

# Recurrent non-malignant SVC in- stent restenosis treated with Culotte bifurcation stenting technique

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# Disclosure

Speaker name:

.....Bryan Yan.....

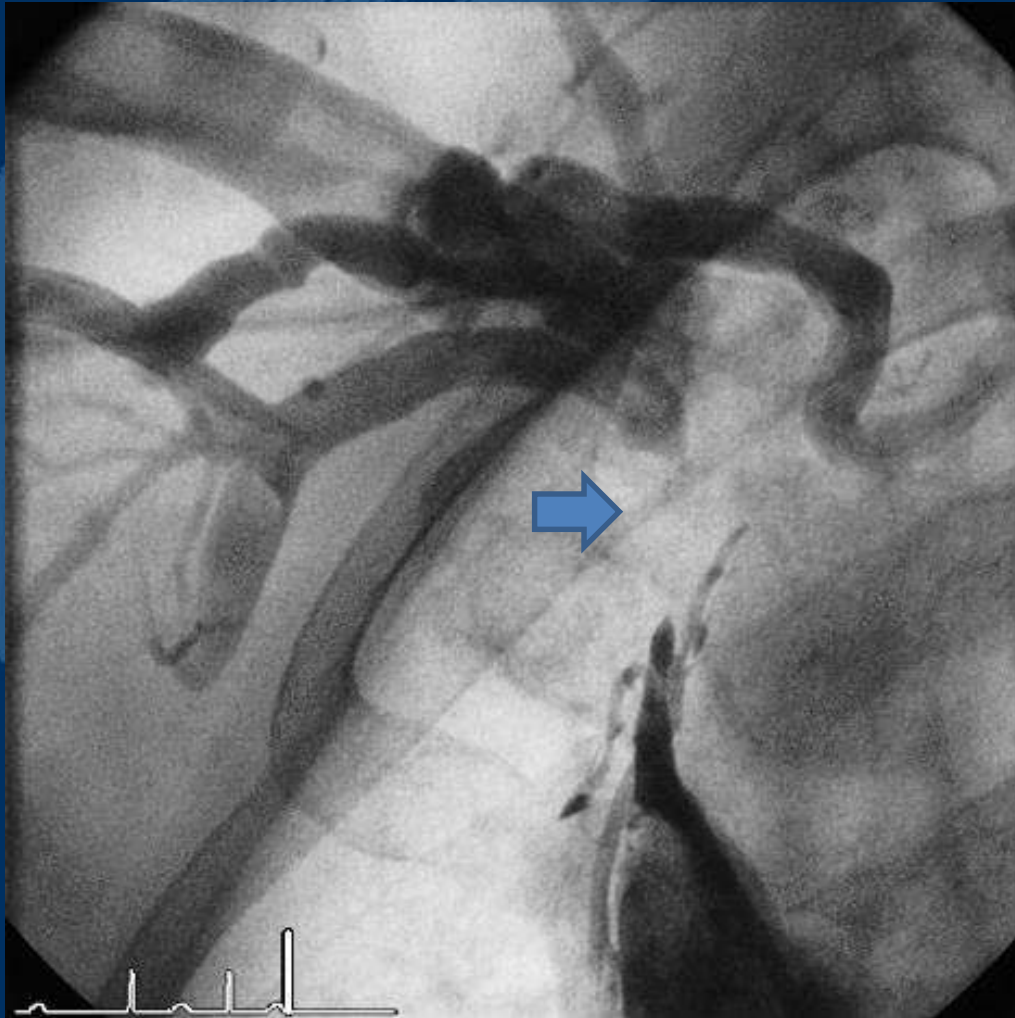
I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)
  
- I do not have any potential conflict of interest

# History

- 67 male with ESRF on hemodialysis since 2009 via right forearm AV fistula presents with progressive
  - Right arm & neck swelling
  - High venous pressure during dialysis
- Past history of multiple prolonged internal jugular central venous catheters

