



Iliac branch device: a possible solution for the preservation of the inferior mesenteric artery in complex aortic endovascular procedure

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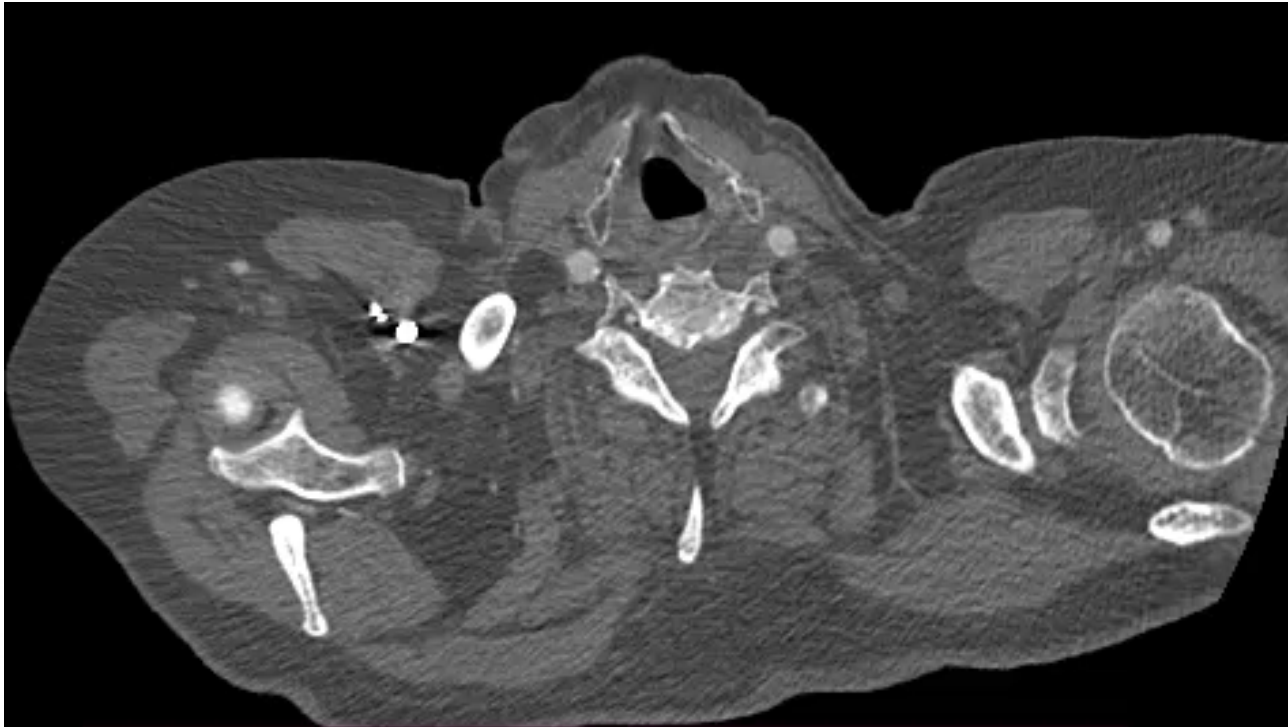
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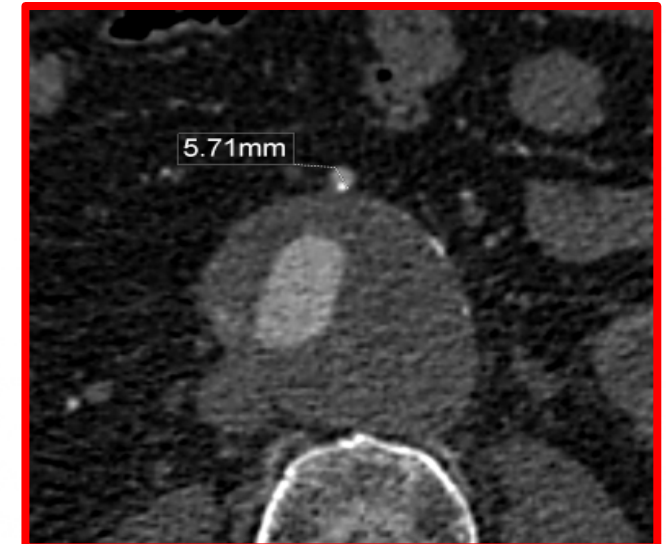
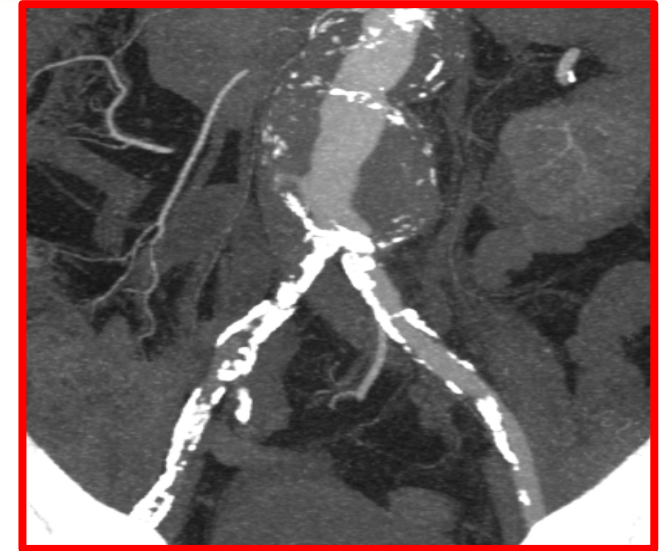
- ♂, 82 yrs
- former smoker, hypertension, myocardial infarction (E.F. 35%) treated with angioplasty and stenting of Cx
- TAVI
- Previous TEVAR for descending thoracic aneurysm (type B Safi)
- PAD (cat.III sec. Rutherford) with a previous endarterectomy of the left CFA
- **Pararenal aortic aneurysm (D max 64 mm)**





