

3 years experience with covered stents

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Disclosures

Consultant

Boston Scientific, BD, Artivion

Grant/research support

Medicor, iVascular, Medtronic, Biotronik, DMB Medical

Evidence-based medicine

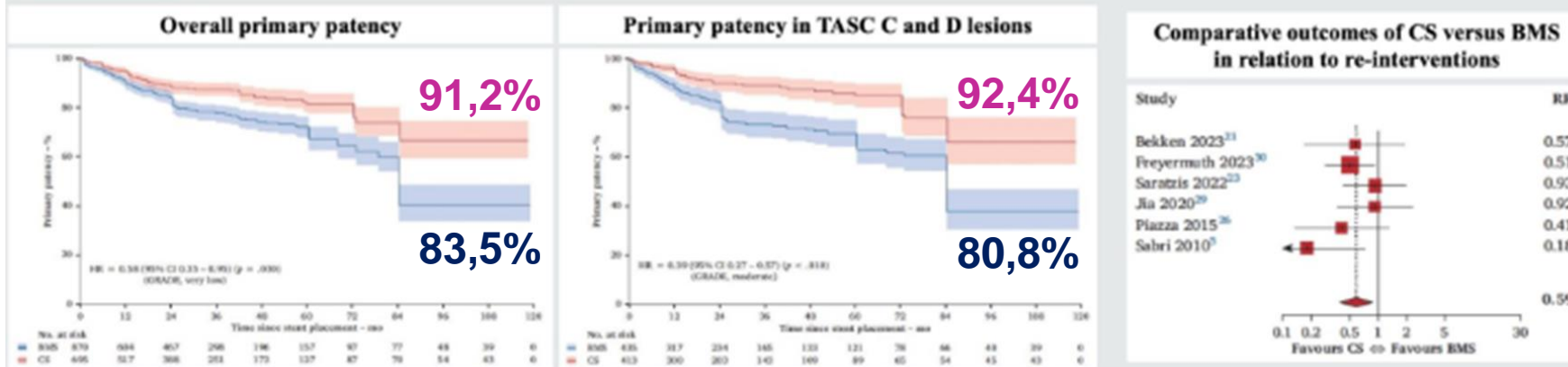
Covered Stents Versus Bare Metal Stents in the Treatment of Aorto-iliac Disease: A Systematic Review and Individual Participant Data Meta-analysis



Endovascular treatment of aorto-iliac disease: covered stents (CS) vs. bare metal stents (BMS)

Eleven studies, including 1 896 patients and 2 092 lesions

Primary endpoint: primary patency



Overall primary patency for CS and BMS at 48 months was 91.2% (95% CI 84.1 - 99.0) and 83.5% (95% CI 70.9 - 98.3).

The 48 month primary patency for CS and BMS when treating TASC C and D lesions was 92.4% (95% CI 84.7 - 100) and 80.8% (95% CI 64.5 - 100).

CS displayed a decreased re-intervention risk (RR 0.59, 95% CI 0.40 - 0.87).

iCover™ stent

- balloon expandable covered stent
- cobalt-chromium stent encapsulated into an inner and outer ePTFE layer
- over the wire
- 0.035
- stent diameter 5 to 10 mm
- stent length 17, 27, 37 or 57 mm
- shaft length 80 or 140 cm



iCover™ stent

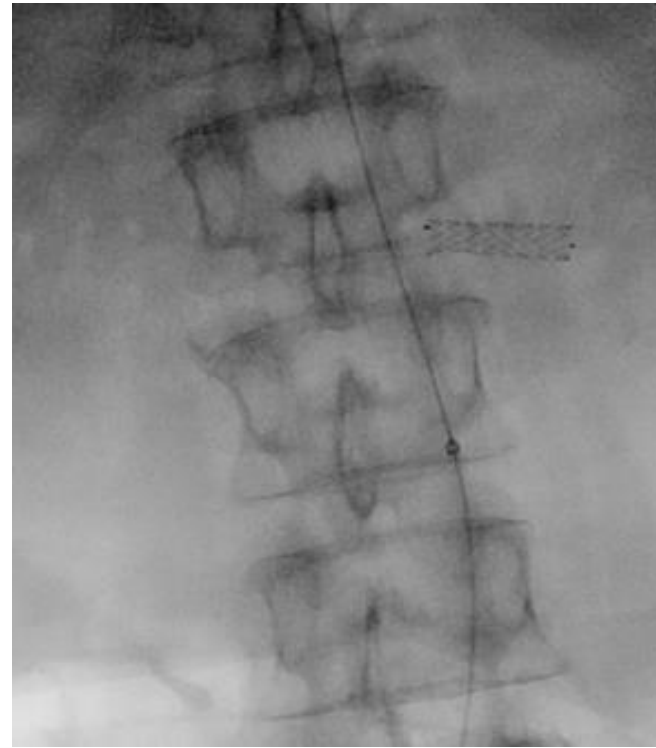
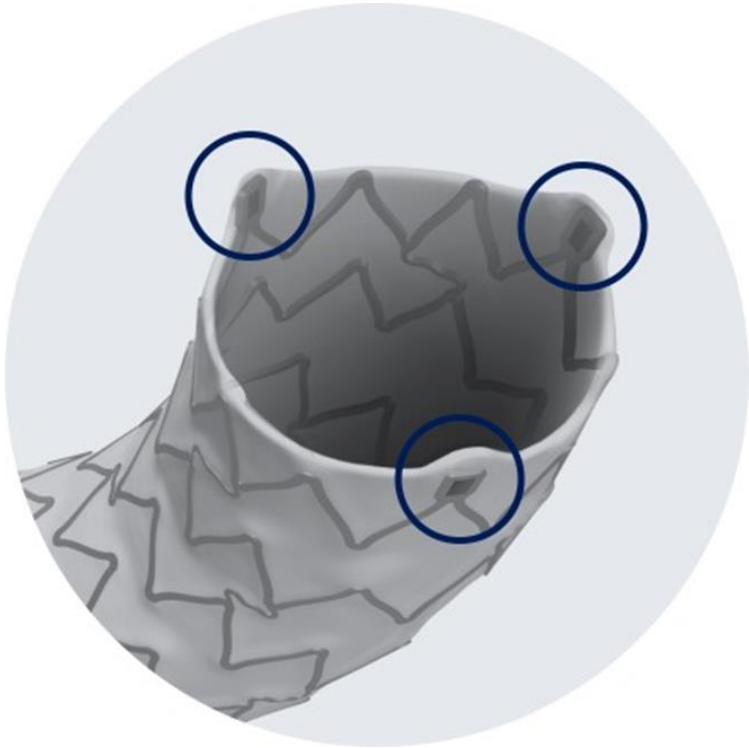
Advantages :

