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ELDERLY LADY WITH
SIGNIFICANT BILATERAL
CAROTID ARTERY STENOSIS
AND BOVINE ARCH!!





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Disclosure

We do not have any potential conflict of interest



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85 Year old lady

- DM
- HT
- CAD Post PTCA (2006)
- Recurrent TIAs



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CAROTID ANGIOGRAM

LICA 95-99%, Lt ECA 100%

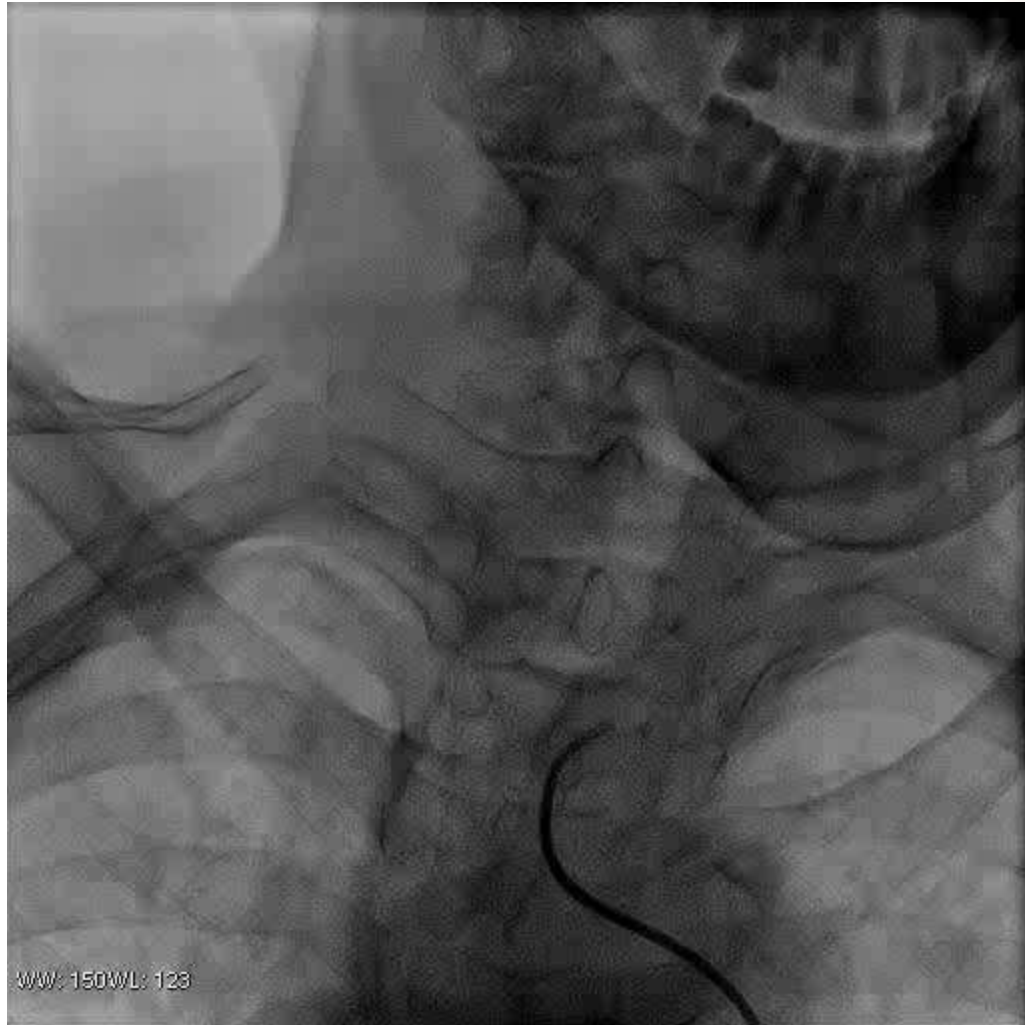
RICA Subtotal Occlusion, Rt ECA 20-30%



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Anatomy: Technical Issues Can This Case Be Done and How

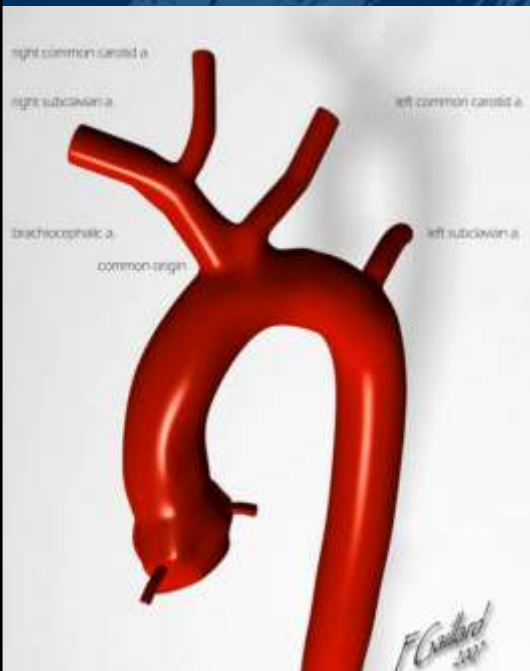
- Vascular access choice
- Diagnostic Catheter Choice
- Sheath vs Guide Catheter
- Choice of Neuro Protection
- Stent selection





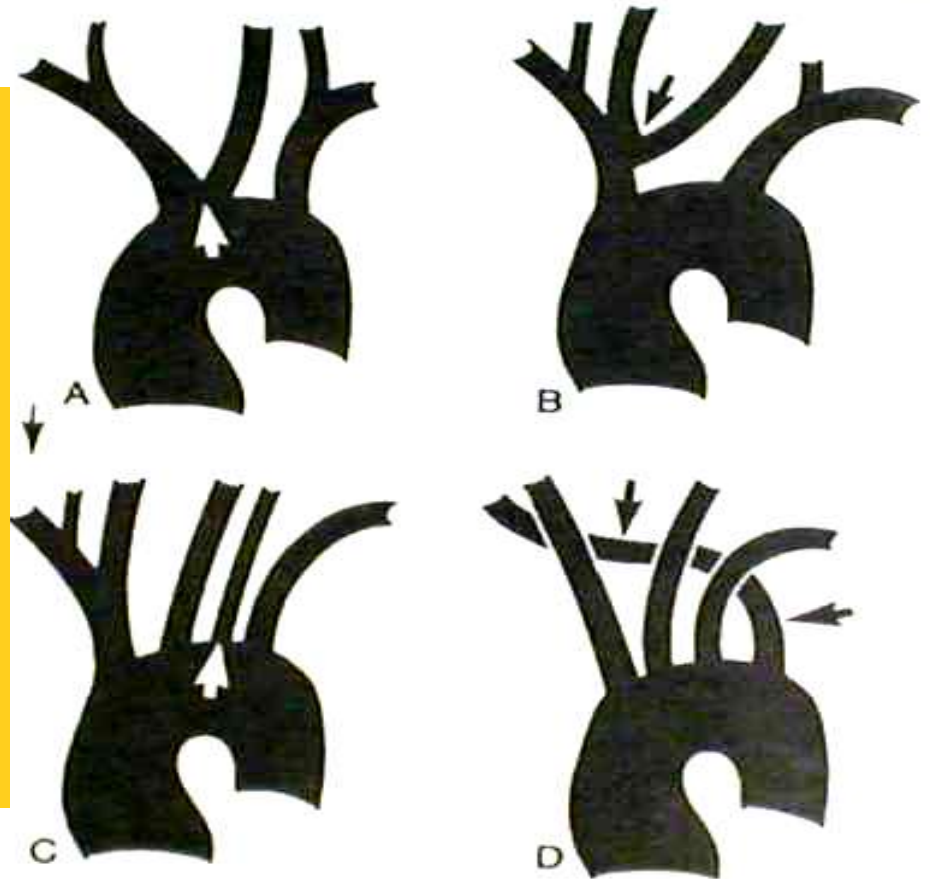
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BOVINE ARCH