Anatomical features:

- Patent subclavian artery
- Six couples of lumbar
- Left IIA occlusion
- Right CIA occlusion and EIA stenosis (70%)
- Patent IMA with diameter greater than 5 mm





Complex Aortic Endovascular Procedure

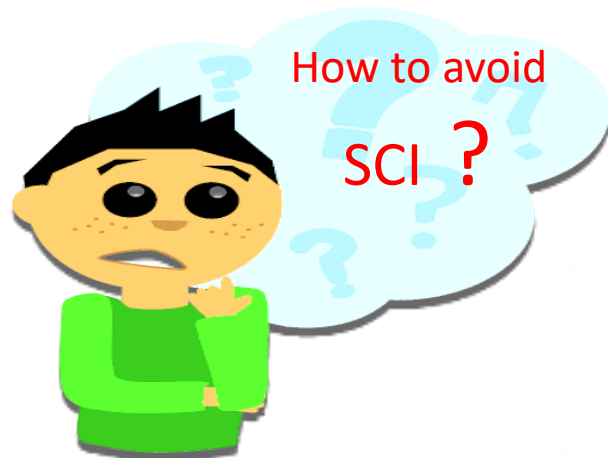
1. pAAA
2. Previous TEVAR
3. Extensive aortic coverage
4. Occlusion of rCIA

High risk of SCI

- Spinal fluid drainage
- Arterial pressure above 100 mm Hg
- Hemoglobin above 10 g/dL
- Transcutaneous oxygen measurement above 95%
- Staged procedure
- Maintenance of PELVIC and SPLACNIC circulation

