Are current stents ready for the "Surgical landing-zones"

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Disclosure

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I have the following potential conflicts of interest to report:

☐ Consulting
☐ Employment in industry
☐ Shareholder in a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☐ I do not have any potential conflict of interest
Endovascular treatment...
EXERCISE BLOCK
1- Place Block on the floor
2- Walk around it twice
3- Sit down! Relax
You have just walked around the block twice!
“Hundreds of years of medical progress, and all you can tell me to do is walk more ?!”
Endovascular treatment today ...
Endovascular treatment today ...
1. Appropriate stent-sizing

... Avoid chronic vessel wall irritation
... Avoid vessel wall recoil
... Avoid stent fractures
2. Consider stent-design

1. Flexibility

2. Expansion Force

3. Compression resistance
Alternatives for “Golden standards”?

- Common femoral artery
- Bypass Rescue
Case

- 82 y Female
- Restpain R leg
Case

- 6FR crossover sheath
- 0.018 glidewire
- PTA vessel prep : 7-80
Case

- Stent implantation
- Supera 6 – 80
  (Abbott Vascular)

Durability ...
Puncture ...
Case

- 1 year follow up
Case

- Female patient 83y
- BMI 31
- CLI of R Foot with extensive gangrene
Case

- PTA vessel prep: 7-40

- Stent implantation
  Supera 6-40
  (Abbott Vascular)
Case

- Male patient 85y
- Restpain left leg
- Endarterectomy L AFC
- Stenting L ext iliac art
Case

- Crossover angiography
Case

- Crossover 6Fr Sheath
- 0.035 glidewire
- DEB dilatation 6 – 60
  (Lutonix – Bard)
Case

- Supera 6 – 80 (Abbott vascular)
- postdilatation
Common Femoral Artery Stenting

- 9 patients
- 4 ♀, 5 ♂
- Mean follow-up : 8 m
- Major clinical improvement
  - 1 / 9 needed an additional PTA (DEB)
  - No puncture problems
Case

- Male patient
- 70y
- Fem pop bypass L
- Recurrent claudication
- Slow flow on duplex US
Case

- 67 Y Male
- Left Fem-pop bypass
- Recurrent claudication
- R crossover access 6FR
- 0.035 Gluidewire
Case

- Intraluminal recanalisation with drilling technique
- 0.018 guidewire
- BER support cath
case

• (Pre)dilatation
  Passeo DEB 5 – 80
  (Biotronik)

Dissection and recoil
Case

- Stent implantation
- Supera 5 – 80
  (Abbott Vascular)
Case

- Multiple vascular procedures
- Ruth Stage 5
Case

- Recanalisation of the venous extra-anatomical occluded fem-tib bypass
- Vessel Prep PTA (5 mm)
- Stenting of the bypass Supera 5-200 (Abbott Vasc)
Conclusion

• When we open our mind for Biomechanics ...
• When we allow changes in our daily practice ...

Surgical “landing-zones” might be ready for endovascular treatment