- visibility
- flexibility
- small profile
- post-expansion capacity
- price



Visibility

enhanced visibility through 3 radiopaque markers at each extremity

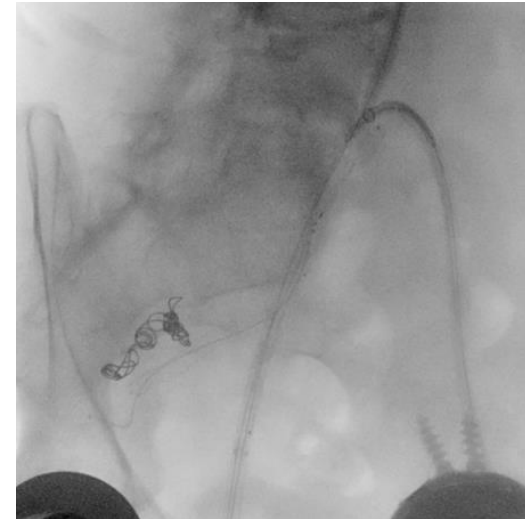


Flexibility

outstanding flexibility allows excellent **navigability**

open cell design

alternating connection bridges



Small profile

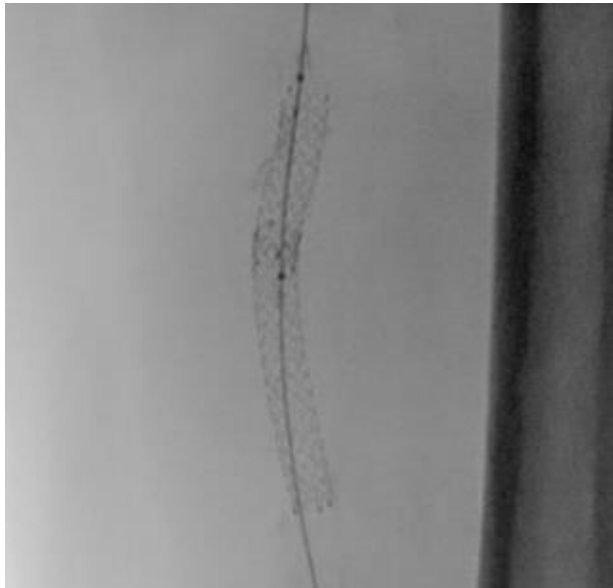
Effective catheter length (cm)	Stent diameter (mm)	Stent length (mm)			
		17	27	37	57
80	5	SPCBCC35080050017	SPCBCC35080050027	SPCBCC35080050037	SPCBCC35080050057
	6	SPCBCC35080060017	SPCBCC35080060027	SPCBCC35080060037	SPCBCC35080060057
	7	SPCBCC35080070017	SPCBCC35080070027	SPCBCC35080070037	SPCBCC35080070057
	8	SPCBCC35080080017	SPCBCC35080080027	SPCBCC35080080037	SPCBCC35080080057
	9		SPCBCC35080090027	SPCBCC35080090037	SPCBCC35080090057
	10		SPCBCC35080100027	SPCBCC35080100037	SPCBCC35080100057
140	5	SPCBCC35140050017	SPCBCC35140050027	SPCBCC35140050037	SPCBCC35140050057
	6	SPCBCC35140060017	SPCBCC35140060027	SPCBCC35140060037	SPCBCC35140060057
	7	SPCBCC35140070017	SPCBCC35140070027	SPCBCC35140070037	SPCBCC35140070057
	8	SPCBCC35140080017	SPCBCC35140080027	SPCBCC35140080037	SPCBCC35140080057
	9		SPCBCC35140090027	SPCBCC35140090037	SPCBCC35140090057
	10		SPCBCC35140100027	SPCBCC35140100037	SPCBCC35140100057

● Introducer compatibility: **6F** ● Introducer compatibility: **7F**

Post-expansion capacity

≤ 2 mm

better adaptation to target artery, overlapping (BEVAR, IBD),
aneurysm, FEVAR



Price

- lump sum reimbursement for covered stents in arterial disease except the carotids = 1800,16 Euros
- the price VAT included of one iCover™ is lower than the reimbursement