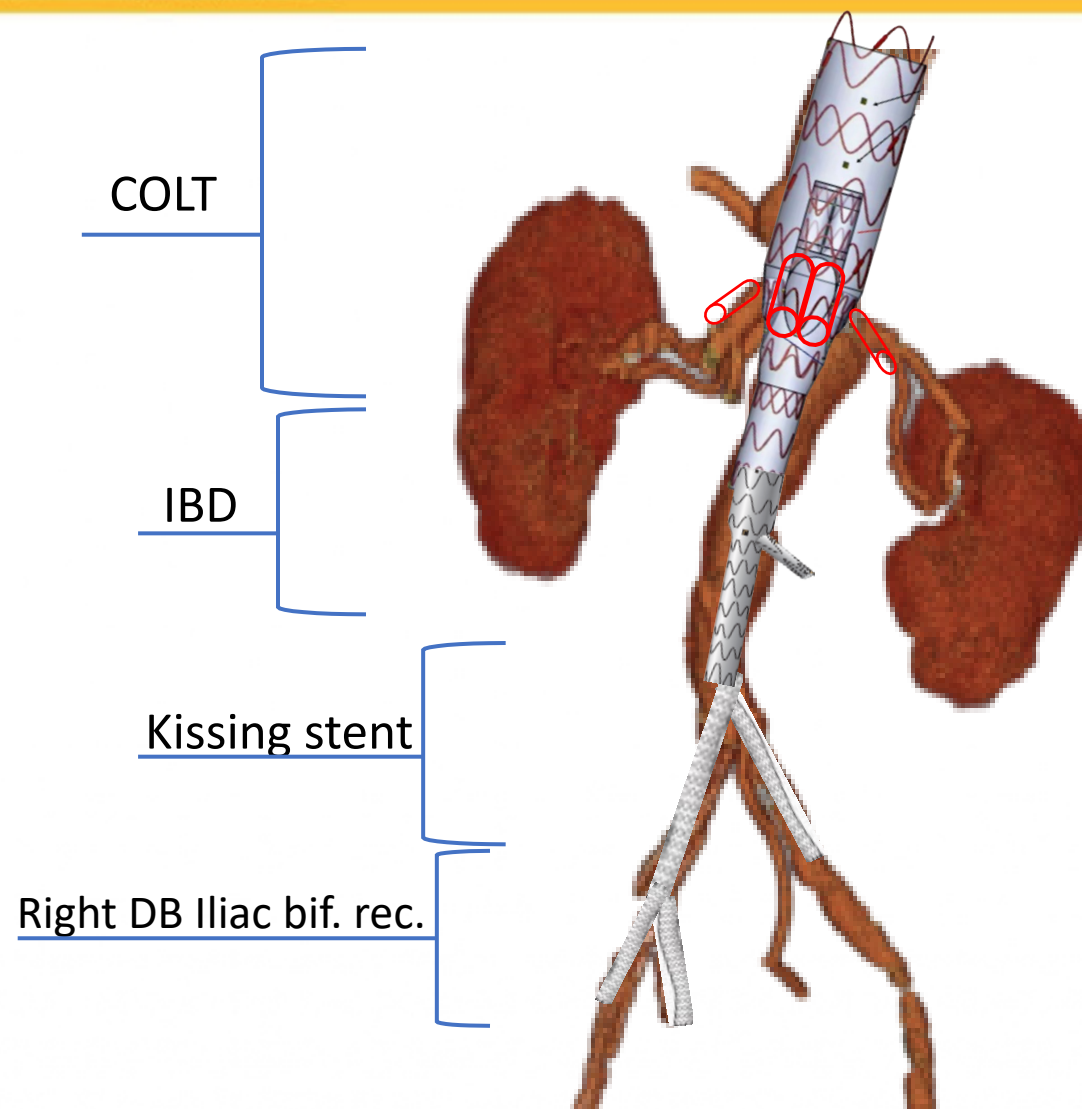
