

Recherche d'endofuite ou quand le radiologue se transforme en sourcier

3D Phase contrast MRI imaging to detect endoleak

Perspectives

Bordeaux 17 Juin 2022

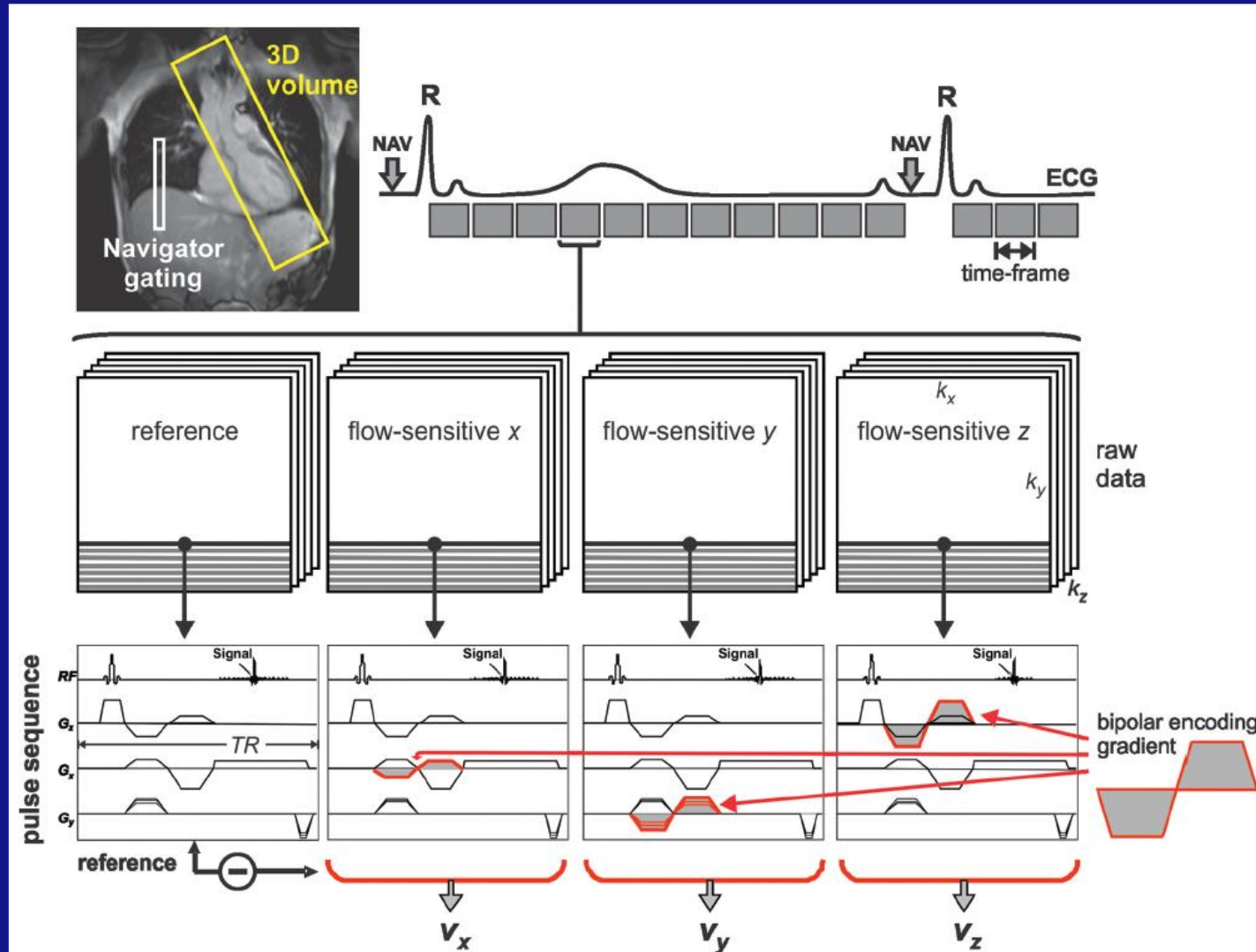
Benjamin Dubourg

CHU Rouen – CHU La Pitié Salpêtrière Paris – Clinique Saint Augustin Bordeaux

Conflicts of interest

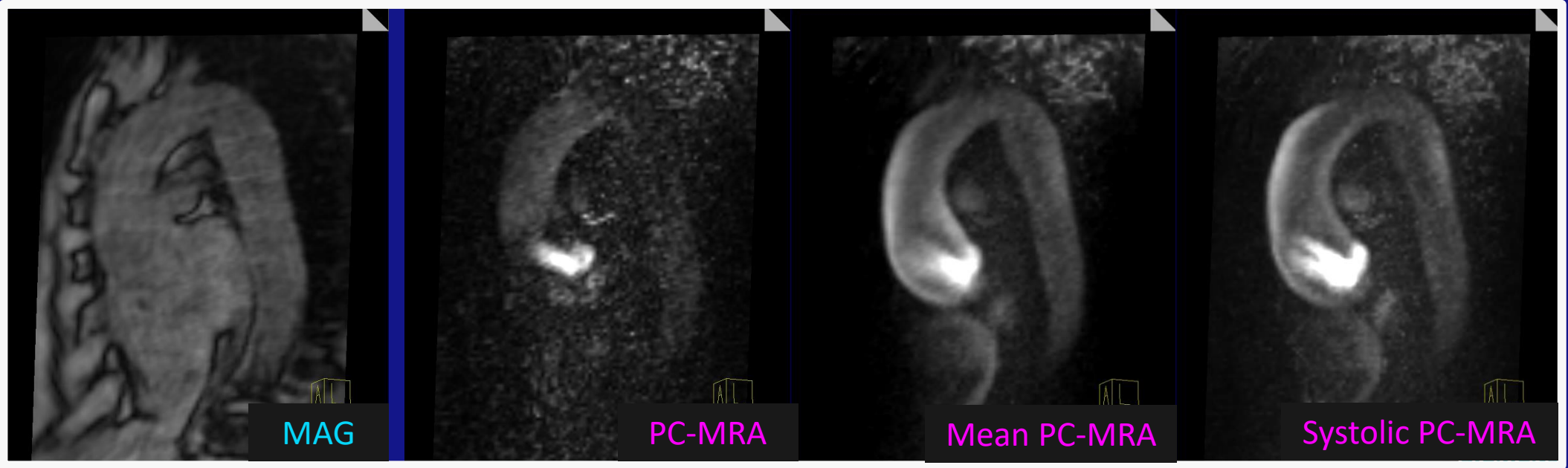
- None

3D Phase contrast imaging – 4D Flow

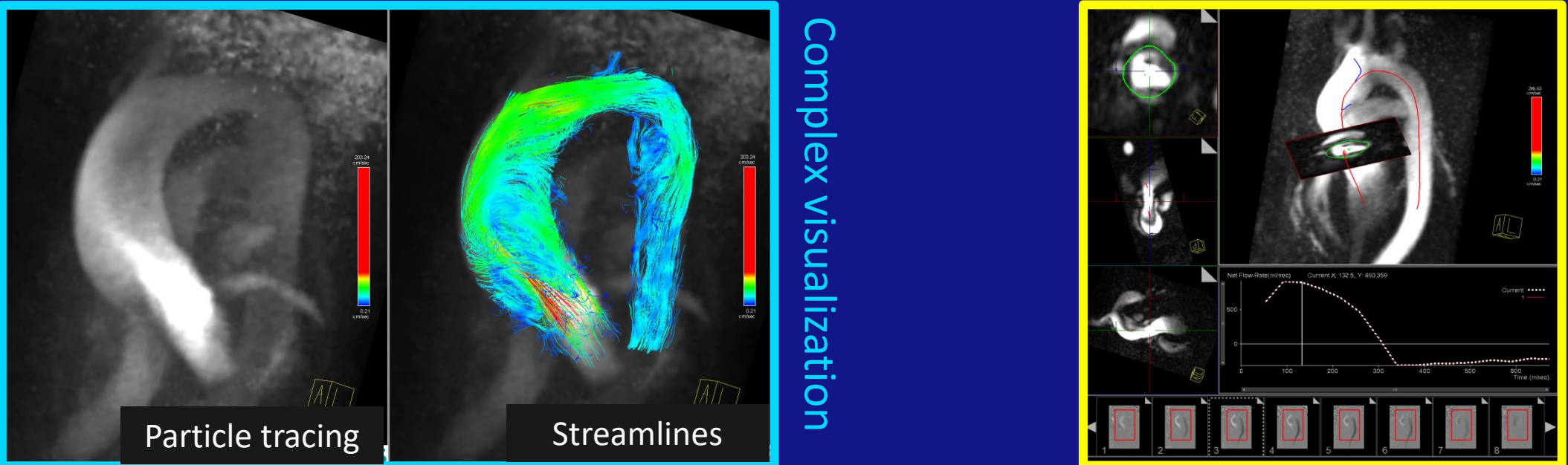


Post processing

Simple visualization

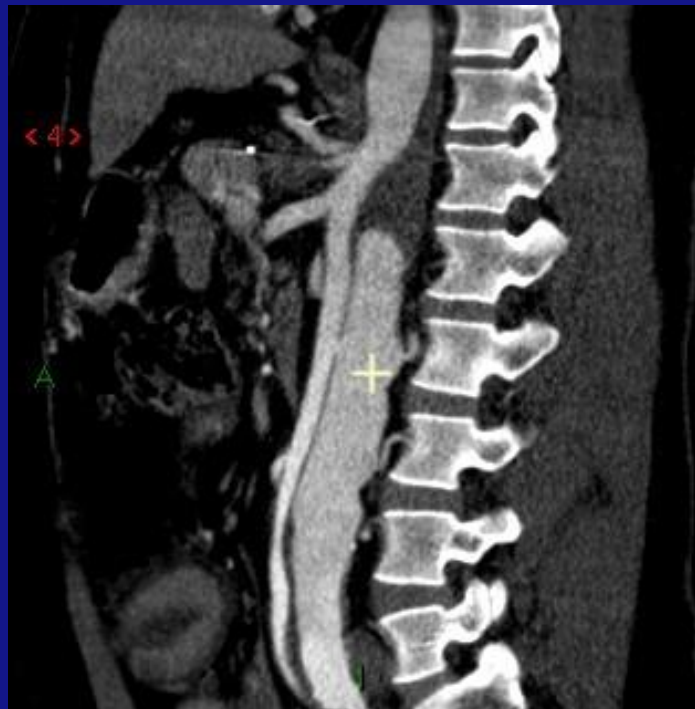