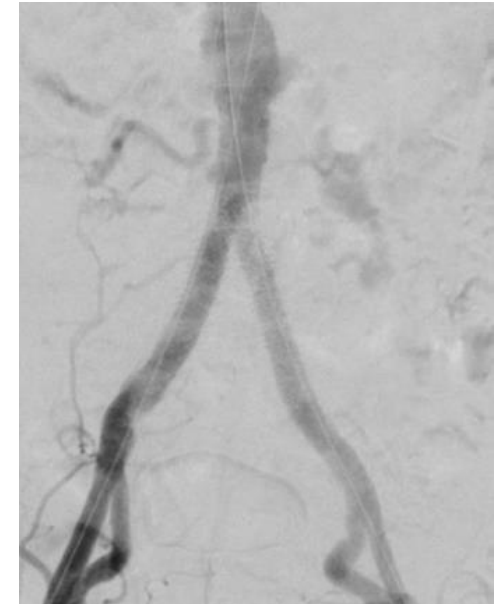
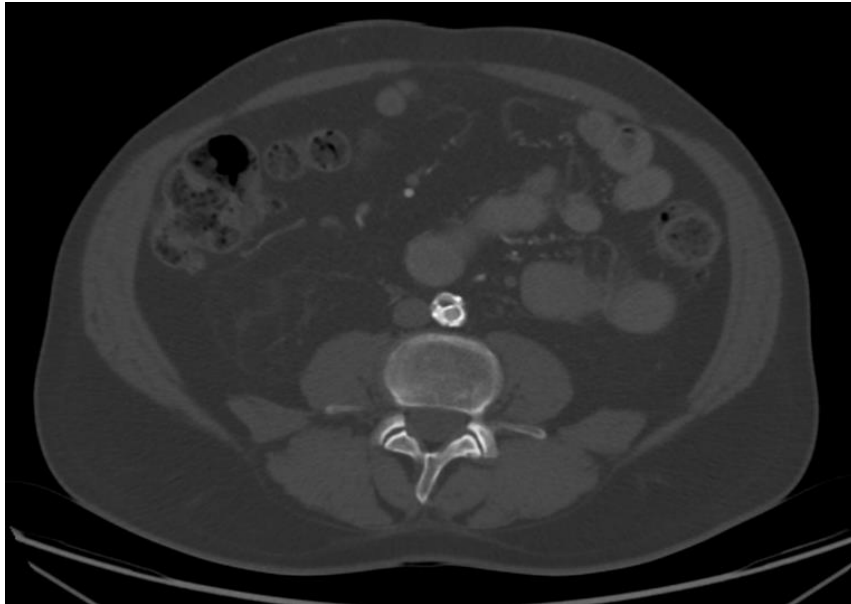
Instructions for use (IFU)

- Intended use :
 - restoring atherosclerotic lesions of the common and external iliac arteries and the renal arteries
 - treatment of aneurysms and perforations, ruptures and acute fistulas
- Indications :

patients presenting peripheral vascular system pathologies

Applications

iliac kissing stents for in-stent restenosis (ISR): 2 iCover 9-57™

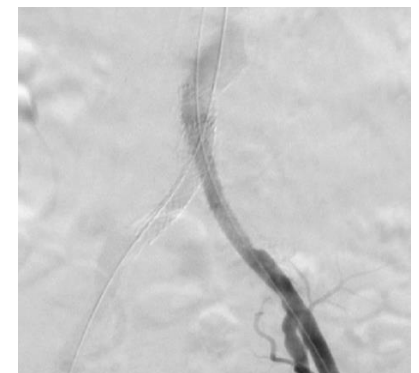
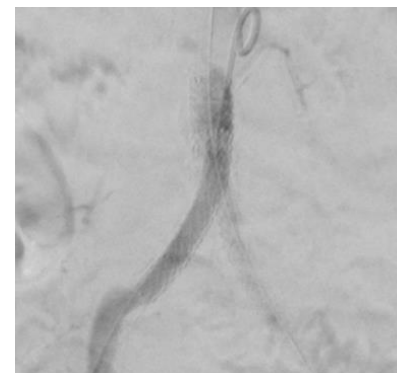
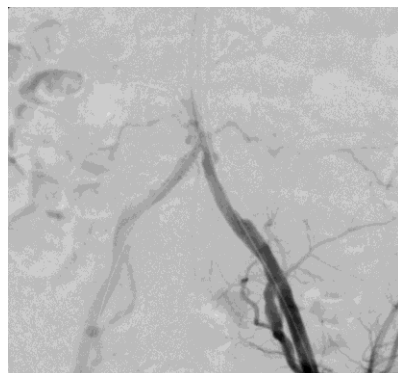
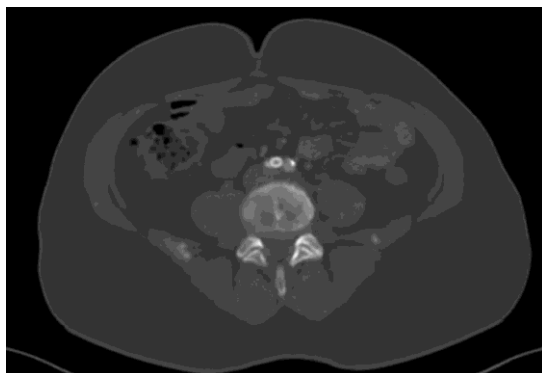
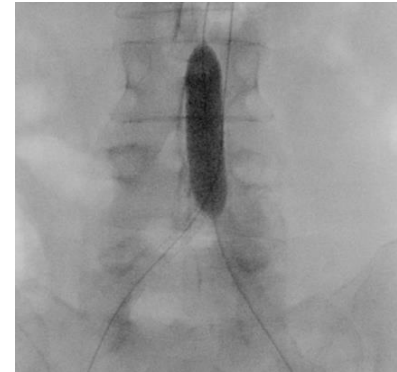
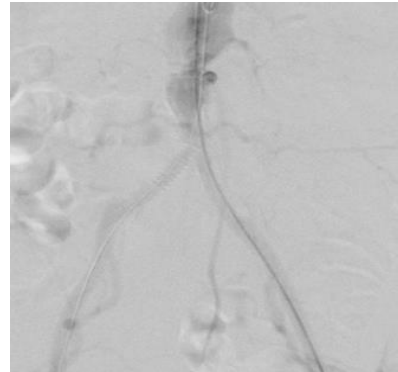
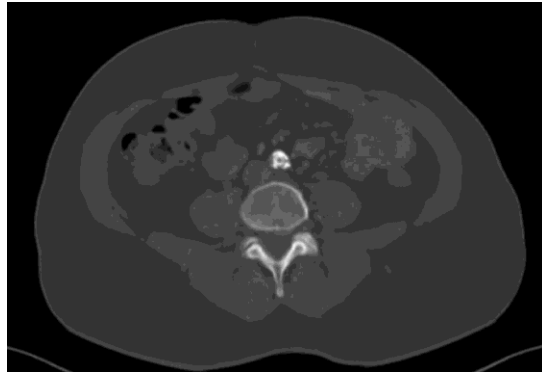