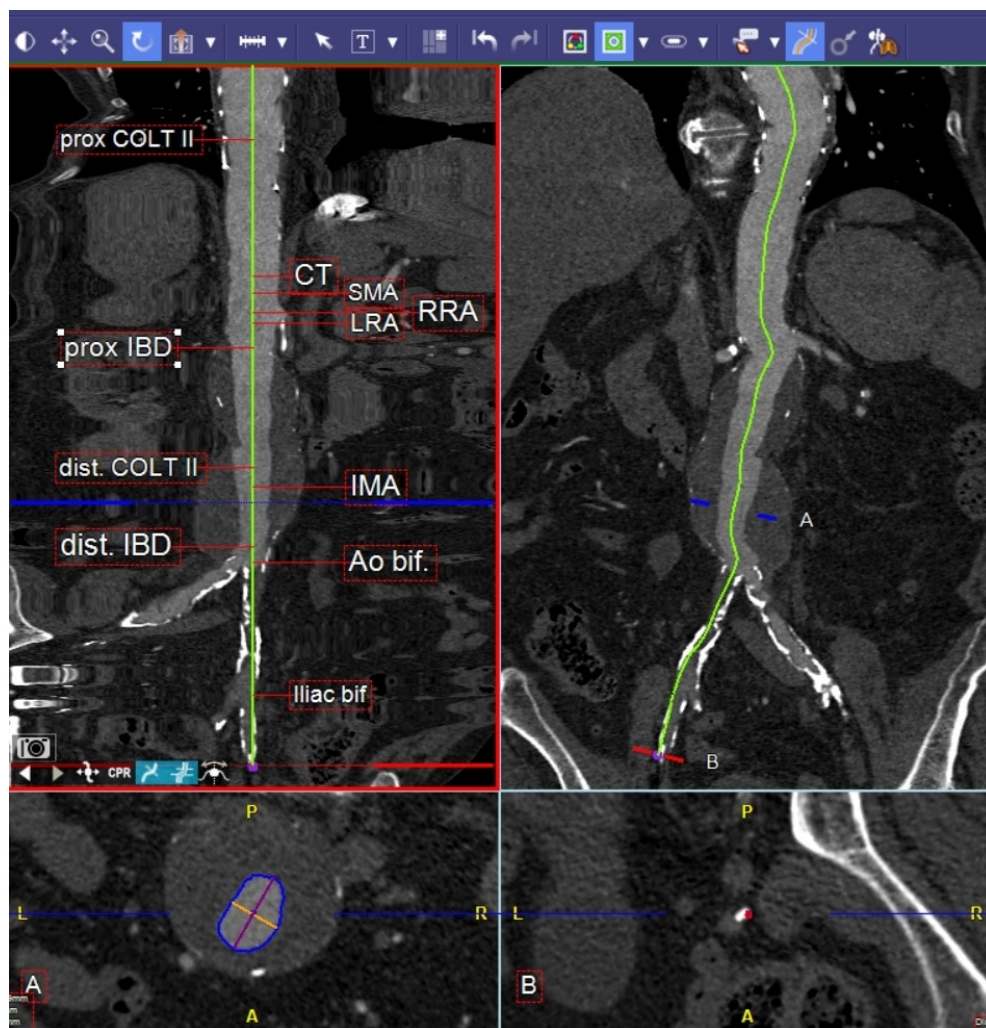
Iliac Bifurcation Reconstruction

