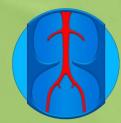




покрытый стент непокрытый

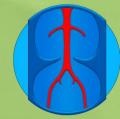


P. Goverde MD, Vascular Clinic ZNA Antwerp,Belgium





Covered stent UNCOVERED



P. Goverde MD, Vascular Clinic ZNA Antwerp,Belgium



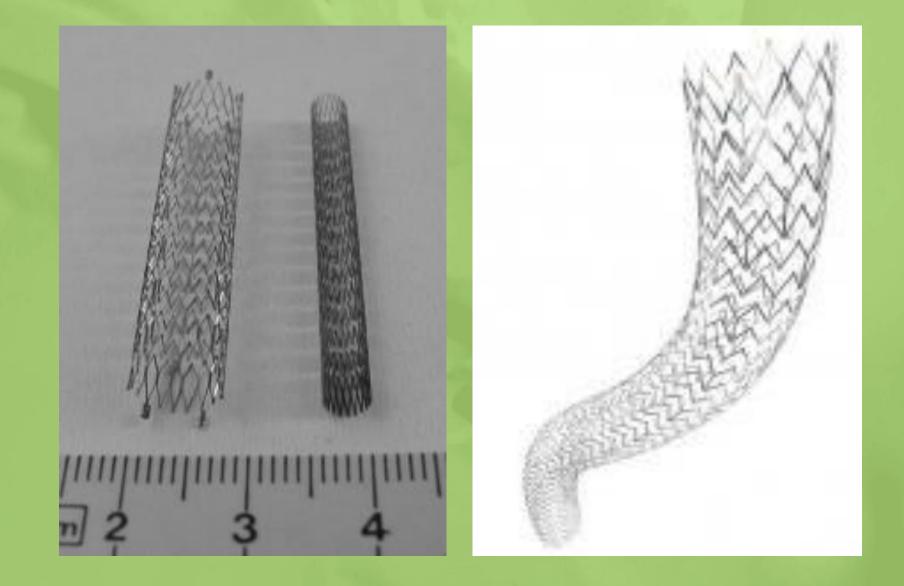
- Introduction Vascular Clinic ZNA
 - 7 vascular surgeons
 - Dept Thoracic & Vascular Surgery of ZNA
 - ZNA = English translation = Hospital Network Antwerp
 - Fusion of 3 hospitals : Total beds : 2500
 - 6000 employees :
 - 3200 nurses,
 - 600 specialists
 - Taking care of 6000 patients / day
 - 1 million medical & technical acts / year
 - 75000 hospital admissions / year



