

Initial Experience with the E-liac[®] Iliac Branch Device for the Endovascular Aortic Repair of Aorto-iliac Aneurysms

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Disclosure

Speaker name:

Jan Peter Goltz.....

I have the following potential conflicts of interest to report:

Consulting, investigator, lecture fees

- ABBOT GmbH
- BARD
- Boston Scientific
- COOK
- JOTEC GmbH
- W.L. Gore

Purpose

- Technical/clinical success
- Safety
- Patency

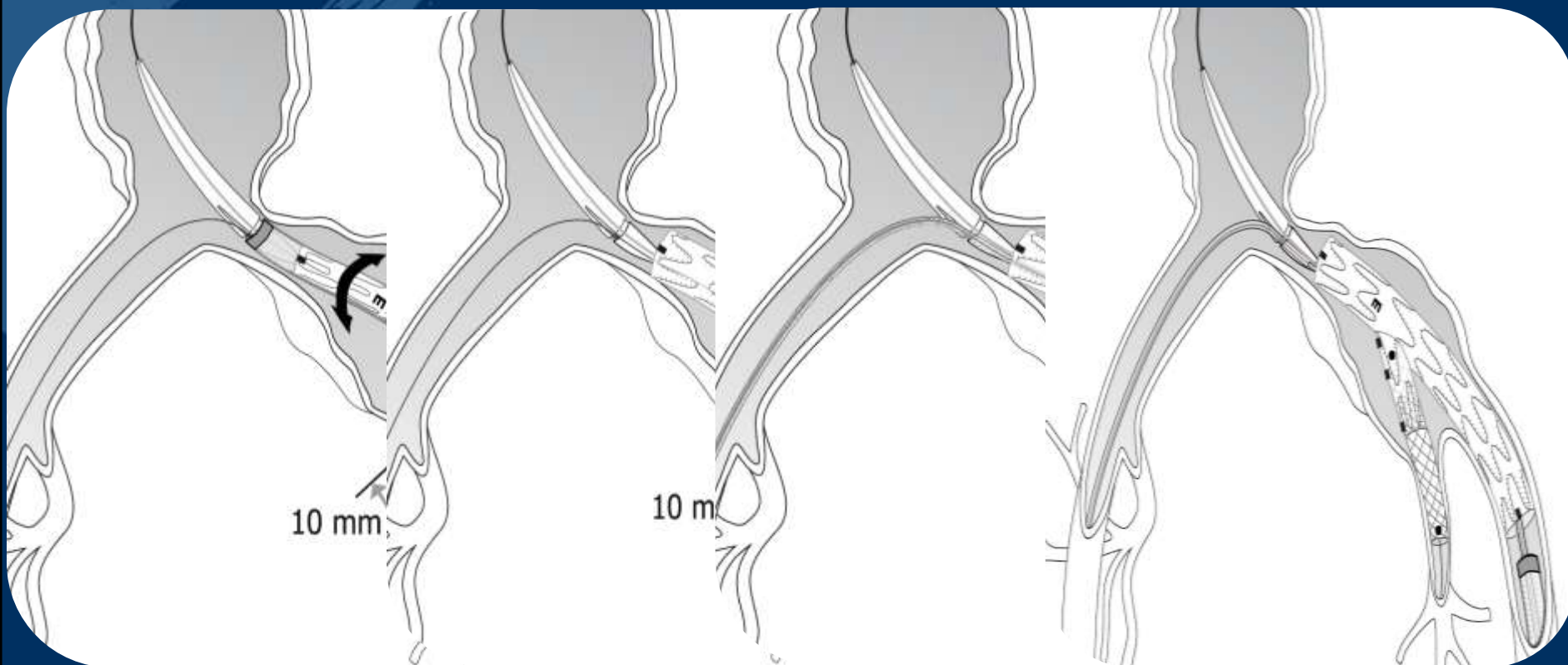
.... of a novel iliac branch device (IBD) for revascularization of the hypogastric artery (HA) during EVAR



Iliac Branch Device



- E-liac[®] (Jotec, Hechingen, Germany)
- Off-the-shelf 18F stent-graft + sidearm for HA