# Right Brachiocephalic vein & SVC obstruction (Nov 2013)

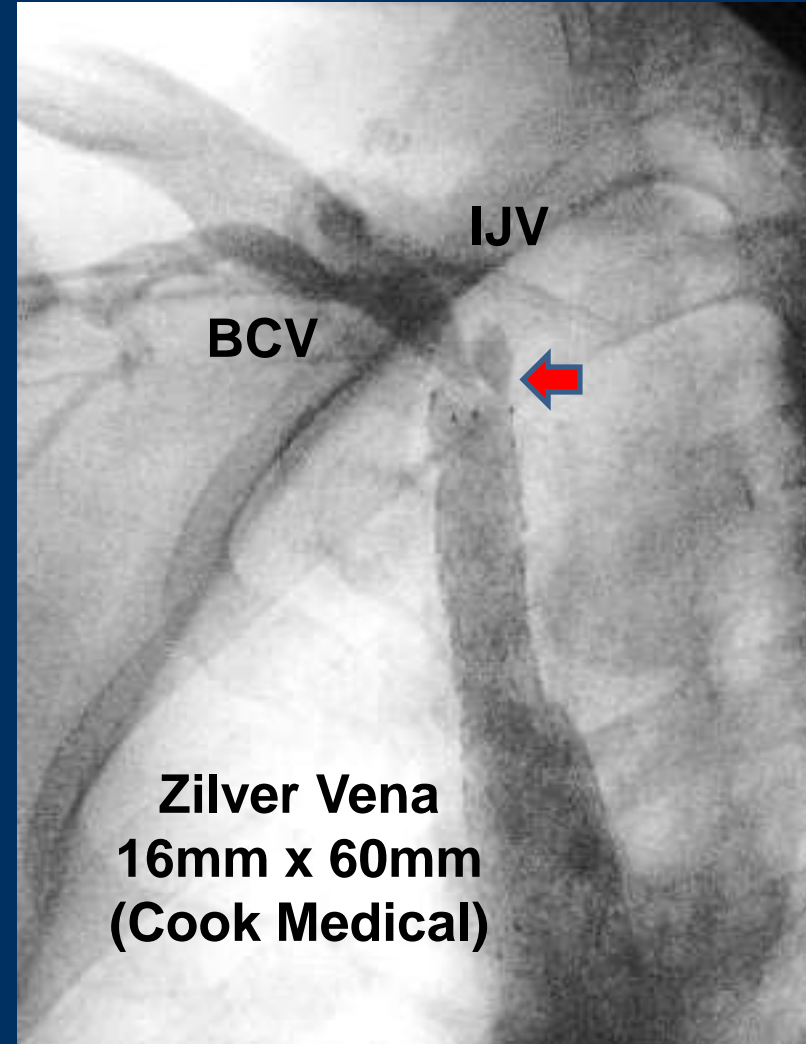


- Incidence of SVC obstruction due to non-malignant diseases is rising
- Up to 70% on hemodialysis / history of central venous catheters

# Venoplasty & Stent (Nov 2013)

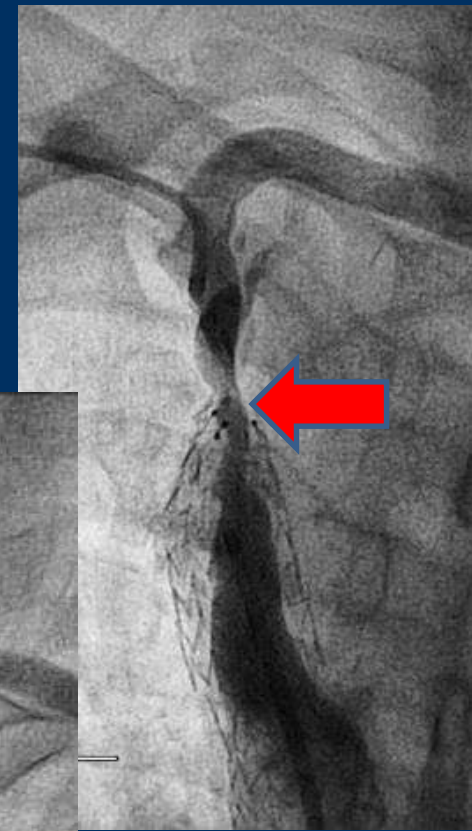
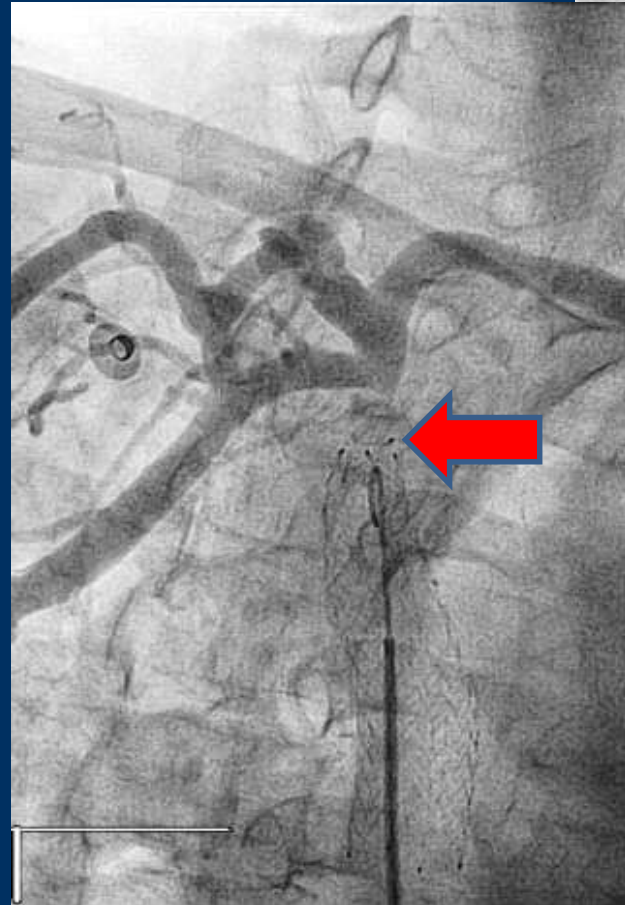
Venoplasty±stenting has become first-line treatment for benign SVCO