Applications

CERAB for ISR :

iCover 10-27™, post-dilated with Oceanus 12-40™ balloon

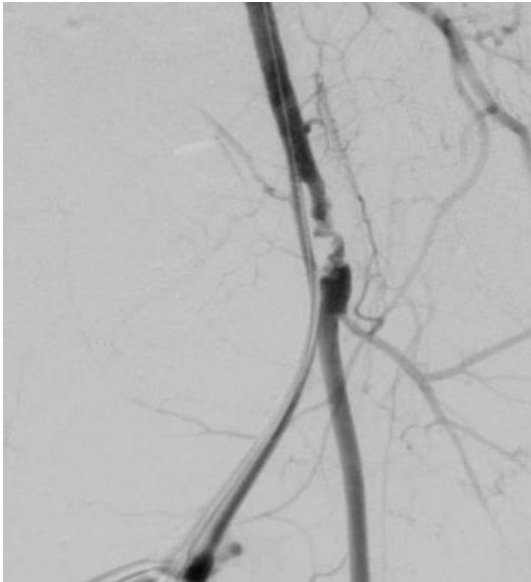
2 iCover 7-57™



Applications

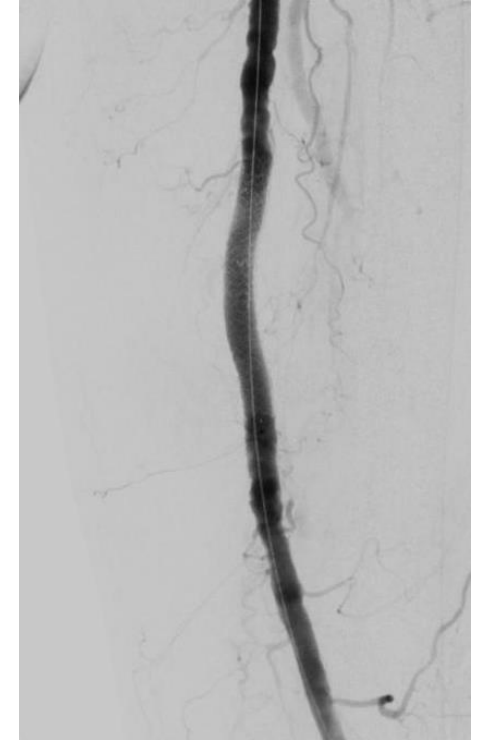
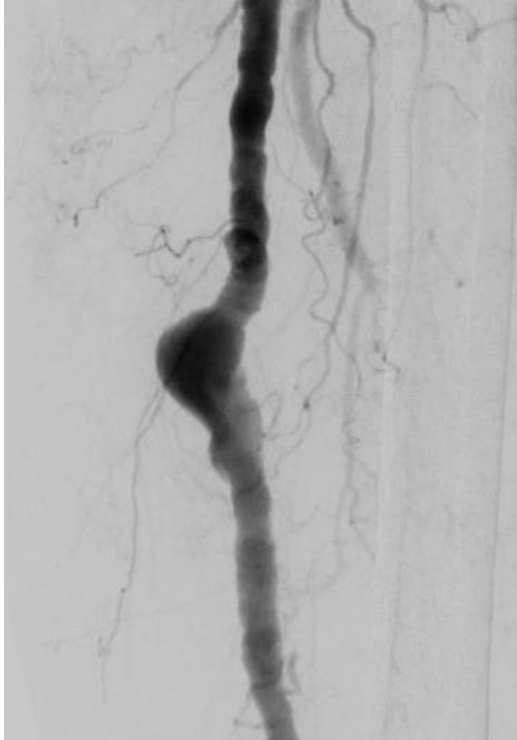
post-surgery common femoral artery for restenosis : iCover 7-37™

