The Ovation Endograft is an effective option for EVAR in patients with complex neck anatomy unfit for FEVAR.

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November 15, 2018

Conflict of interest

Speaker’s name: Gianmarco de Donato

- I have the following potential conflicts of interest to report:
  - Research contracts
  - Consulting (Endologix, Penumbra)
  - Employment in industry
  - Stockholder of a healthcare company
  - Owner of a healthcare company
  - Other(s)

- I do not have any potential conflict of interest

Juxtarenal infrarenal abdominal aortic aneurysms are defined as those aneurysms that involve the infrarenal abdominal aorta adjacent to or including the lower margin of renal artery origins.

JAAA (neck<7 mm)

- Patients unfit for surgery?

1. Open surgery
2. Fenestrated EVAR (cons and time)
   - symptomatic JAAA? Diameter > 7 cm
   - Inadequate iliac access for FEVAR (< 6 mm)
3. Chimney or Ovation VENT

Ovation VENT technique
(open chimney)

Ovation + renal bare stent
New concept of sealing by non-expansive circumferential apposition of polymer-filled ring to the aortic wall (at 13 mm)

The Ovation stent graft (Endologix)

VENT technique

“raising the ring” & moving the fabric at level of collar

Chimney vs. VENT

- Chimney
  - covered stents (6-8 Fr)
  - 10-15 mm protrusion outside renal arteries
  - Chimney & endograft competing for the same room (gutters)

- VENT
  - bare metal stents (5Fr)
  - 2-4 mm protrusion into the aorta
  - stents & endograft are not competing for the same room

Case example # 1
Proximal neck 4 mm

Case example # 2

Planning for Double VENT

Case example # 3
Ovation VENT for patients unfit for FEVAR

- Personal experience – preliminary data
  - 1st case Jun 2015
  - 29 cases (9 double VENT, 20 single VENT)
  - Technical success 96.6% (one intraop coil embolization for type Ia EL)
  - Follow-up (2-36 mo.)
  - 100% renal artery patency
  - No further intervention
  - No sac enlargement (62% shrinkage >5 mm)

- Technical success 96.6% (one intraop coil embolization for type Ia EL)
  - Follow-up: mean 19.2 ± 3 mo. (range 2-36)
  - 100% renal artery patency
  - No further intervention
  - No sac enlargement (62% shrinkage >5 mm)
Ovation VENT technique

Safe & effective option in:
- Symptomatic or huge jAAA (>7cm)
- Tortuous anatomy & Small iliac vessels (inadequate for fEVAR)

JAAA (neck<7 mm), pts unfit for open

- Asymptomatic jAAA or diameter < 6 cm
- Adequate iliac access for fEVAR (>7 mm)

- Symptomatic jAAA or diameter > 6 cm
- Small iliac vessels (<7 mm)

- Bailout for short or complex neck during failing standard EVAR