- Wallstent (Boston Scientific) most commonly used but high rates of restenosis (40%), migration (20%) & delayed shortening (70%)
- Dedicated venous stents



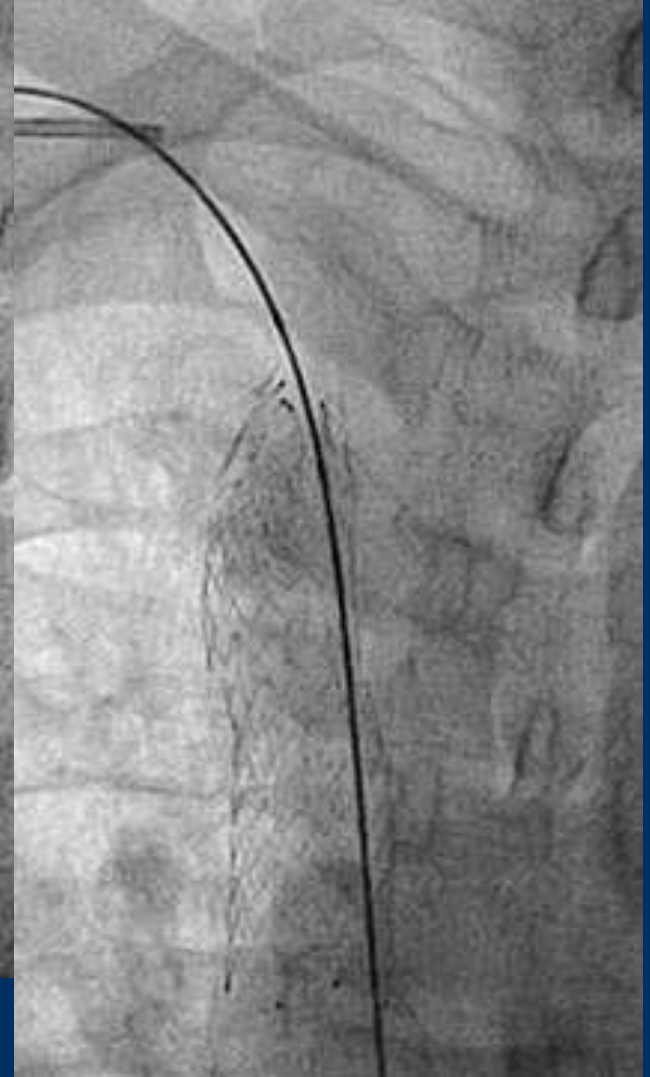
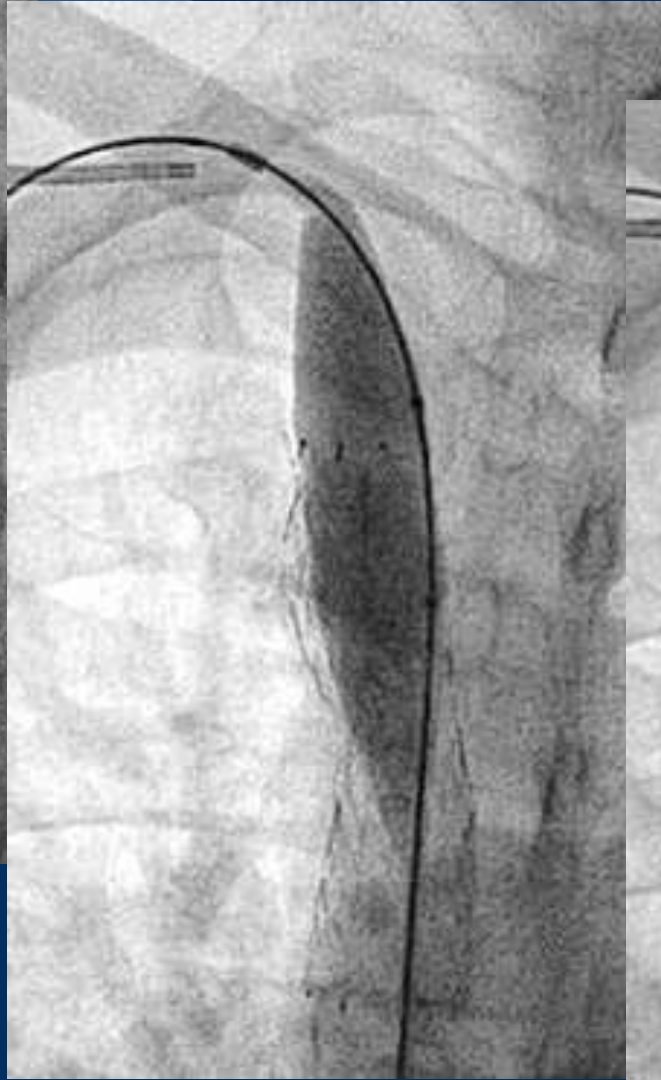
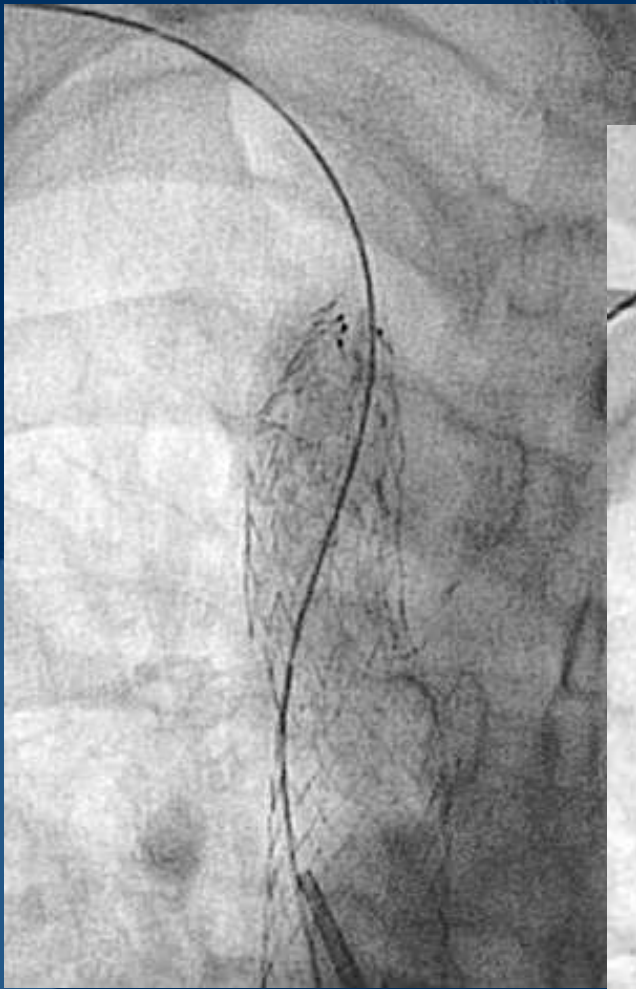
# 1<sup>st</sup> Restenosis (Mar 2016)