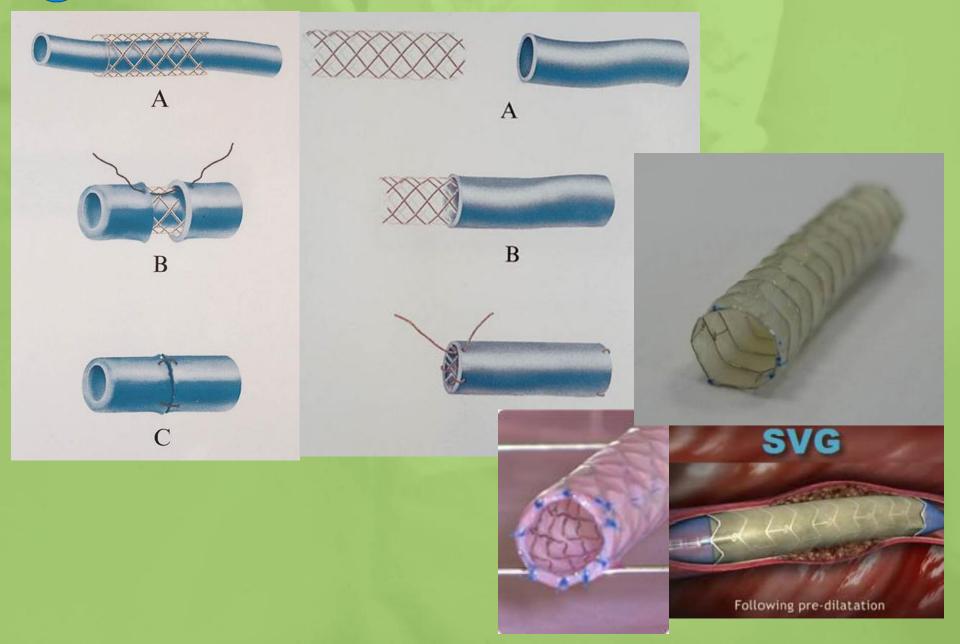




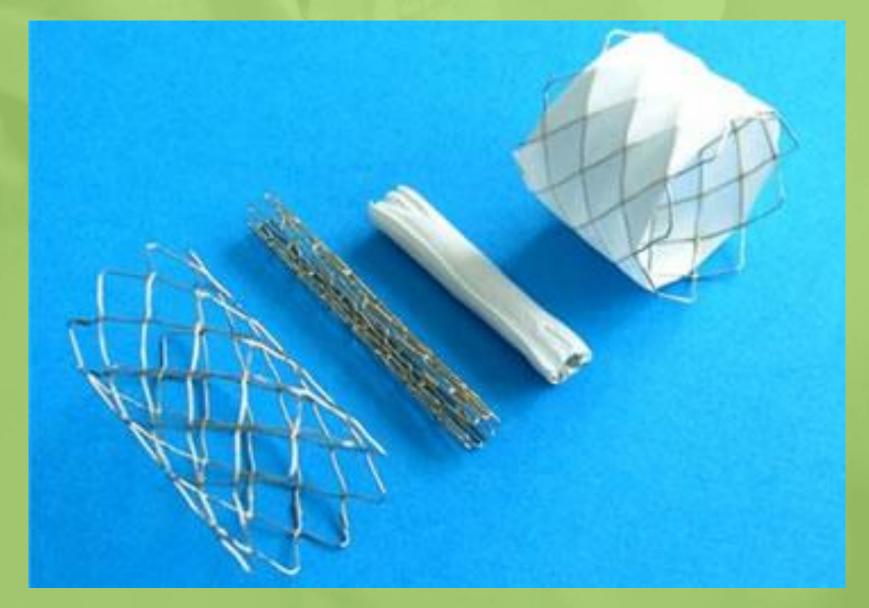




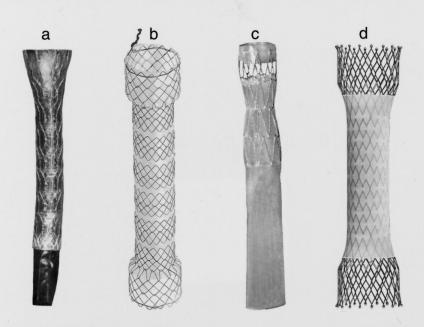


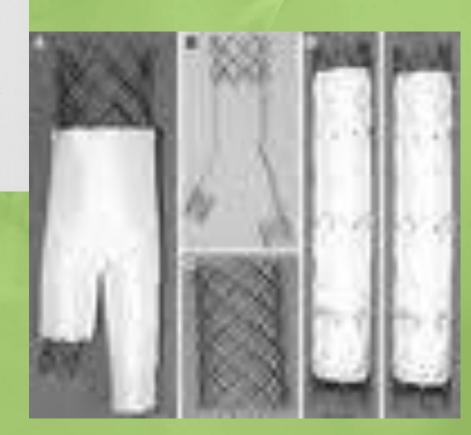














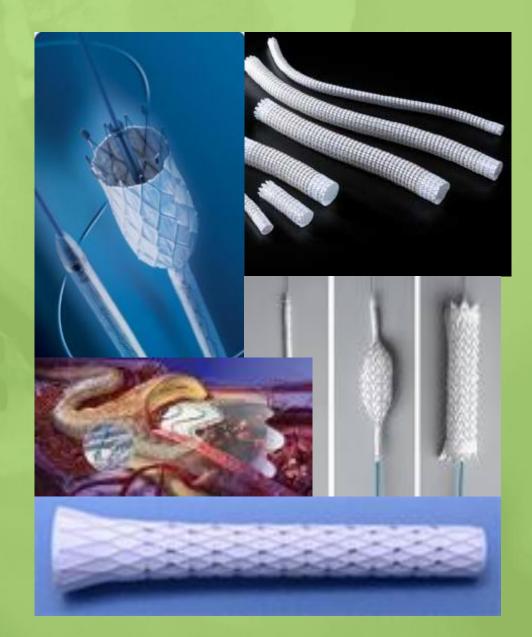




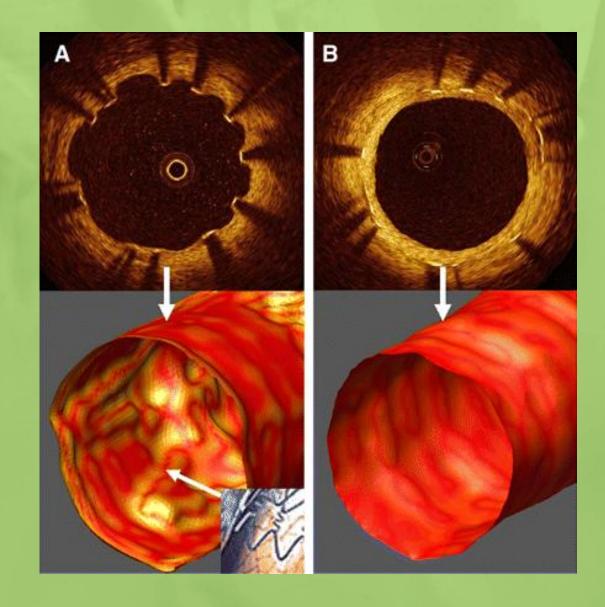














Covered Stent UNCOVERED

More acute indications for covered stent use

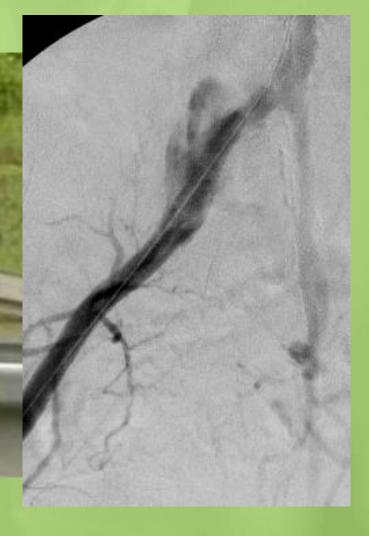
- Every one (will) encounter in the aorto-iliac region,
- Complications / problematic cases due to
 - Iatrogenic actions
 - Blunt/ penetrating trauma
 - Mixed group :
 - Isolated iliac artery aneurysm
 - Pseudoaneurysm
 - Acute aorta-iliac occlusion
 - (exclusion of AAA)
- leading to
 - Vessel closure
 - Organ injury
 - Ischaemic limbs
 - Haemorrhage
 - Shock, even death.



