


Case Study:
Type IIIb endoleak
observed during
follow up

8 – Year MEDICARE Outcomes

-Schmerhorn.JVS.2011.

	EVAR	OSR	P
Death	54.9%	54.7%	NS
Rupture	5.4%	1.4%	<0.01
All Reinterventions	25.1%	20.6%	<0.01



Reinterventions & Readmissions

8 – Year Outcomes

	EVAR	OSR	P
All Reinterventions	25.1%	20.6%	<0.01
Aneurysm Related	18.8%	3.7%	<0.01
Laparotomy Related	8.2%	17.7%	<0.01
Readmissions			
Aneurysm Related Readmission without intervention	1.2%	0.3%	<0.01
Laparotomy Related Readmission without intervention	17.9%	22%	<0.01

30Day Mortality

After Reintervention or Readmission

Major AAA-Reintervention	13.7%
Minor AAA- Related	4.2%
Laparotomy Related	8.5%
Bowel Obstruction Readmission	10.9%

Relevant Patient Medical History

- Demographics

- 77 y/o, Male with prior treatment of symptomatic paravisceral AAA and prior treatment to include RRA chimney, LRA exclusion, and EVAR
- High surgical physio risk

- Anatomy

- Pararenal Aortic Aneurysm
- Prior EVAR with large arterial phase endoleak

- Comorbidities

- CAD, DM
- ESRD – HD dependent,

- Key Clinical Features

- Cautionary: chronic renal insufficiency
- Off Label: Prior RRA chimney branch

CTA

5mm/div

R

L