pre-dilation with Oceanus 7-40™



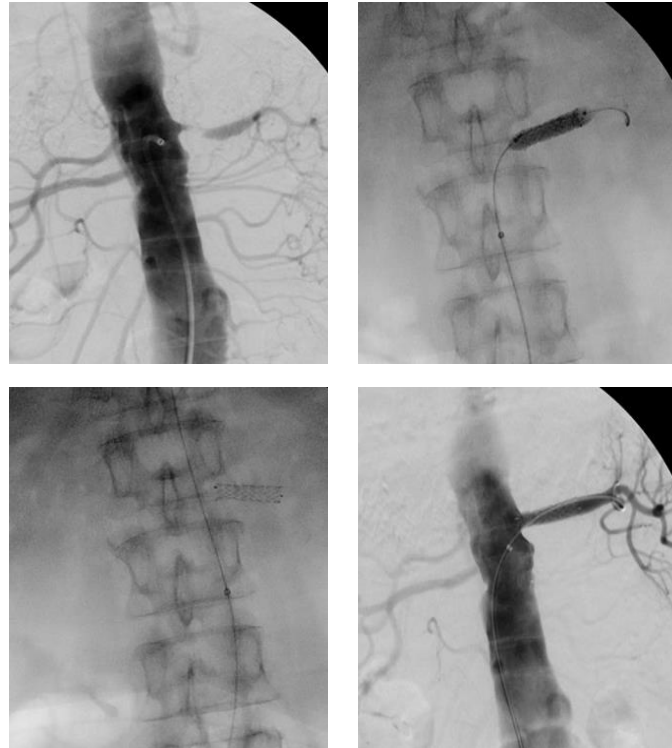
Applications

superficial femoral artery aneurysm : iCover 8-57™ and 9-37™

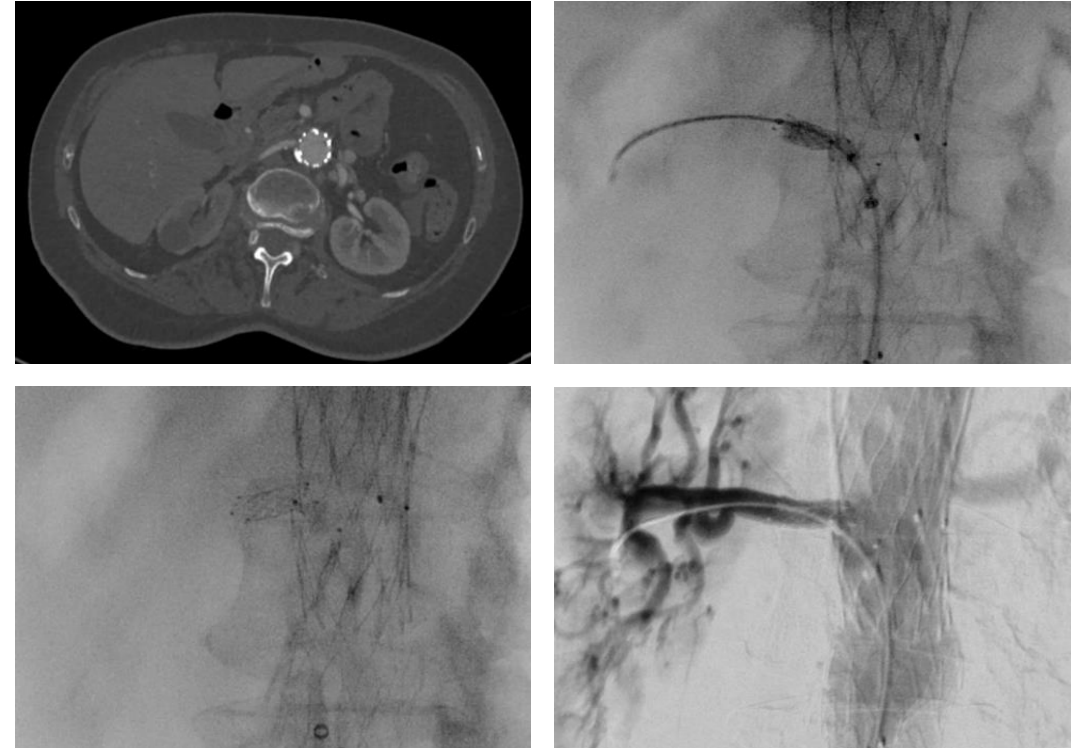


Applications

renal artery : iCover 7-27™

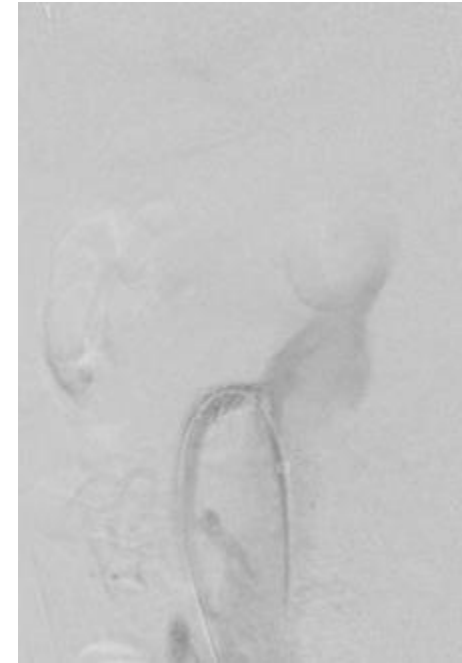
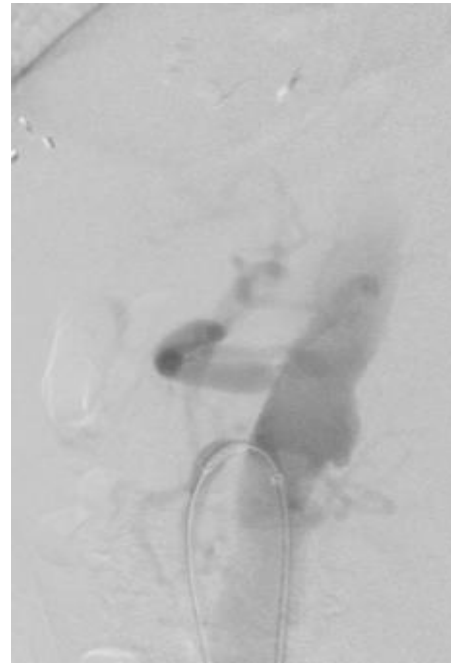
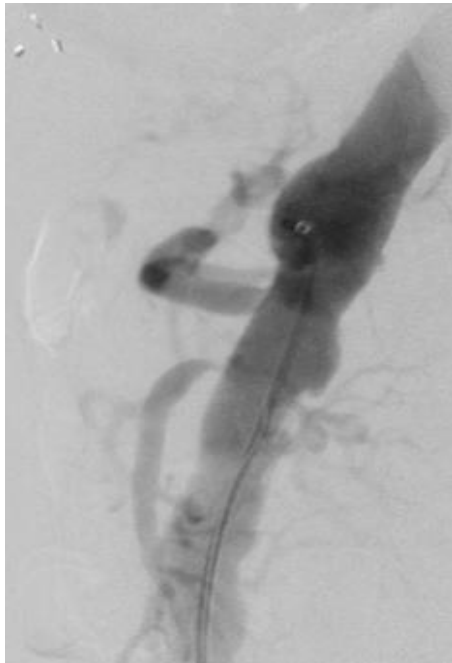


