

# Technical Issues of Chimney in The Arch

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**CICE2017**

April 05-08, 2017  
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✓ **Nothing to Disclose**



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# Background

## Complex Aortic Arch Aneurysms (Zone 0)

Aortic arch replacement remains among the most technically challenging cardiovascular operations, incurring considerable risk for perioperative death and stroke.





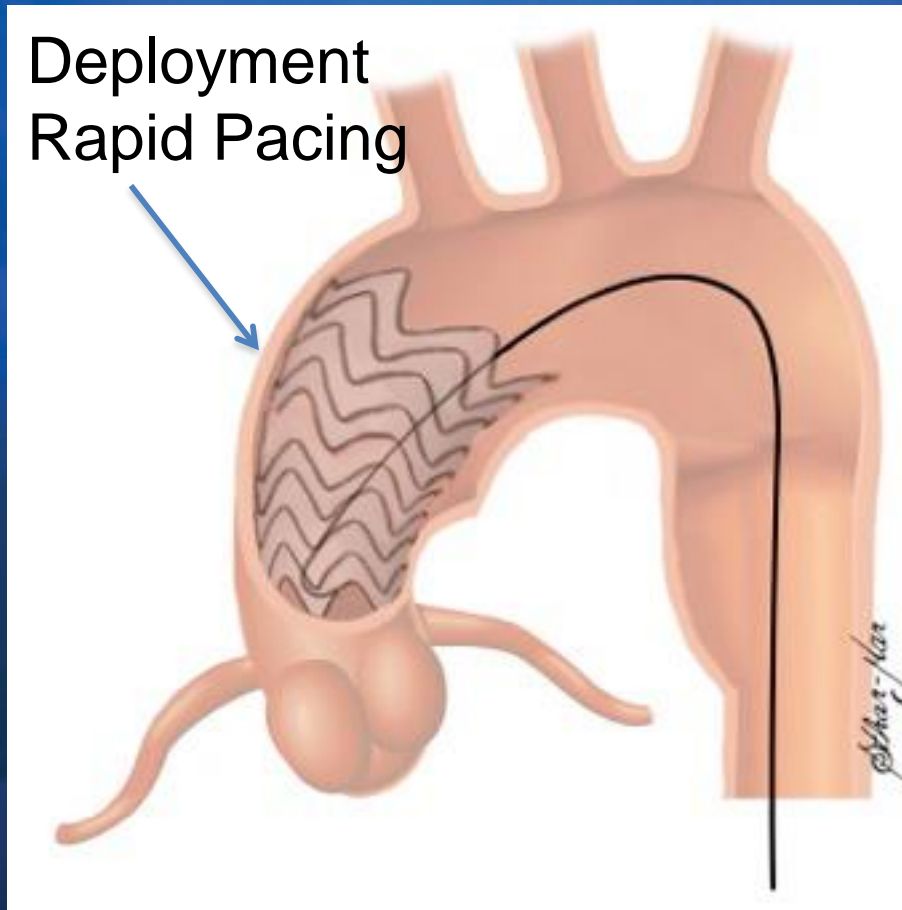
# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)



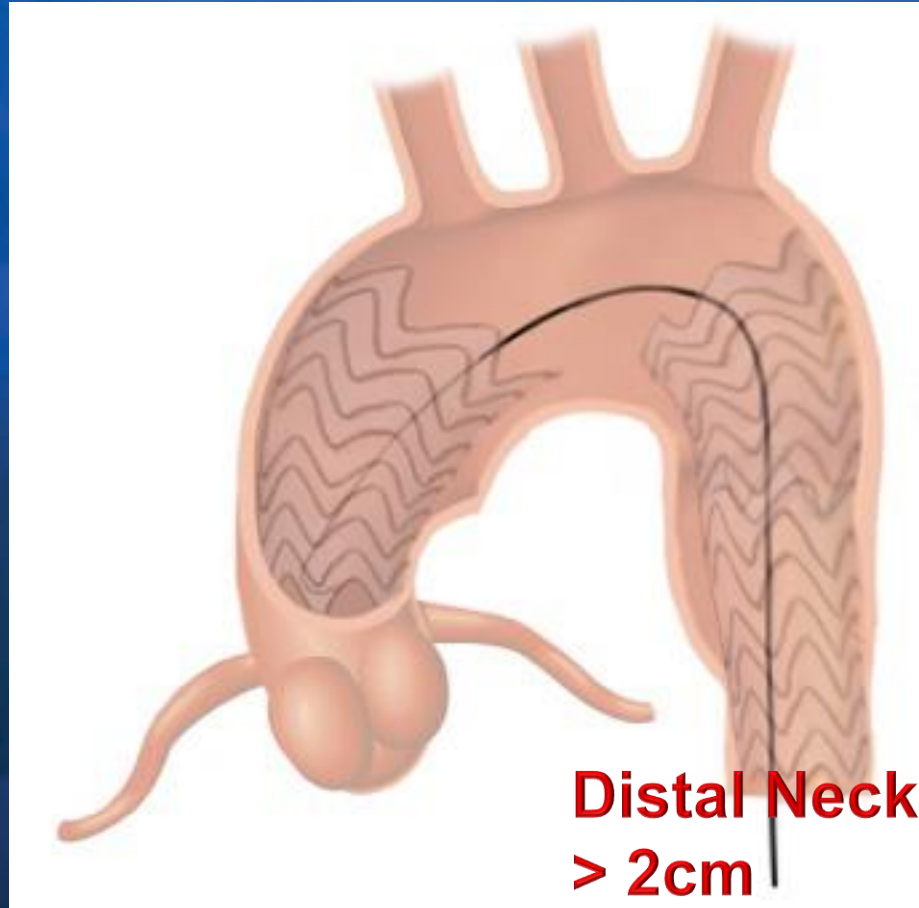
# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)



# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

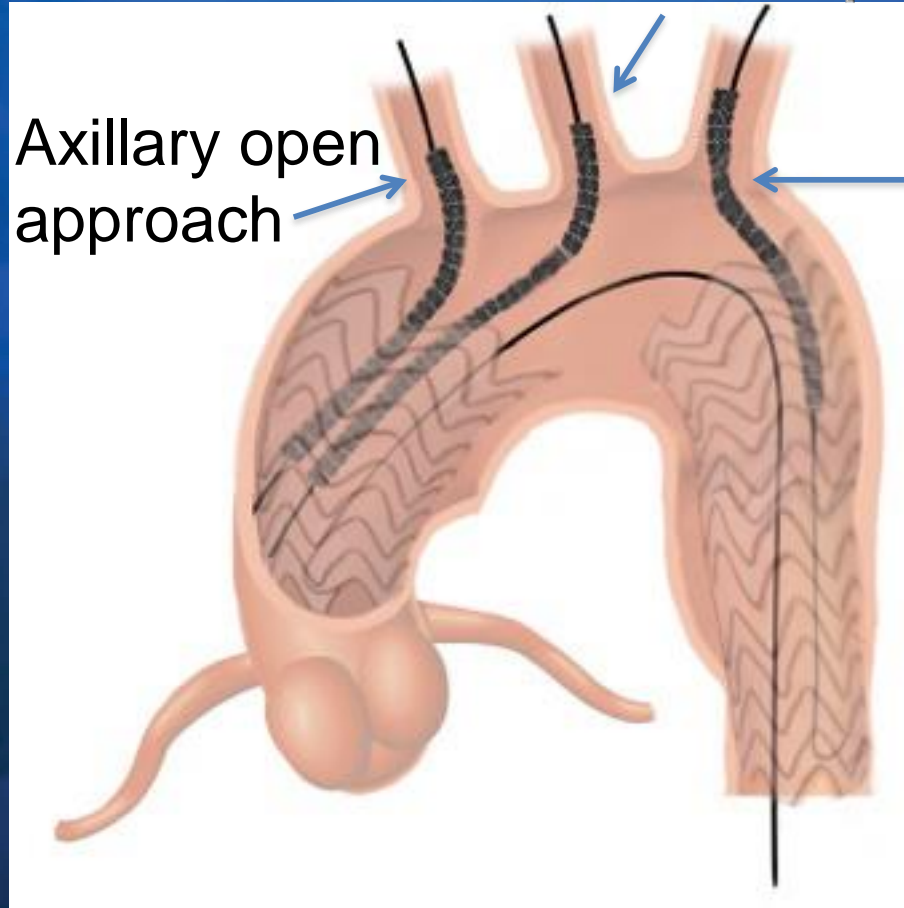




# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

Left Carotid open approach



Axillary open approach