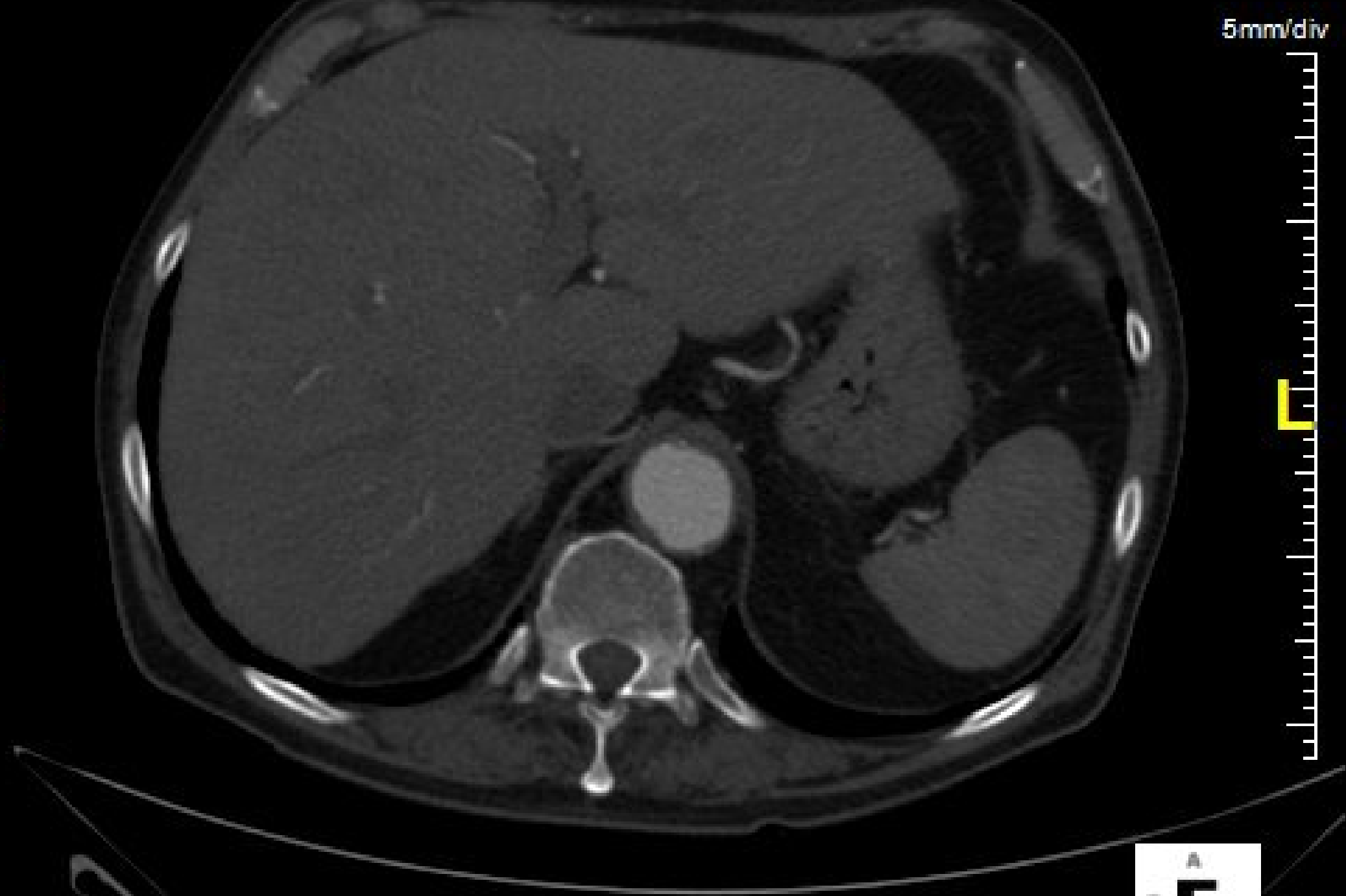


A
R F L

5mm/div

R

L

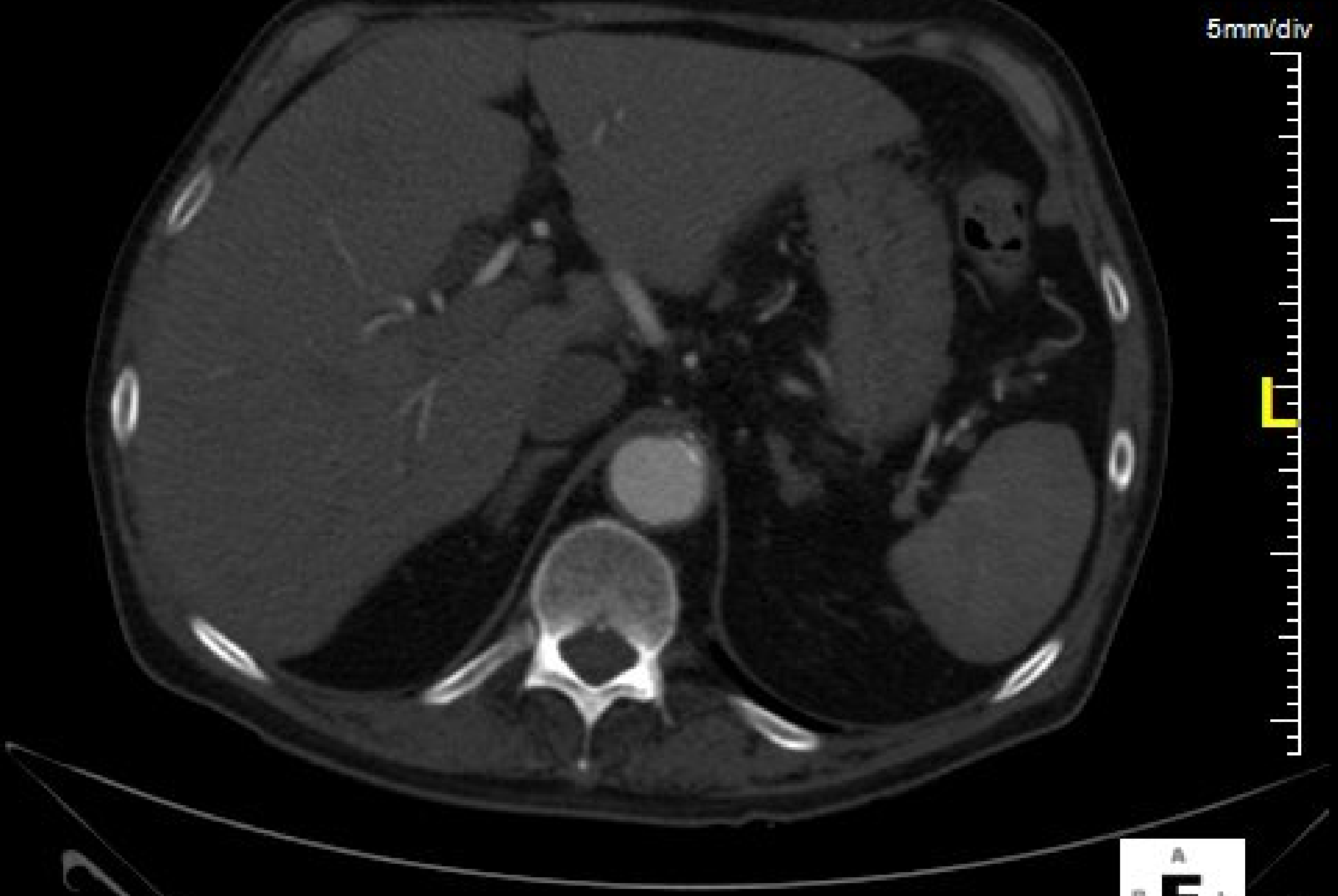


A
R F L

5mm/div

R

L



A
R F L

5mm/div

R

L



A
R F L

5mm/div

R

L

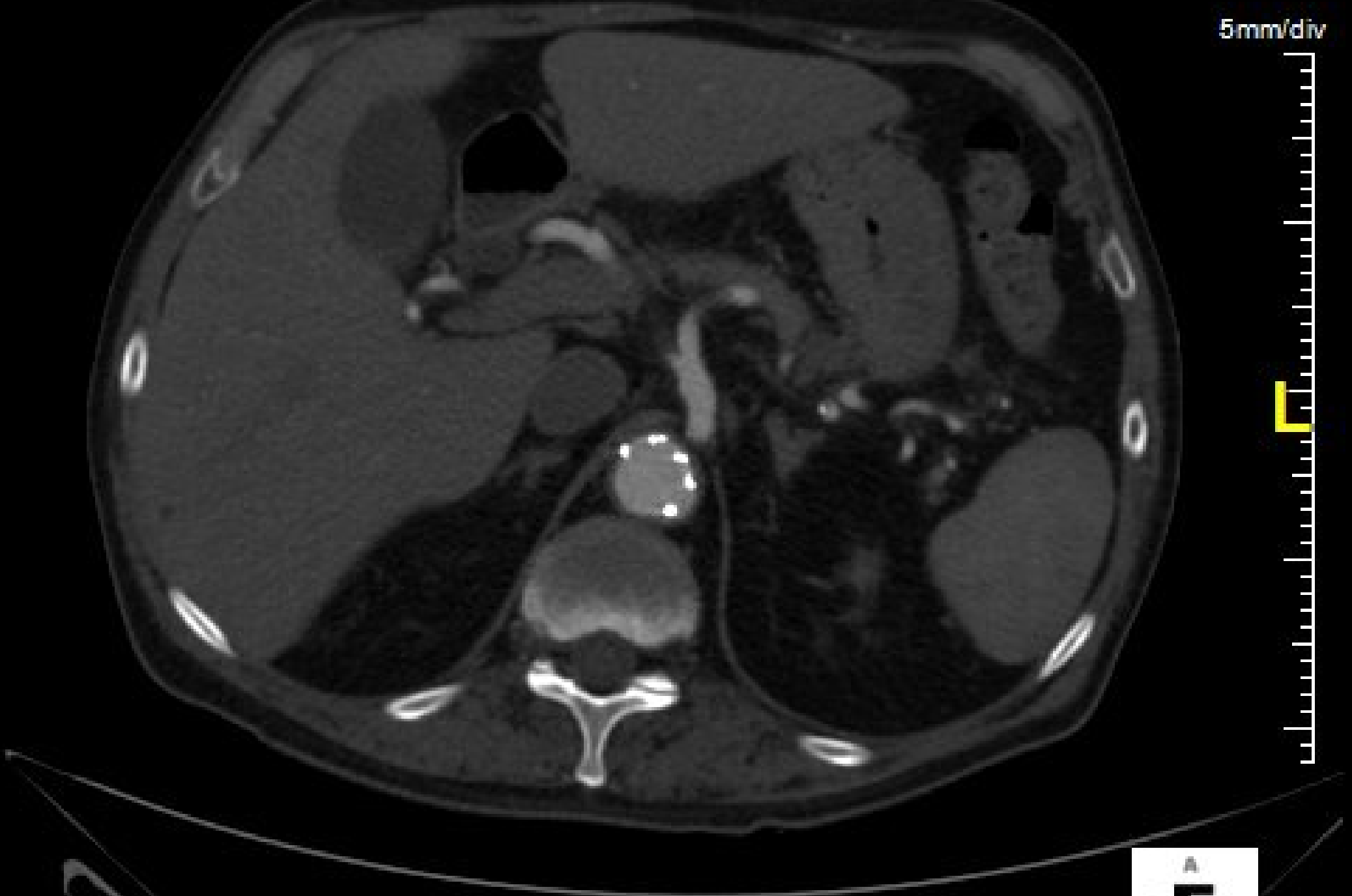


A
R F L

5mm/div

R

L

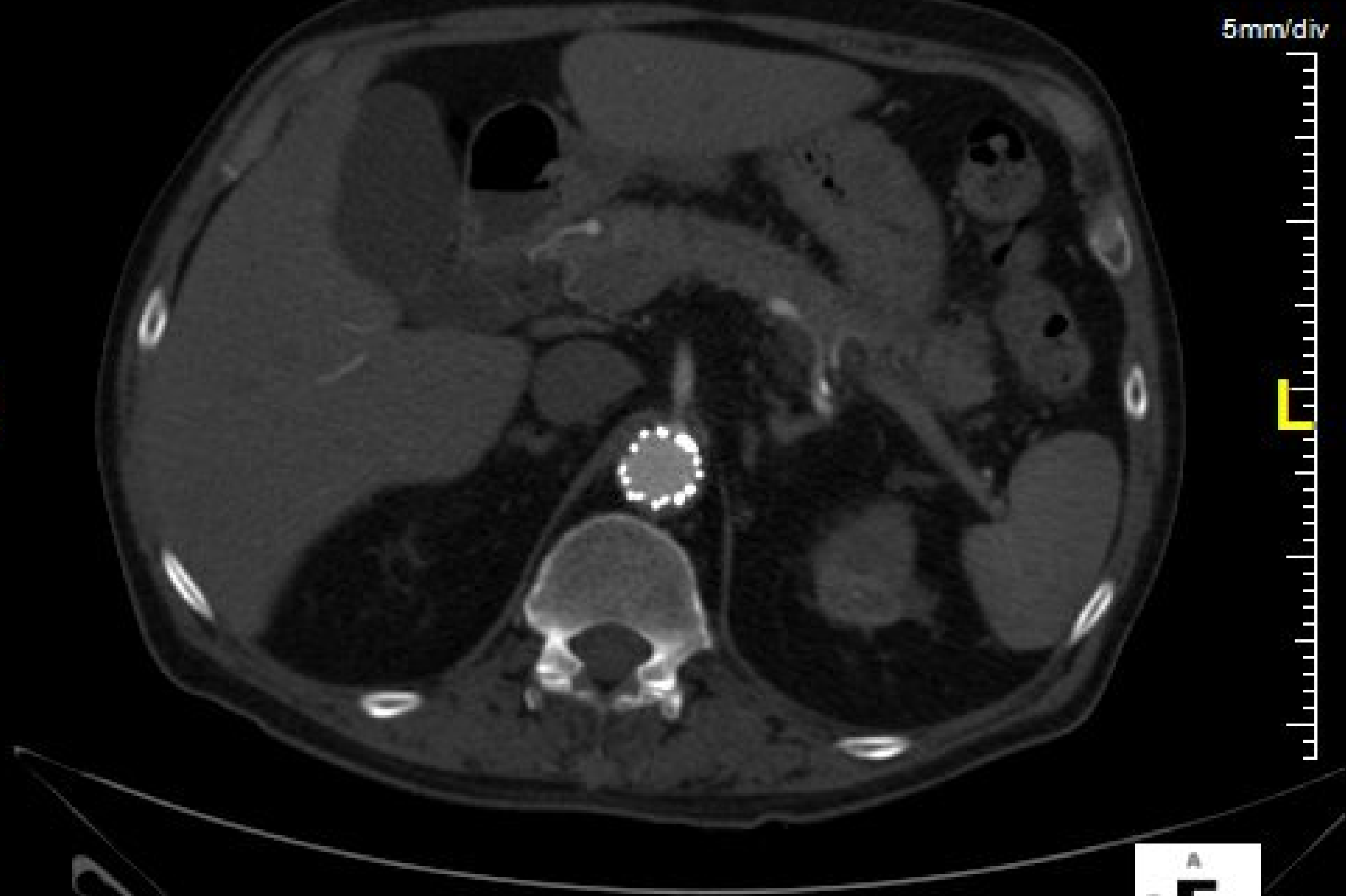


A
R F L

5mm/div

R

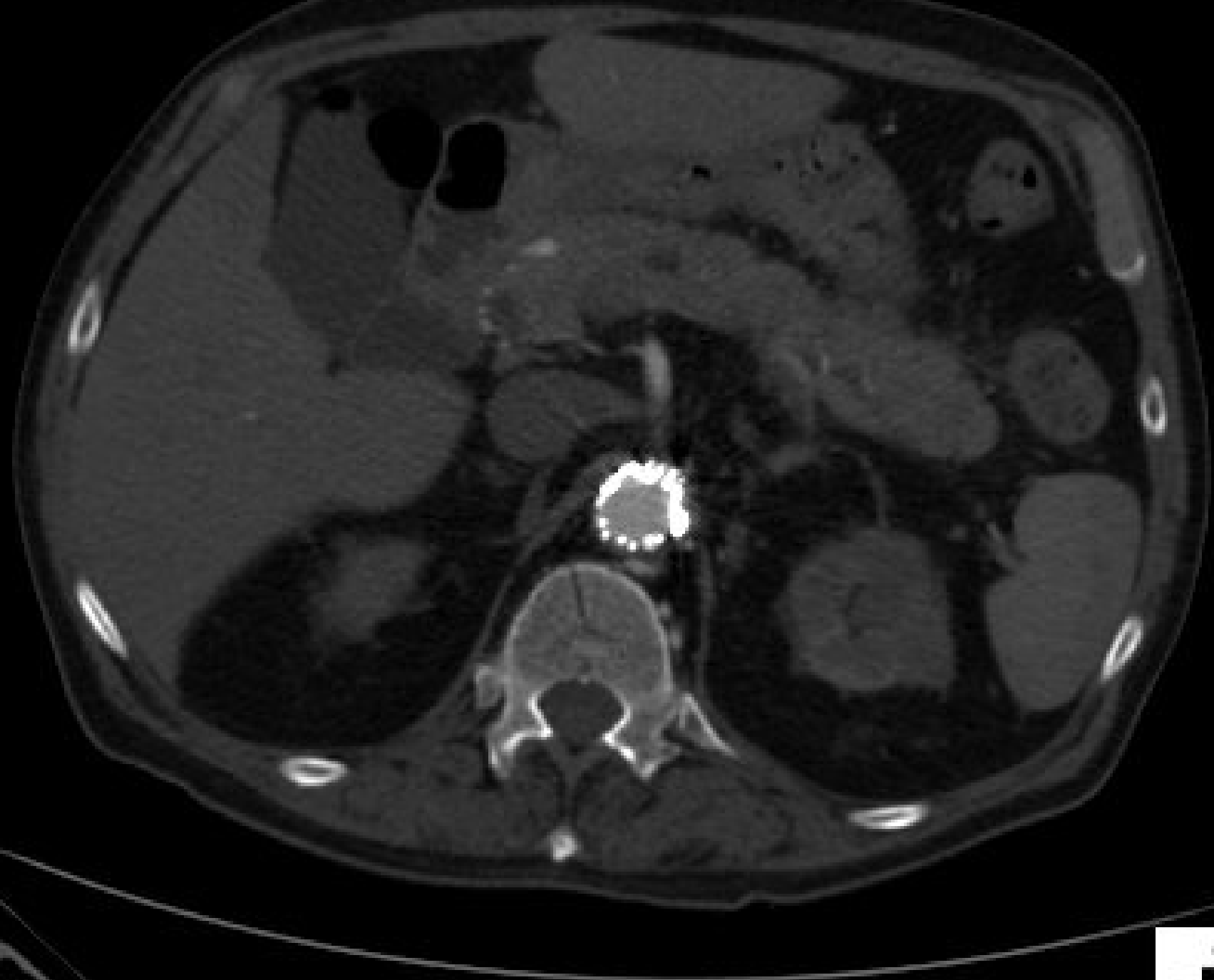
L



A
R F L

5mm/div

R

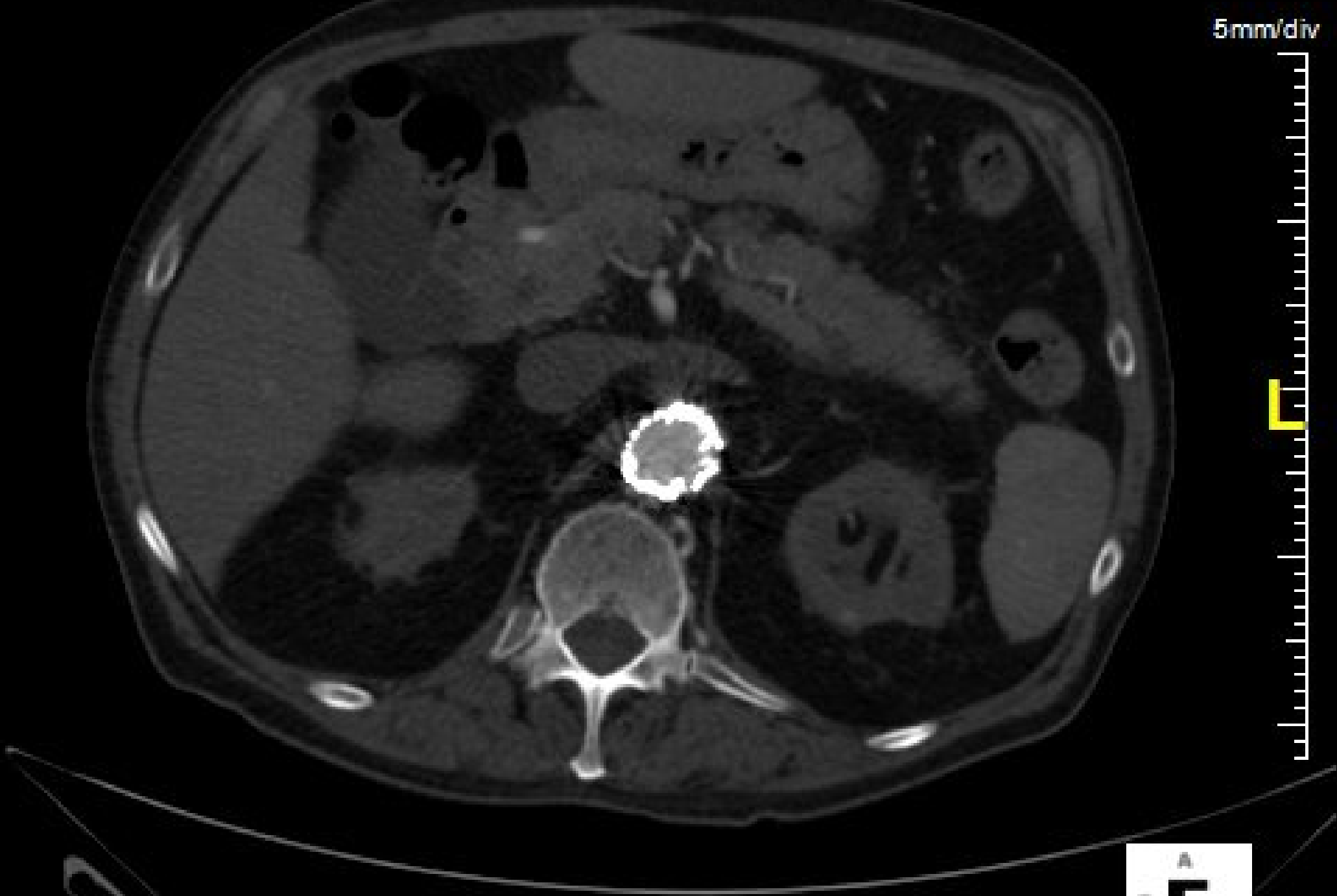