Arch Anatomy

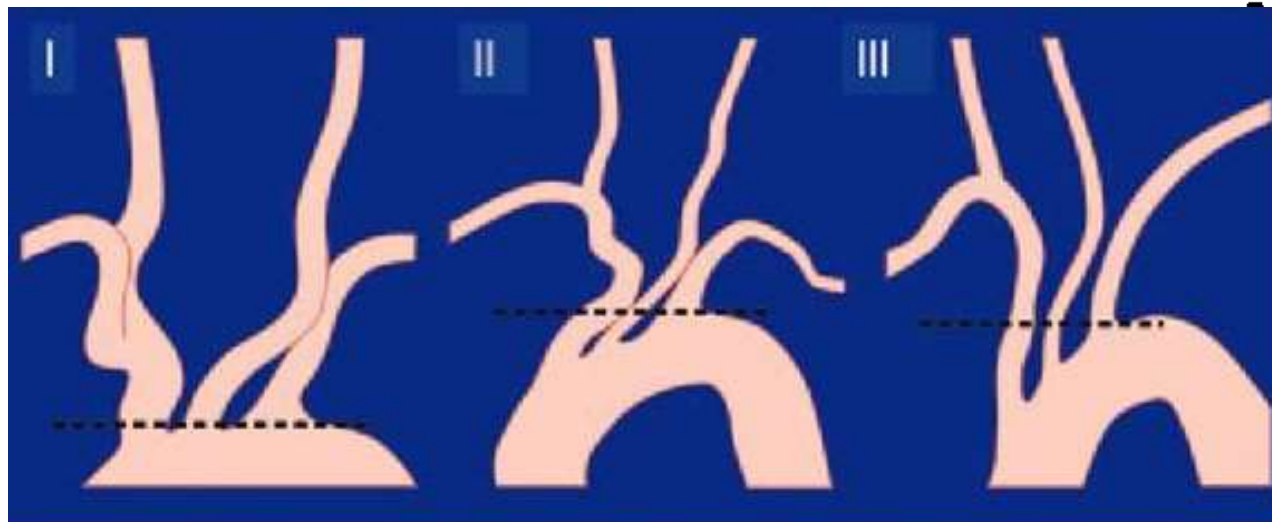
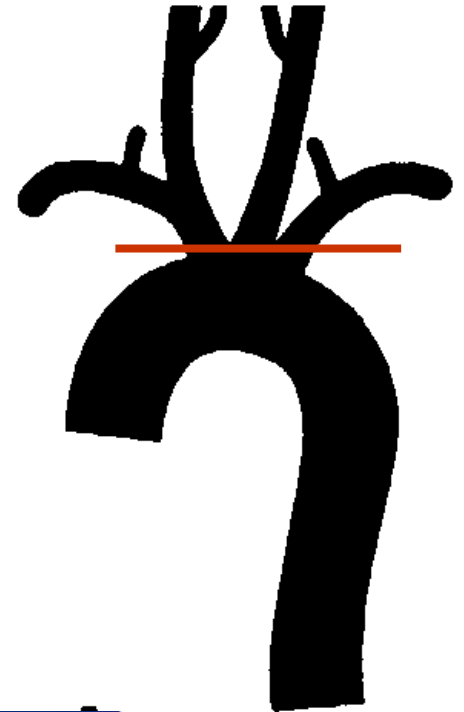
- A. Common Origin
- B. Bovine Anatomy
- C. Vertebral Origin
- D. Right Subclavian Origin



Arch Anatomy

Using the origin of the left subclavian artery as a landmark, the arch curvature can be classified into three levels.

- Type I Least Difficult: all at same level
- Type II More Difficult: all <2 CCA dia
- Type III Most Difficult: all lower >2 CCA





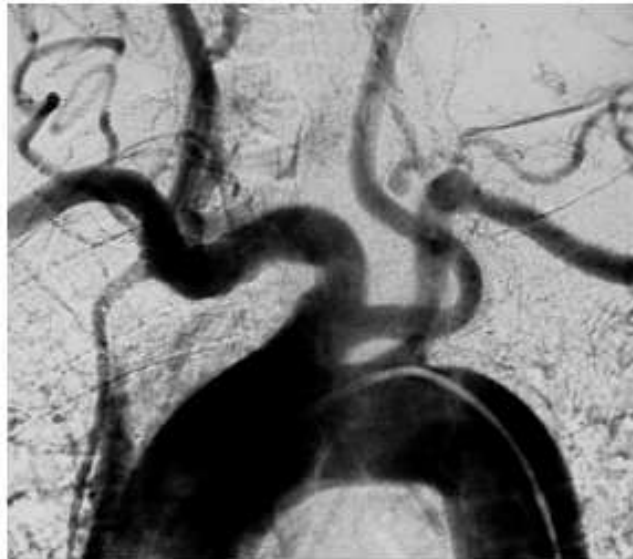
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Carotid Access

The most difficult part of the procedure

Arch & access to CCA related complications

**CAPTURE registry: 20% of neurologic events were contralateral.
That means that at least 40% of events are arch or access related.**



CCA engagement

Types of Aortic Arch

I

II

III



**JR
Berenstein
AR mod.**

**Simmons
AR mod.
Hockey-stick
IM**

**Simmons
Hockey-stick
IM**

Long sheath
Guiding cath.

Long sheath
Guiding cath.

Guiding cath.