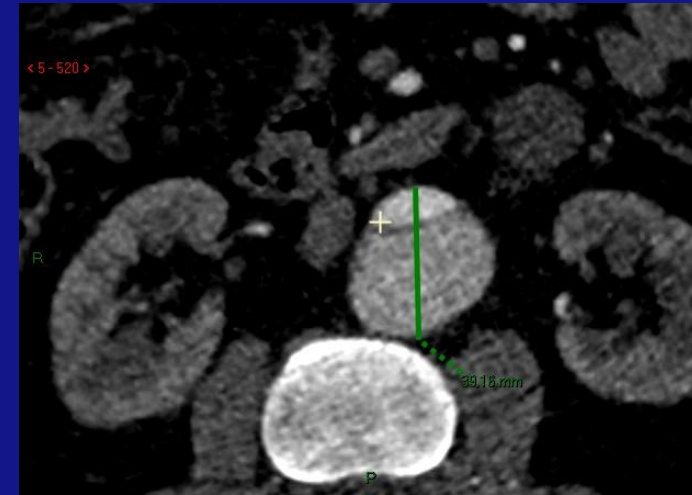
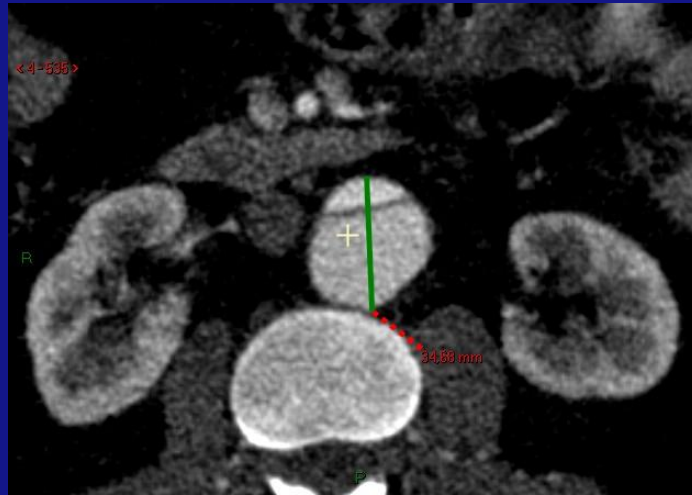


Quantification



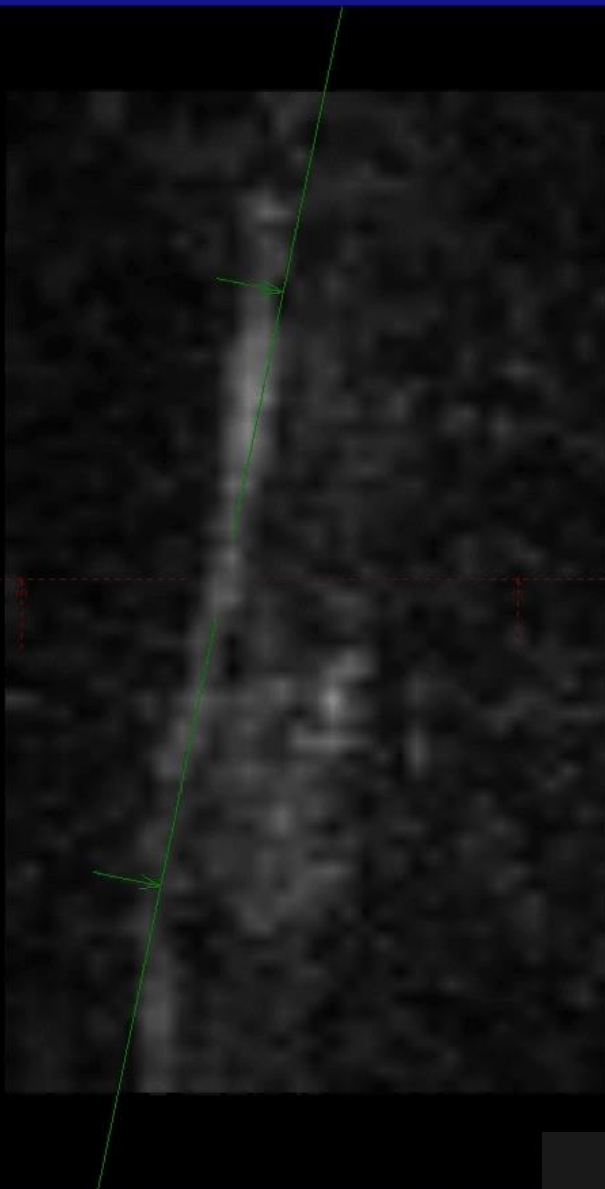
**EVALUATION BEFORE AND AFTER
ENDOVASCULAR REPAIR IN AORTIC DISSECTION**

Mr I.



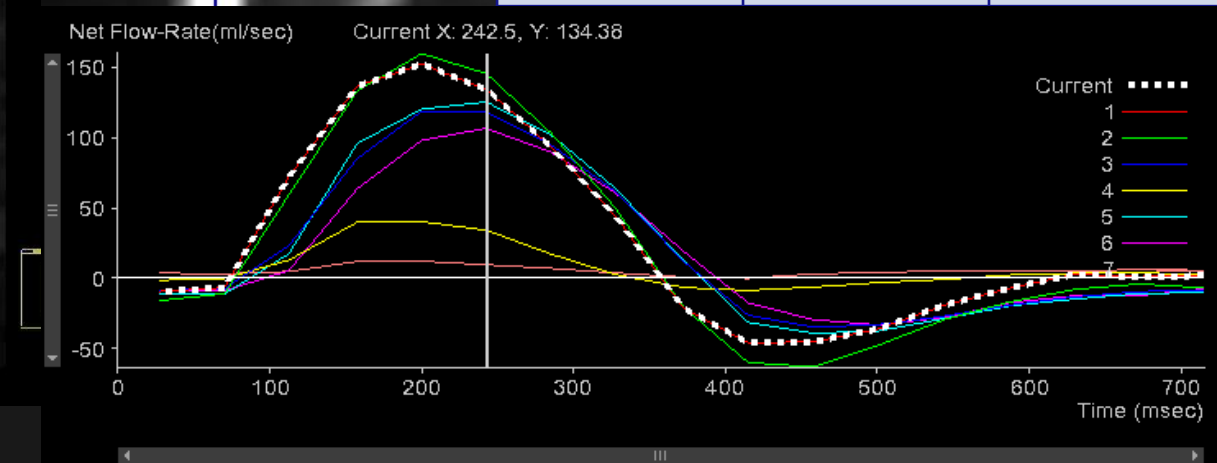
Quantification

M, U48Y
 #16255099050
 STUDY 16255099050
 23/11/2016
 11:08:25.03
 9999 INIA 55555

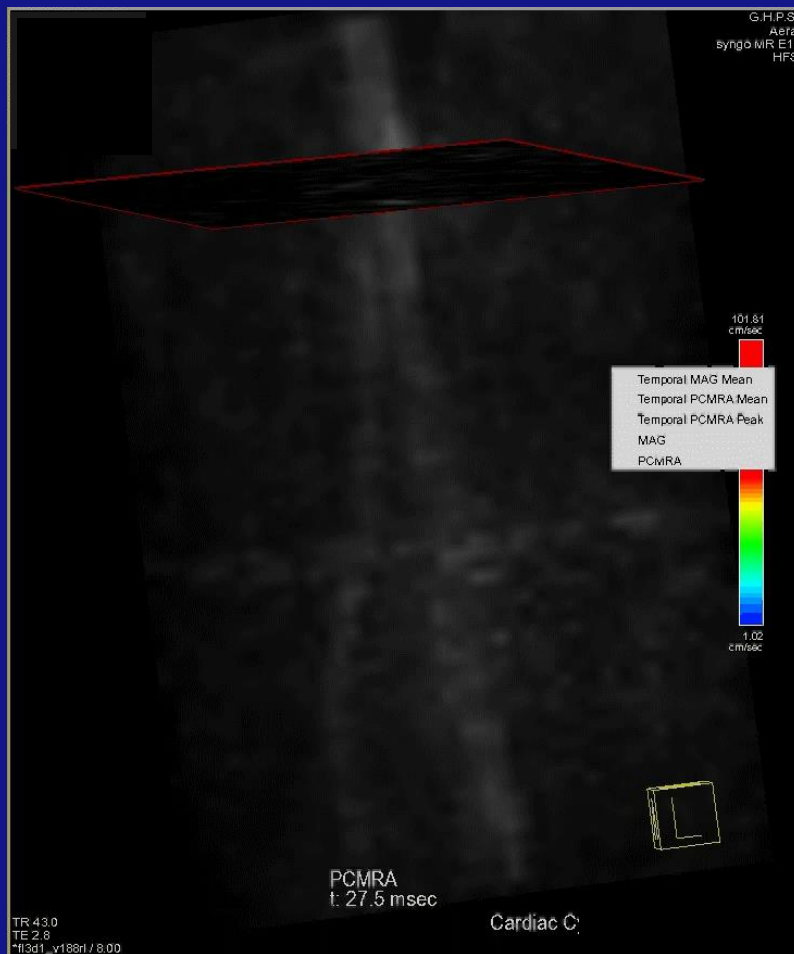


	VA (mL)	VR (mL)
1	26,93	7,50
2	27,47	11,15
3	21,80	7,38
4	6,74	1,07
5	22,76	8,40
6	18,78	6,90
7	3,74	0