L

A
R F L

5mm/div

R



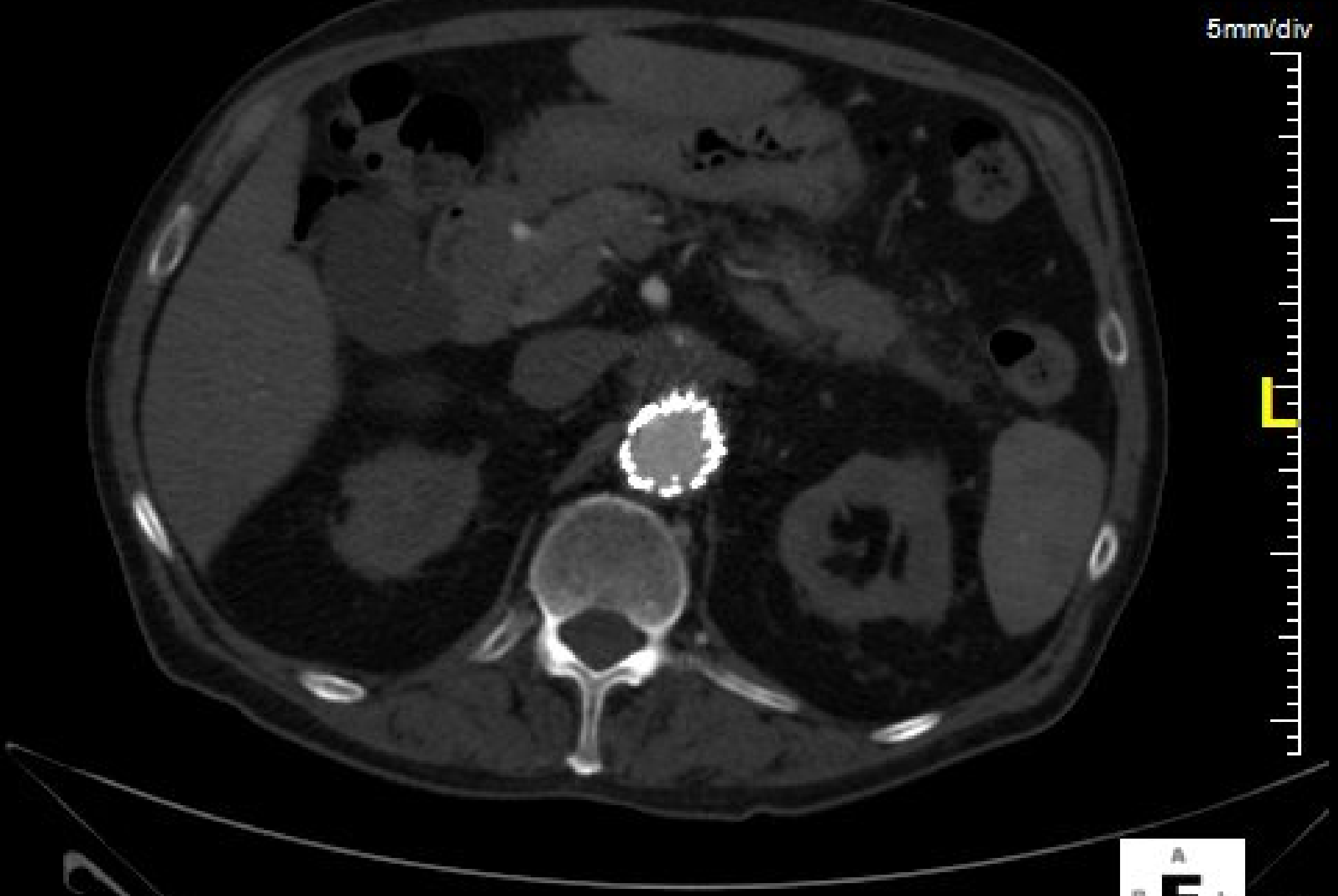
L

A
R F L

5mm/div

R

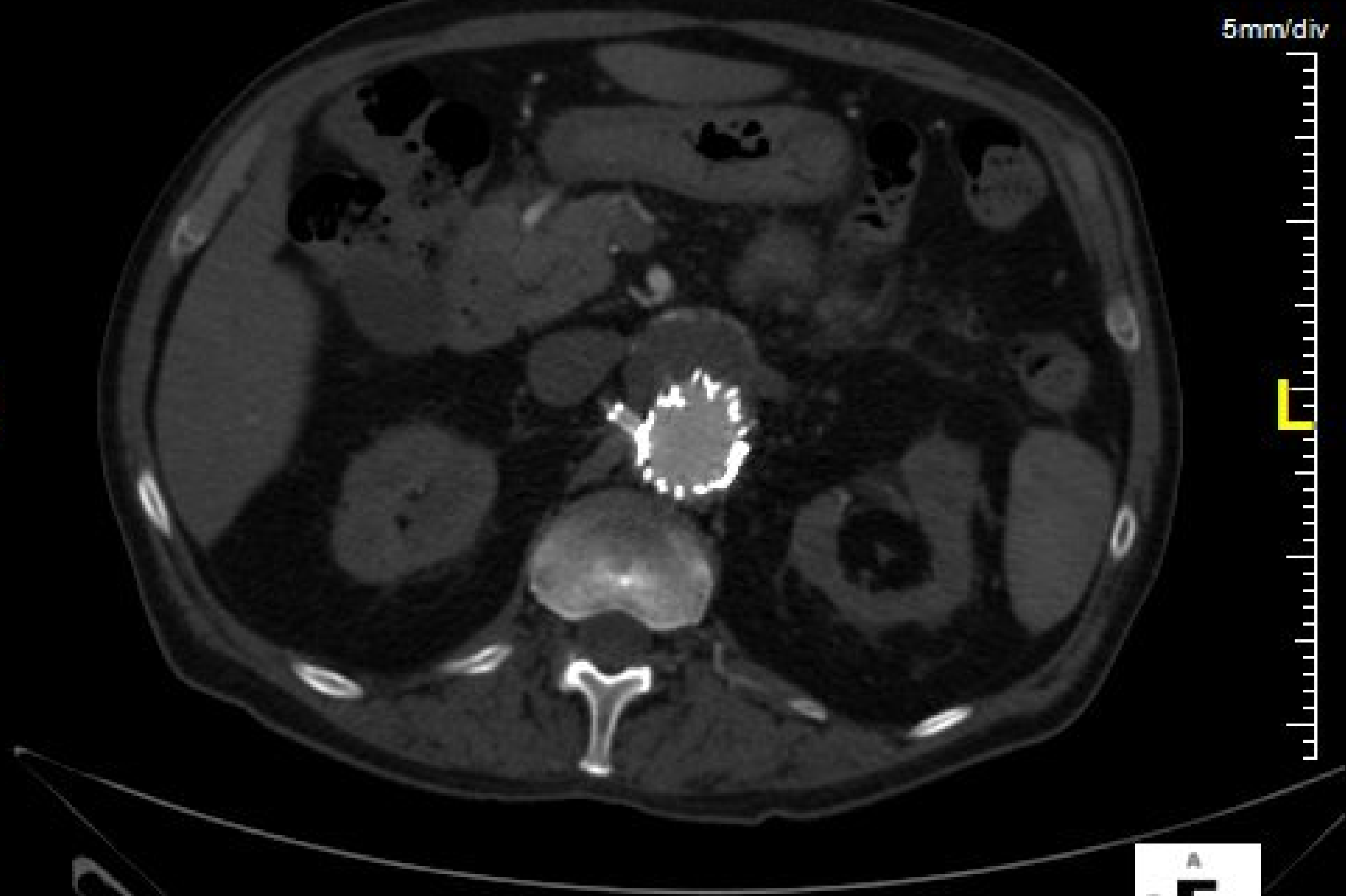
L



A
R F L

5mm/div

R



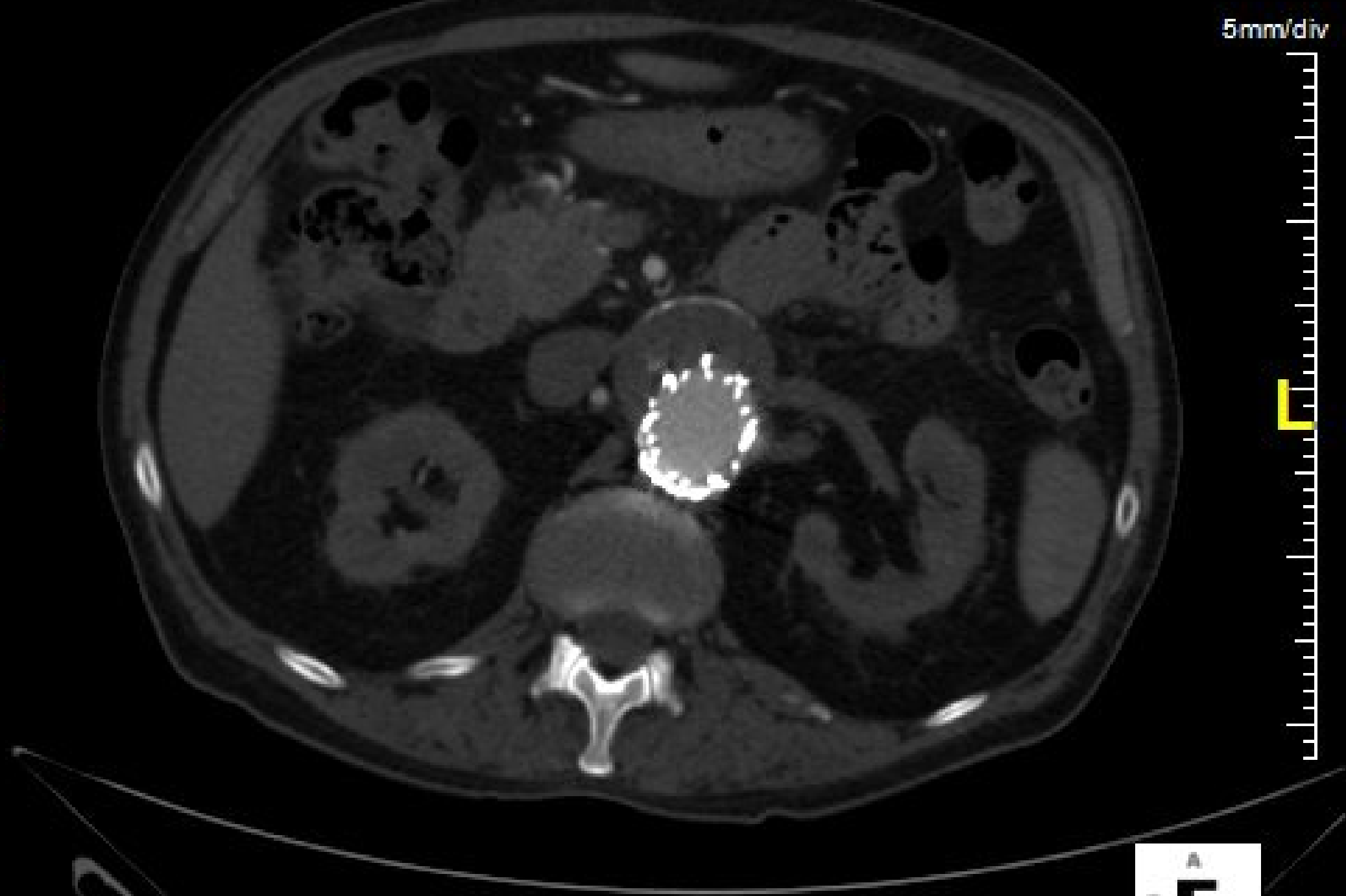
L

A
R F L

5mm/div

R

L

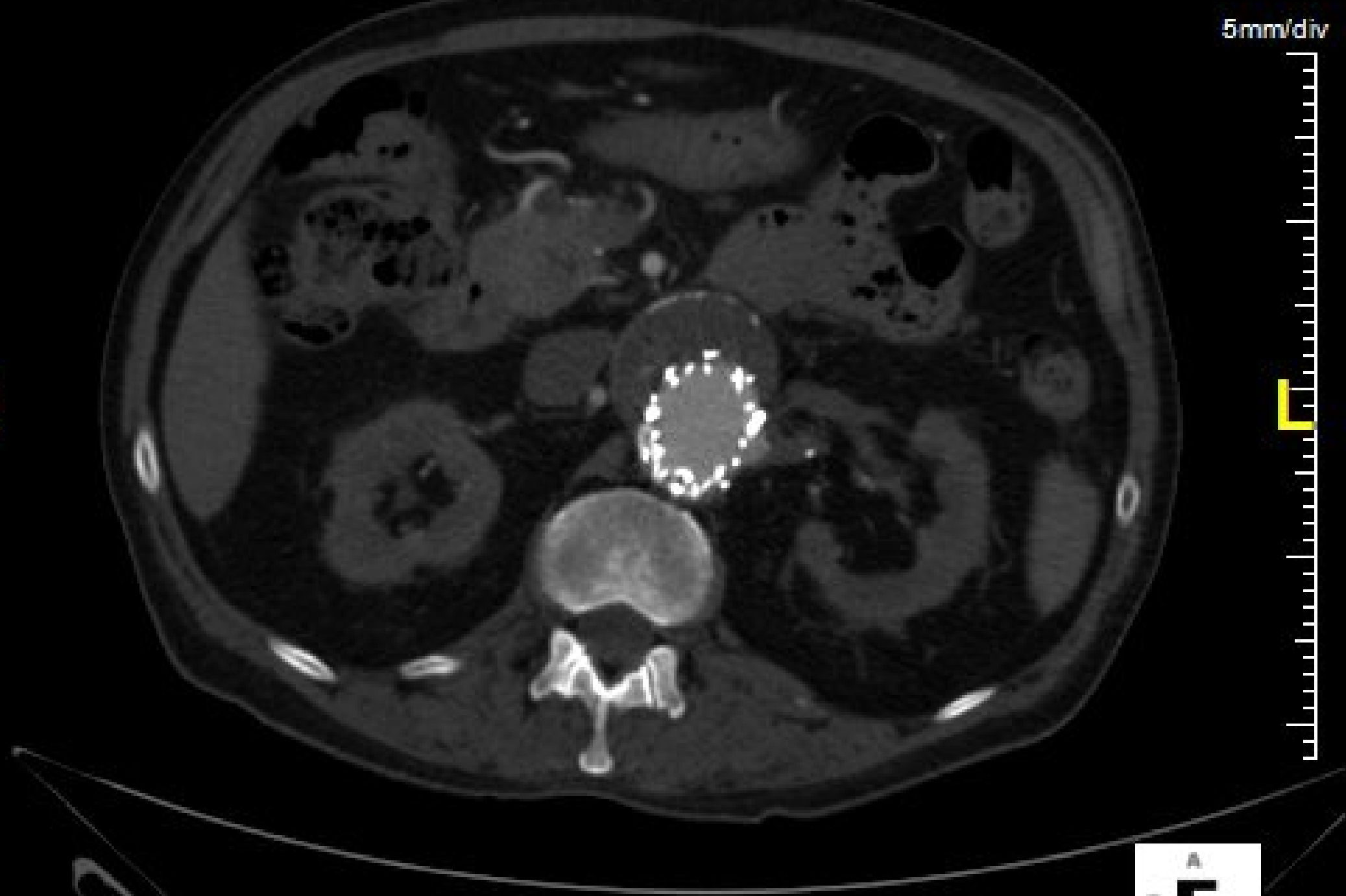


A
R F L

5mm/div

R

L



A
R F L

5mm/div

R

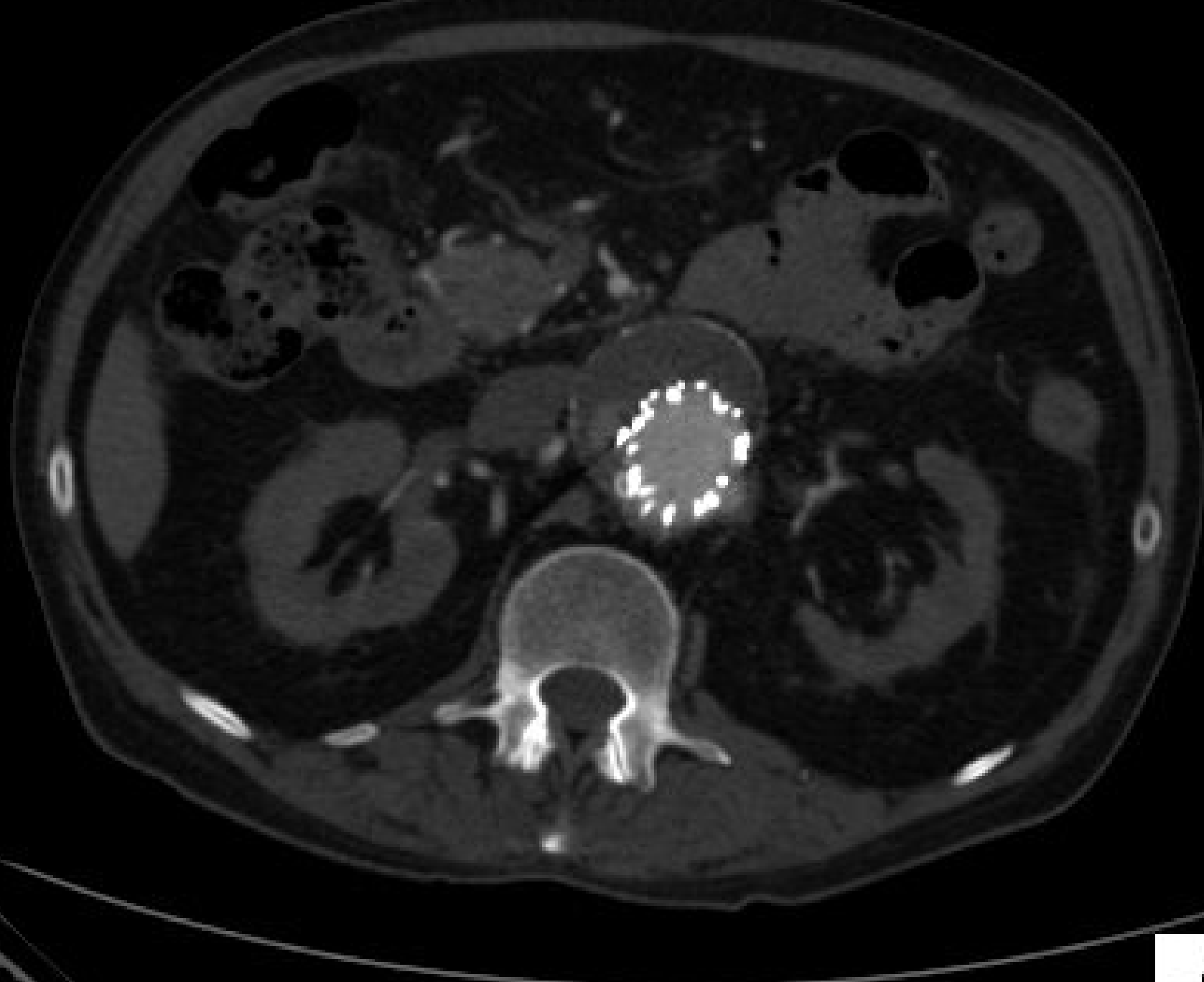


L

A
R F L

5mm/div

R