**DIAGNOSTIC CATHETERS
FOR DIFFICULT ARCHES**



Vitek

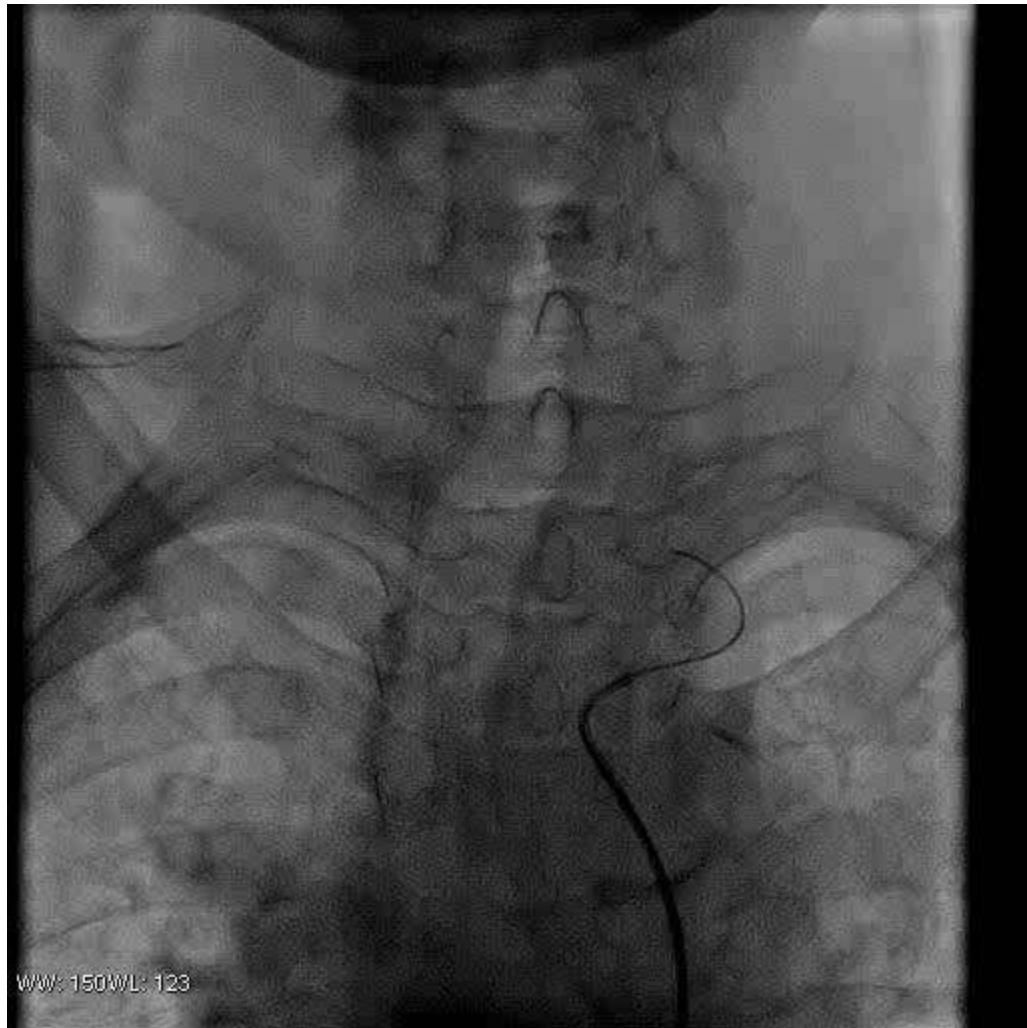


Amplatz



Simmons





WWW: 150/WL: 123

ALTERNATE ACCESS STRATEGIES FOR COMPLEX ANATOMY

- ALTERNATE ACCESS— RADIAL/CAROTID
- BUDDY WIRE
- SPECIAL GUIDING CATHETER



1

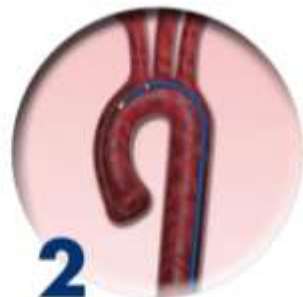
Wire the Aortic Arch

Introduce a standard and stiff 0.035" guidewire into the aortic arch.



Backload Guidewires into the Piton™ GC

Insert stiff guidewire into "side hole" and standard wire into "front hole" of the Piton.



2

Position Piton under Supraaortic Vessels

Introduce and advance system until side hole of Piton is in front of ostium of vessel to be treated.



3

Reshape the Tip

Partially pull back standard wire to atraumatically reshape tip.



4

Engage CCA Ostium

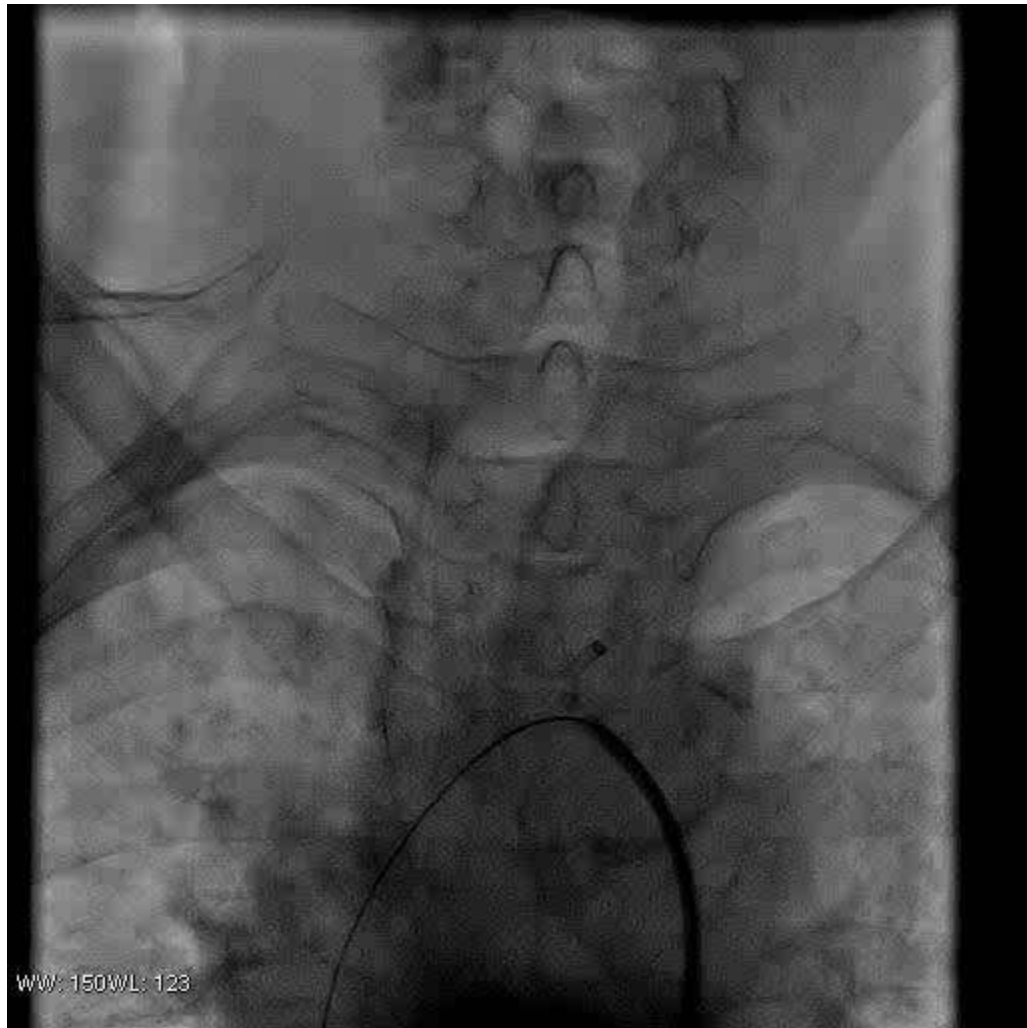
Rotate Piton to engage tip into ostium of vessel. Carefully re-advance standard wire into the carotid vessel.