- Recurrent swelling & high venous pressure on HDx
- Deformed & crushed stent at bifurcation
- Severe ISR

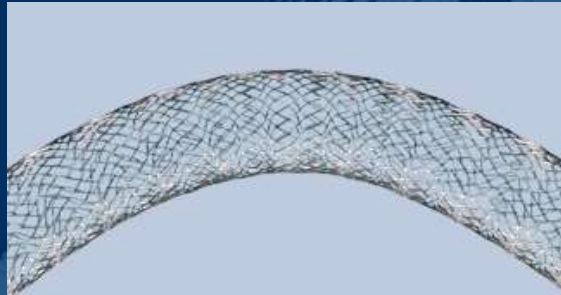




4mm, 9mm, 12mm, 14mm  
balloons

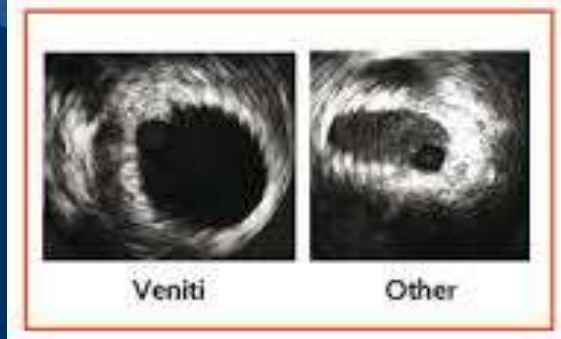
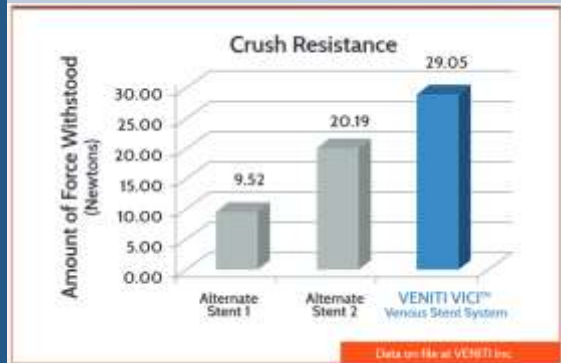


# Extension of Stent across SCV bifurcation



## Vici (Veneti)

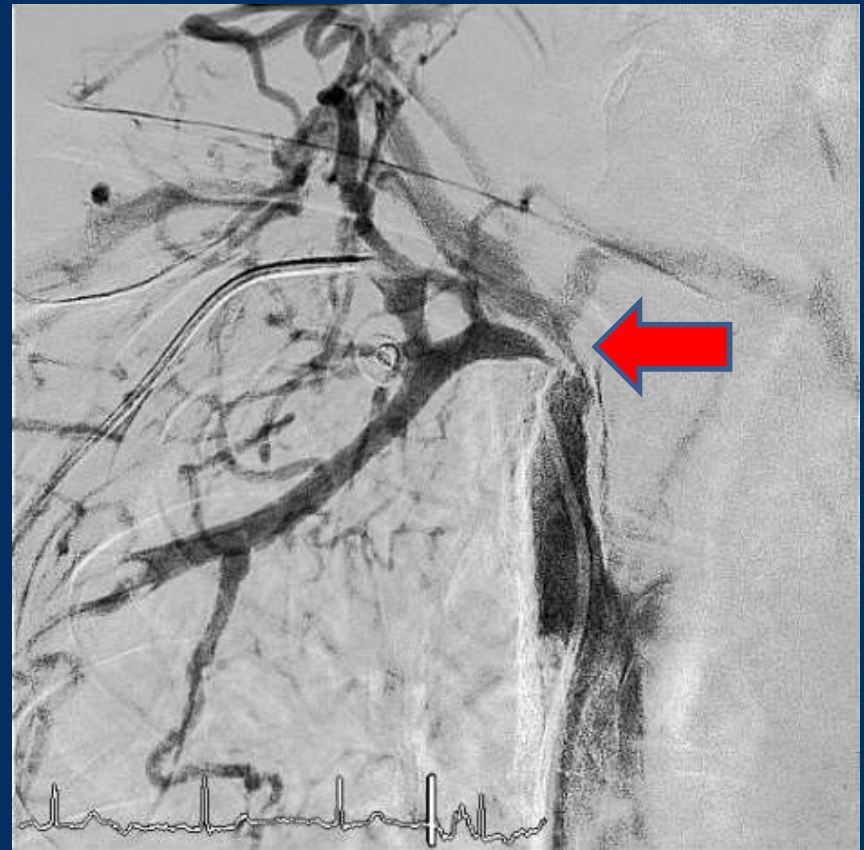
- Closed-cell
- Increased radial strength & crush resistance
- Flexible
- 9Fr
- D: 12, 14, 16mm
- L: 60, 90, 120mm



