Endovascular Treatment of Graft Stent Kinking following Endovascular Abdominal Aortic Aneurysm Repair

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- **Patient History**
  - 67-year-old man
  - Chief complaint: left thigh pain (onset: 6 month ago)
  - Past History:
    - Tb destroyed lung in 1987
    - Triple A, EVAR in 2006
      - astrix
      - clostazol
      - bisoprolol
      - pitavastatin

- **Serial Change of Stent Graft**

- **Endovascular Repair of Kinking**
  - **Conformability for Kink Resistance**
    - Stent Shape
    - Gap Width
  - **Procedure Order**
    - Graft stent to CIA. Lt
    - Coll. embolization of IIA. Lt
    - Extensional graft stent to EIA

- **Mechanism of Graft Stent Kinking**

- **Ankle Brachial Index**

  - ABI. Lt ➔ 0.86

- **Summary**
  - Incidence: Etiology
    - First generation: mild kinking up to 50% in vanguard type
    - Second generation: 3–10%
  - Causes:
    - severe aortoiliac tortuosity
    - endograft conformability
    - migration of graft stent
    - native vessel remodeling after EVAR
  - Treatment Options:
    - PTA with stenting (Palmez, Nitinol, etc.), additional Graft Stent Operation (Bypass surgery)
  - Our case illustrates the crucial importance of radiological long-term follow-up of patients with EVAR