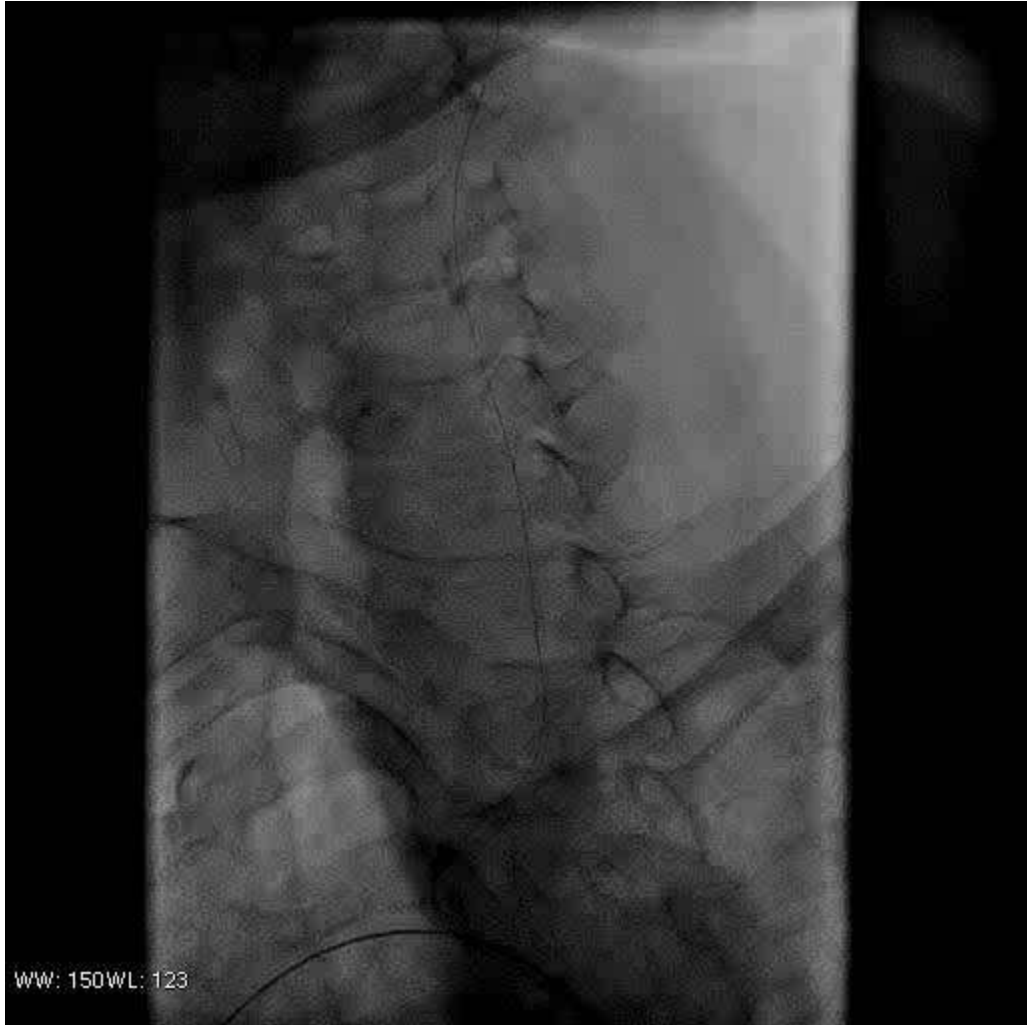
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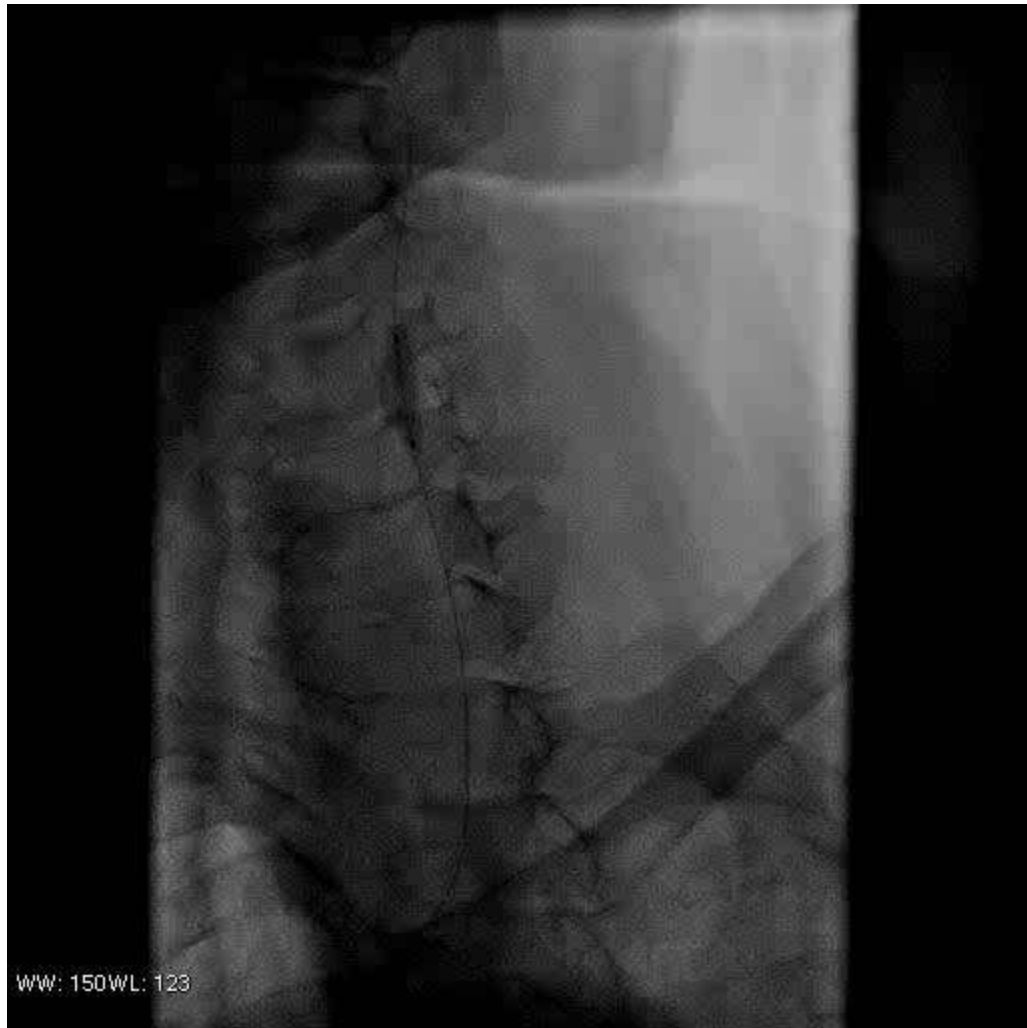
Cannulate CCA

Retract the stiff guidewire off the side hole and re-advance it to same level as standard wire. Pull out standard wire and start planned intervention.