Left Brachial Punction

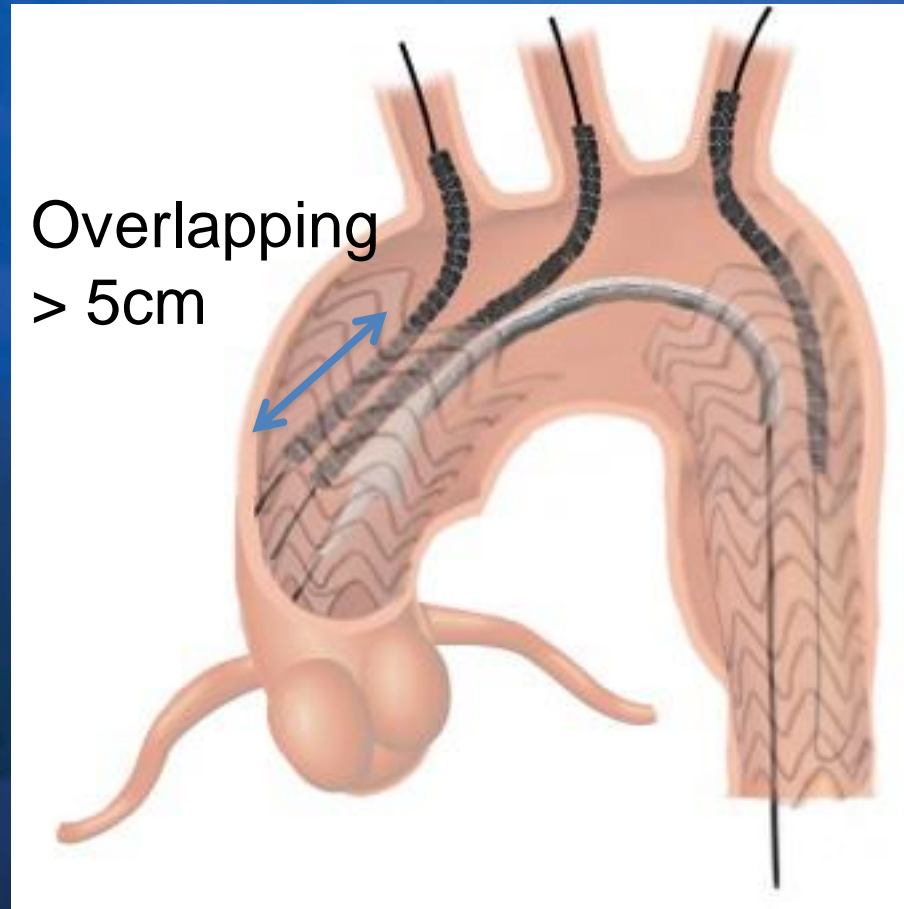


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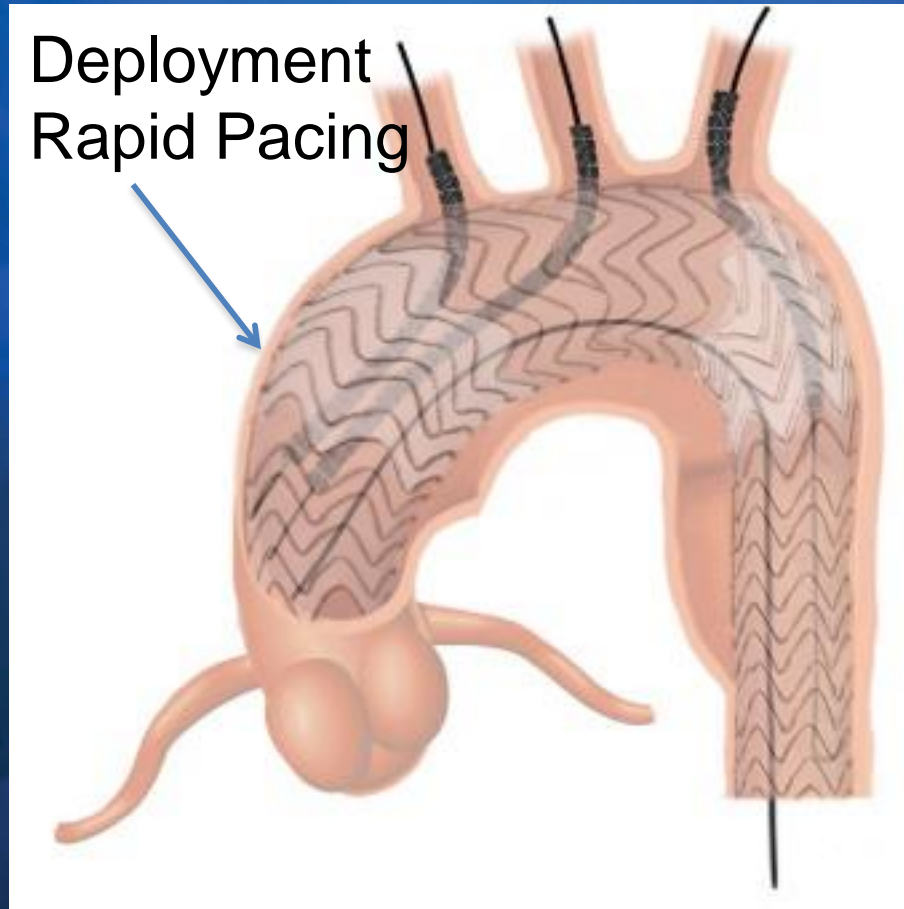
## Complex Aortic Arch Aneurysms (Zone 0)