renal artery : iCover 5-17™



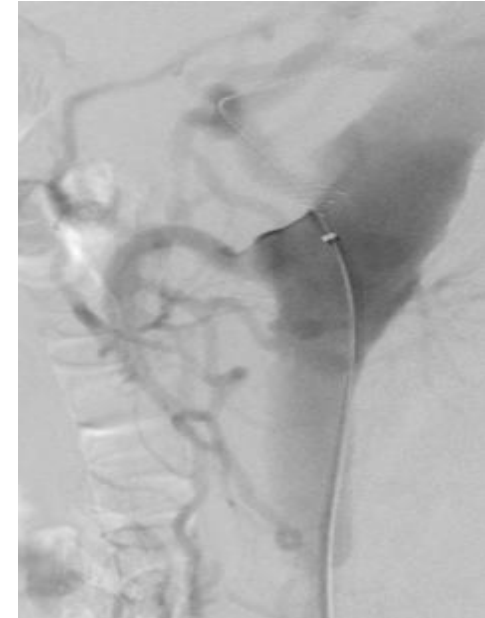
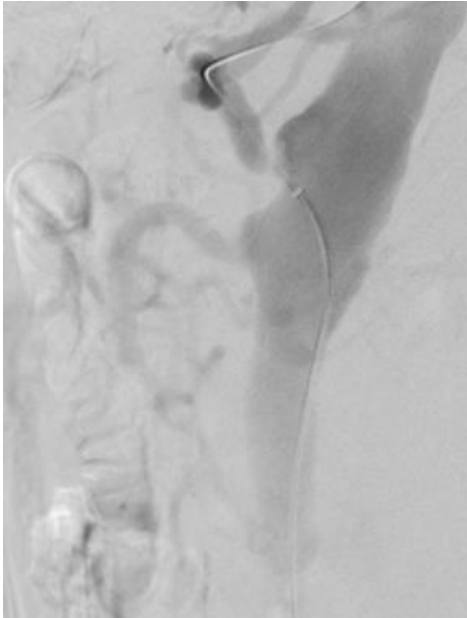
Applications

superior mesenteric artery : iCover 7-17™



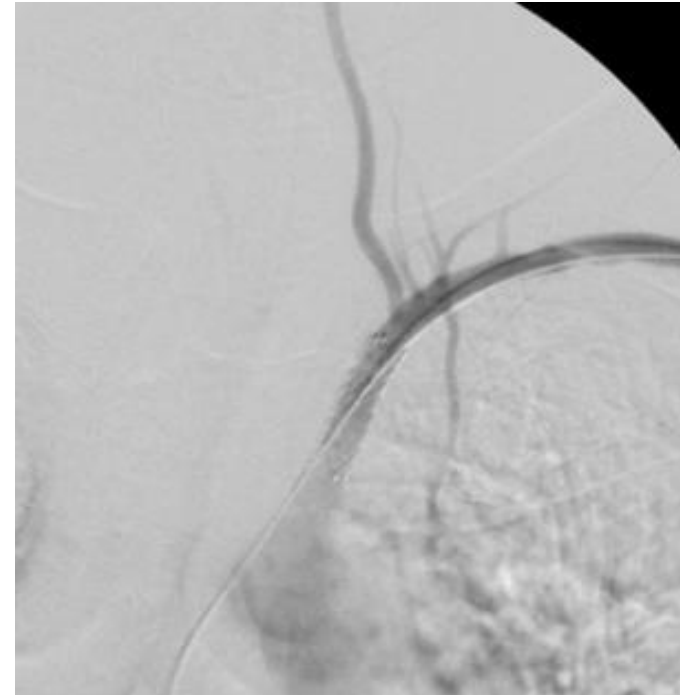
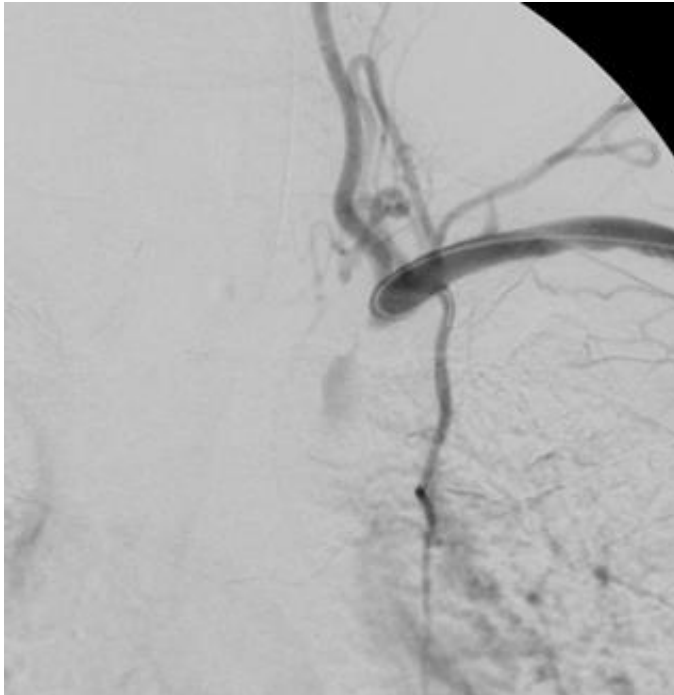
Applications