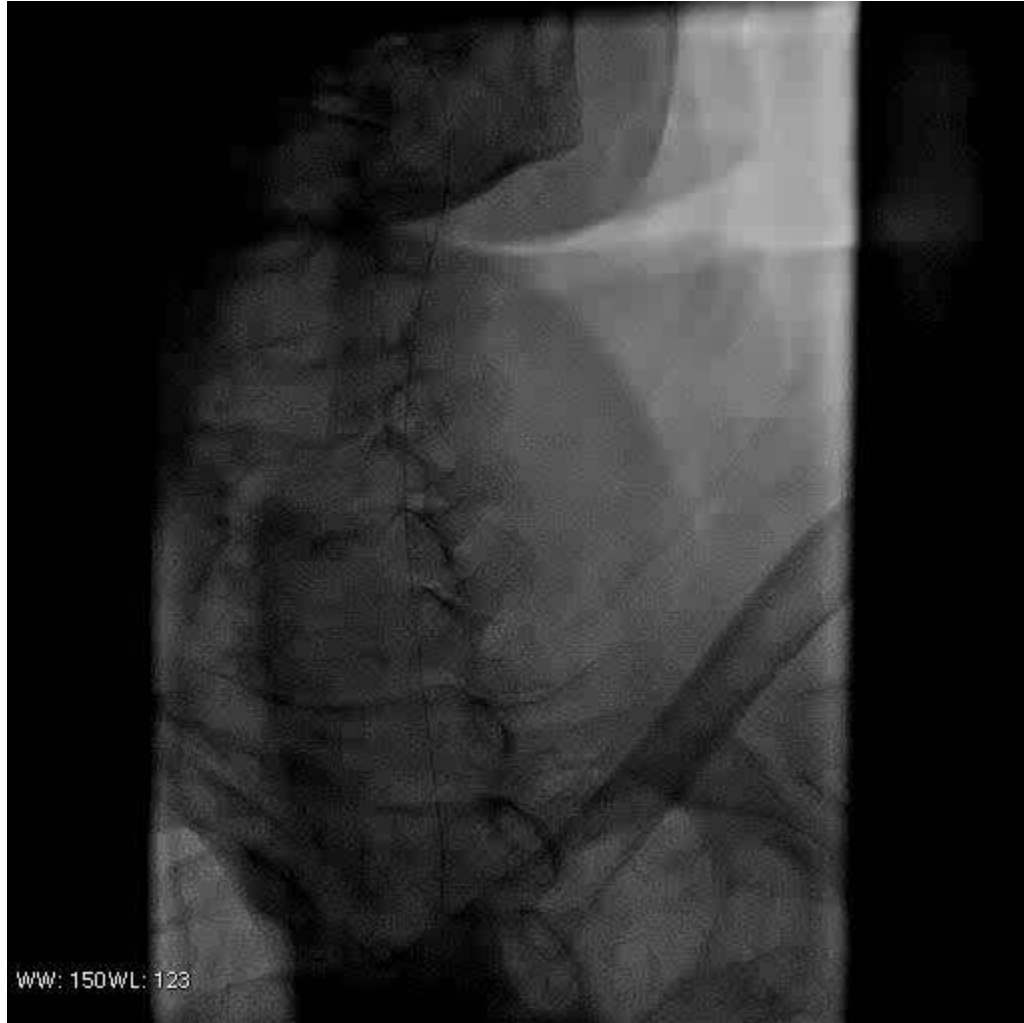


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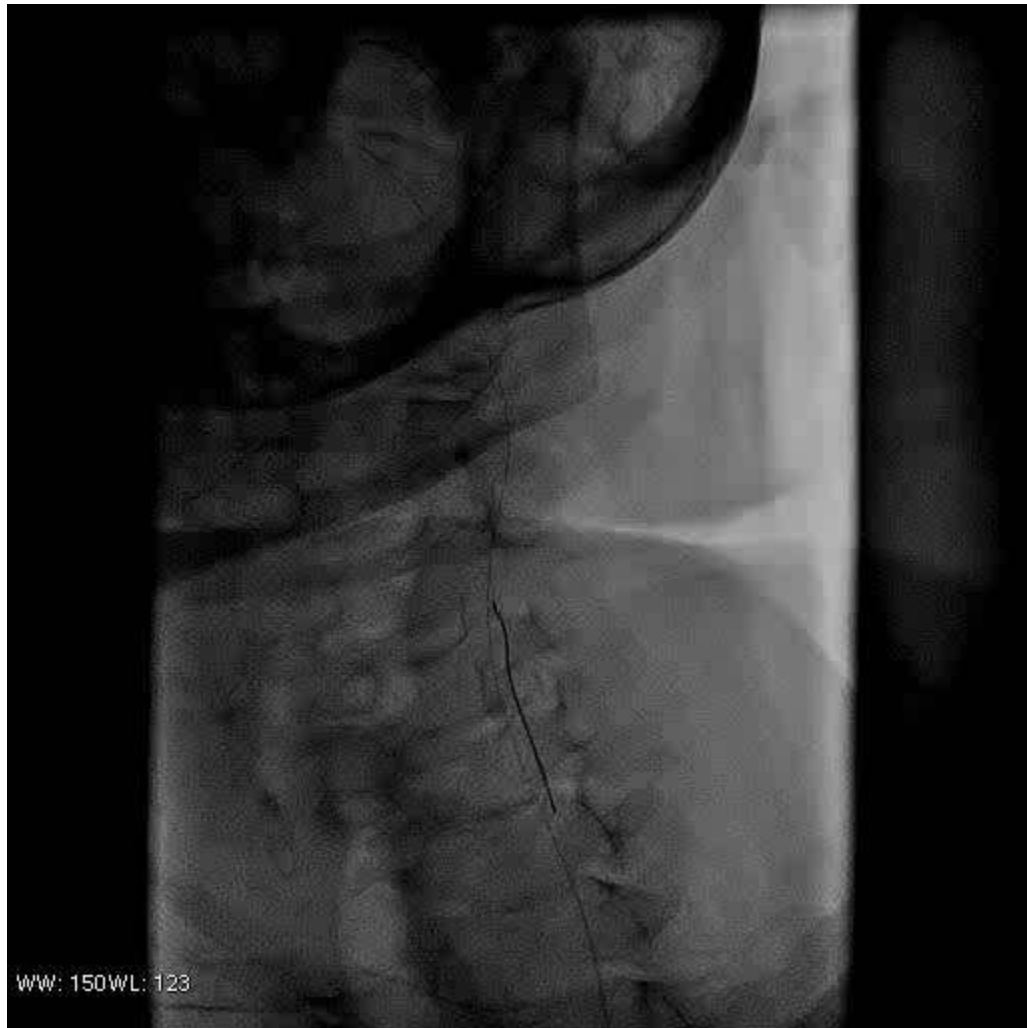




