How The Nellix Device Can Be Used To Treat AAAs With Iliac Aneurysms: Tips and Tricks

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• None, related to presented topic

AAAs with Common Iliac Aneurysm (CIA)

• 20-40% of AAAs have CIA which require repair\textsuperscript{1,2}
• Current Treatment options
  • Parallel grafts
  • Iliac branch devices
  • Hypogastric occlusion w extension to EIA
• Limitations
  • Increased procedural complexity and cost
  • Hip and buttock claudication from hypogastric occlusion


Nellix for AAAs with CIA

Optimal treatment option: total exclusion by one stent preserving hypogastric artery

Left iliac aneurysm 34.6 mm
Treated with 1+1 Nellix device
Total exclusion of left common iliac aneurysm
Preserved left hypogastric artery

Left hypogastric artery remains patent
Left common iliac aneurysm shrunk by 3 mm in 4 years

Common Iliac Aneurysm
without Involvement of Hypogastric Artery

Pre-piercing of iliac aneurysm (30% contrast medium)
Post treatment

Optimal treatment option: Total exclusion of iliac aneurysm by one stent with exclusion of hypogastric artery or with coiling

Common Iliac Aneurysm with Extension to Hypogastric Artery

Left common iliac aneurysm 30.2 mm
Incorporation of hypogastric artery

Pre treatment with 1+1 Nellix device

Post treatment with 1+1 Nellix graft
Totally excluded left hypogastric

1st year FU shows complete exclusion of iliac aneurysm
No signs of common iliac aneurysm growth
Viable alternative treatment variant: total occlusion of iliac aneurysm by two Nellix stents with exclusion of hypogastric artery

Both common iliac are aneurysmatic
Both hypogastric are incorporated into the common iliac artery aneurysmal sac
Planned for 2 x 2 Nellix with exclusion of both hypogastric without coils

Nellix grafts excluding AAA are already in place
Positioning of second pair of Nellix grafts with the distal tips of devices deep into external iliacs

Post treatment
The right hypogastric surprisingly remains patent
Both common iliac aneurysms seems to be completely excluded

Summary
- EVAS feasible to treat AAA with CIAA
- Hypogastric artery can be preserved
- Full coverage of aneurysmal iliac is advised

Thank You