celiac trunk : iCover 8-17™



Applications

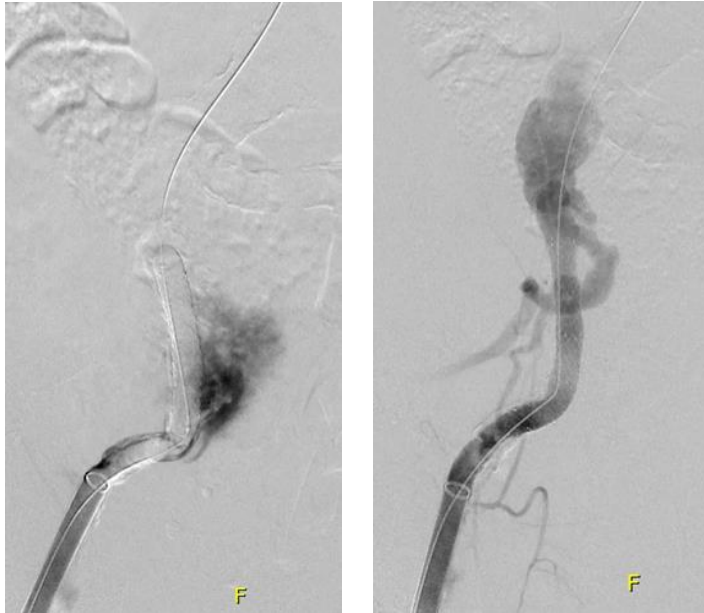
subclavian artery : iCover 7-27™



Applications

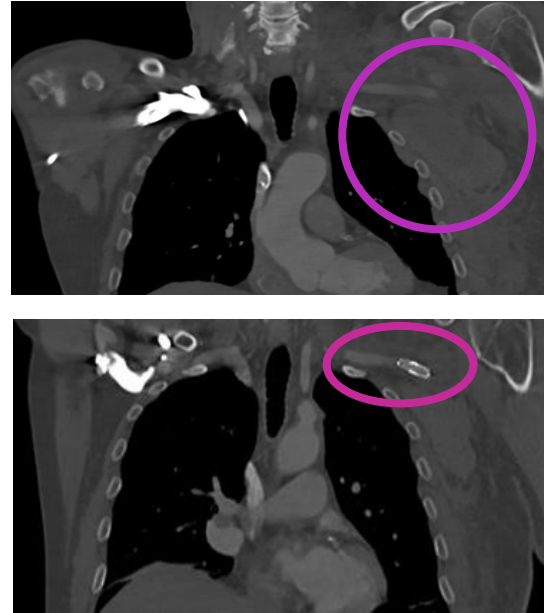
rupture

2 iCover 10-57™



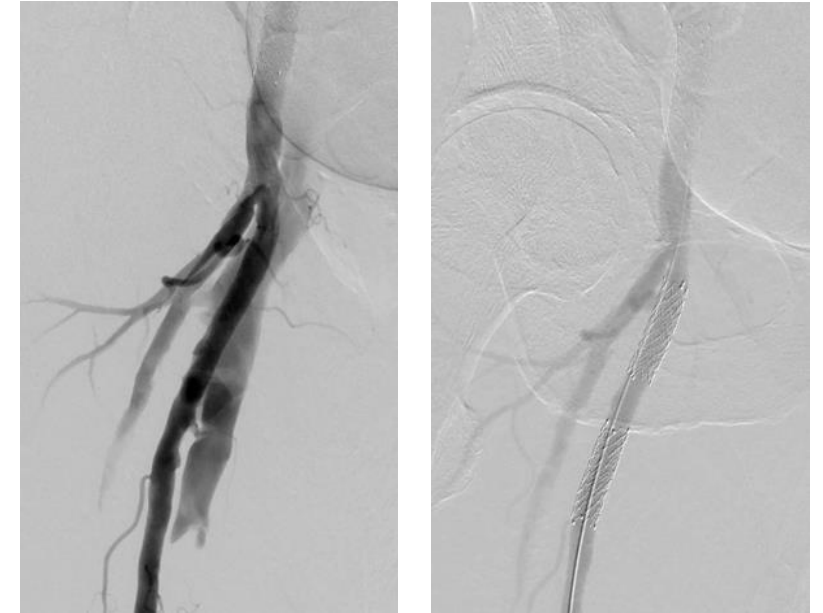
perforation

iCover 7-27™



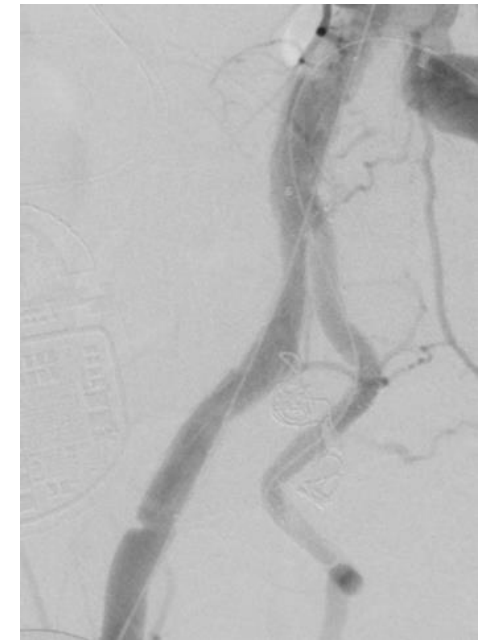
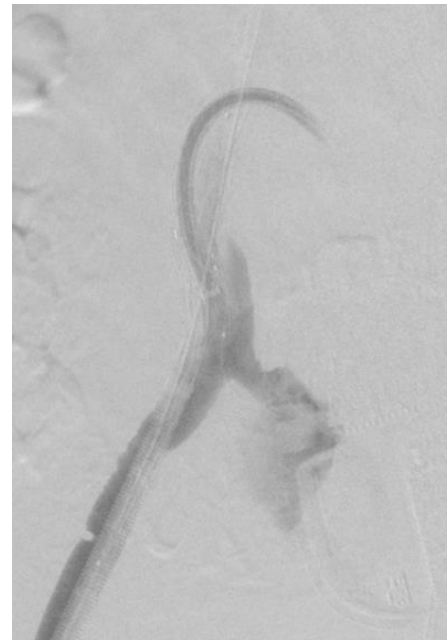
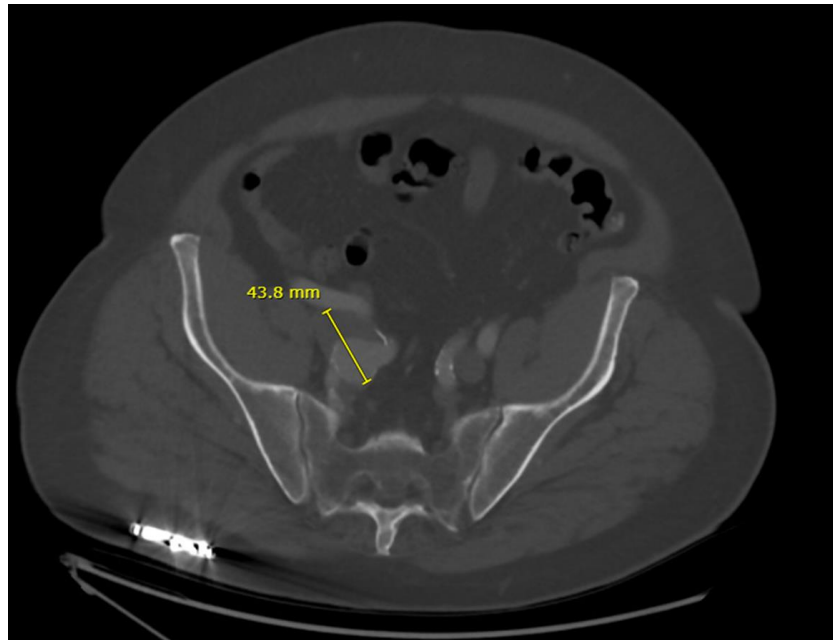
AV fistula

