A New Simplified Method To Precondition The Spinal Cord By Occluding Intercostal Arteries Without Selective Catheterization: Technique And Experience

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Spinal Cord Ischemia

Preventing SCI during TAAA repair

- Preserving subclavian and hypogastric artery
- Blood pressure
- CSF drainage
- Motor evoked potentials
- Early rebridging reperfusion
- **Staged repair**

Staged Repair

- TASP- temporary aneurysm sac perfusion
- TEVAR first
- Embolization lumbar/intercostal arteries

One stage procedure
One stage procedure

20-30 % Paraplegia

Two stage procedure

0 % paraplegia
Full recovery

Coil embolization

Courtesy Dr Etz, Leipzig
A new simple and fast alternative to embolization

EMBO STENT GRAFT

What is an Embo Stent Graft?

- Oversized SG
- Maximum diameter at present: 51 mm
- Exclude the intercostals arteries for the first 20 cm of the TAAA
- 1-3 pieces of SG

PRE EMBO SG

65 mm

PRE EMBO SG
CONCLUSION EMBO STENT GRAFT

- Rapid, simple technique for precondition the spinal cord
- Aim for exclusion of the intercostals arteries for the first 20 cm of the TAAA
- Further studies needed