Target Stent and Anchor Balloon: Strategies for Iliac artery CTO Crossing

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Disclosure

Speaker name:

I have the following potential conflicts of interest to report:

Consulting
Abbott Vascular, Boston Scientific, Edwards Lifesciences, Medtronic, Terumo

Stockholder of a healthcare company

Transverse Medical
Patient history

66 y/o M with HTN, dyslipidemia CAD s/p CABG

- L leg claudication at half block
- Duplex: L ABI 0.43, monophasic flow L CFA
Contralateral Access:
6F Sheath

5F Omniflush catheter
Access left:
Ultrasound
5F Terumo Precision

Normal L leg runoff

Attempt at crossing:
- Kumpe catheter
- 0.035” Glidewire Advantage

Unsuccessful
Contralateral Access:
6F Sheath

5F Omniflush catheter

Attempt to cross from above
- Glidewire Advantage
- M-wire 0.018
- Straight stiff glide
- Astato 30

Unsuccessful
Concern: Dissection

After lesion crossing, aortic pressure can cause a dissection to extend distally from CTO.
Dissection: Cautionary Tale...
Repeated angioplasty
Prevent Dissection: Target Stent

Stent distal cap PRIOR to lesion crossing
- Mark true lumen
- Prevent dissection

Can be used to protect common femoral or bifurcations
Contralateral Access:
6F Sheath

5F Omniflush catheter

Attempt to cross from above
- Glidewire Advantage
- M-wire 0.018
- Straight stiff glide
- Astato 30

Unsuccessful
Upsize L sheath to 7F

Distal target stent placed in left external iliac: Omniflink Elite 7x19mm
Upsize L sheath to 7F

Distal target stent placed in left external iliac: Omnilink Elite 7x19mm

More aggressive attempt at crossing from L CFA

Unsuccessful
R Sheath upsized to 7F Destination

Inadequate support for crossing from above
Access options

**Brachial**
- large device size
- good crossing force
- cutdown
- high complication rate, tortuosity, long distance

**Radial**
- up to 6/7F
- safe
- push
- tortuosity, longest distance

**Contralateral Iliac**
- easy
- short distance
- lack of crossing force
Solution:
Anchor Balloon Technique

Goal:
Create a platform for crossing from crossover access
Armada 6x20mm anchor balloon

0.035” straight stiff glidewire

Wire snared and externalized into L sheath
Armada 5x40mm balloon
Distal target stent
Final Angiogram
Conclusion

Target stent and anchor balloon: two potentially useful tools for complex iliac disease
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