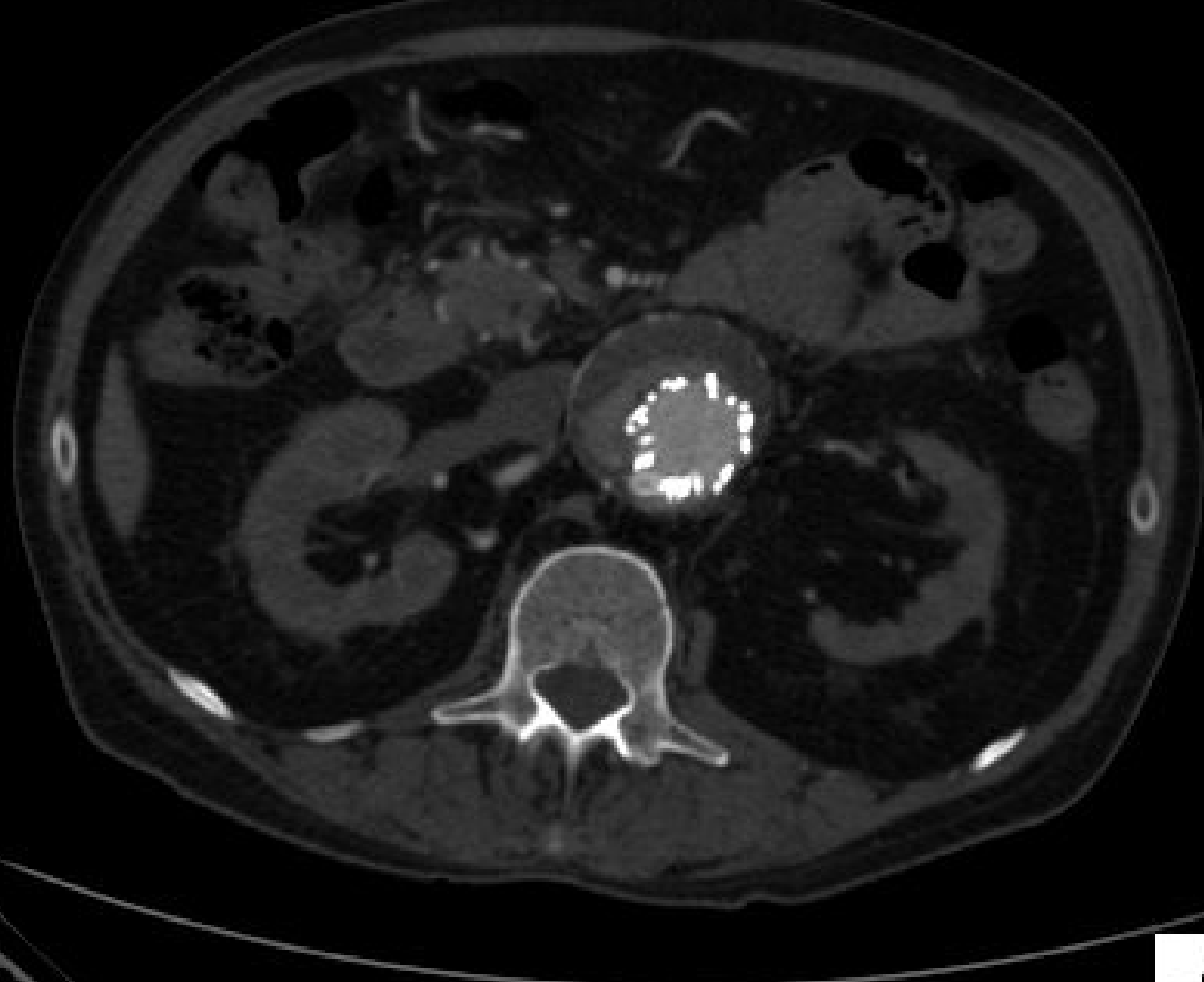


L

A
R F L

5mm/div

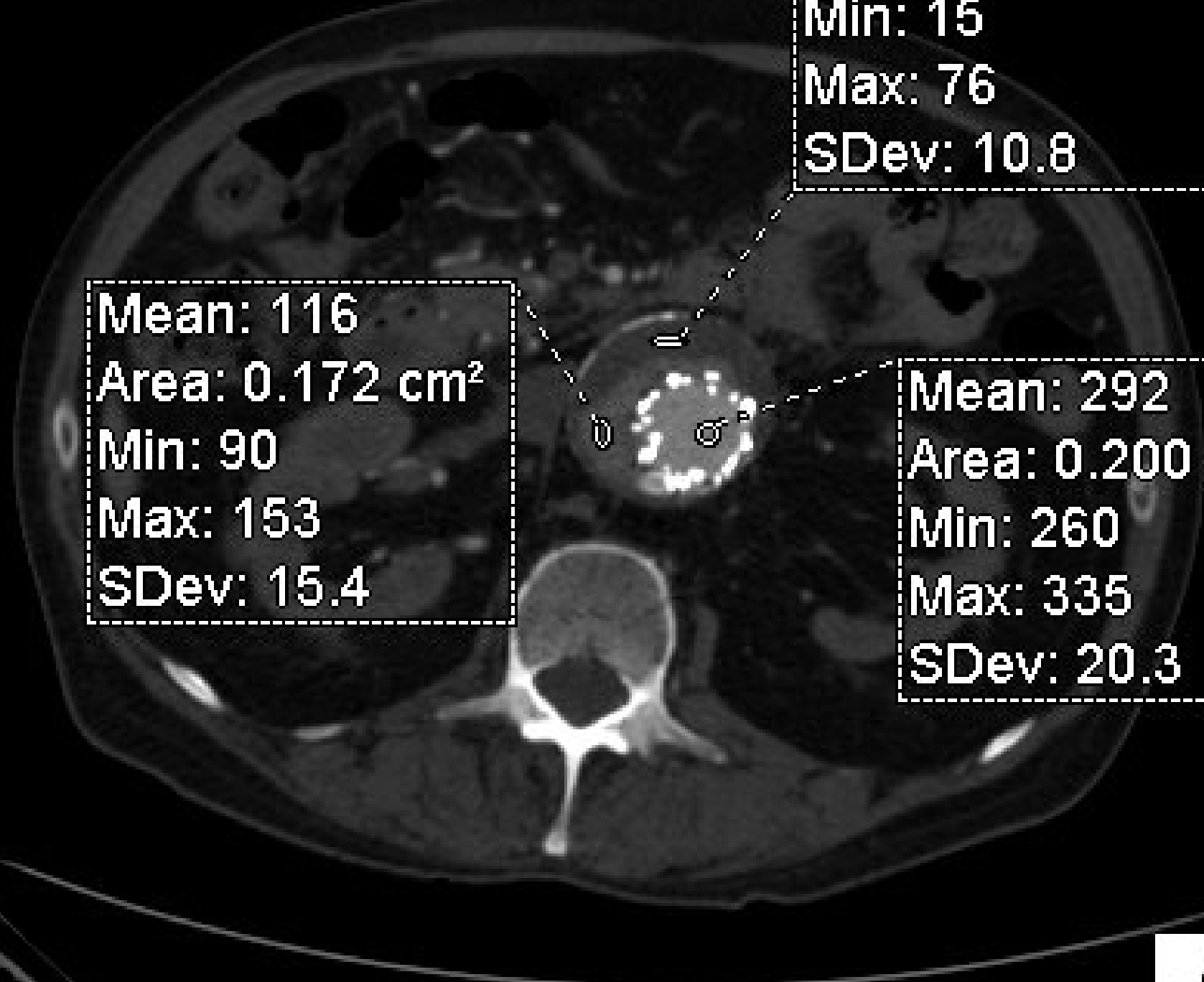
R



L

A
R F L

R



Mean: 116
Area: 0.172 cm²
Min: 90
Max: 153
SDev: 15.4

Min: 15
Max: 76
SDev: 10.8

Mean: 292
Area: 0.200 cm²
Min: 260
Max: 335
SDev: 20.3

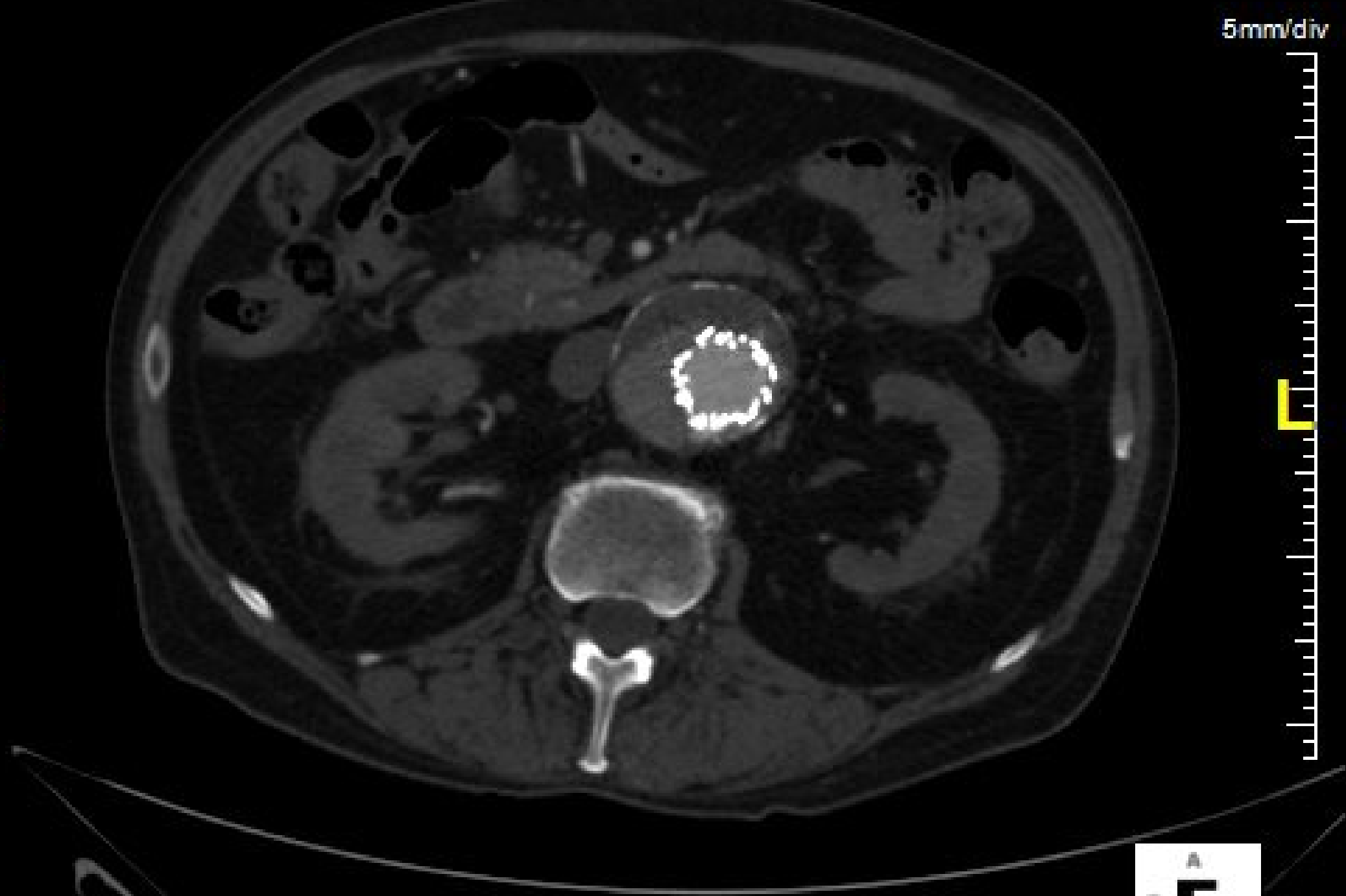
5mm/div

L

A
R F L

5mm/div

R

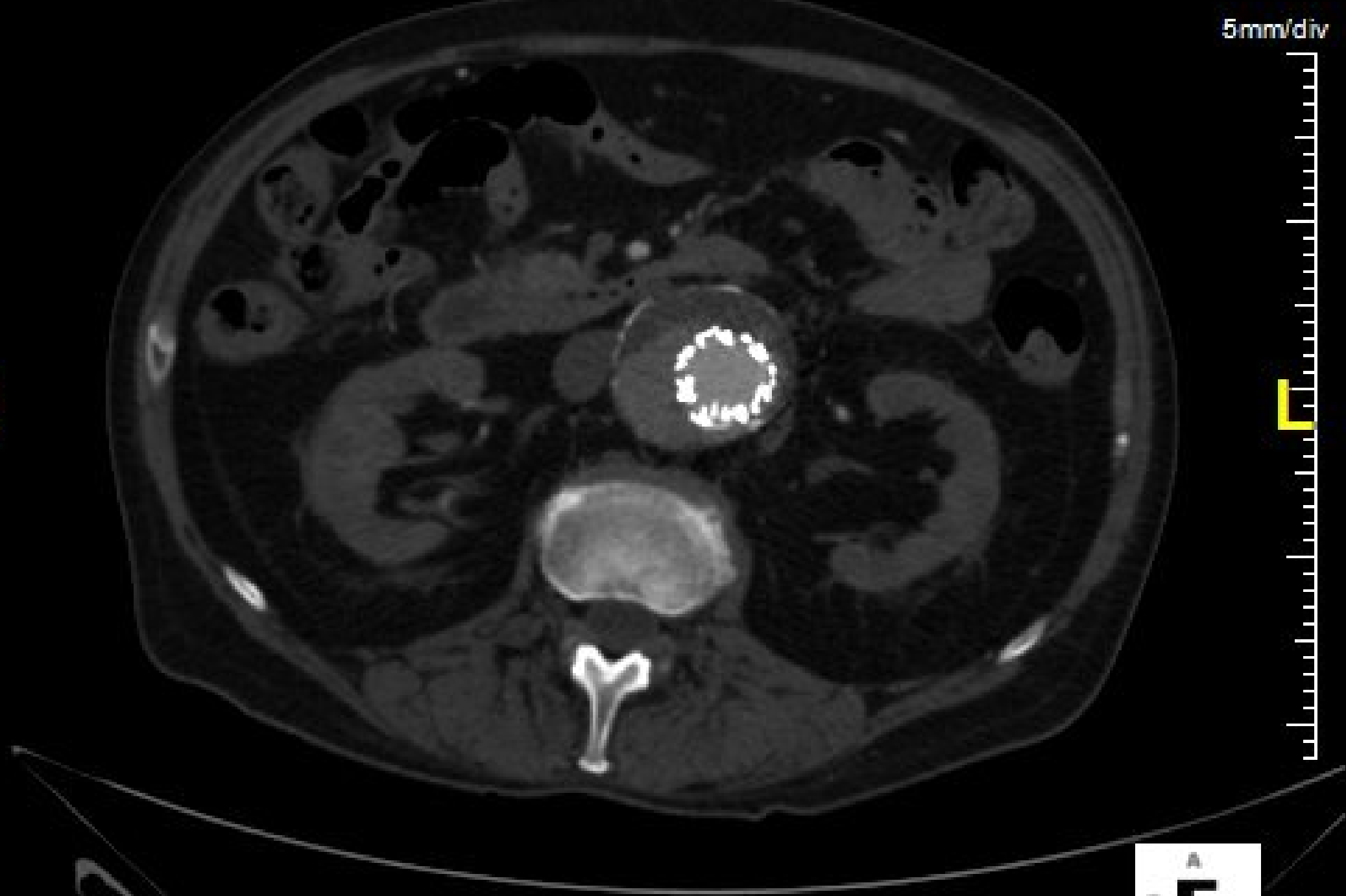


L

A
R F L

5mm/div

R