Covered Stent UNCOVERED

Problems/ Complications

• Perforation



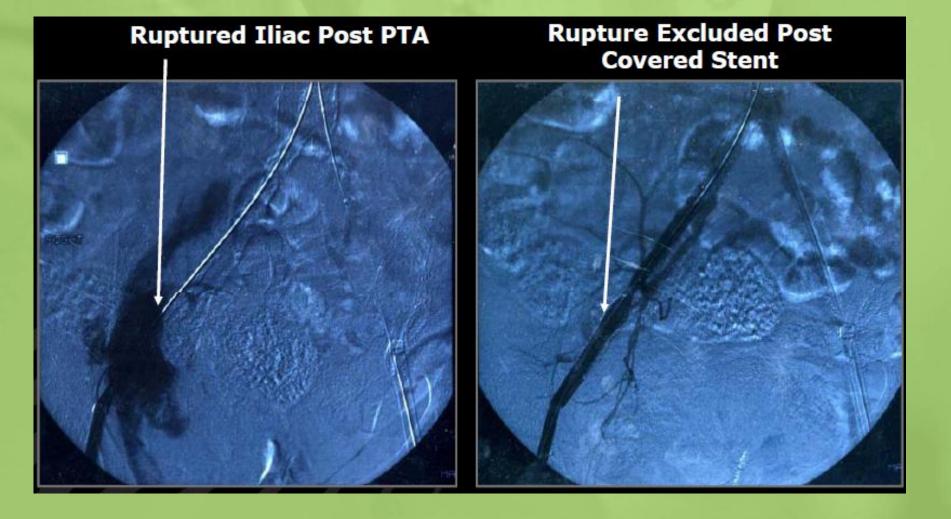


Covered Stent UNCOVERED

• Rupture







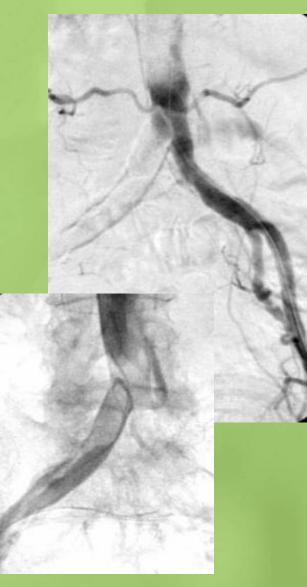


Covered Stent UNCOVERED

Flow limiting dissection



- Ball Correction









Covered Stent UNCOVERED

• How ?

TraumaIatrogenic

- Heavy calcifications
- Vessel wall weakness

OR

Subintimal route



Covered Stent UNCOVERED

You have to hurry ?





Covered Stent UNCOVERED

You have been distracted ?



Covered Stent UNCOVERED





Adequate and fast management Critical important Life saving

NEEDS?



Covered Stent UNCOVERED

 $\sqrt{?}$

√??

- Material :
- Wires / catheters
- Balloons
- Stents Sx / Bx
- Covered stents
- sometimes : EVAR TEVAR parts

What have we on the shelf?







Covered Stent UNCOVERED

Material demands : covered stent / stent graft

- Fast access
- Easy to handle / to deploy
- Low profile
- Small stock needed
- Fully covered
- Radial force
- Adaptiveness
 - Shape
 - Diameter
 - To demands of the lesion

Atrium Advanta V12 & V12 Large



Covered Stent UNCOVERED

Use of covered stent in chronic arterial disease

Aneurysmatic disease

Stenotic / Occlusive disease

» visceral arteries» aortoiliac region

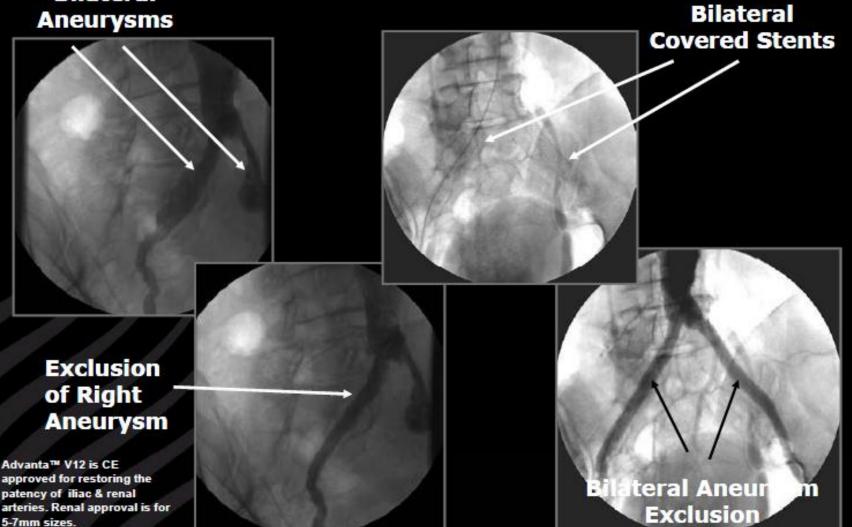


5-7mm sizes.