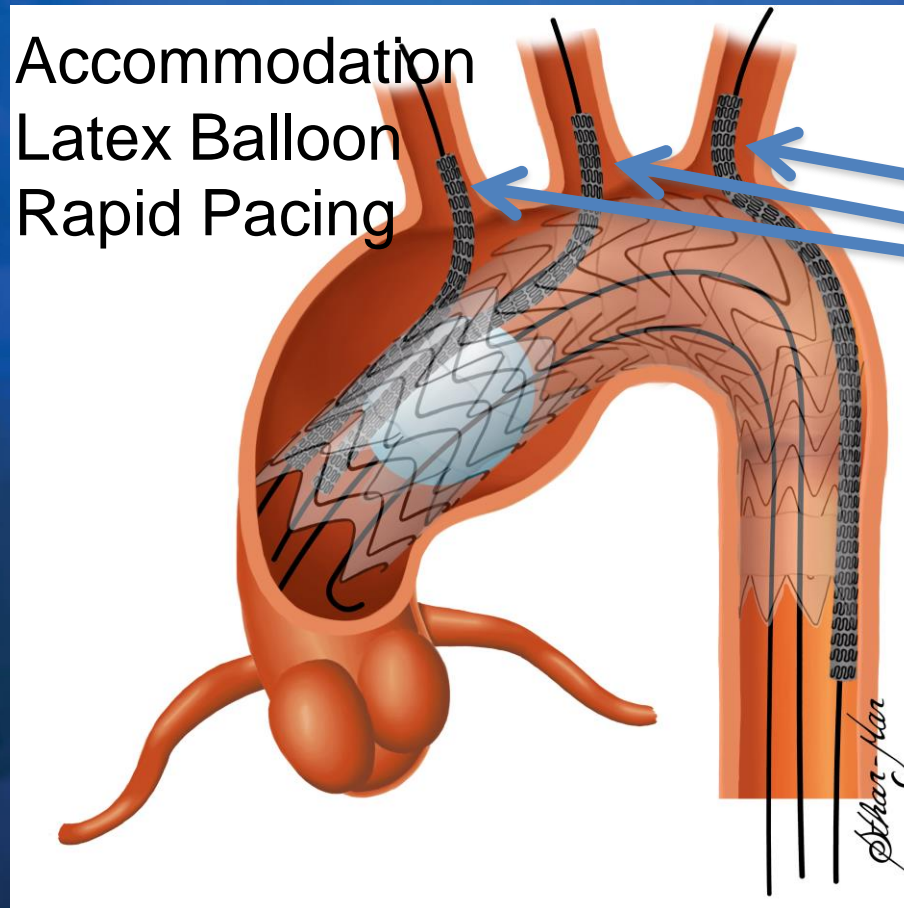
# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)



# Technical Issues

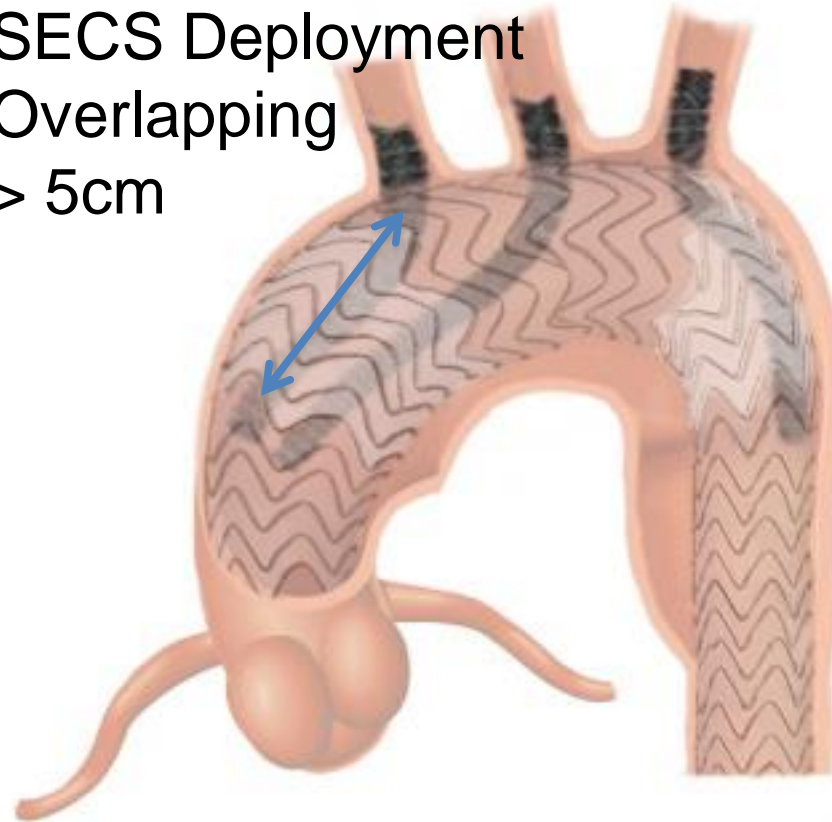
## Complex Aortic Arch Aneurysms (Zone 0)



# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

SECS Deployment  
Overlapping  
> 5cm





# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)



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# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

Ascending Aorta Diameter– Stent Graft Size (45-46mm)



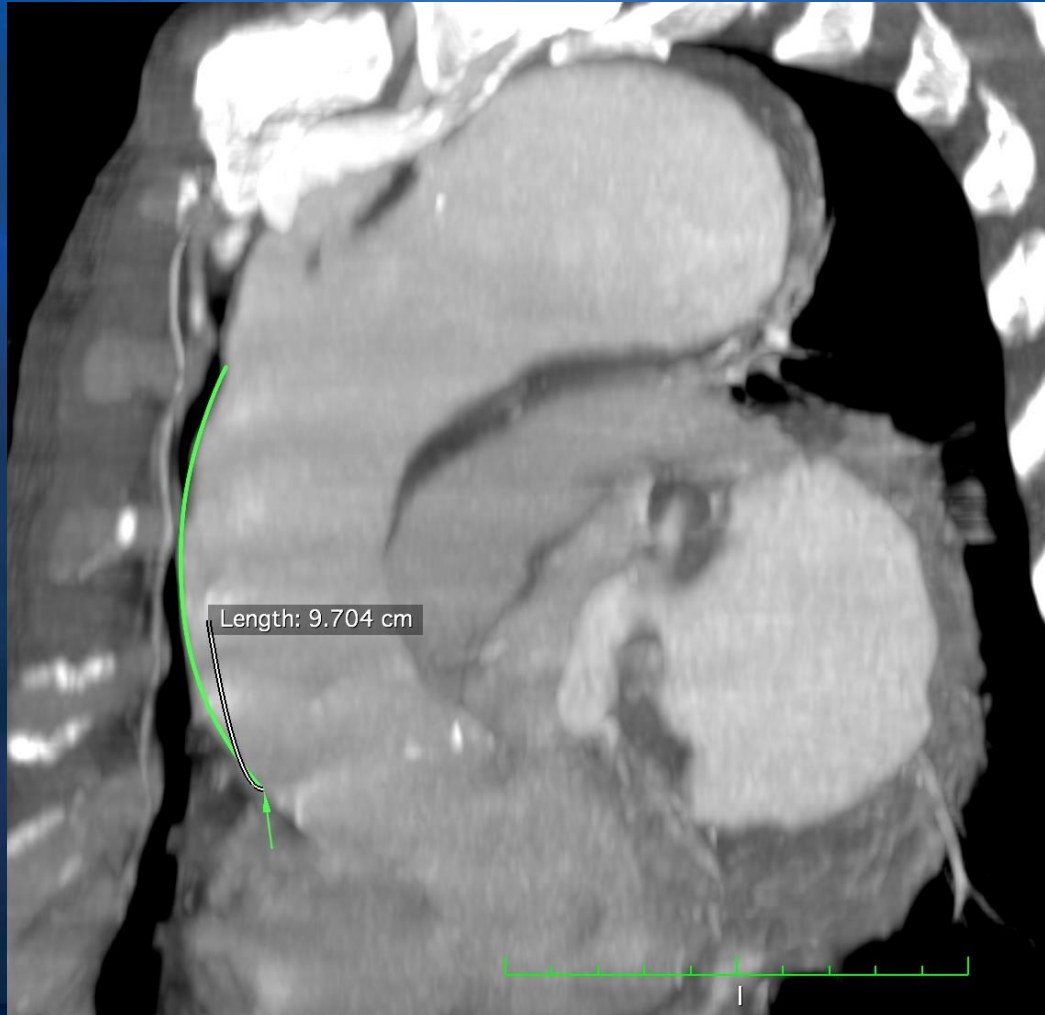
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# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

Ascending Aorta Length– Stent Graft Length (100mm)