2 iCover 6-27™



Applications

IBD : iCover 7-57 and 8-57™



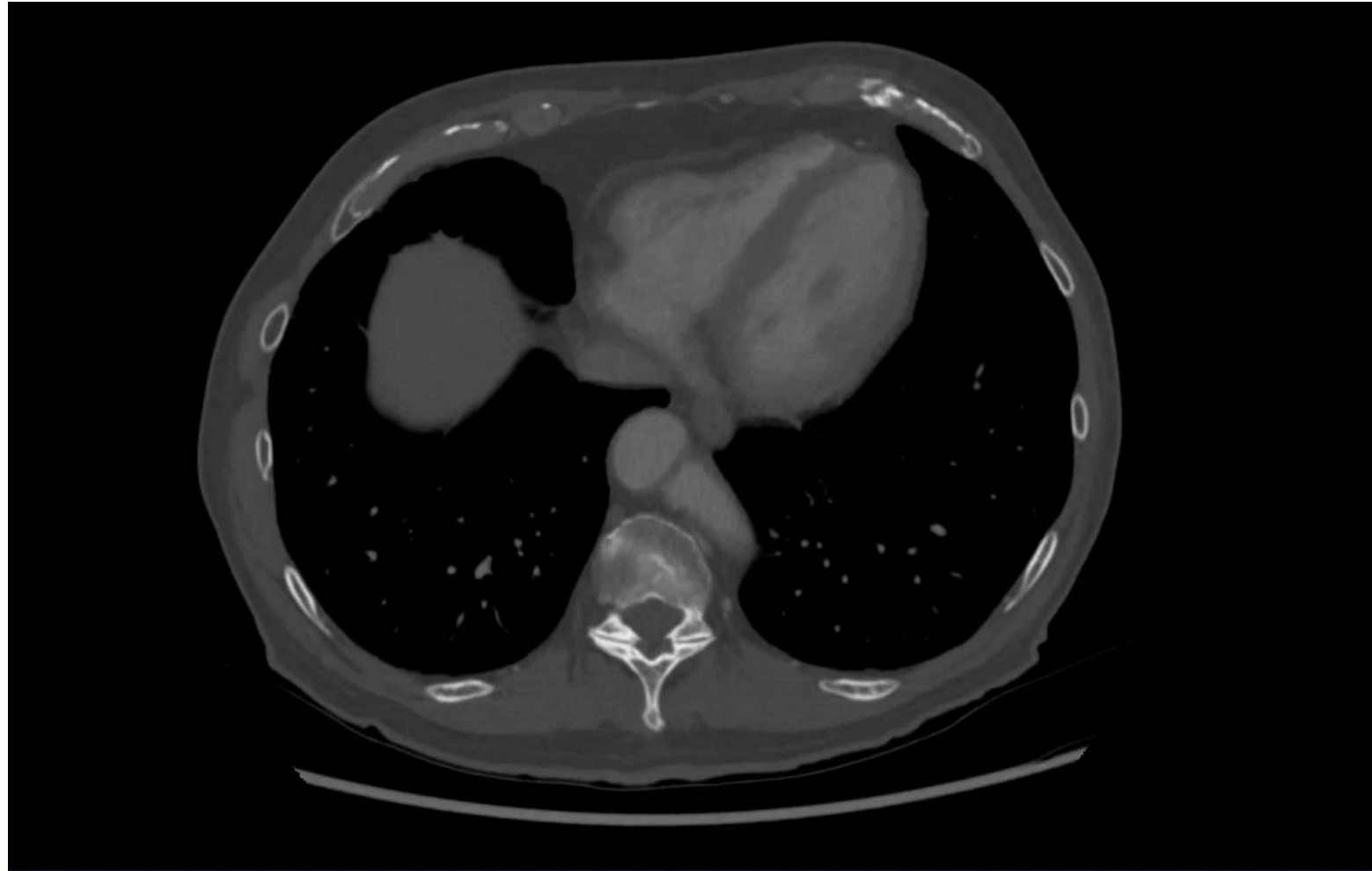
Applications

(i) BEVAR



Applications

FEVAR



Conclusions

- iCover™ is an „**allroad**“ balloon expandable covered stent
- it is **easy** to use, due to its visibility, flexibility and small profile
- the **post-expansion capacity** make it usefull for overlapping and FEVAR
- belgian **reimbursement** for covered stents allows iCover™ use