Covered Stent UNCOVERED

Iliac aneurysm

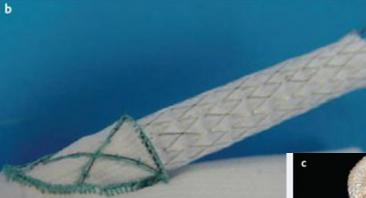
Bilateral Aneurysms



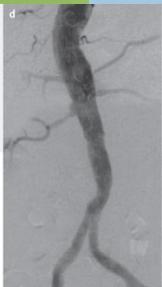


Iliac aneurysm : IBD



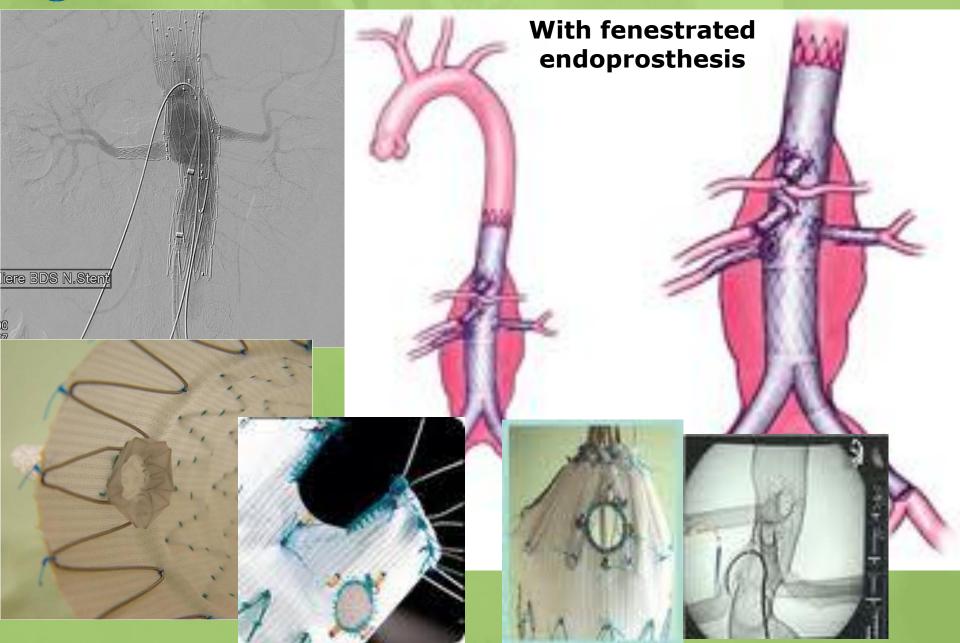






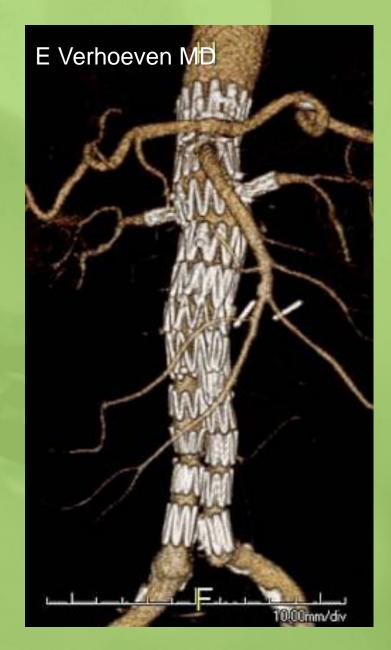














Covered Stent UNCOVERED

A. Lobatto





Covered Stent UNCOVERED

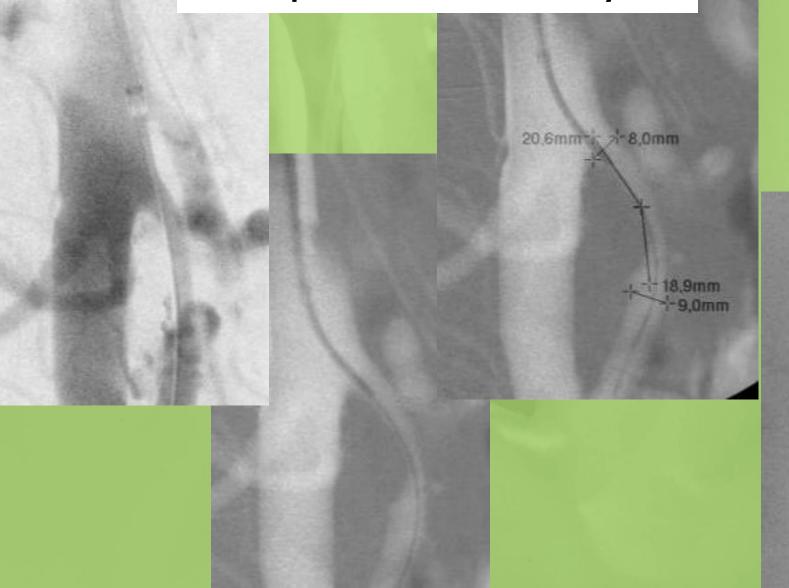
Covered Stents for visceral arteries Superior Mesenteric artery





Covered Stent UNCOVERED

Superior Mesenteric artery





Covered Stent UNCOVERED

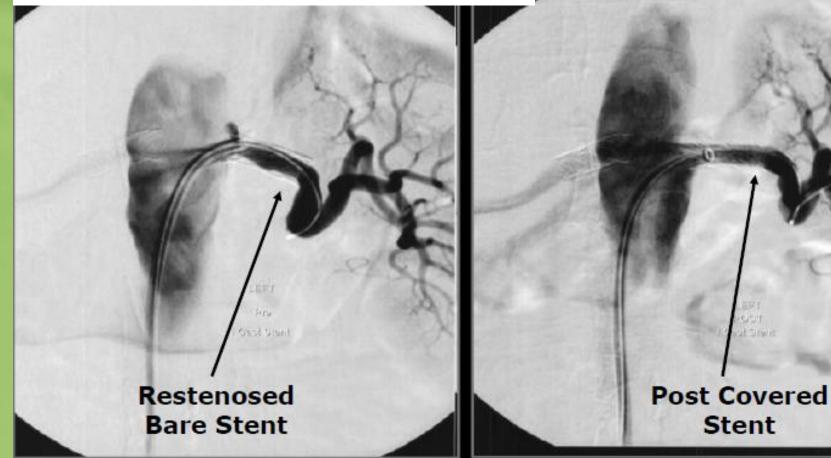
Superior Mesenteric artery





Covered Stent UNCOVERED

Covered Stents for visceral arteries Renal in stent stenosis





Covered Stent UNCOVERED

Covered Stents for aortoiliac revascularisation



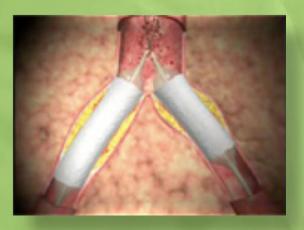




- iliac & distal aortic region : first target zones of PTA