Iliac Branch Device



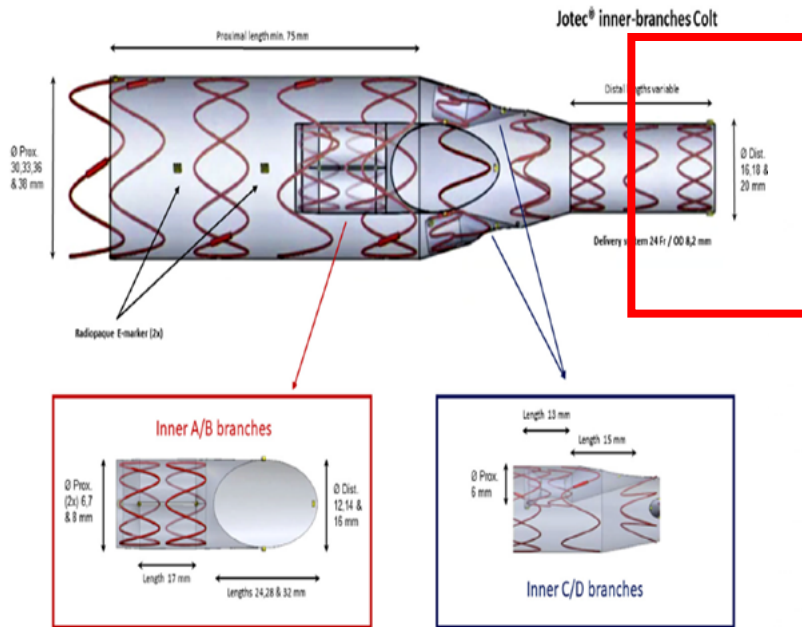


Planning





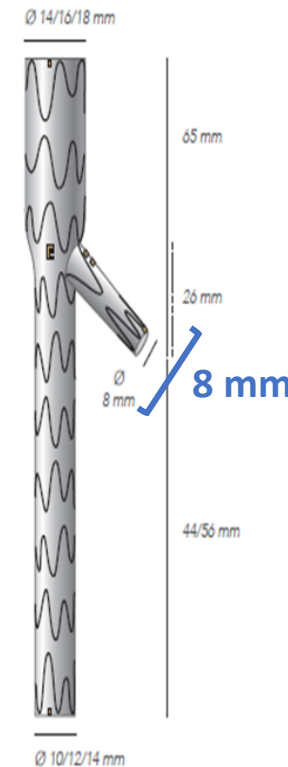
Inner-branched CMD Jotec COLT 3618180



**Distal diameter
18 mm**

E-liac stent graft system (by Jotec)

Proximal diameter 18 mm



Catalog No.	Ø Proximal (mm)	Ø Distal (mm)	Total length (mm)	Proximal length (mm)	Distal length (mm)	OD delivery system (F/mm)
72IB1410L65L44*	14	10	109	65	44	18/6.25
72IB1412L65L44*	14	12	109	65	44	18/6.25
72IB1414L65L44*	14	14	109	65	44	18/6.25
72IB1412L65L56*	14	12	121	65	56	18/6.25
72IB1414L65L56*	14	14	121	65	56	18/6.25
72IB1610L65L56	16	10	121	65	56	18/6.25
72IB1612L65L56	16	12	121	65	56	18/6.25
72IB1614L65L56	16	14	121	65	56	18/6.25
72IB1812L65L56	18	12	121	65	56	18/6.25
72IB1814L65L56	18	14	121	65	56	18/6.25