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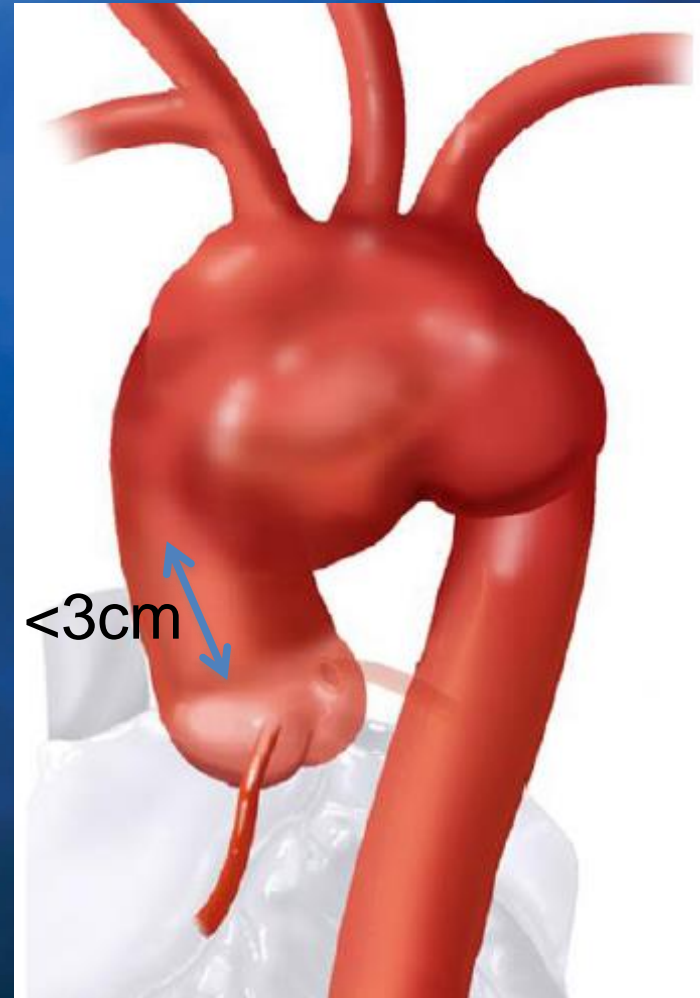
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## Complex Aortic Arch Aneurysms (Zone 0)

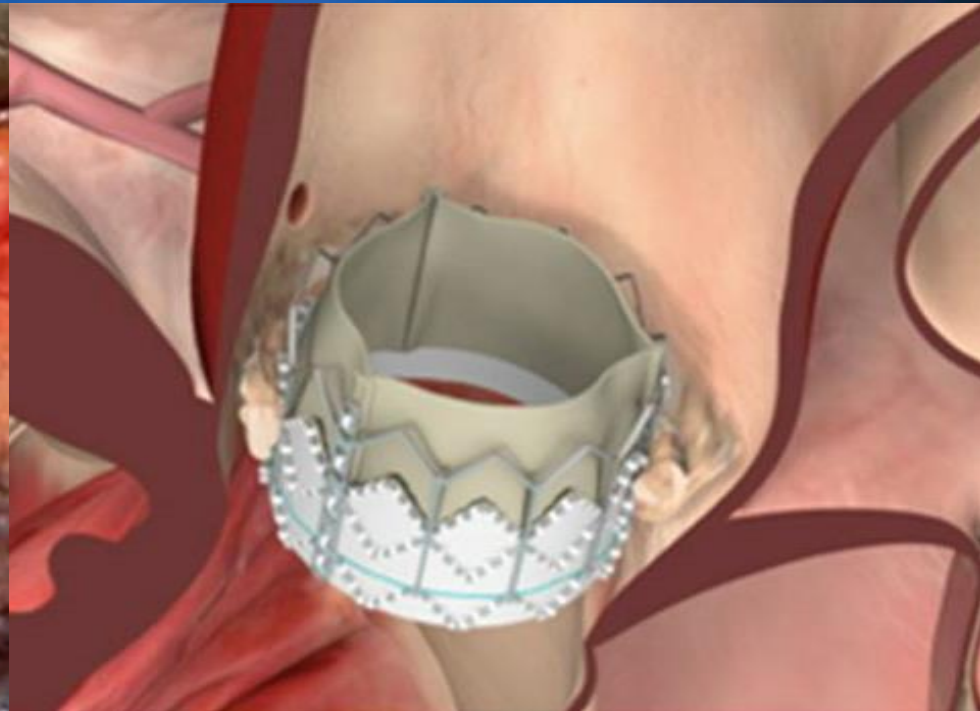
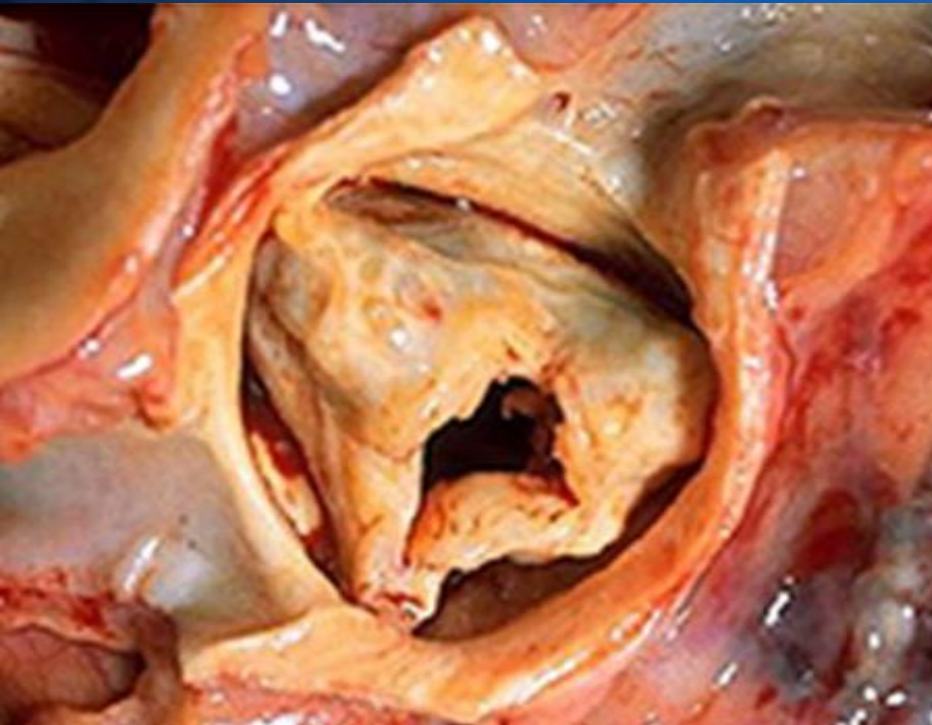
Ascending Aorta Proximal Neck ( $>30\text{mm}$ )