- common treatment with fair results
- expansion to more extensive aortoiliac occlusive disease:
 - introduction of new stent technologies
 - development of dedicated devices
 - the increasing experience of the interventionalist.

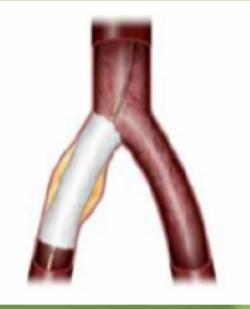


Why using ePTFE covered balloon expandable stents?





Complete coverage of the lesion is needed

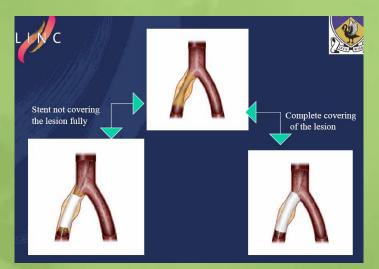




Covered stents in the aorto-iliac occclusive disease

Cobest trial:

- Covered stents (n=82) vs. bare metal stents (n=86)
- TASC B: Similar patency
- TASC C and D:
 - Less binary re-stenosis
 - Less occlusions



Excellent results in isolated occlusive **aortic lesions**

P. Mwipatayi, et al. J Vasc Surg, 2011;54:1561-1570 Bruijnen RCG et al. J Vasc Surg 2012;55:674-8



Covered Stent UNCOVERED

How to treat ?