Methods

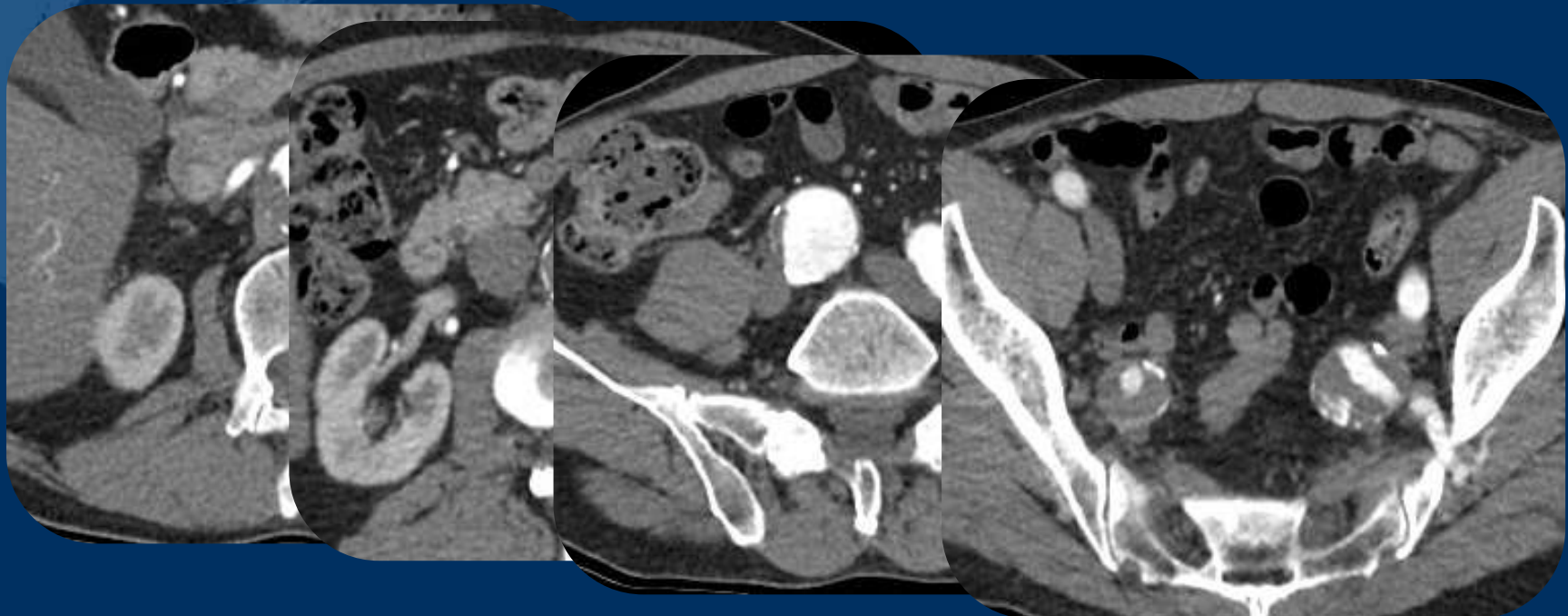
- 21 men (mean age 73.3+/-6.2years)
- General anesthesia, open (n=7) or percutaneous (n=14) implantation of E-liac[®]
- Infra-renal- (n=17), branched (n=2) or chimney (n=1) EVAR
- Various sidebranch stent-grafts (balloon-/self-expanding): E-ventus[®], Livestream[®], AdvantaV12[®], BeGraft[®], Viabahn[®]
- Ipsilateral HA aneurysms → coil-embolization of branches; landing zone: largest vessel

Methods

- Safety (30-day survival)
- Peri-procedural complications
- Technical success: freedom from type I/III EL
- Clinical success: freedom from ischemic compl.
- Mid-term patency of the IBD/IBD-SG
- Type II Endoleaks
- Rate of re-intervention

Case

- 71 year-old male
- Juxta-renal AAA, bilateral common iliac and bilateral hypogastric artery aneurysms