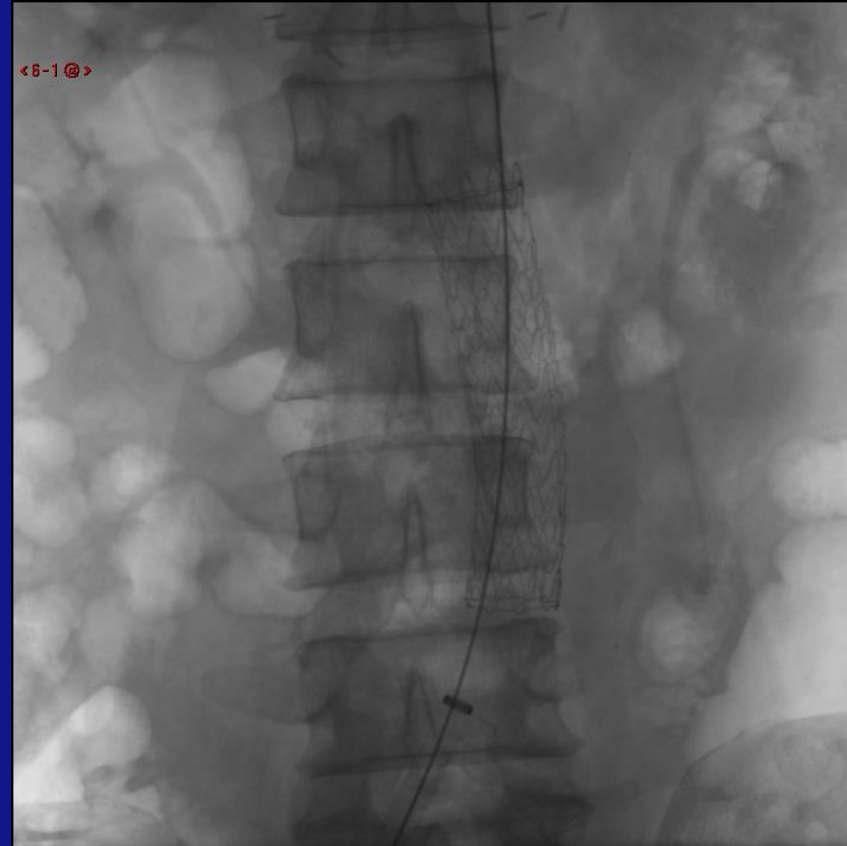
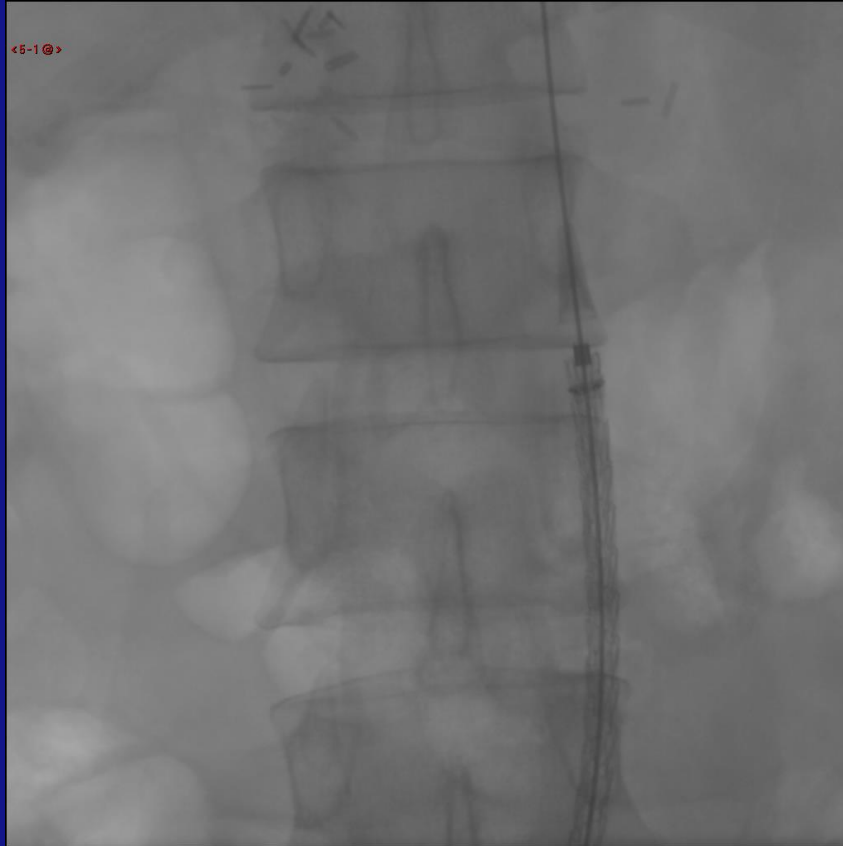
TR 43.0
 TE 2.8
 *f13d1_v188rf / 8.00



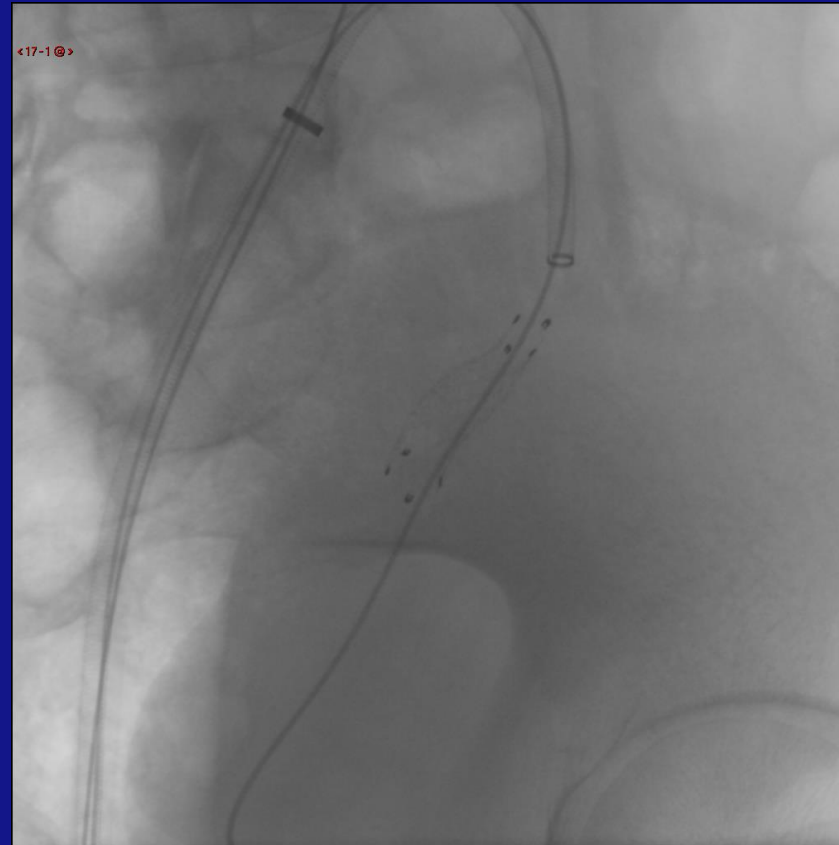
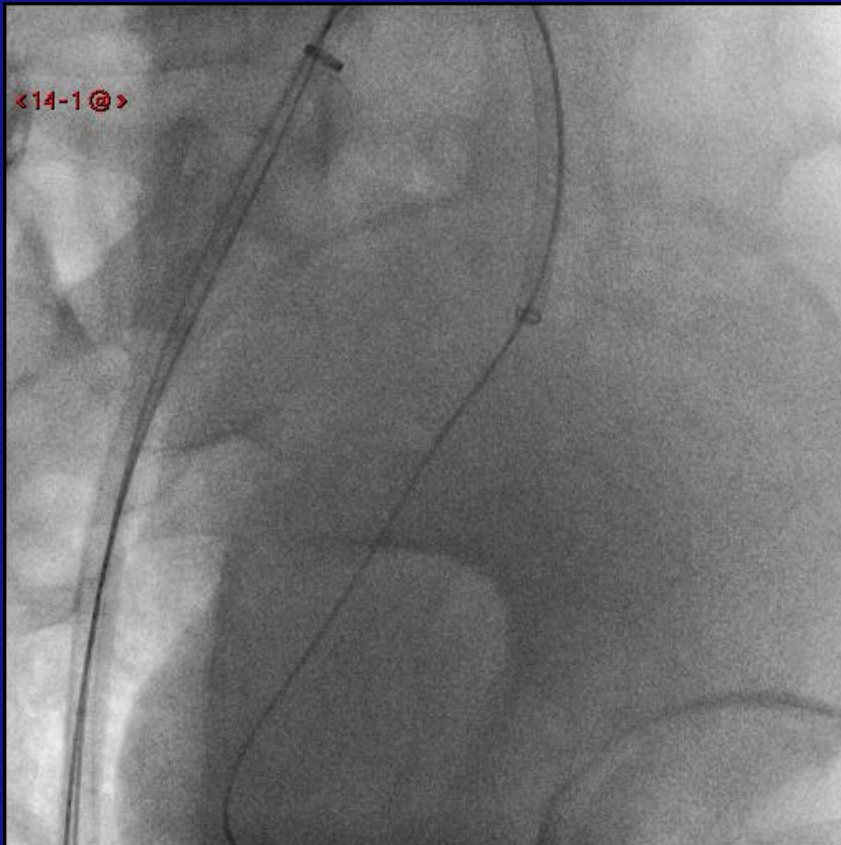
Particle tracing abdominal aorta