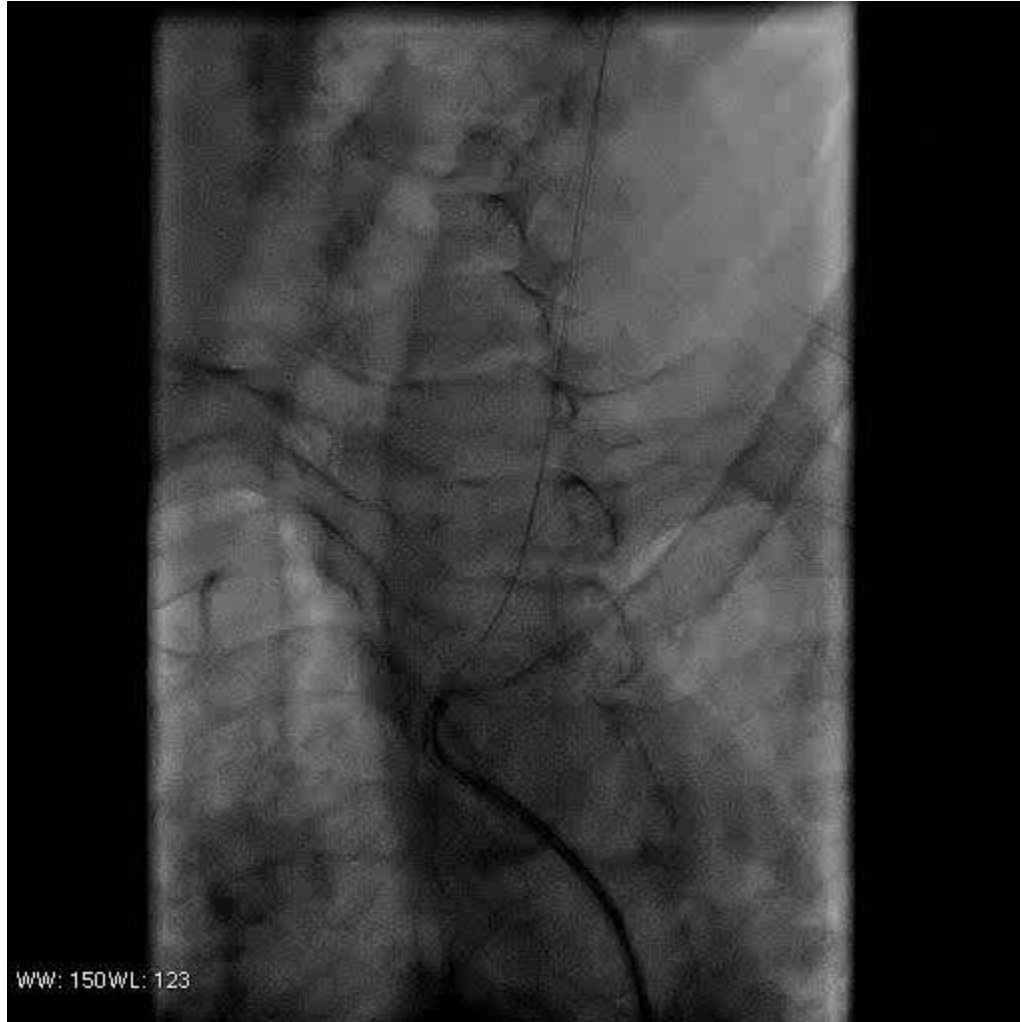
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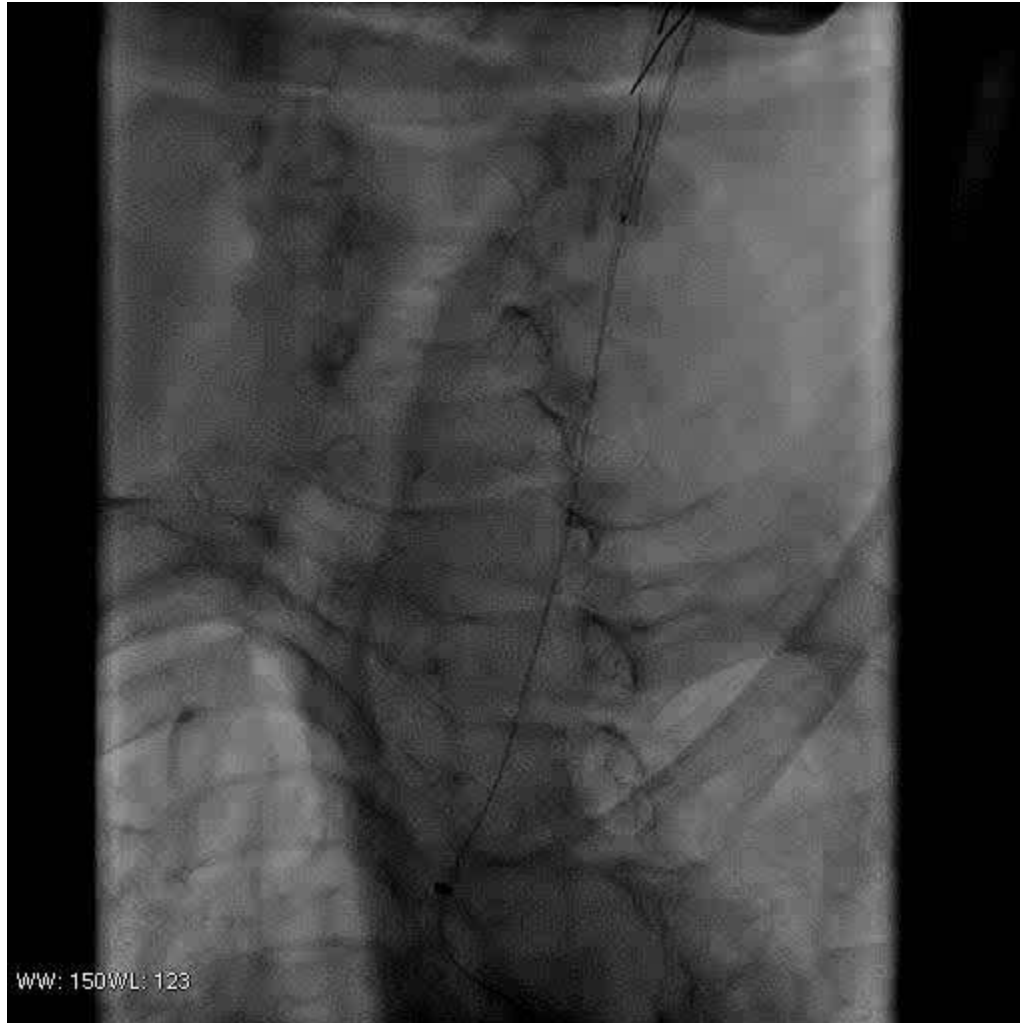
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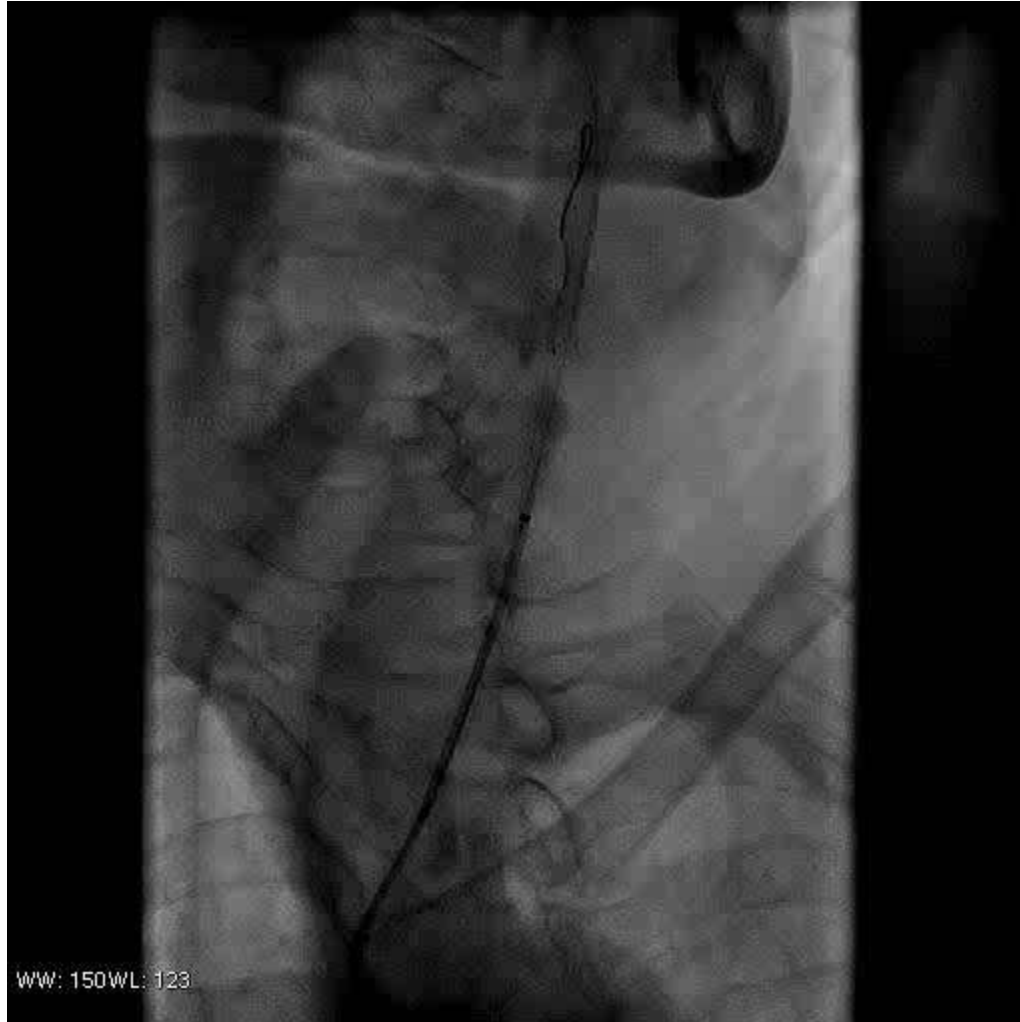
