful to overcome extremely tortuous distal curvature
Strategy for Tortuous Iliac Curvature to Accomplish EVAR for Infrarenal AAA:
Use of Peripheral Stent-graft as a Bridge

Nam Yeol Yim MD.
Radiology
Chonnam National University Hospital.
Gwangju. KOREA