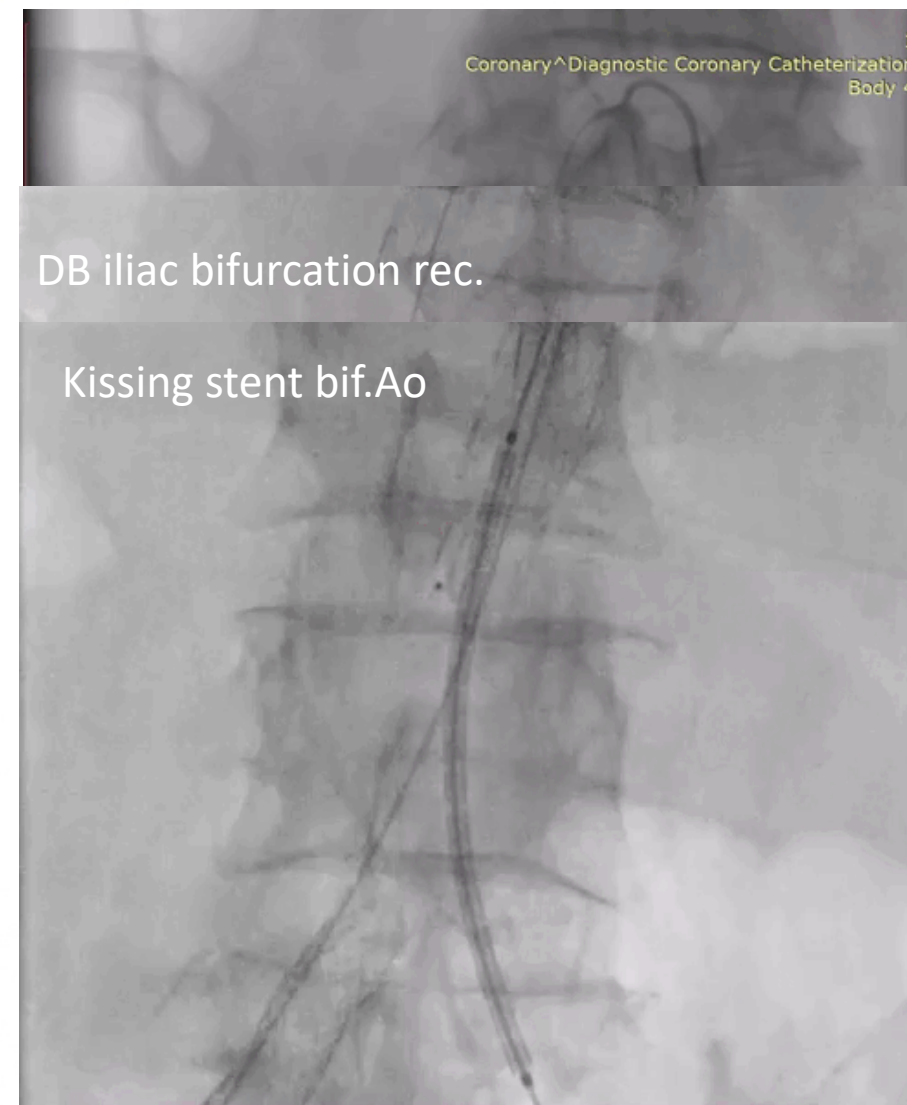
Non stock item

* also suitable for aorto-iliac aneurysms



Two staged procedure

- **First step (bilateral surgical femoral access):**
 - Crossing of rCIA occlusion
 - Stenting of rCIA (11x79 mm VBX) and endoconduit with 24 Fr introducer sheath
 - Deployment of inner-branched CMD stent-graft (36x18x180 mm)
 - Deployment of iliac branch device (E-liac 18x14x65 mm)
 - Double barrell of right iliac bifurcation reconstruction (11x79 mm VBX stent in CIA, 8x59 mm VBX stent in IIA, 8x59 mm VBX stent EIA)
 - Kissing stent of aortic bifurcation (two 11x79 mm VBX stents)





- **Second step (percutaneous left brachial access):**

- connection of TVVs:

CT: 10x37 mm E-ventus stent
9x60 mm Covera stent

SMA: 9x57 mm E-ventus stent
8x80 mm Covera stent

IMA: 8x57 mm E-ventus stent
6x10 mm Covera stent
+
6x40 mm bare stent Eucatech (distal relining)