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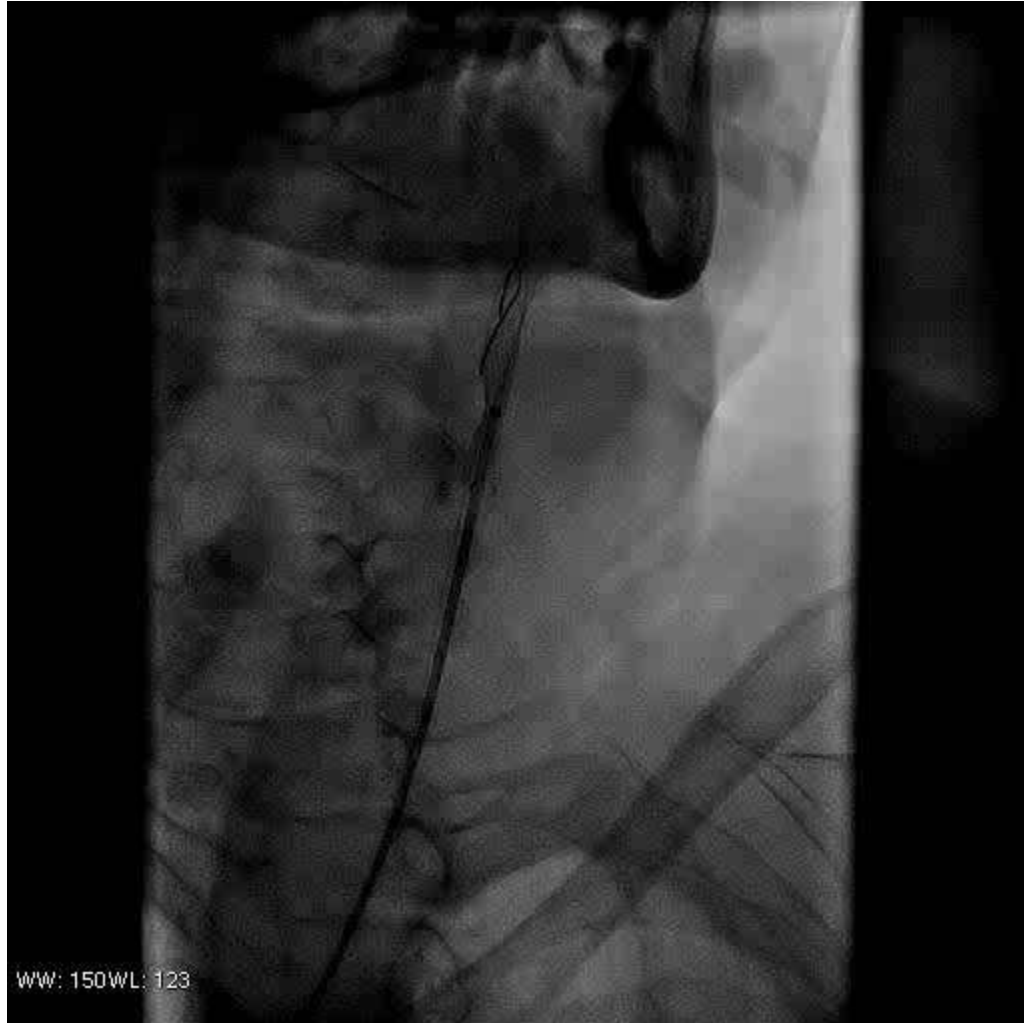
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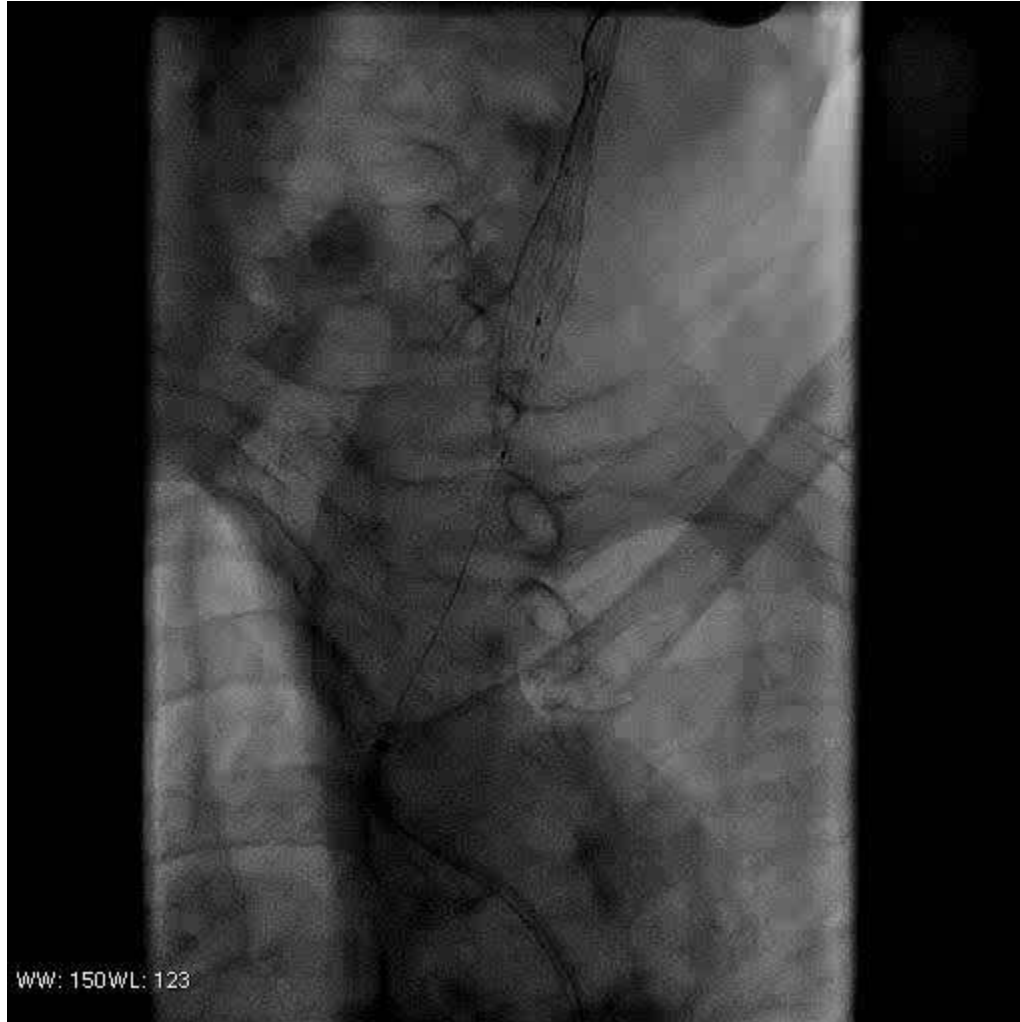