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## Complex Aortic Arch Aneurysms (Zone 0)

Aortic Valve Severe Diseased or Post Replacement



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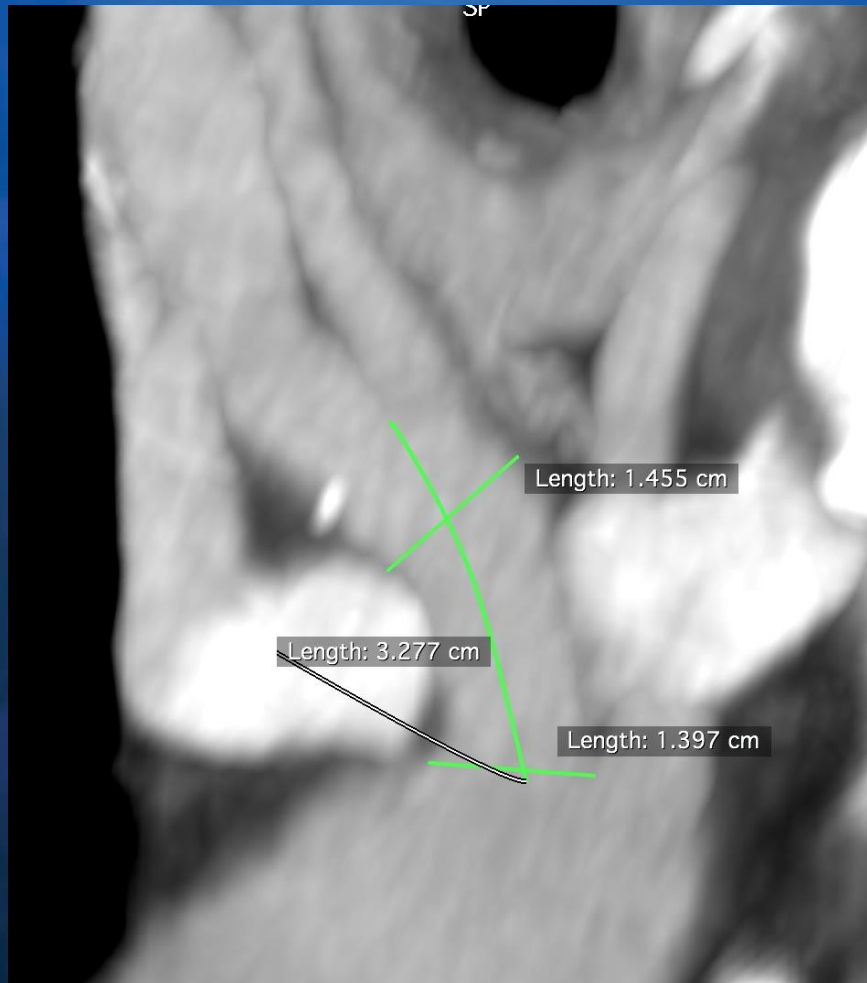
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# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