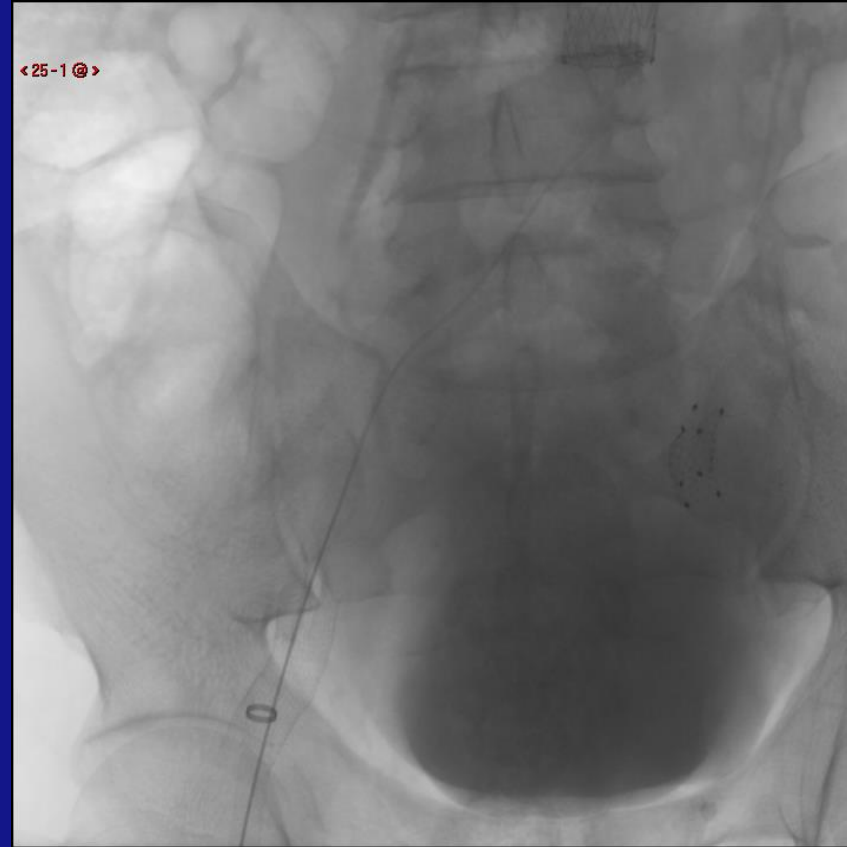
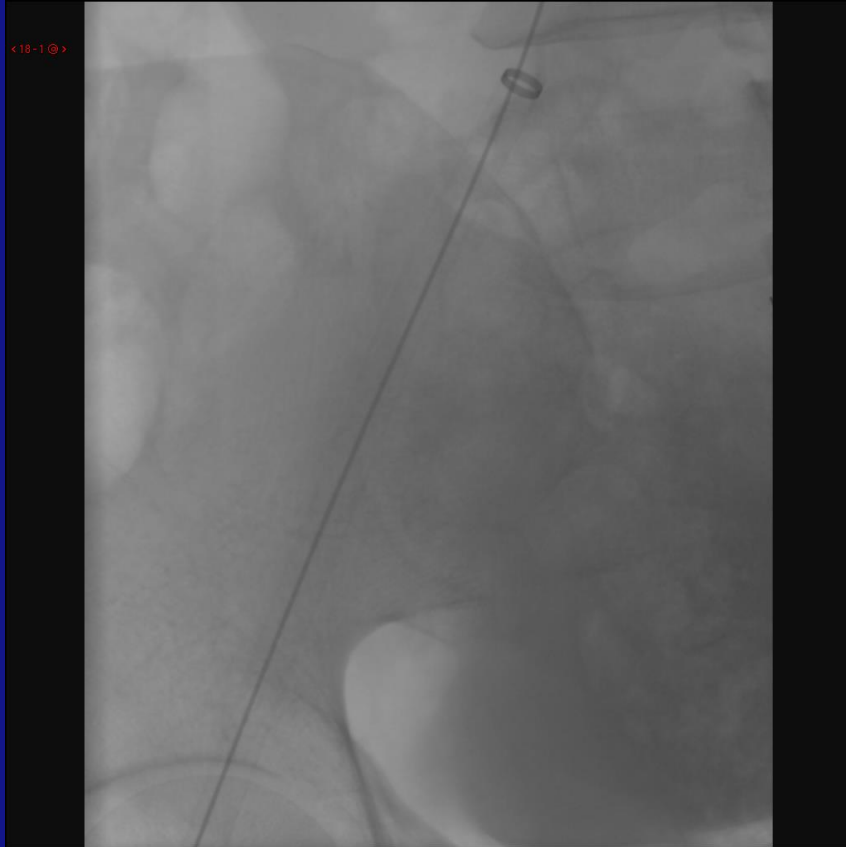
Endovascular repair



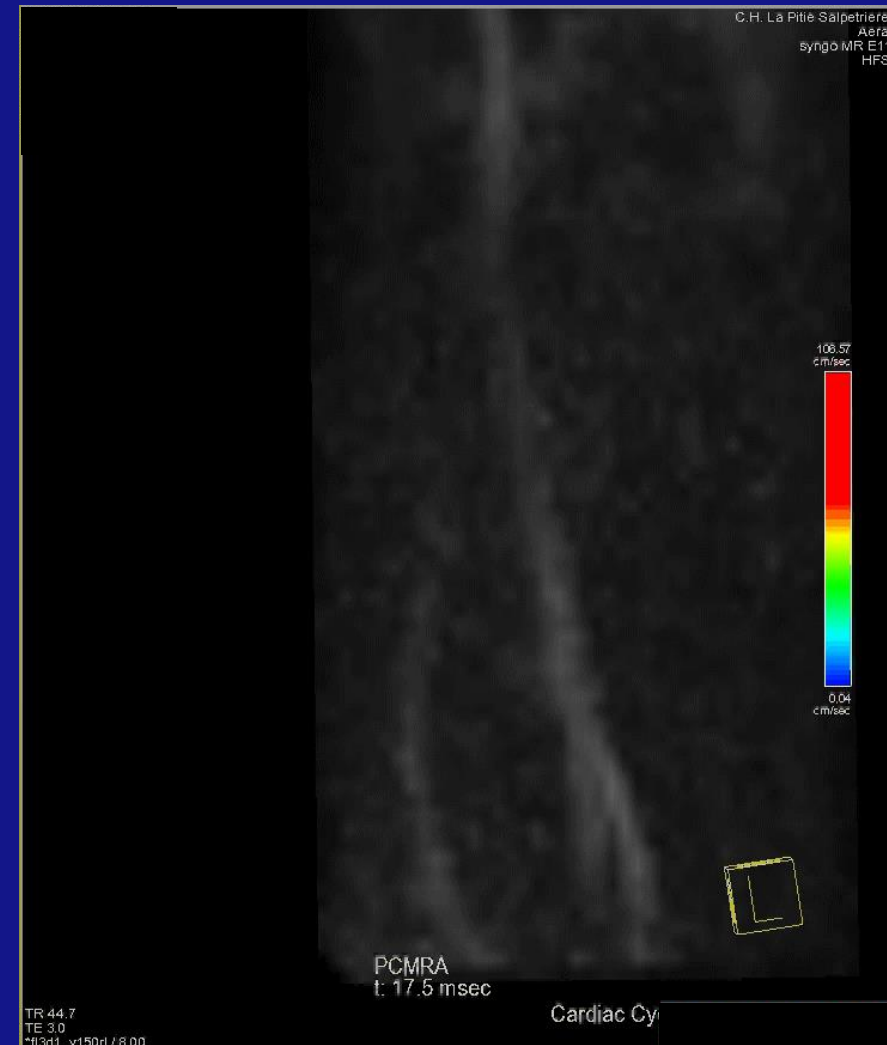
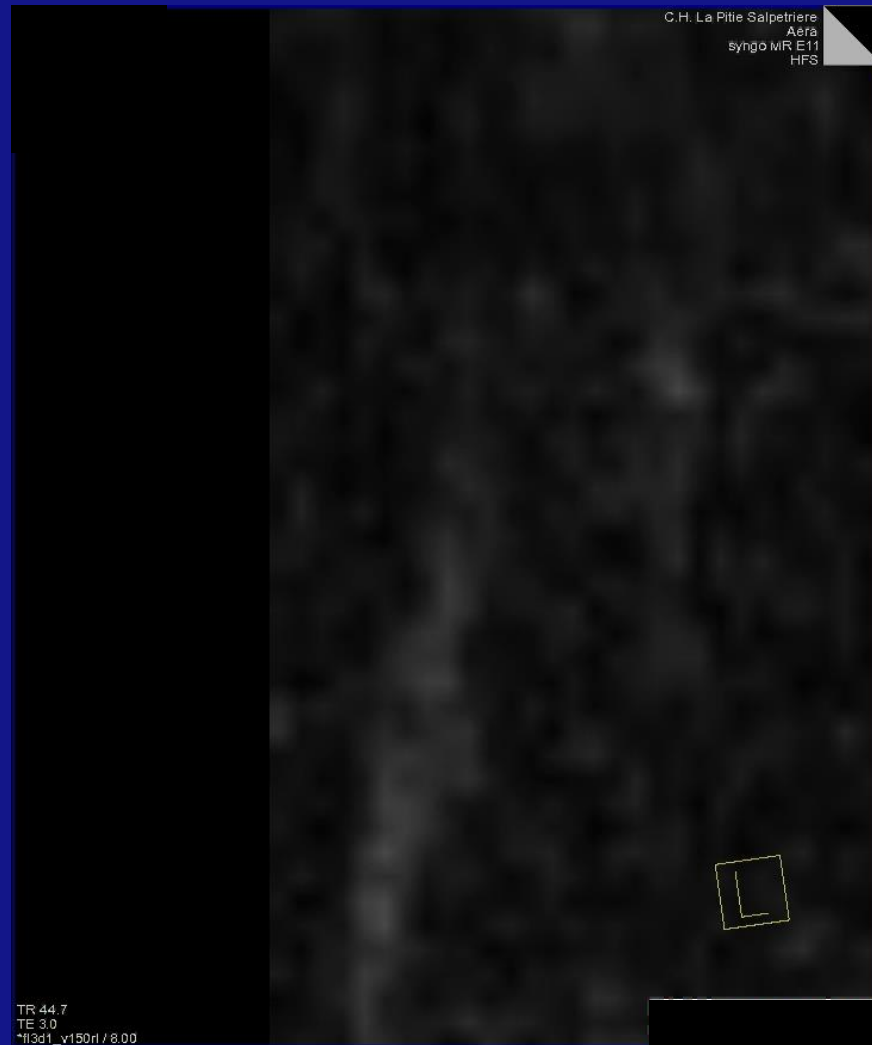
Endovascular repair