RRA: 7x57 mm E-ventus stent
6x80 mm Covera stent

LRA: 6x28 mm E-ventus stent
6x80 mm Covera stent



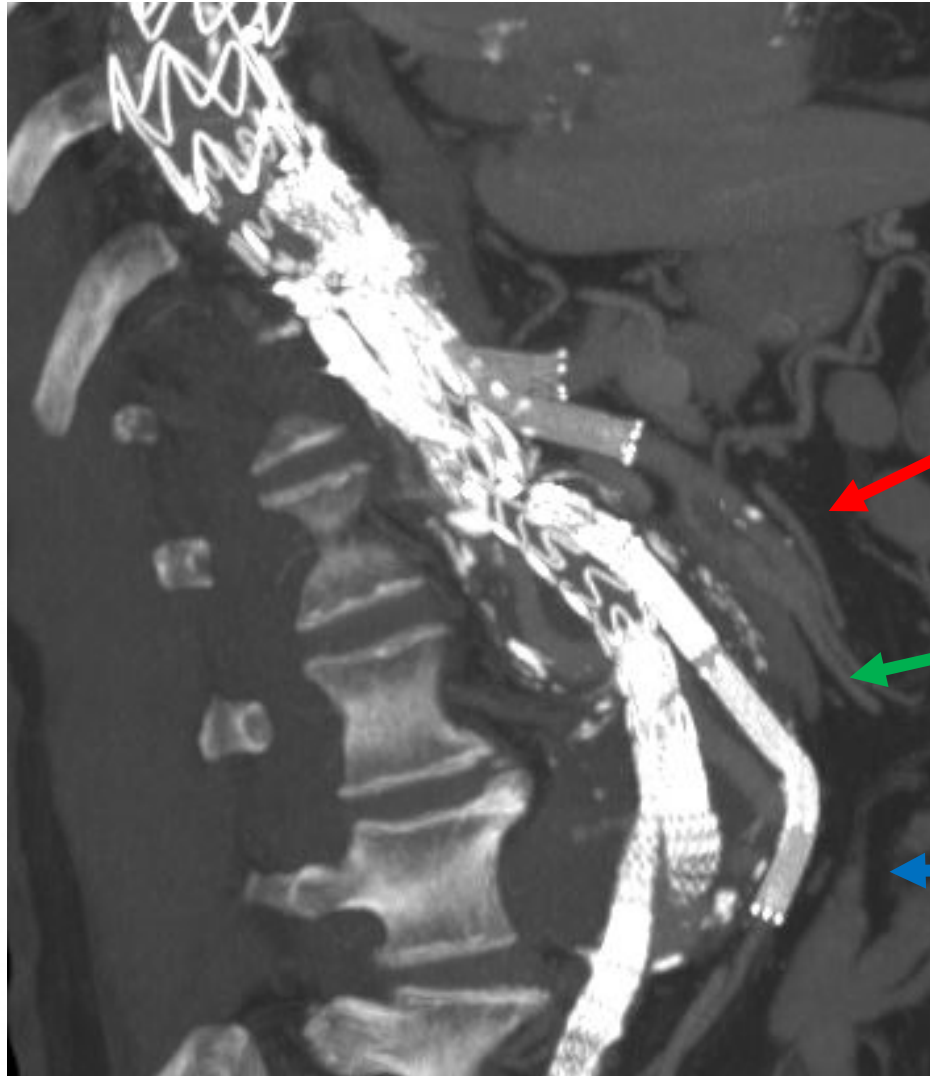
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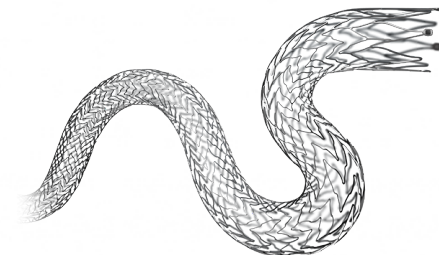


How to...**FIX**



How to...**BRIDGE**

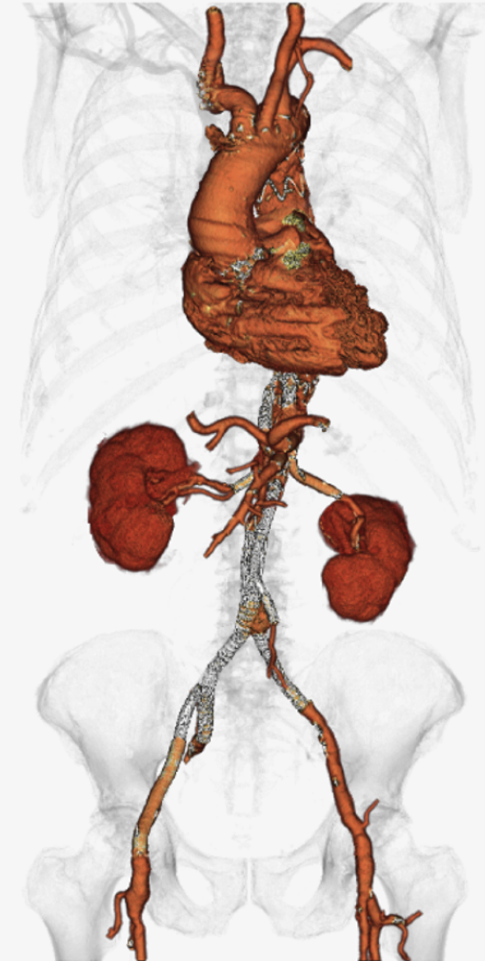
How to...**RELIN**





1 year follow-up CT-scan

- Type II endoleak (lumbar)
- Patency of SGs & TVVs
- Shrinkage of 4 mm



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THANK YOU!