Innominate Artery Length ( $>3\text{cm}$ ) and diameter ( $<15\text{mm}$ )





# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

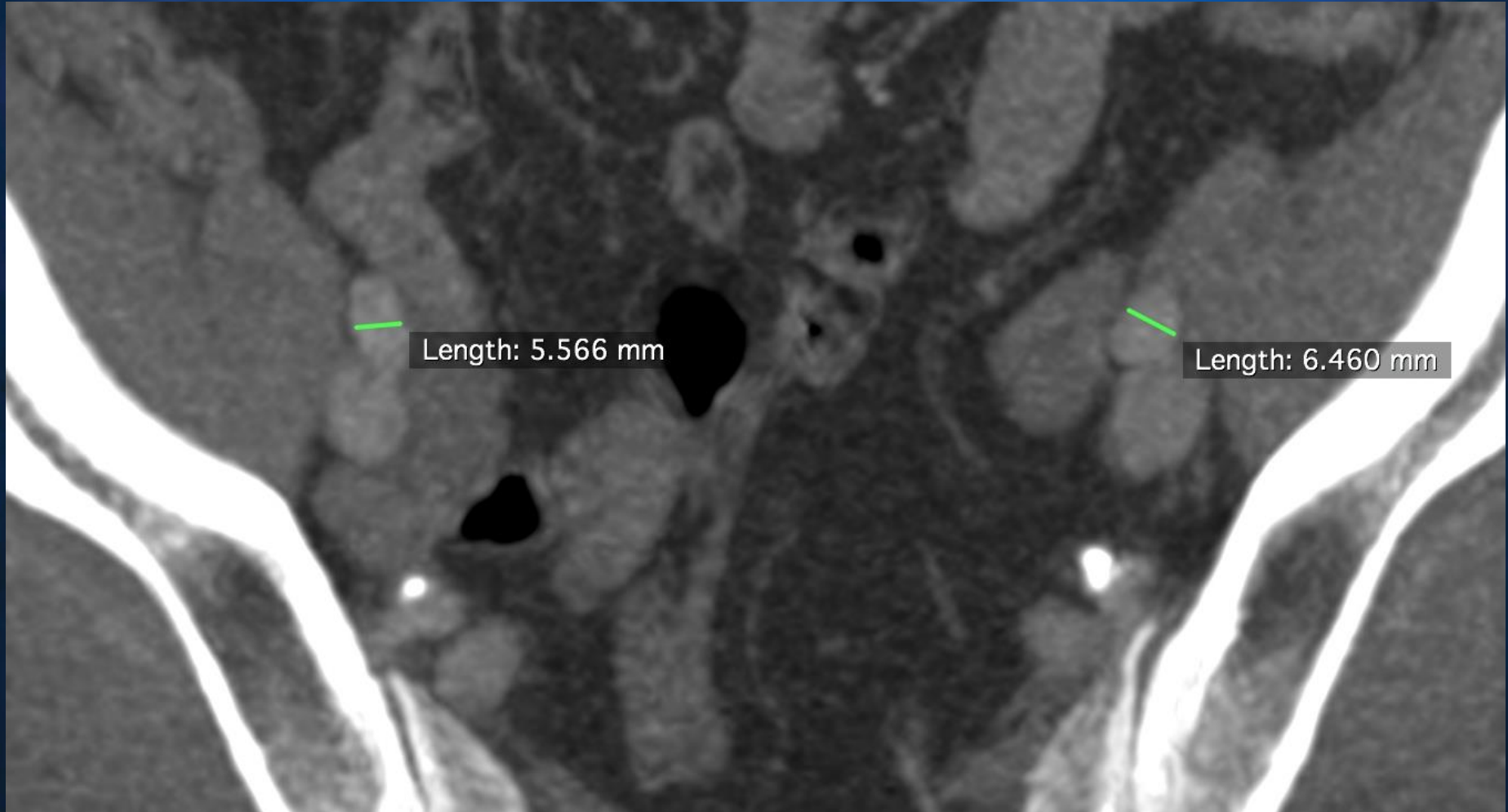
Access – Delivery Sheath Size (22-24F ID)



# Technical Issues

## Complex Aortic Arch Aneurysms (Zone 0)

Access – Delivery Sheath Size (22-24F ID)



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# Conclusions

## Complex Aortic Arch Aneurysms (Zone 0)

- ✓ TAAER with the ST is an effective technique with satisfactory early and midterm results.
- ✓ This technique could be an attractive alternative to conventional total arch replacement.
- More experience with the method is warranted.





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