When are DESs (Zilver PTX) Needed for CTOs in the SFA: Will Its New Delivery System be Helpful

Fabrizio Fanelli MD, EBIR, FCIRSE
Professor of Radiology
Vascular and Interventional Radiology Unit
Department of Radiological Sciences
“Sapienza” - University of Rome

Disclosures

• Consultant / Speaker / Proctor / Advisory Board
  - Abbott
  - Bayer-Medrad
  - Bard
  - Boston Scientific
  - Cook
  - Cordis
  - Ev 3-Covidien
  - Medtronic
  - Spectranetics
  - Triflens Medical
  - Volcano
  - W.L. Gore & Associates

“Optimal Stent”

- Immediate success
  radial force and flexibility to give a successful outcome
- Available Material
  stents that come in the right lengths and diameters, device lengths and sheath compatibility
- Ease of deployment and ease of use
  easy, accurate and precise releasing system
  single handed
  good visibility
- Long term success
  patency and freedom from TLR for patient’s quality of life
  no fractures

T.A., 63 y, Male
Heavy smoker, hypercholesterolemia
Lt claudication

Advantages
- less force for stent deployment
- easier deployment also in tortuous anatomy
- single handed
- not influenced by approach or vessel morphology

Disadvantages
- less sensitivity in the hand
- no totally precise deployment
- easy “jump” of the stent
- unsafe

Thumbwheel
Advantages
- less force for stent deployment
- easier deployment also in tortuous anatomy
- single handed
- not influenced by approach or vessel morphology

Disadvantages
- less sensitivity in the hand
- not totally precise deployment
- easy “jump” of the stent

Thumbwheel

Stent Retraction Sheath
- Outer sheath, where stent is nested

Stability Sheath
- Stationary throughout deployment
- Ensures that system stays stable
- No longer the need to hold check-flo on the introducer sheath during deployment

C.E., 66 y, Female
Diabetic, smoker - Lt claudication <50 m

Jan 2015

ABI 0.5

Contralateral CFA access
Cross-over
Placed 6Fr-45cm (Cook)
CXO support catheter 4 Fr. (Cook)
0.035” standard hydrophilic guidewire (Cook)
Zilver PTX (Cook) 6 x 120 mm

Zilver PTX Thumbwheel Delivery System (Cook)

Zilver PTX 6 x 120 mm - Cook

single-handed thumbwheel

Device Safety Lock

Zilver PTX 6 x 120 mm - Cook

single-handed thumbwheel
Conclusions

- Zilver PTX has added several design elements for a new, simpler and more precise deployment
  - New, single-handed thumbwheel delivers precise, accurate stent deployment
  - 120mm (next 140mm) long stent

- A more accurate releasing system permits a more precise deployment and makes operators feel more confident especially in critical areas (SFA origin, popliteal region)

- In case of long CTO, the new releasing system facilitates the correct stent deployment allowing the use of a single device: time and cost

- 5-year results of the PTX RCT confirm long-term superiority of Zilver PTX versus bare metal stents