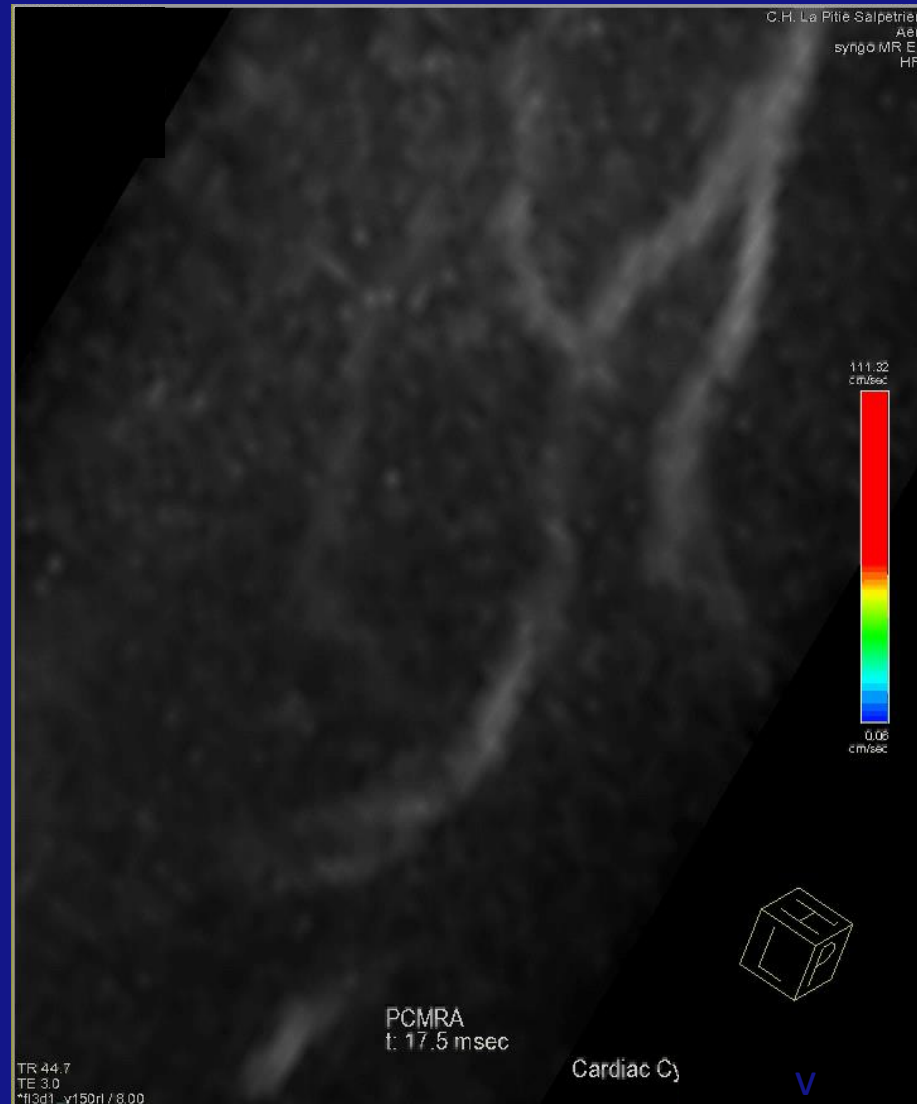
Endovascular repair



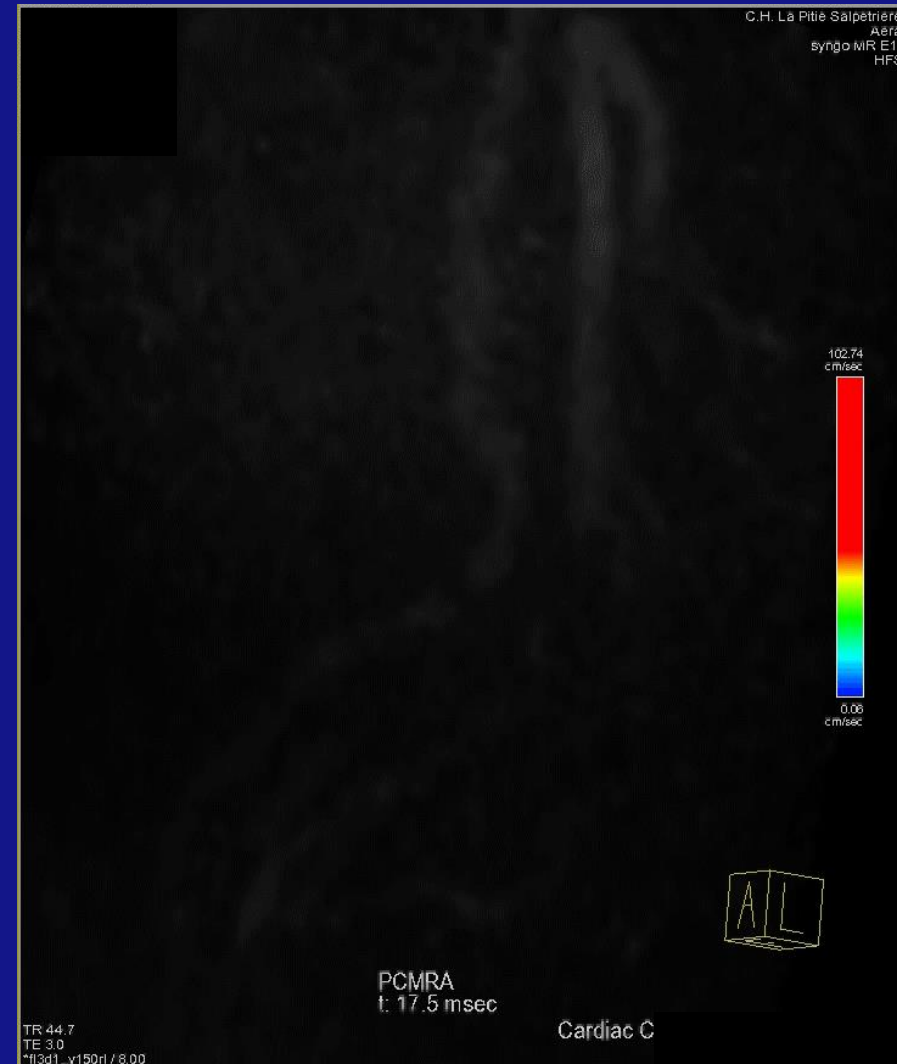
Post therapeutic evaluation



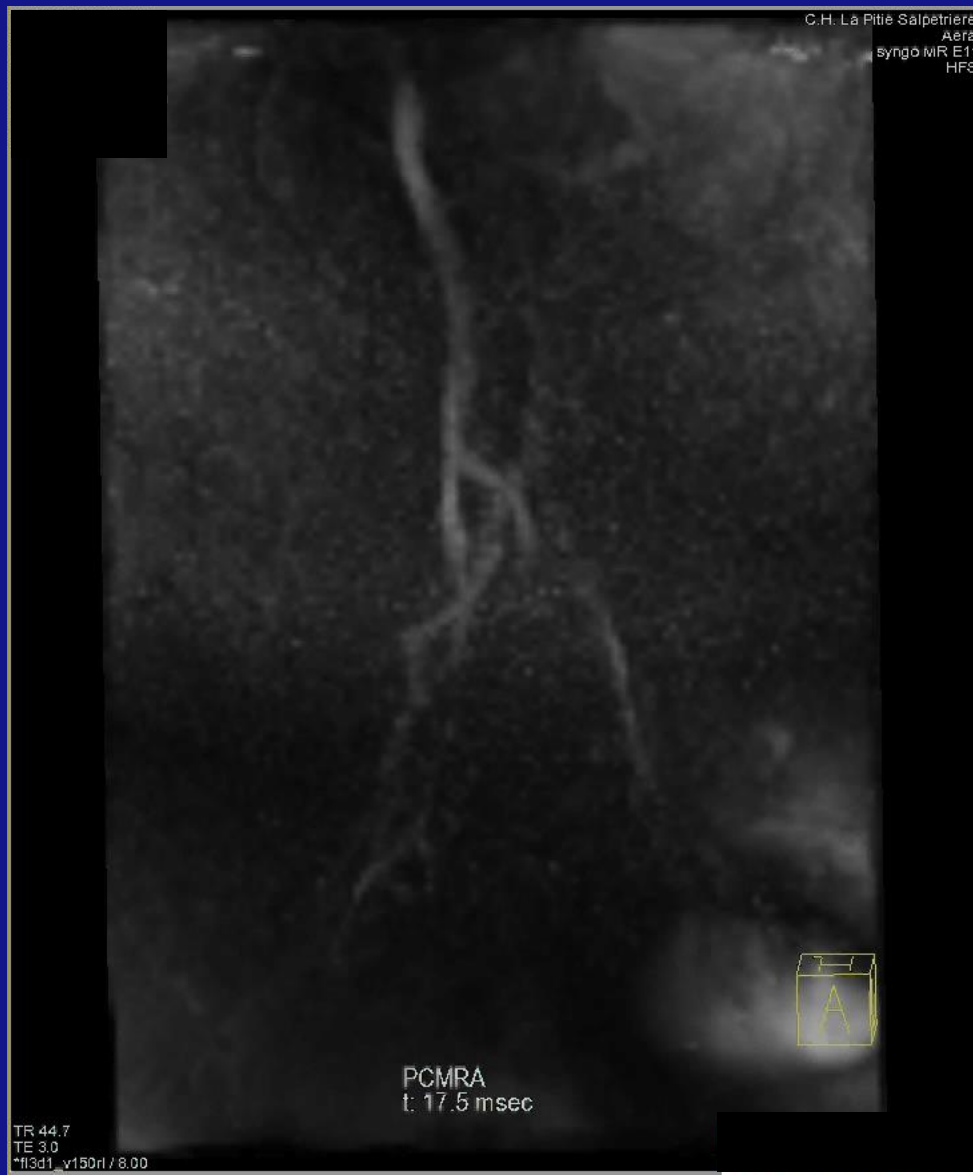
Left iliac artery



Right iliac artery



C.H. La Pitte Salpetriere
Aera
syngo MR E11
HFS

