Subacute aorto-iliac occlusion in a young male: “When it rains it pours!”

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Disclosure

Speaker name:

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I have the following potential conflicts of interest to report:

☒ Speaker for Penumbra Inc.
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☐ I do not have any potential conflict of interest
Case Presentation

• 37 y Ex-smoker with a history of alcohol abuse presents to the hospital with one-month history of right lower extremity claudication progressing to rest pain.

• CTA and Ultrasound imaging revealed an occluded right common iliac artery.
Occluded Right Common Iliac Artery
Intervention

WIRE IN THE FALSE LUMEN

STENT: True-False-True
Compromising distal aorta and contralateral left common iliac artery
Following Day

Right Iliac Limb Is Occluded

Distal Aorta Is Stented [undersized] and Extended into the Left Common Iliac Artery

Fem-Fem Bypass
Three Months Later-Subacute ALI
Occluded Distal Abdominal Aorta
Extensive Occlusion

No Flow in the Right Lower Extremity Arterial System

Very Slow Flow in the Left Lower Extremity Arterial System
Crossing the Occlusion: Left Brachial Approach
Intravascular Ultrasound

Grossly UNDERSIZED stent With Thrombus
Thrombectomy followed with CDT

Penumbra CAT 6: Less traumatic given the underlying dissections and false lumens

Restoration of flow in the distal aorta and left iliofemoral arterial limb with residual thrombus burden

Unifuse Thrombolytic Infusion Catheter
Following Day

Significant Improvement

Right CFA Access
Crossing the Right Iliac Arterial System

Multiple Dissection Planes Making the Cross Difficult

Crossed from the Cranial End
IVUS and Aspiration Thrombectomy
Post Aspiration Angiograms

Retrograde Distal Abdominal Aortic Dissection
And
Residual Thrombus
Covered Stenting of the Distal Aorta and Iliac Limbs

Crushing the Old Right Common Iliac Stent [which is in the false lumen]

Large VBX Stent: Sized with IVUS Measurements
Kissing VBX Stents into the Main VBX

Re-Entry into the Large VBX Lumen from Left CFA Access

To Ensure we are inside the Stent

Kissing VBX Stents
Crushing the Old Stent
Covered Stenting of the Right Iliac Arterial Tree
Final Angiograms

- Total of 210 cc of contrast
- No Periprocedural complications
- Made a steady recovery and discharged two days later
- Placed on Xarelto, Plavix and high dose Statin
- Paroxysmal Atrial Fibrillation noted with a normal echocardiogram
- Follow-up imaging shows patent arteries
- Patient is back to work [construction worker]
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Thanks
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