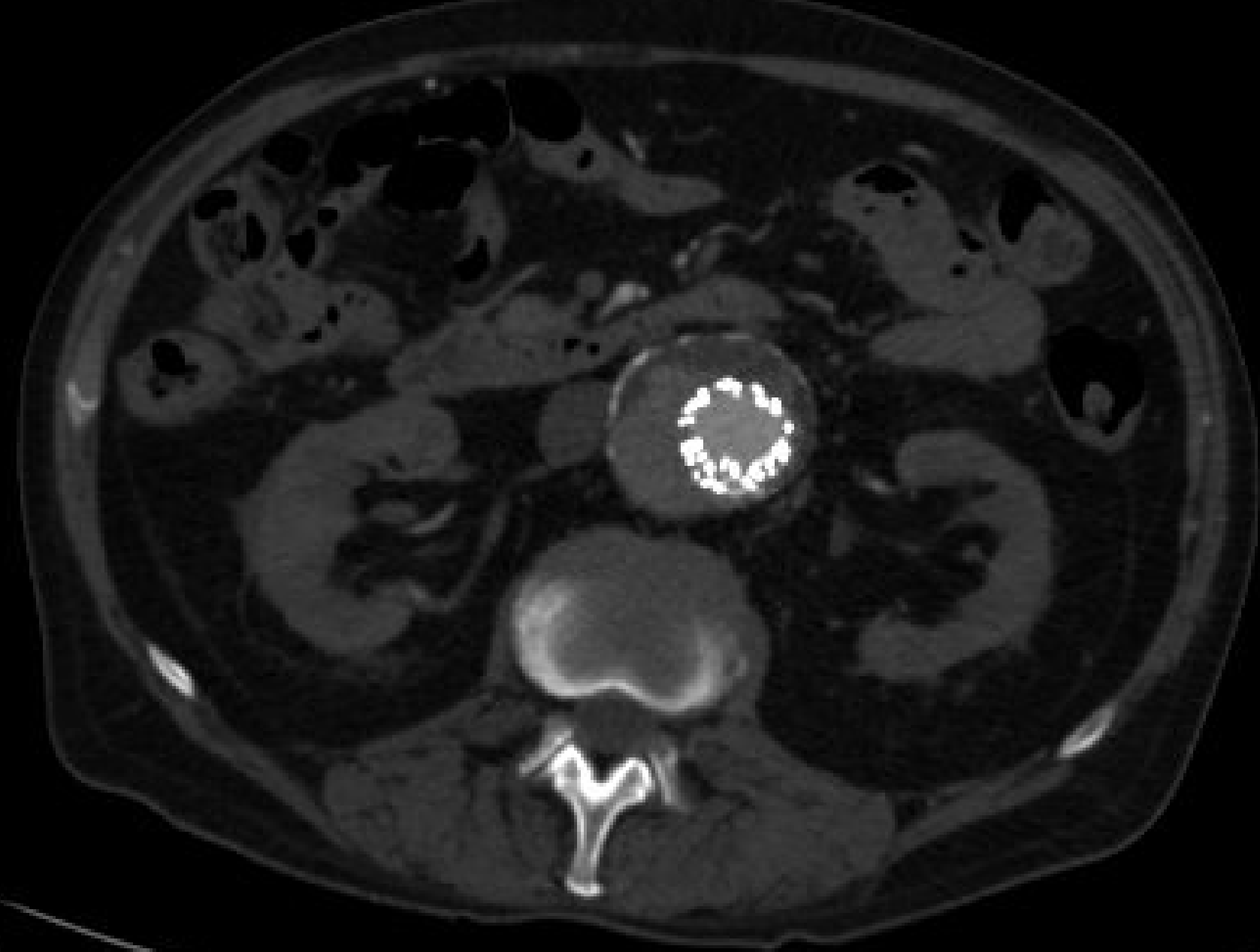


L

A
R F L

5mm/div

R

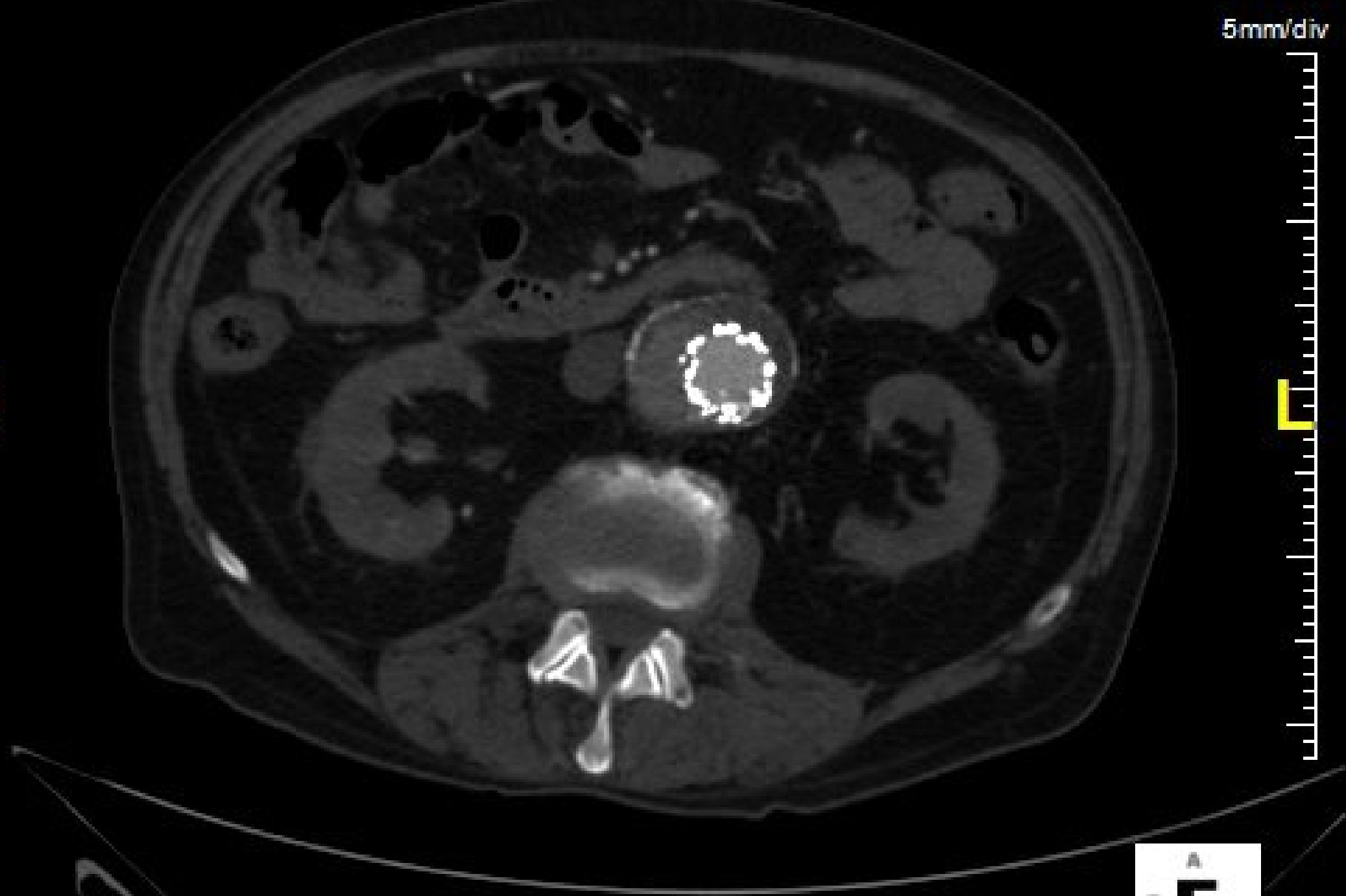


L

A
R F L

5mm/div

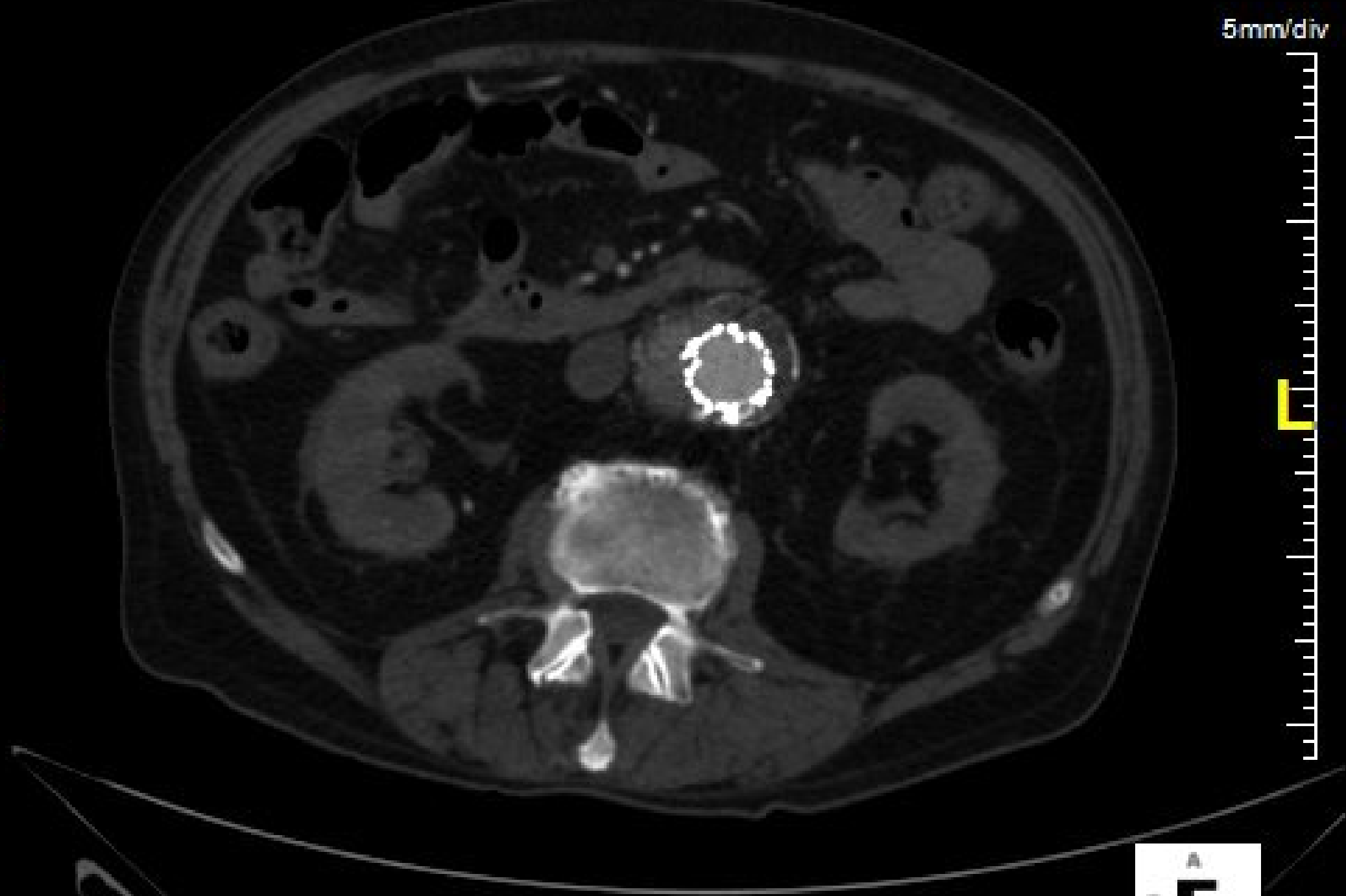
R



A
R F L

5mm/div

R



L

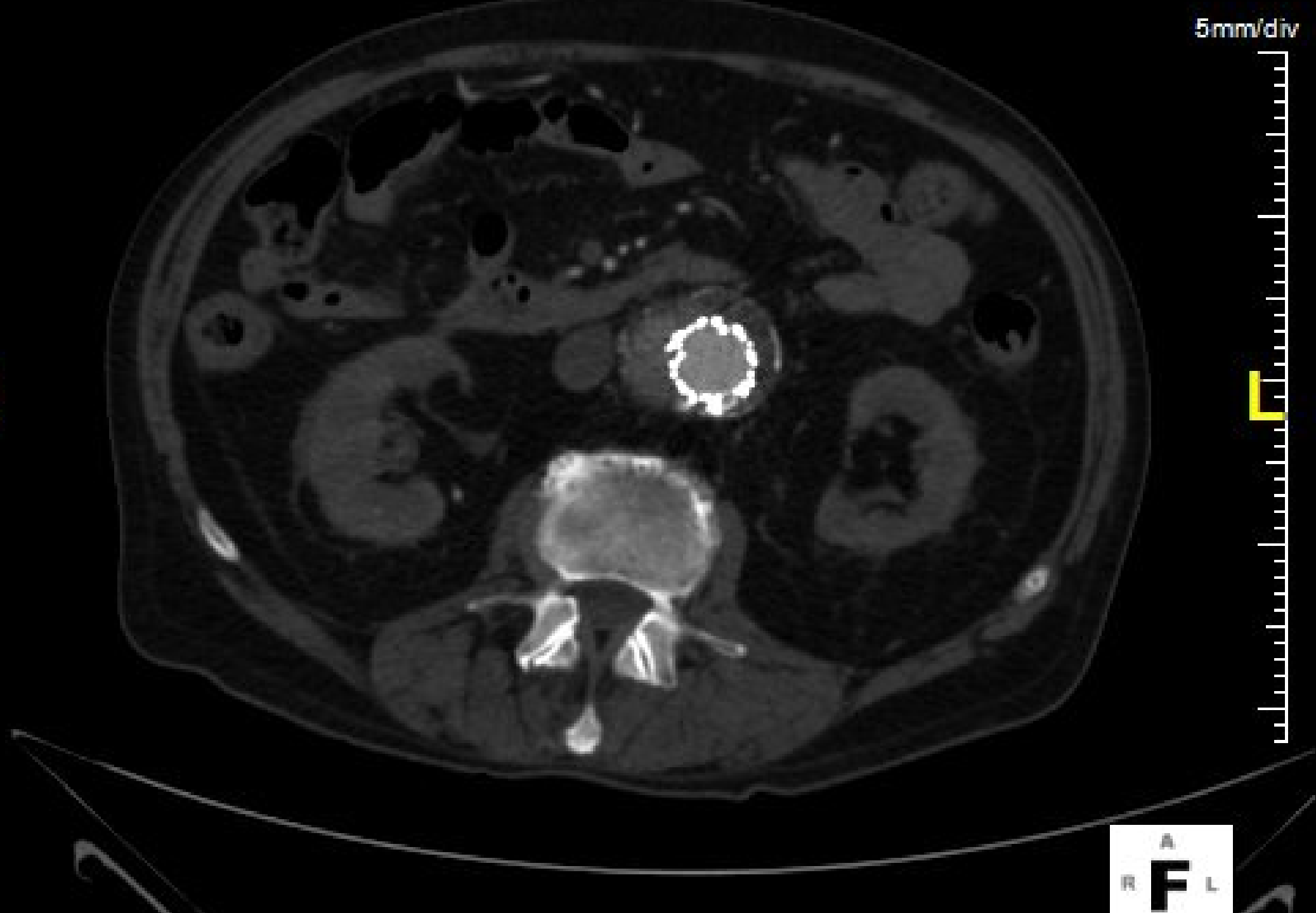
A
R F L

5mm/div

R

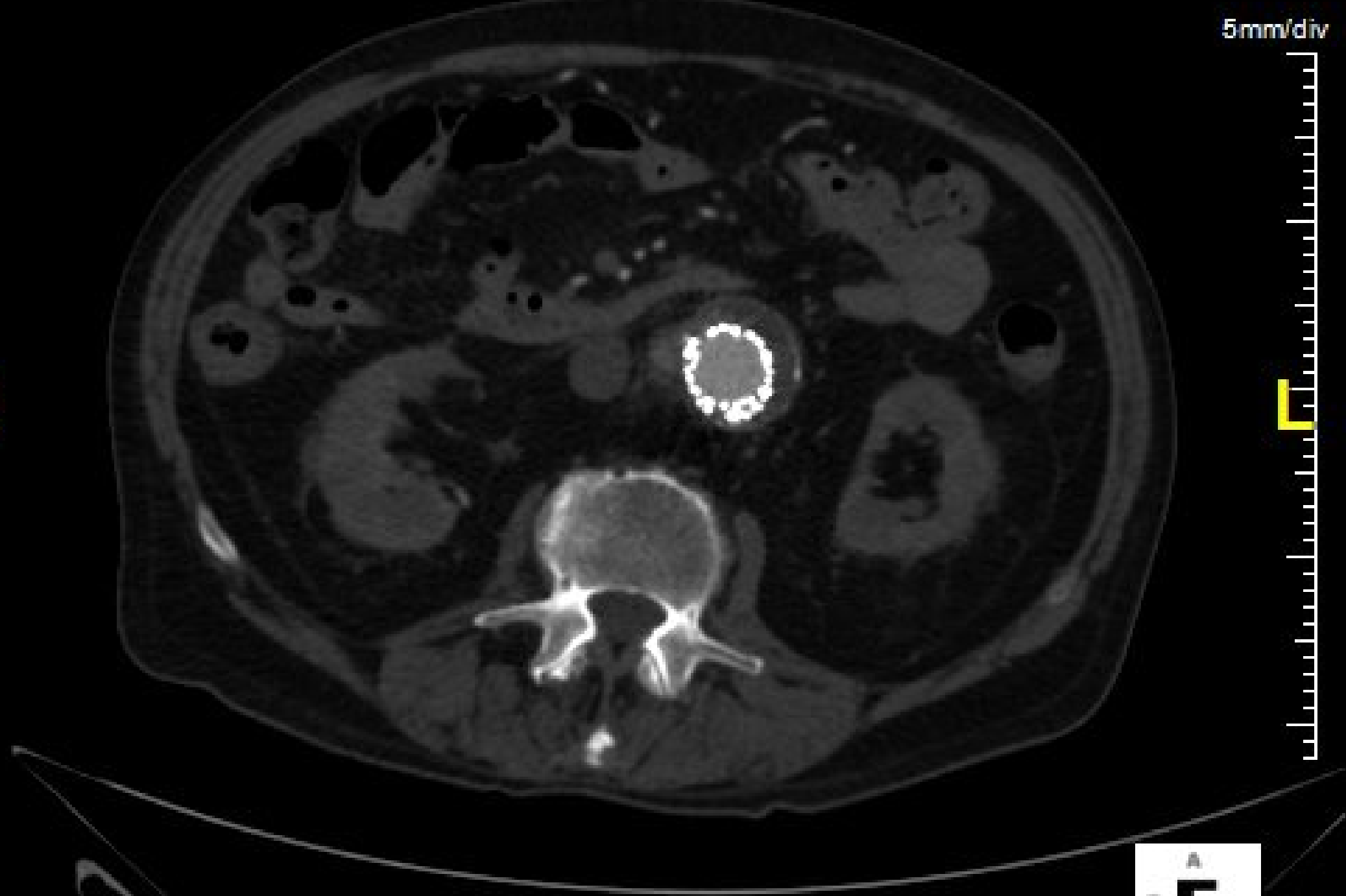
L

A
R F L



5mm/div

R



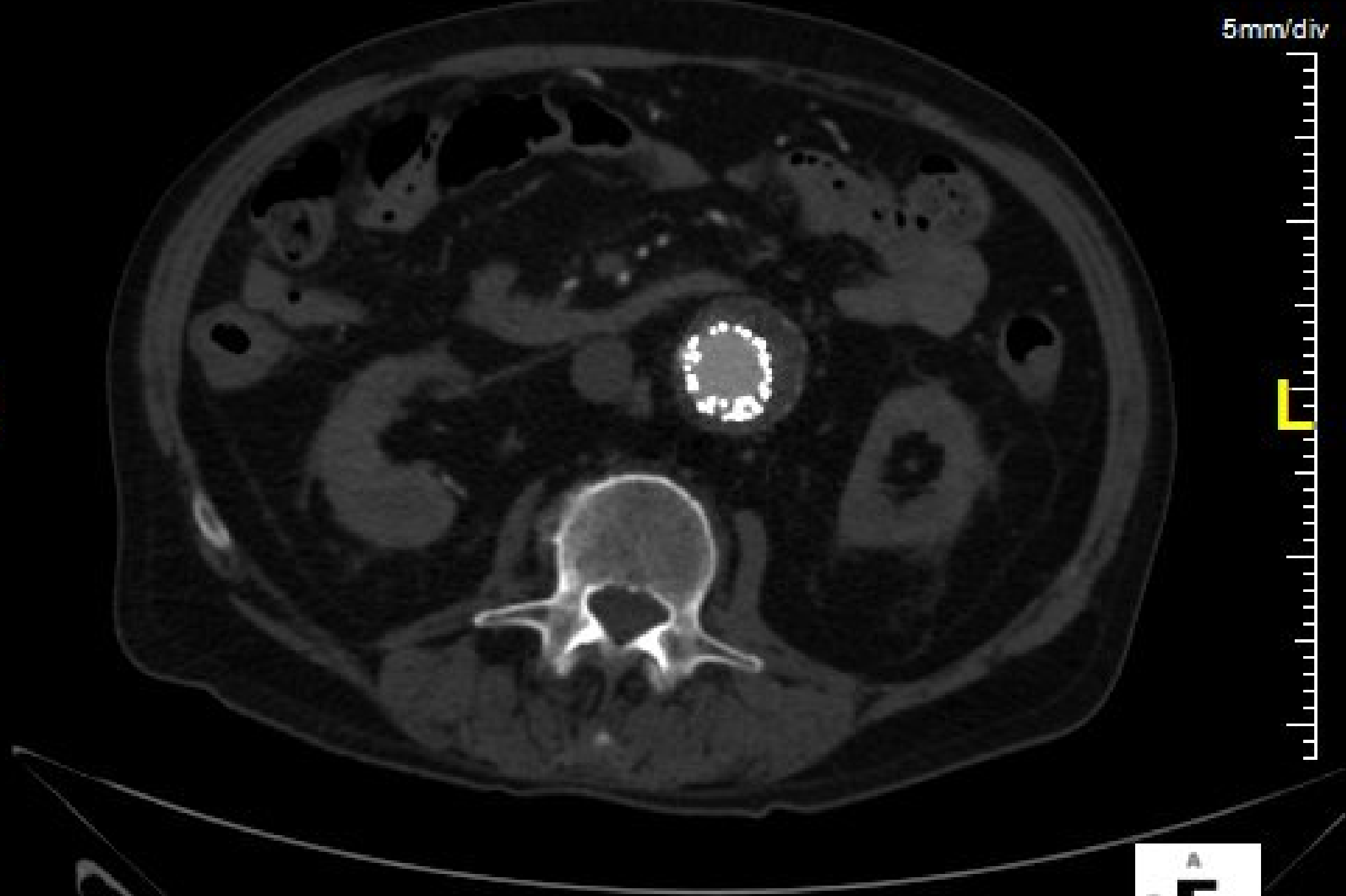
L

A
R F L

5mm/div

R

L