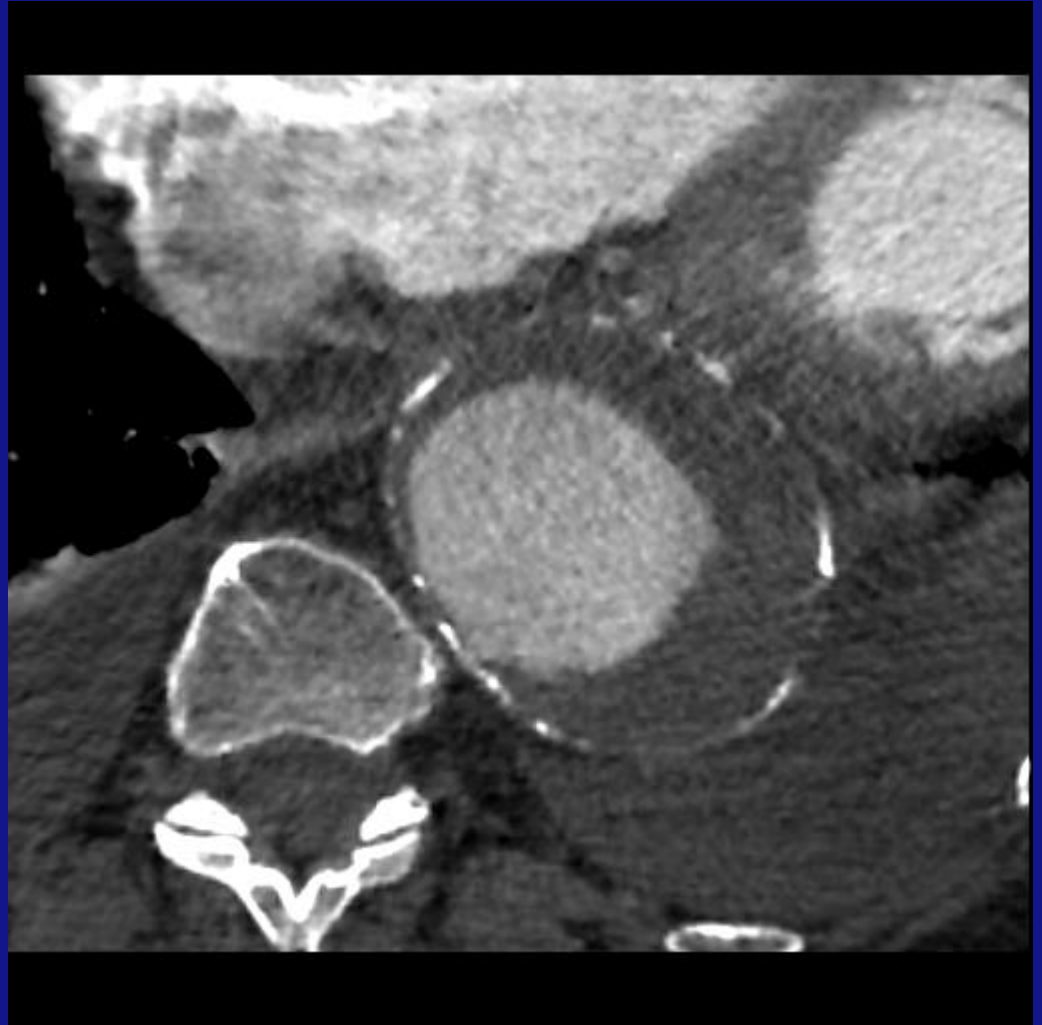


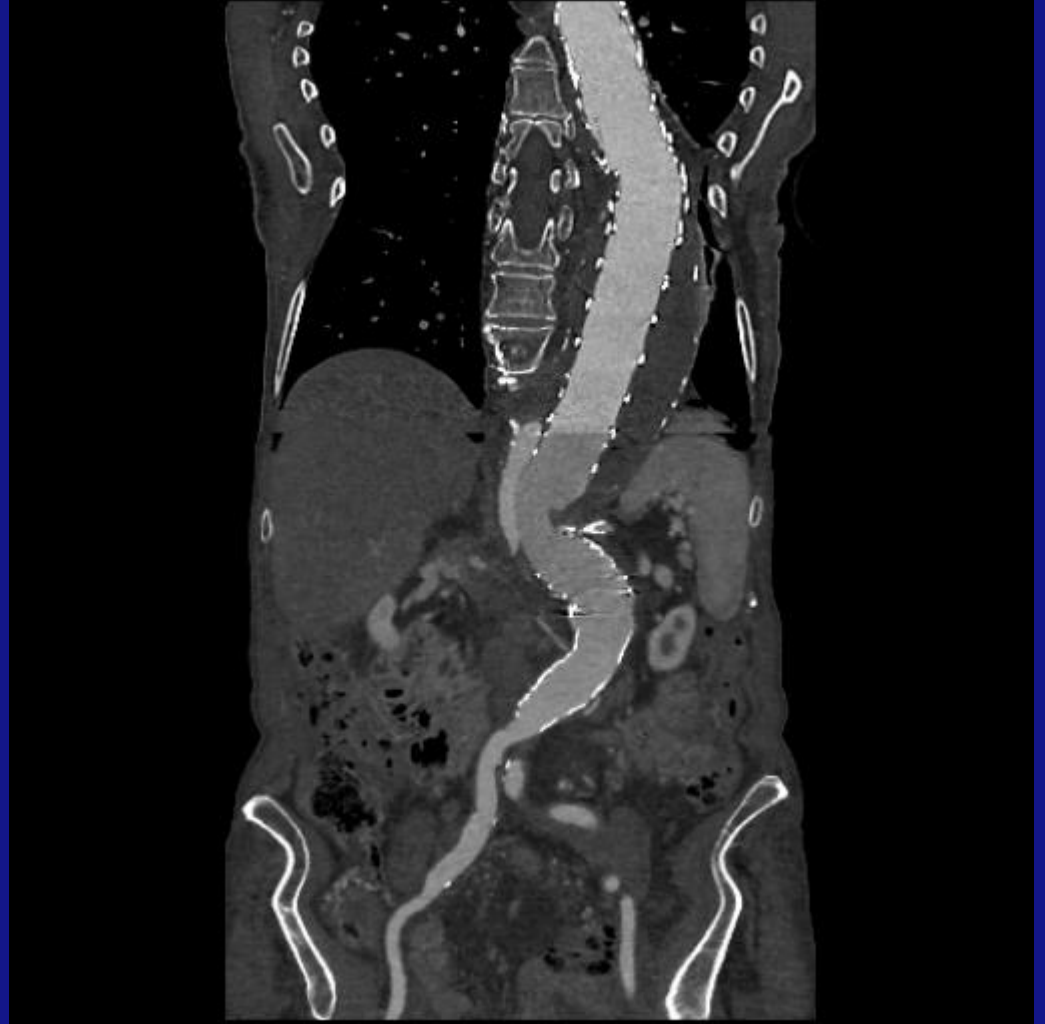
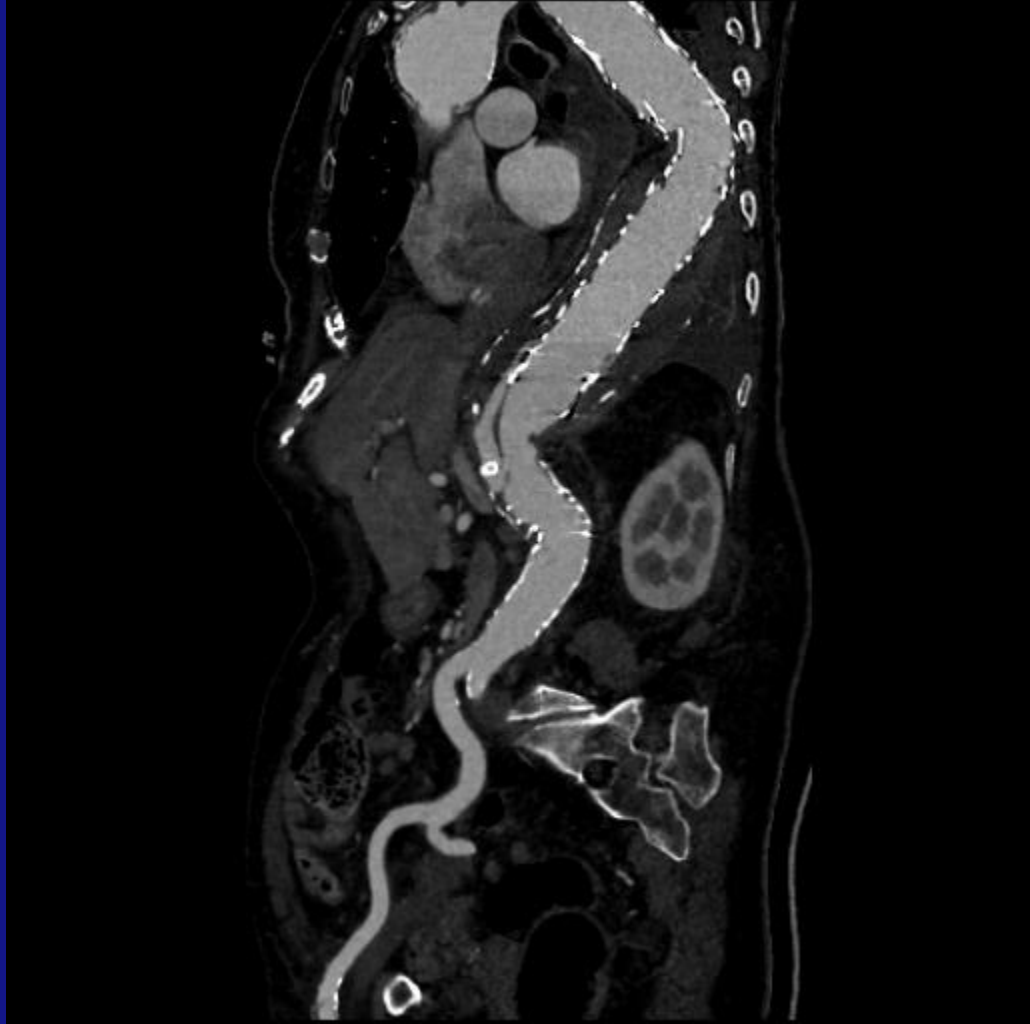
PCMRA
t: 17.5 msec

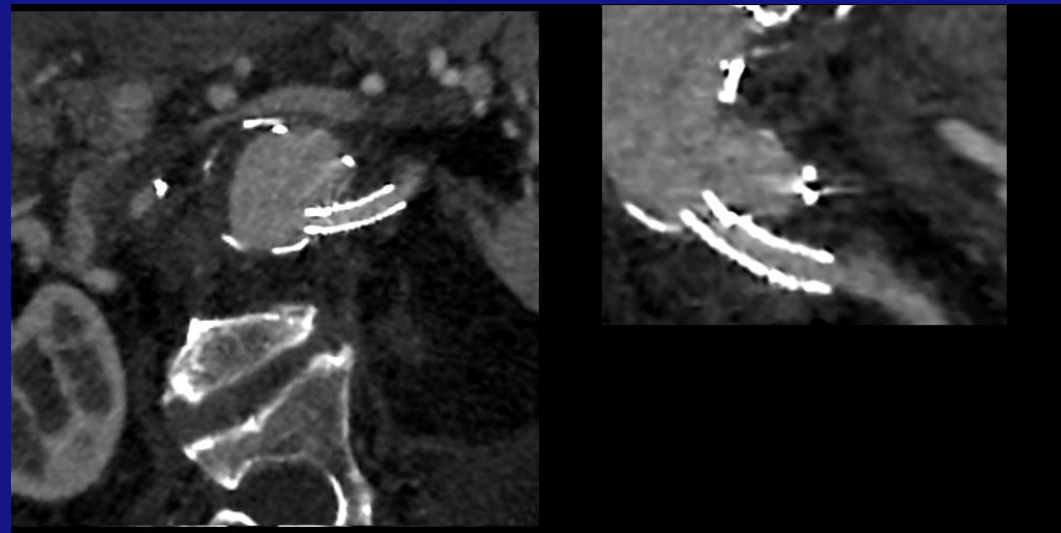
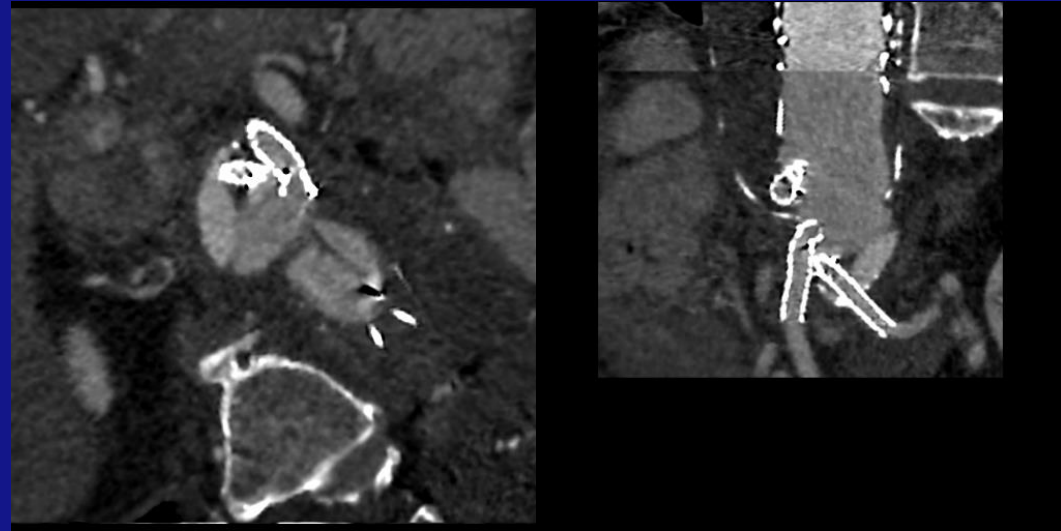
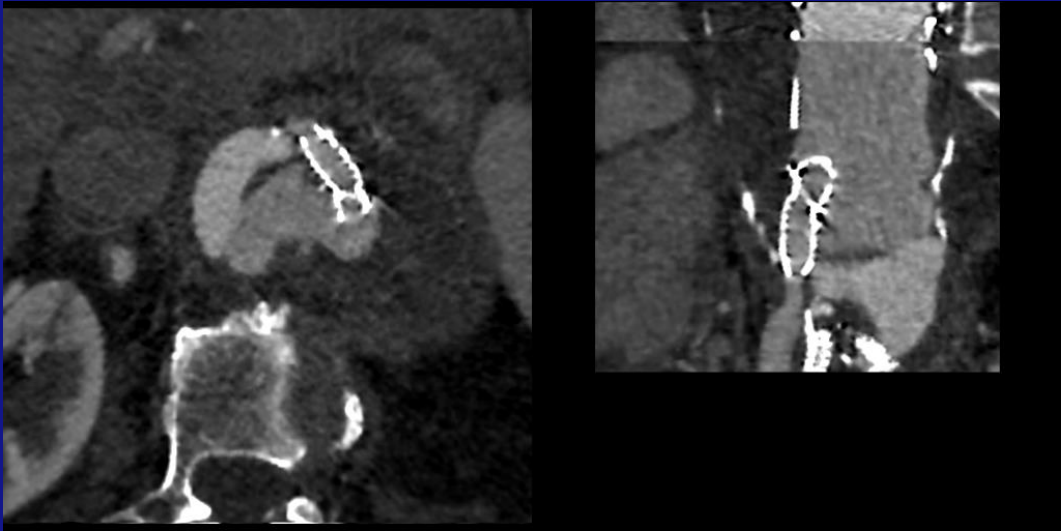