How to prevent ?



Covered Indovascular Acconstruction A ortic I furcation

CERAB cuff & kiss

A new technique to reconstruct the aortic bifurcation with 3 Atrium Advanta V12 covered stents for occlusive disease



Why Atrium's Advanta V12 covered stent

- due to specific characteristics:
- low profile
- double ePTFE layer
- easy and accurate deployment
- radial force
- Dog-bone type inflation of balloon
- diameter adaptiveness

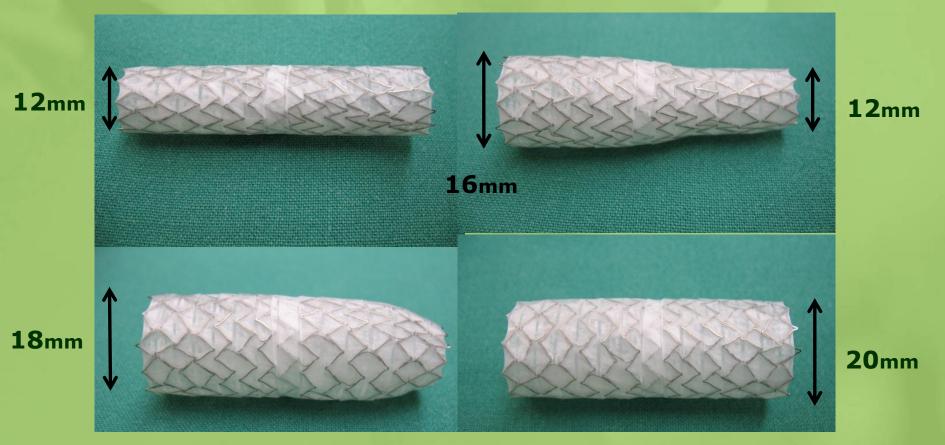
(postdilation to a larger diameter is possible without damaging the stent structure and ePTFE)



Covered Stent UNCOVERED

adaptiveness

1 stent = 4 different shapes Atrium Advanta V12 L 12x 61 mm





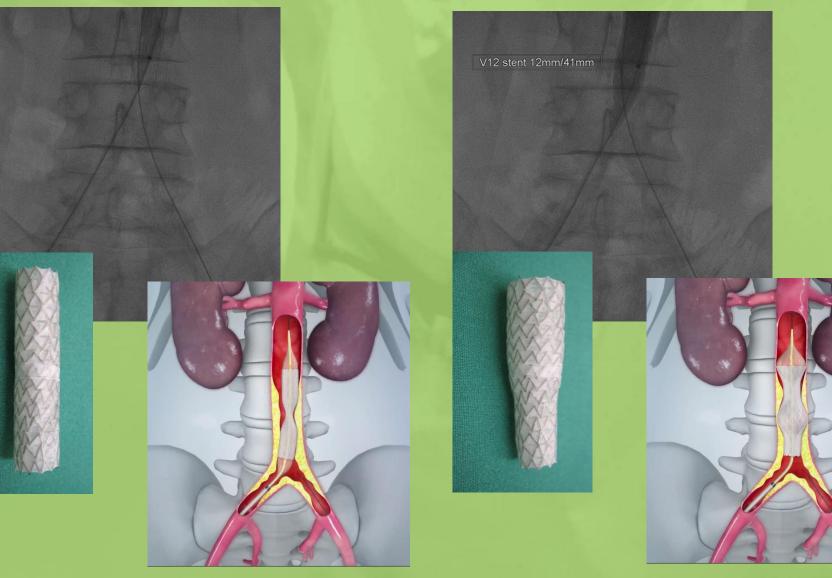
CERAB case

- 56-year old male
- Rutherford 3
- Smoker, hypertension
- ABI: 0.64 / 0.64
- Duplex ultrasound:
 - Bilateral >70% stenosis in CIA
- CT angiography:
 - Highly calcified lesion in distal aorta and both CIA