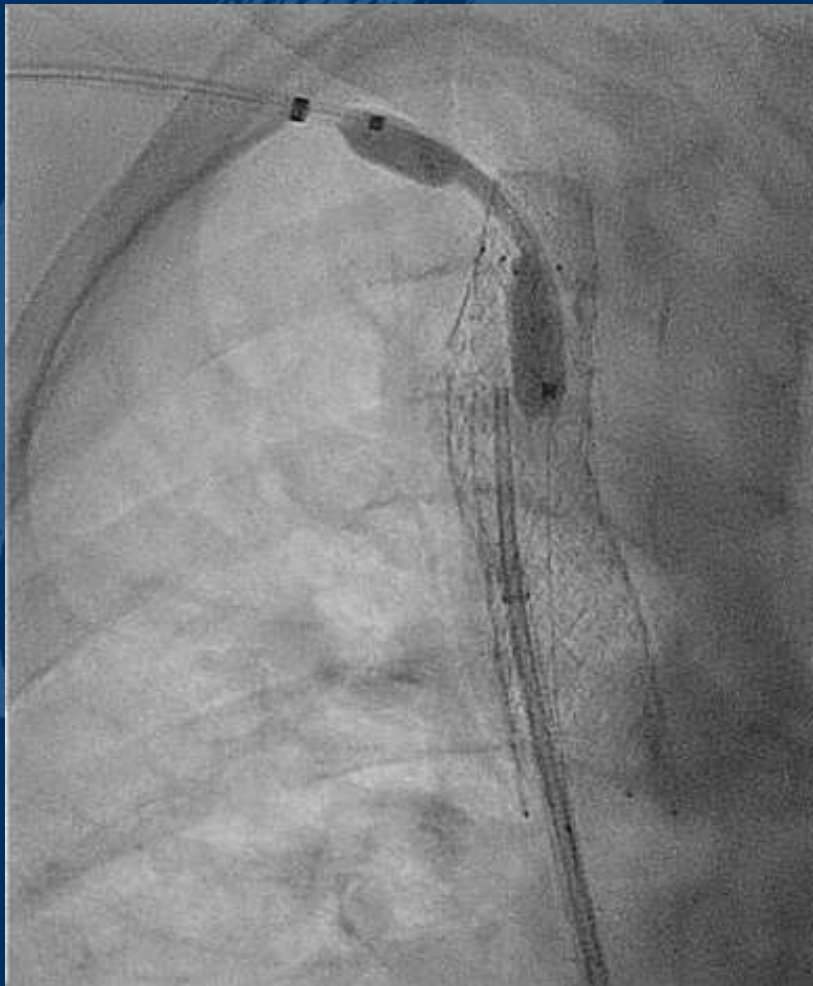


# 2<sup>nd</sup> Restenosis (Apr 2017)

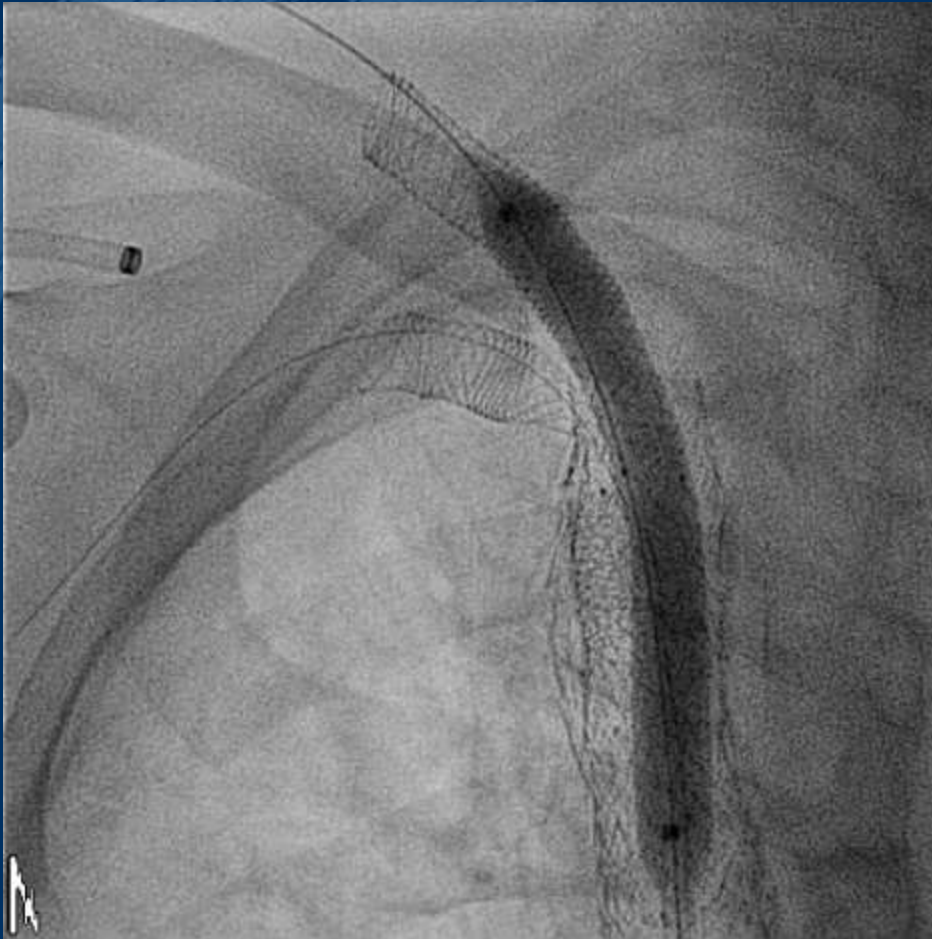
- Recurrent symptoms



# 1<sup>st</sup> Supera (Abbott) 7x40mm through Vici stent strut into SCV



2<sup>nd</sup> Supera (Abbott Vascular) 7x60mm into  
?Large collateral subclavian vein