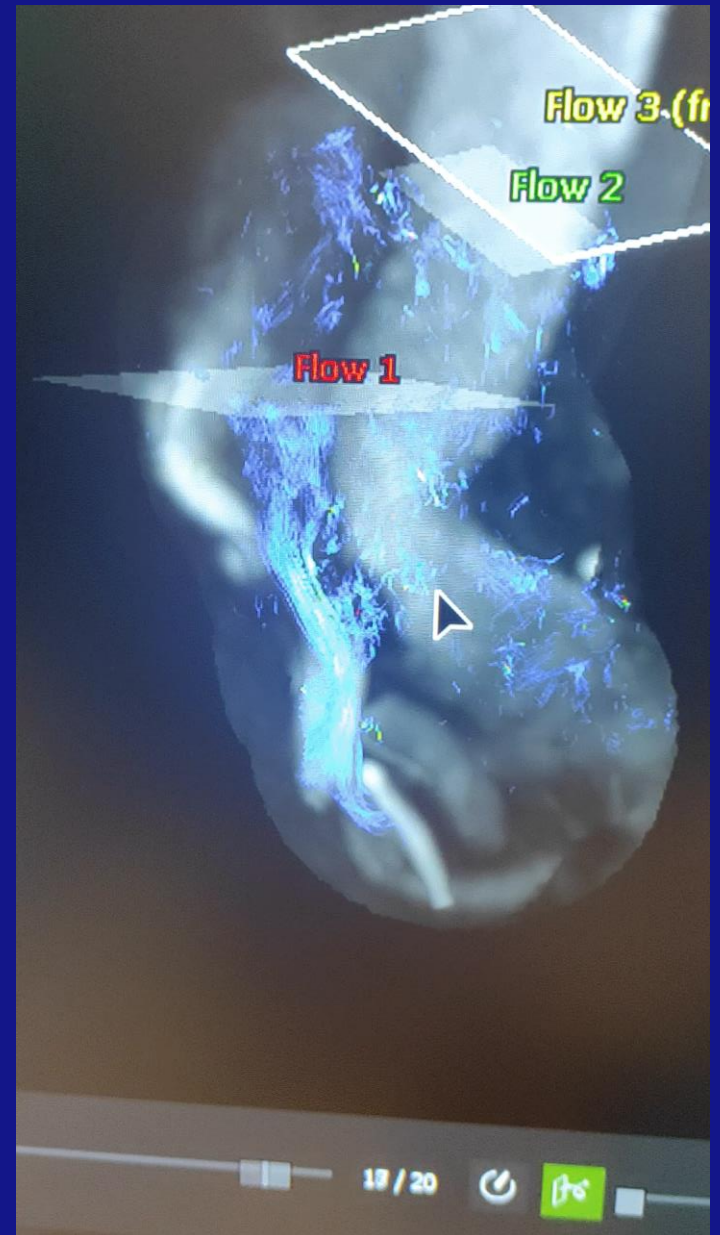
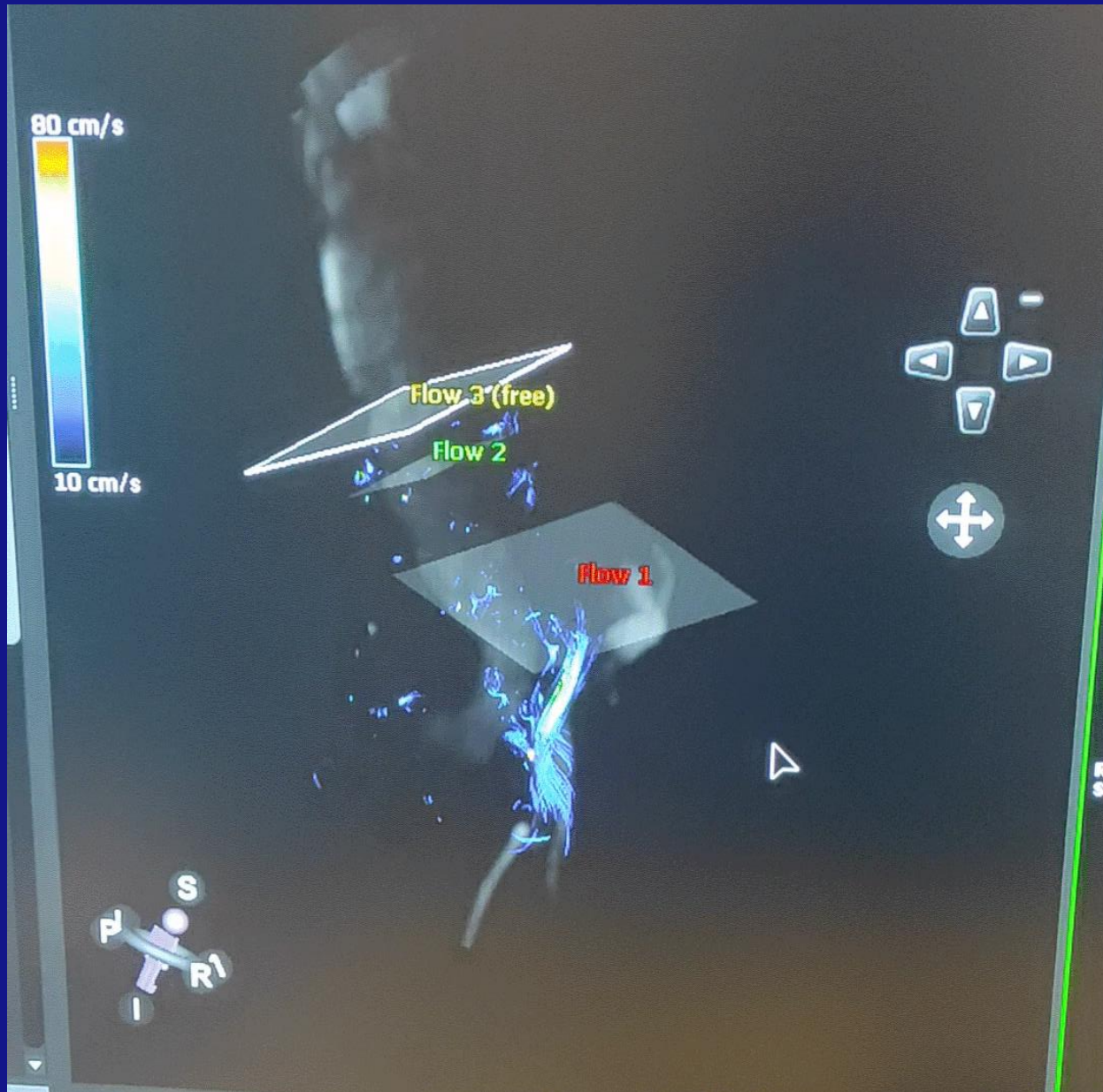
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TE 3.0
*fl3d1_v150n1/8.00