CERAB case





12

CERAB case

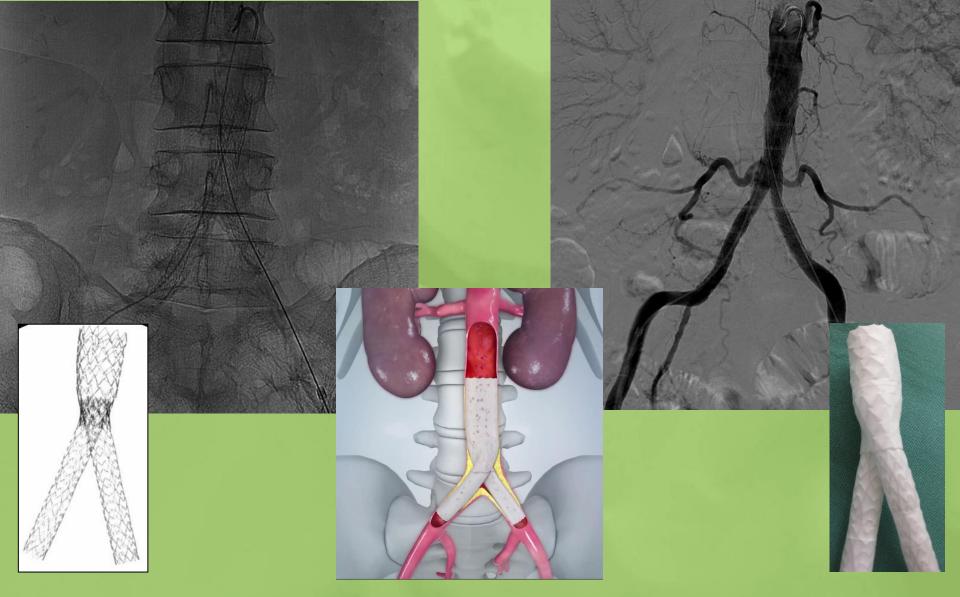
2x V12 8mm, 59mm



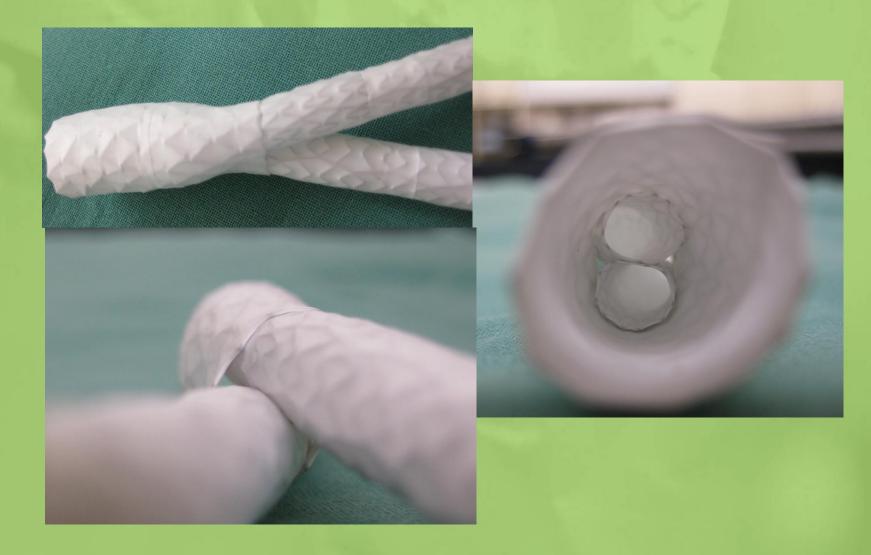




CERAB case













Conclusions

- covered stent use : not only for acute problems
- covered stents can be used for treatment of chronic stenotic or occlusive lesions
- short and mid-term results:
 - encouraging
 - with evidence of sustained clinical benefit
 - without signs of accelerated in-stent restenosis.
- larger population & longer follow-up is needed
- other benefit :
 - large variety of (un)expected aortoiliac lesions can be dealed with this technique



Covered Stent UNCOVERED

Thank you for your attention

Spasibo zha vashe vnimanie