Case

- Staged procedure
- **BEVAR**



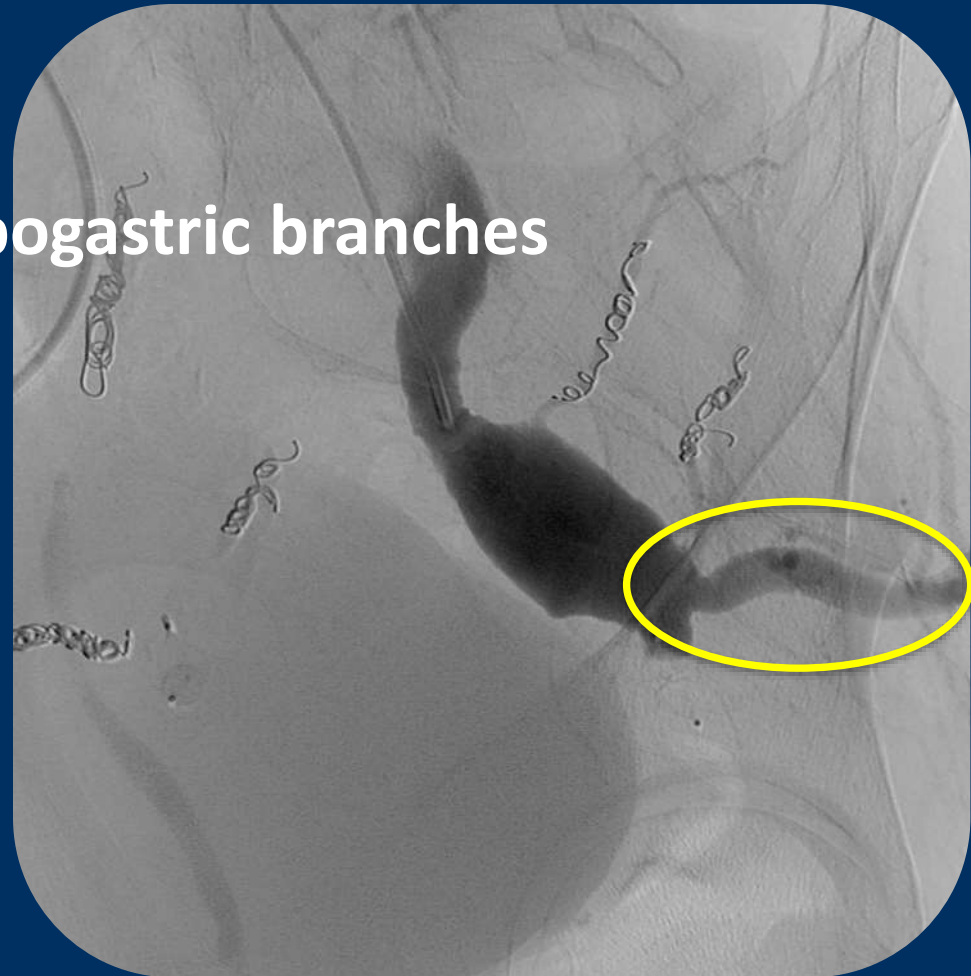
Case



➤ Staged procedure

➤ BEVAR

➤ Embolization of hypogastric branches



Case

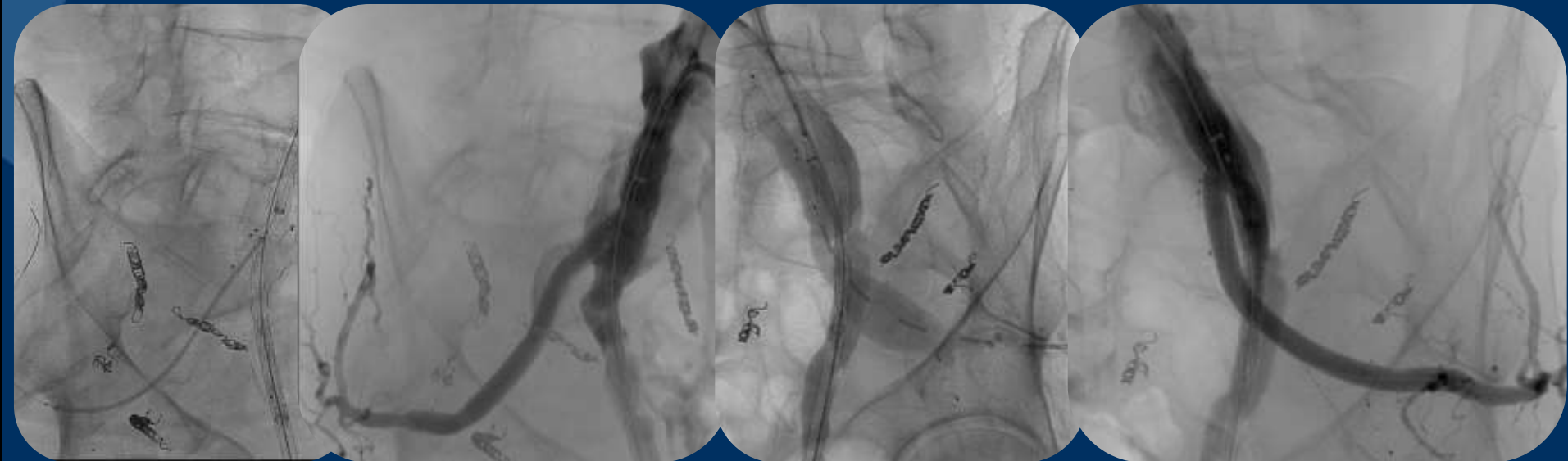


- Staged procedure

- BEVAR

- Embolization of hypogastric branches

- **Bilateral IBD**



Case - outcome



Results

- Mean follow-up: 341 days (range 4–1103 d)
- 30-day mortality: 0%
- Technical success: 100%
- Clinical success: 95.2%
- Primary patency IBD/IBD-SG (1 year): 100%
- Peri-procedural complications: 3/21 patients (14.3%), none IBD-related

Results

- Type II endoleaks: 7 EL in 6 patients (aorta: n=5; HA: n=2)
- Overall re-intervention rate: 23.8%
- Two IBDs were revised for type Ib EL
- IBD-related re-intervention-rate: 8.7%
- Mean procedure time: 199.7 ± 98.6 min
- Mean fluoroscopy time: 50.3 ± 19.9 min

Conclusion

- E-liac[®] IBD safe and efficient
- Satisfying patency of IBD/IBD-SG
- Relocation of landing zone into major branch of hypogastric artery seems to be effective

Thank you

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CLINICAL I

Initial Ex for the E

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Abstract

Purpose Occlusion of internal iliac arteries during endovascular treatment (EVAR) of abdominal aortic



aneurysms, occurrence of type II ELs, rate of re-interventions and additional treatment of the revascularized IIA for landing zone preparation.

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