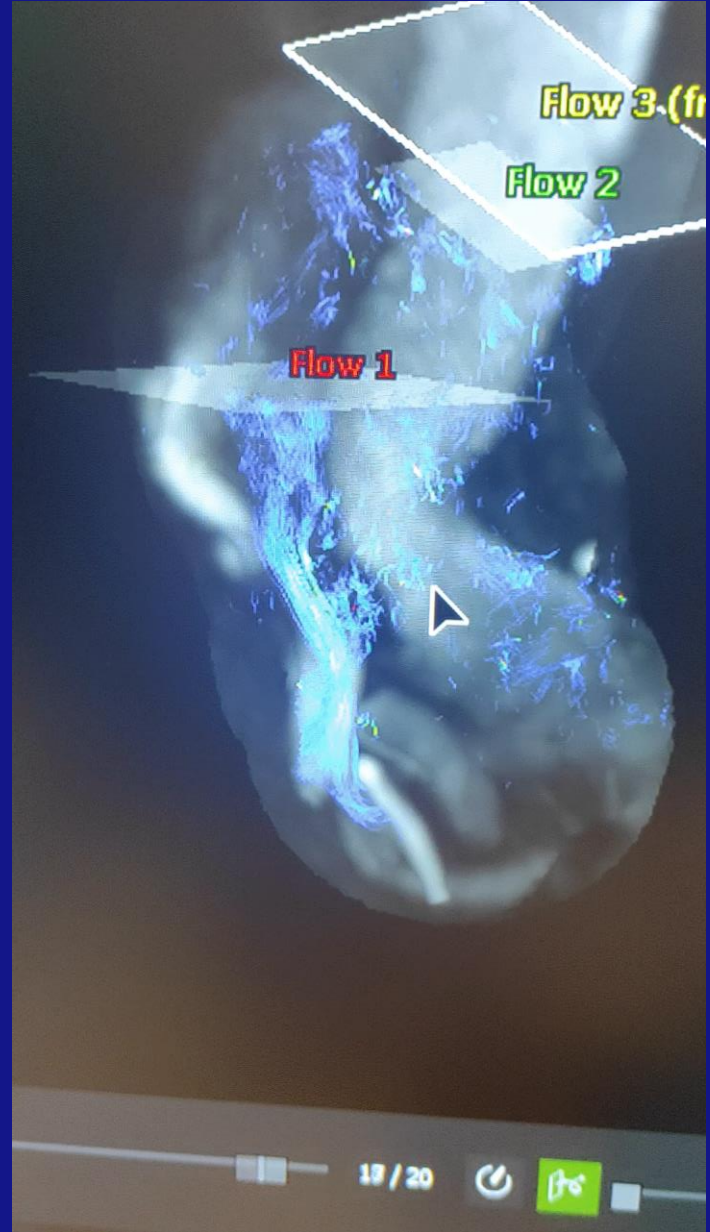
TRACKING ENDOLEAK



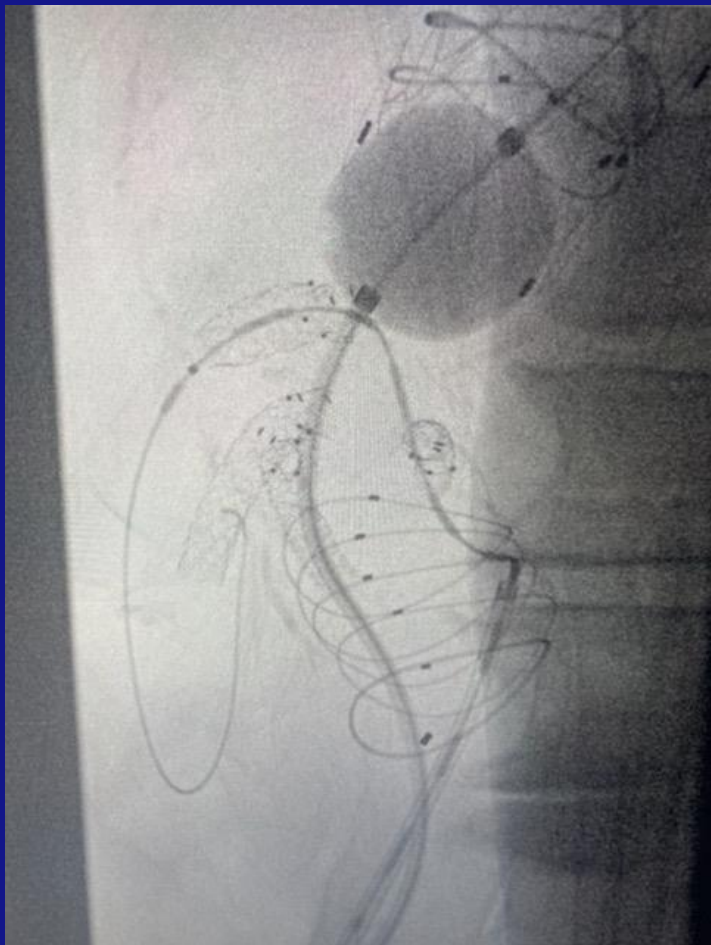




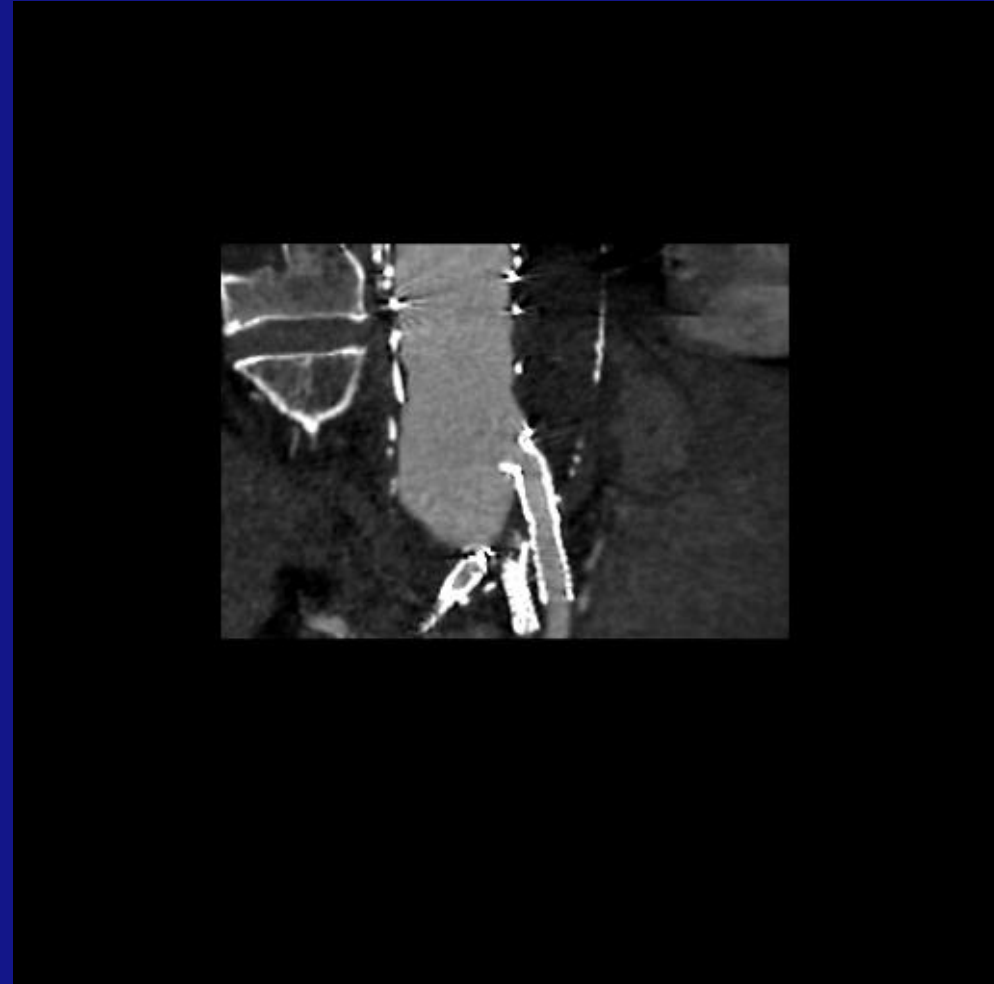
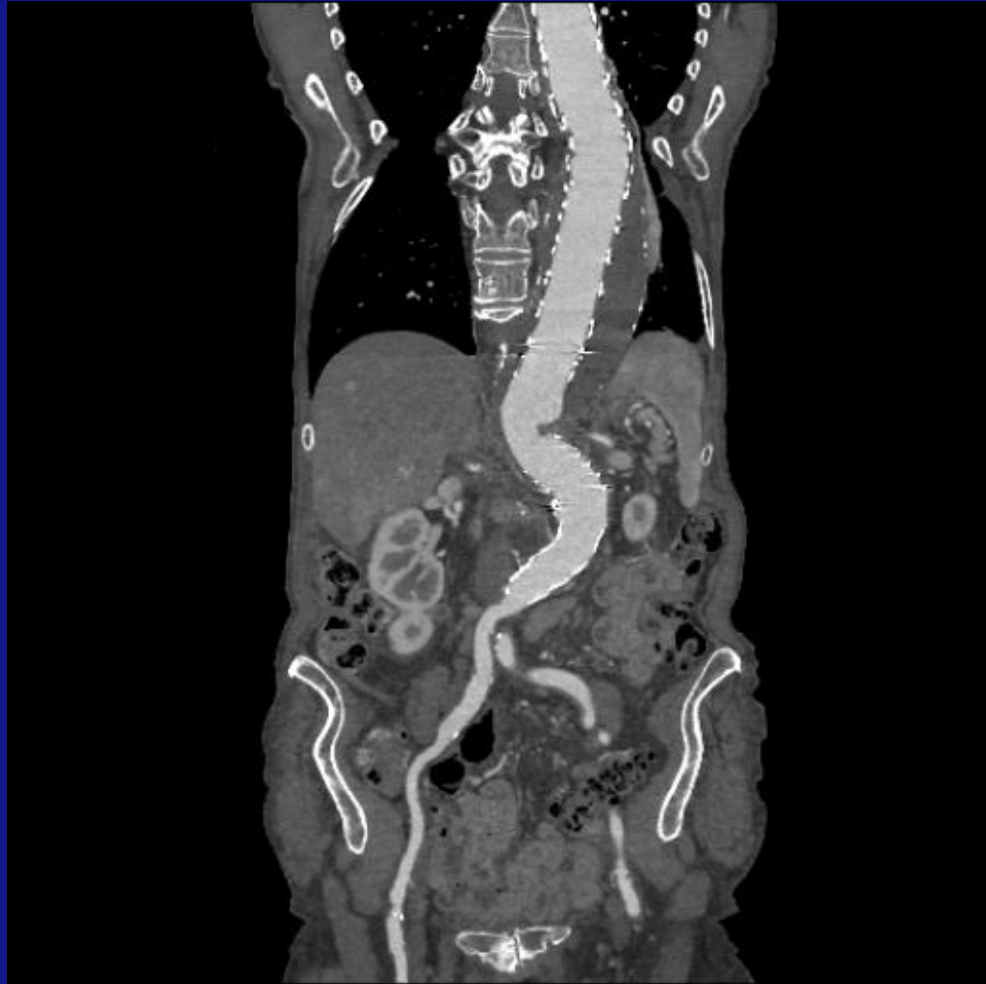




Endovascular repair



Post therapeutic



Conclusion

- 3D Phase contrast imaging
 - Visualization and quantification tool.
 - Visualization of complex flow pattern.
 - Therapeutic planning for endovascular repair.

BONUS