# Result (RAO)



# Result (LAO)

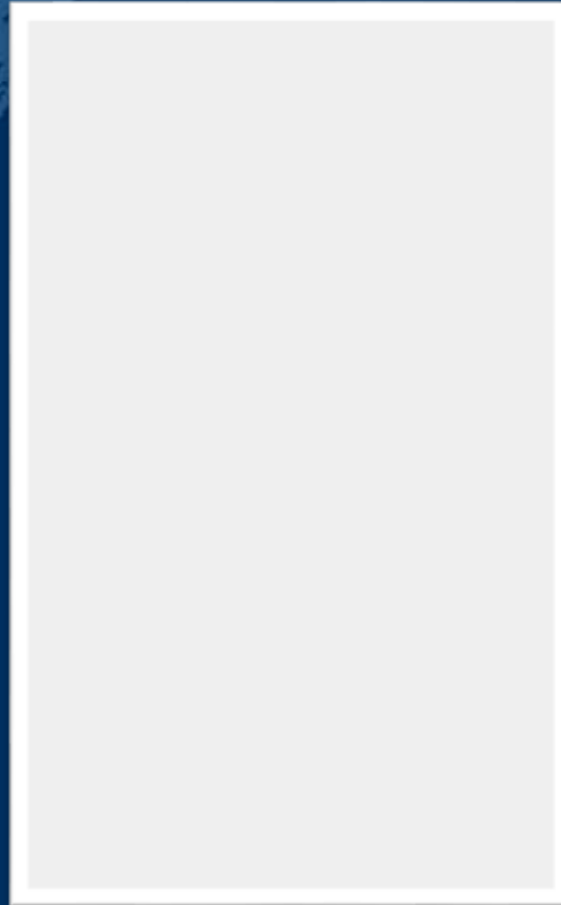




# 6 month follow-up (Nov 2017)

8mm non-compliant balloon

- Asymptomatic
  - No swelling
  - Normal pressure on dialysis
- 6 month surveillance venogram showed moderate side-branch ISR at main-branch side-strut exit



Thank you