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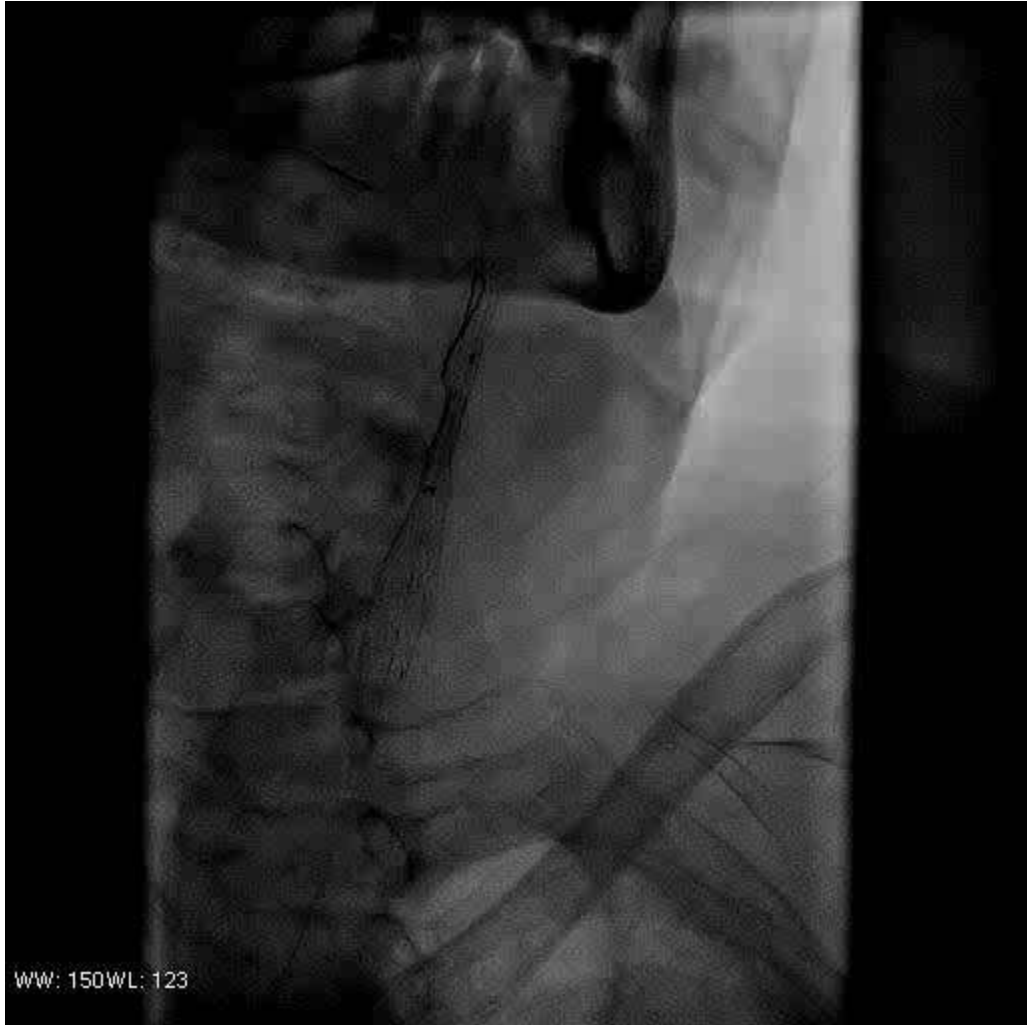
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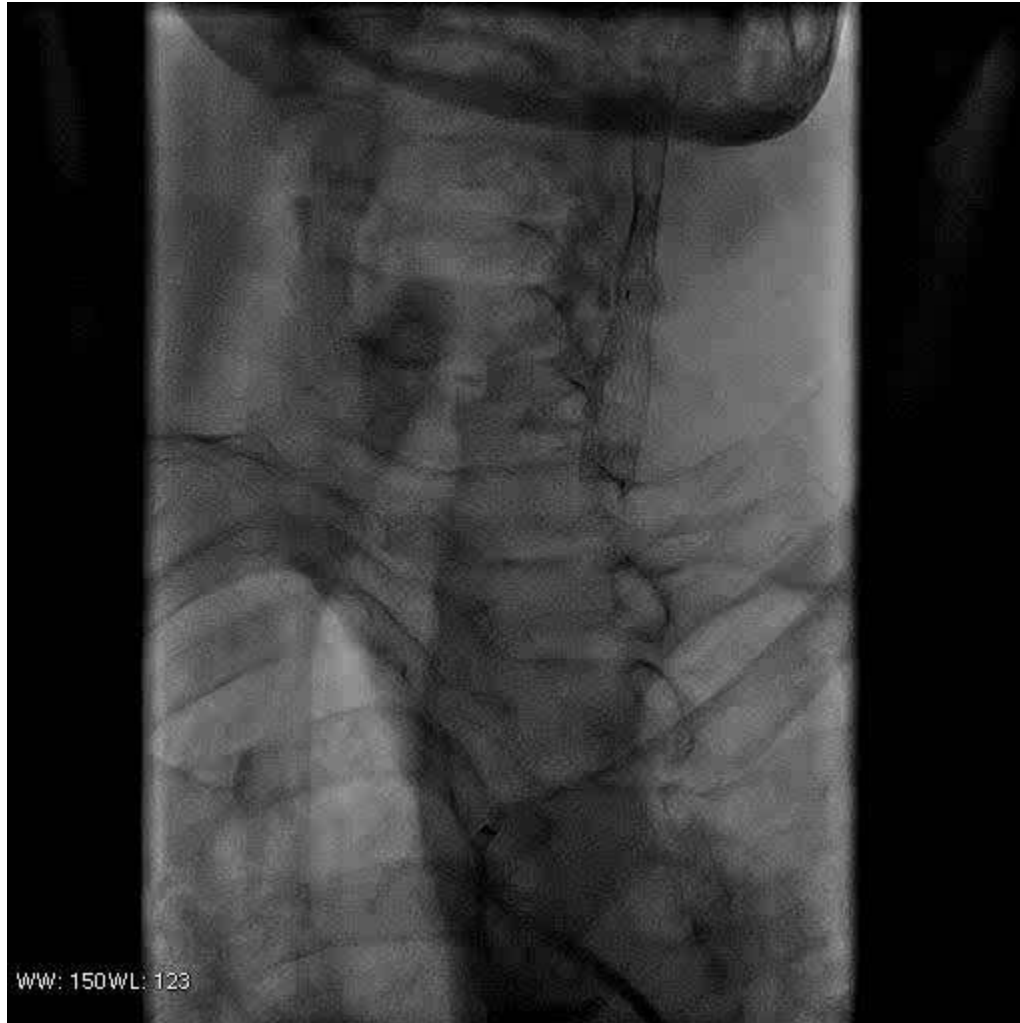
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THANK YOU!