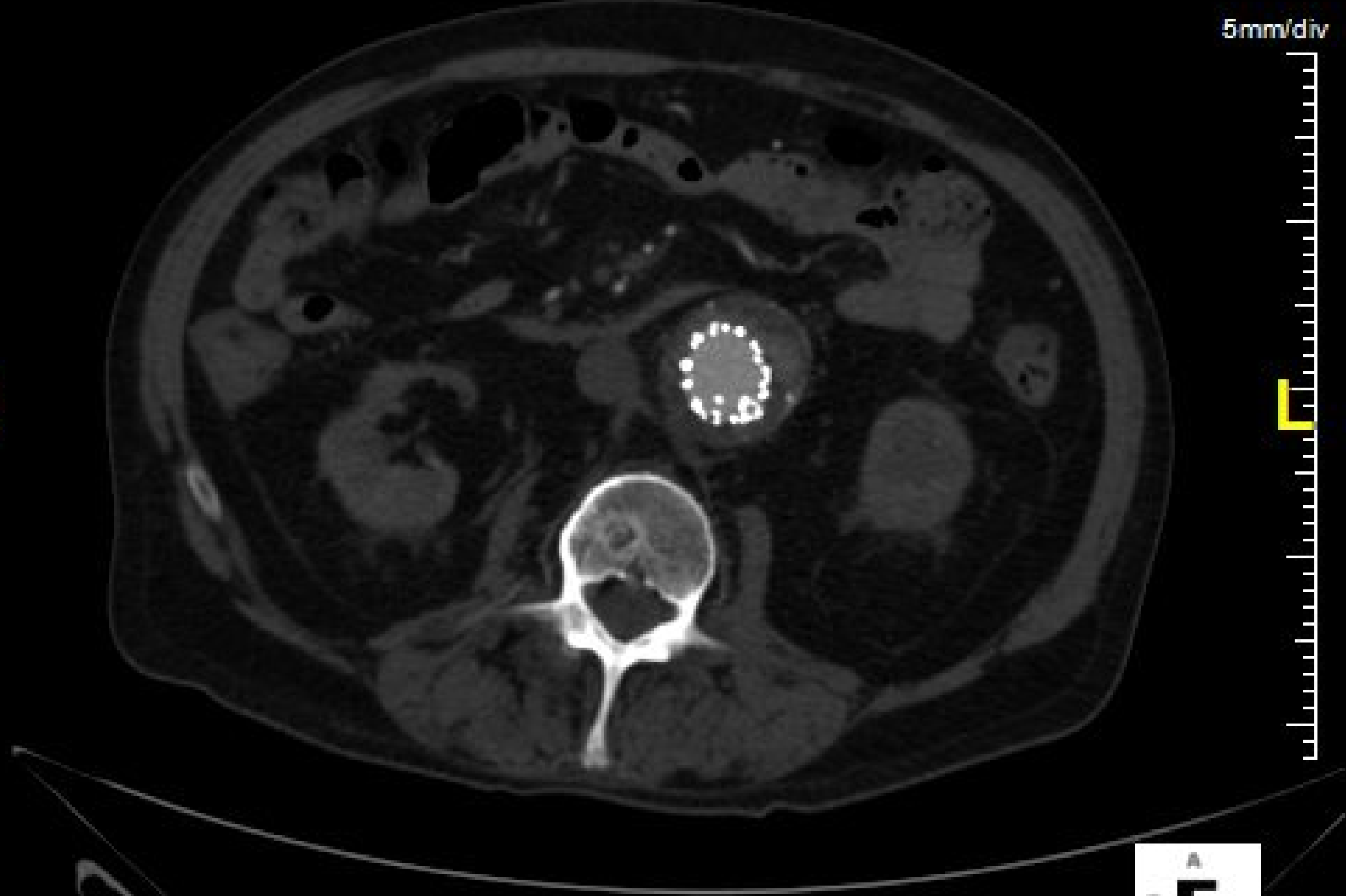


A
R F L

5mm/div

R

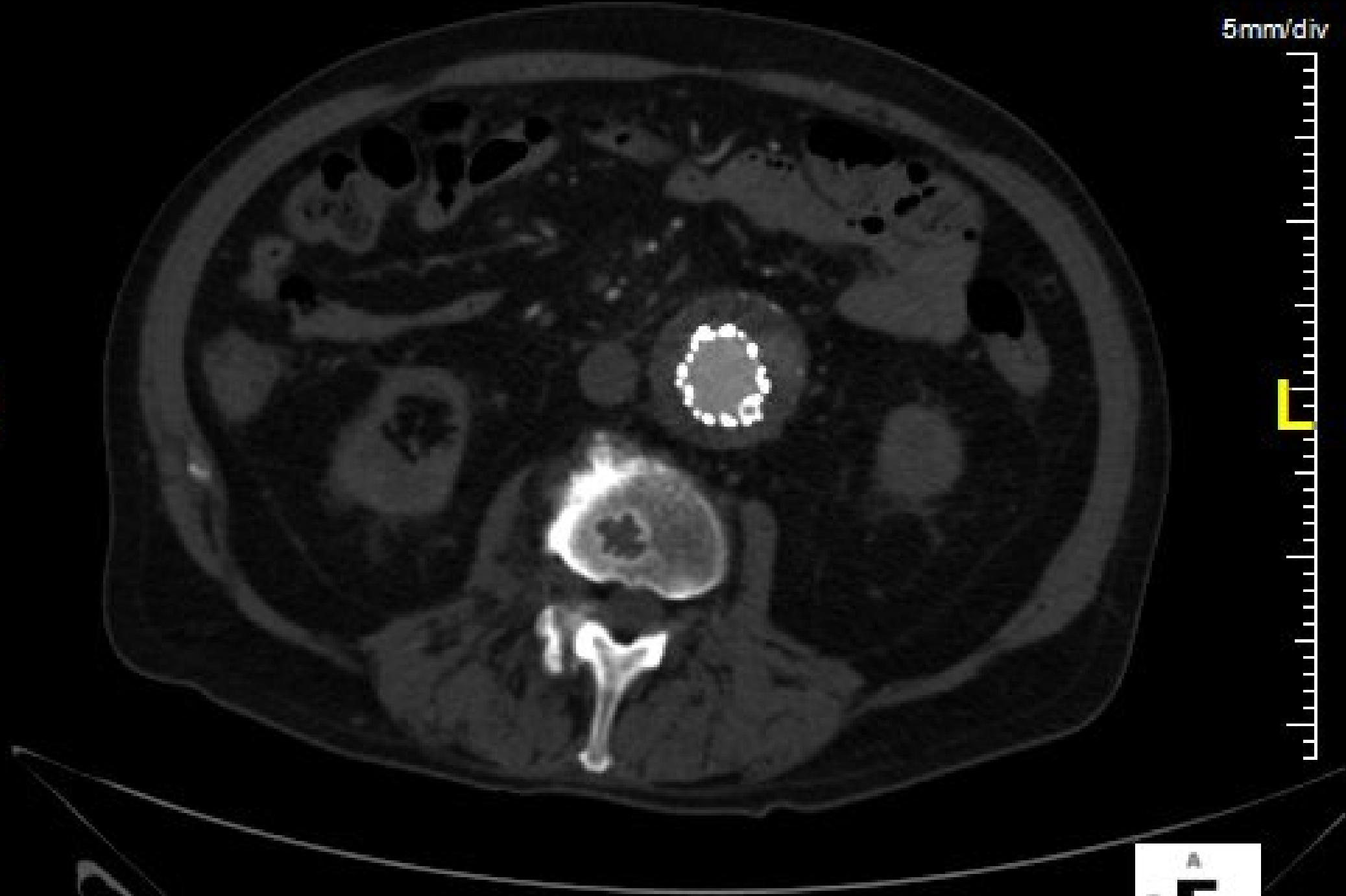
L



A
R F L

5mm/div

R



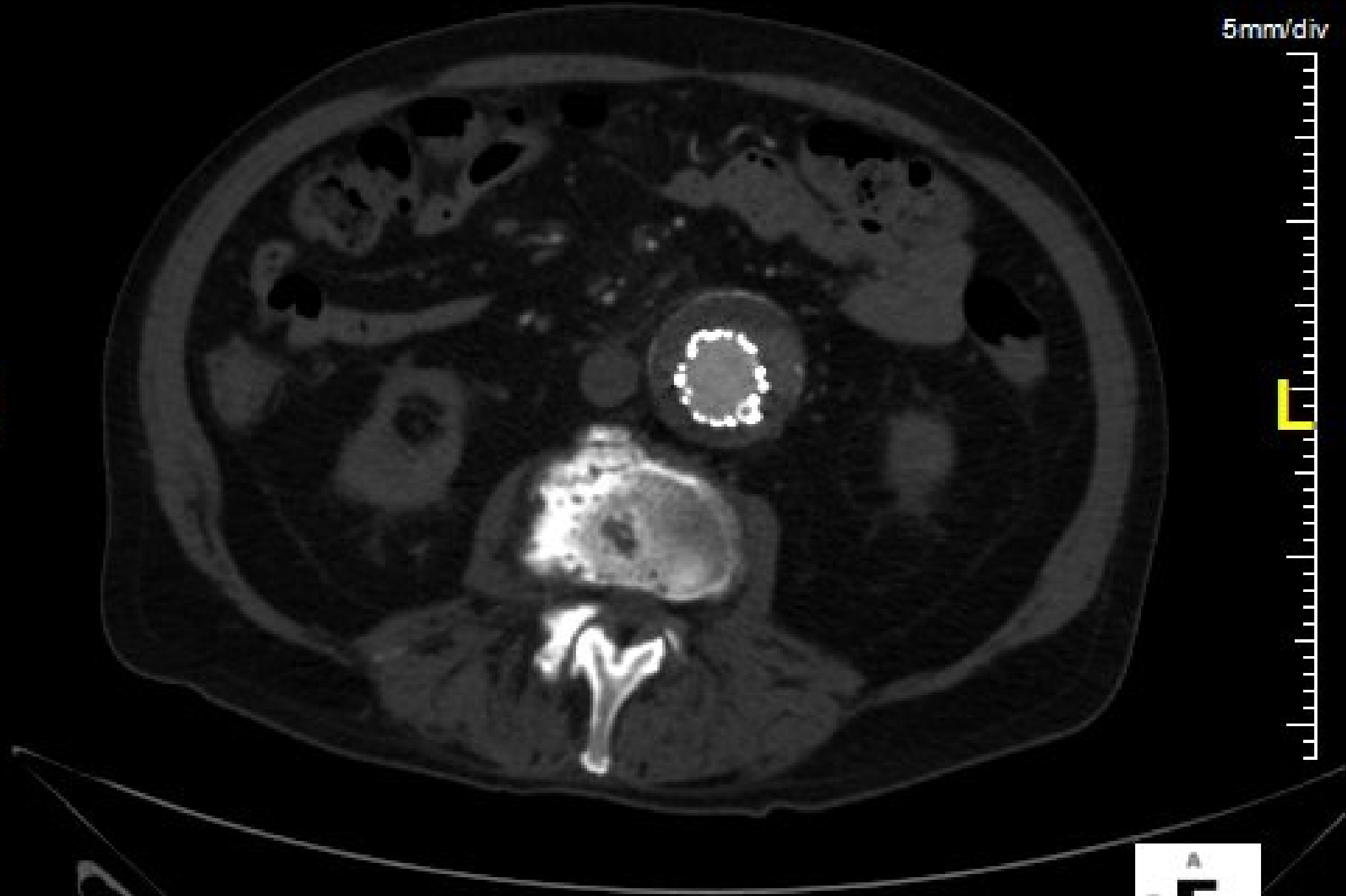
L

A
R F L

5mm/div

R

L



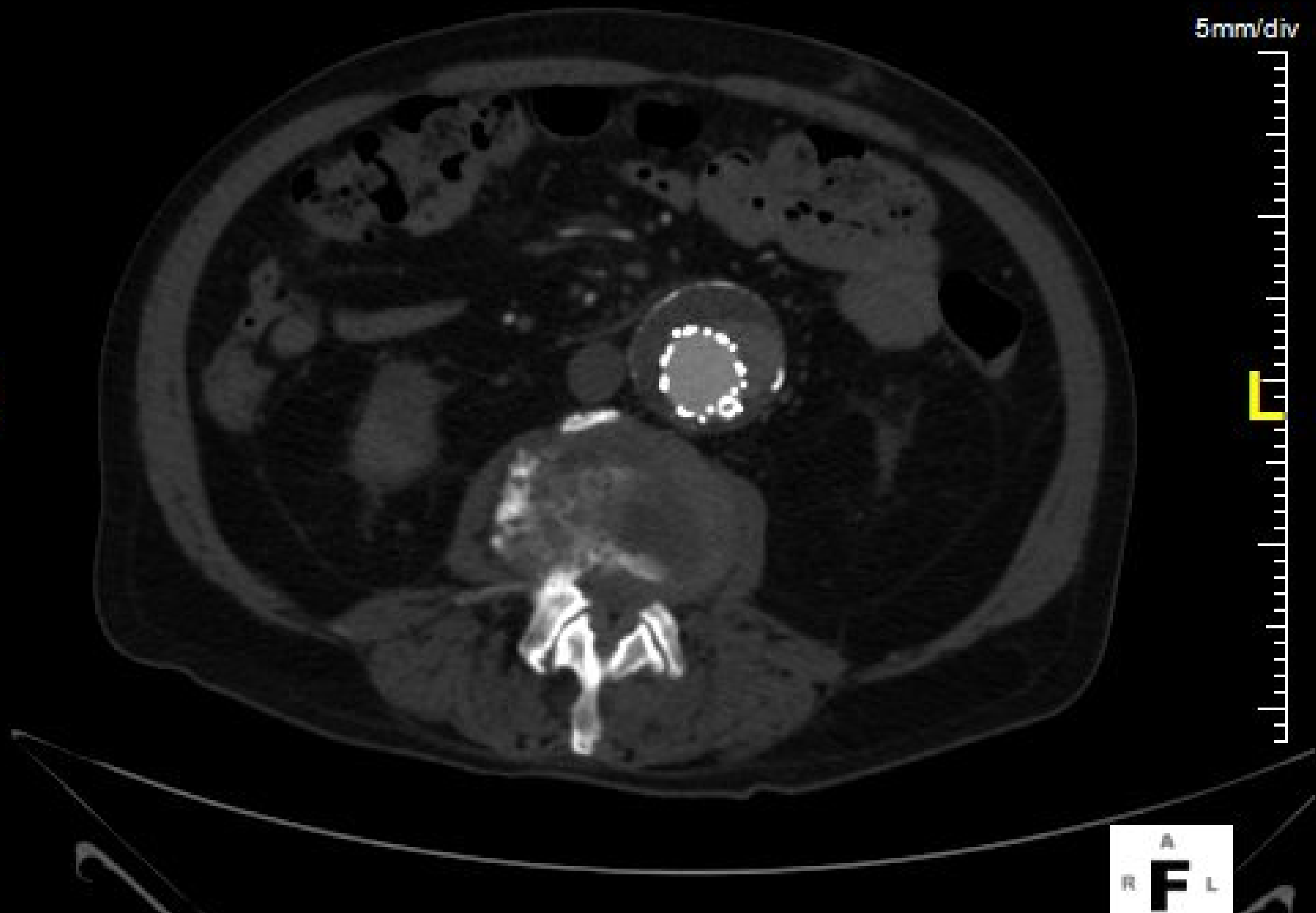
A
R F L

5mm/div

R

L

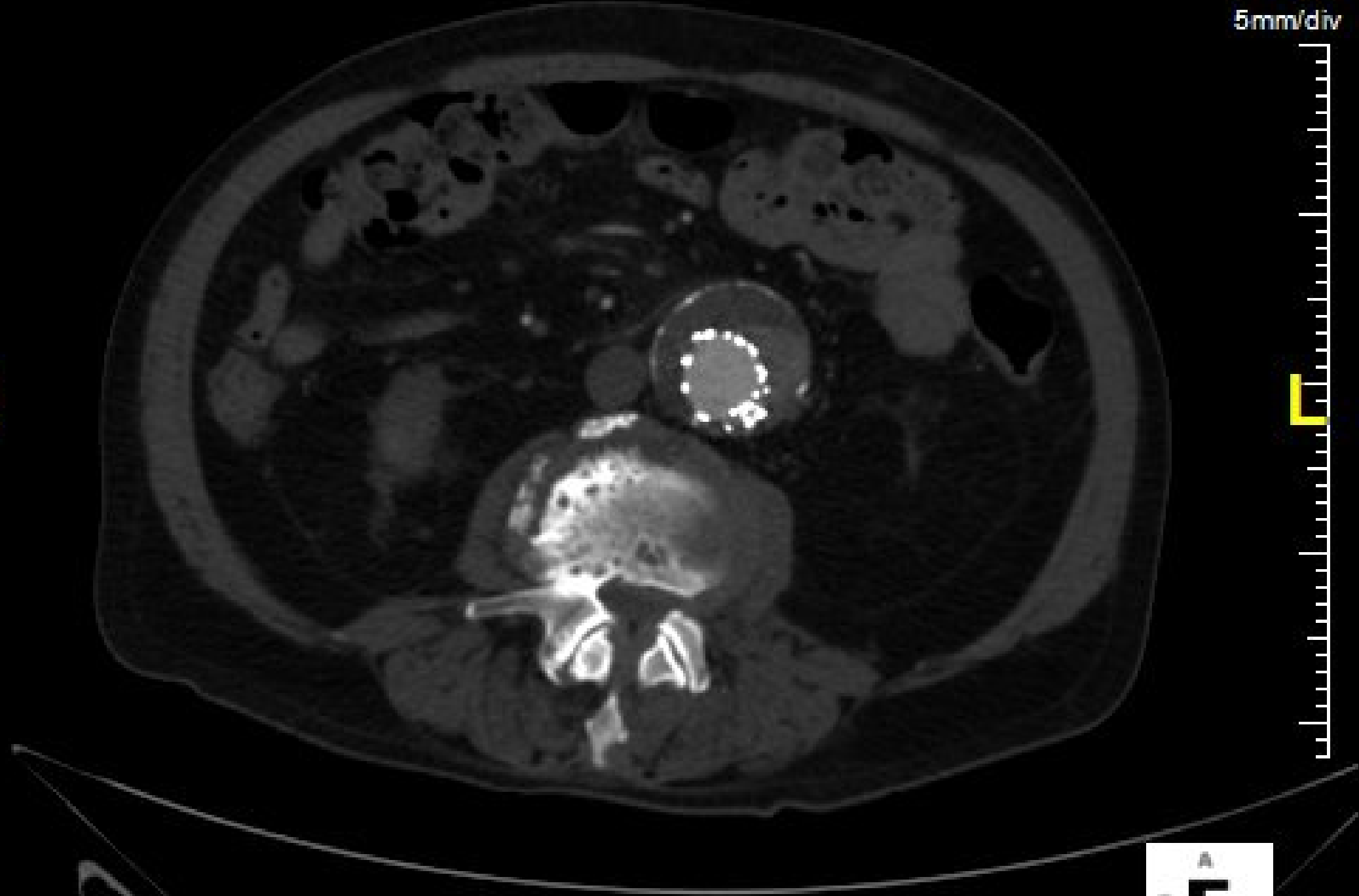
A
R F L



5mm/div

R

L

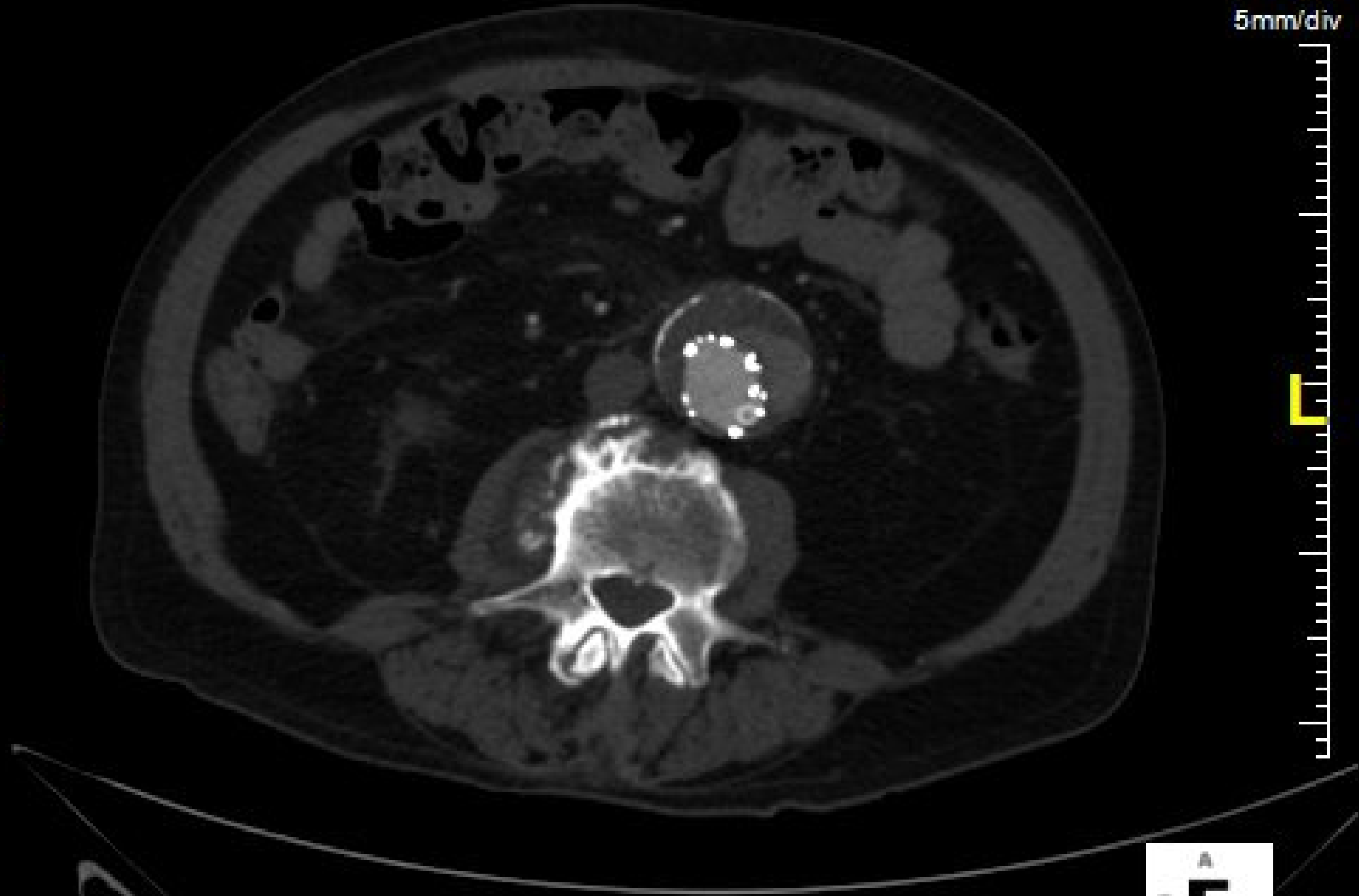


A
R F L

5mm/div

R

L

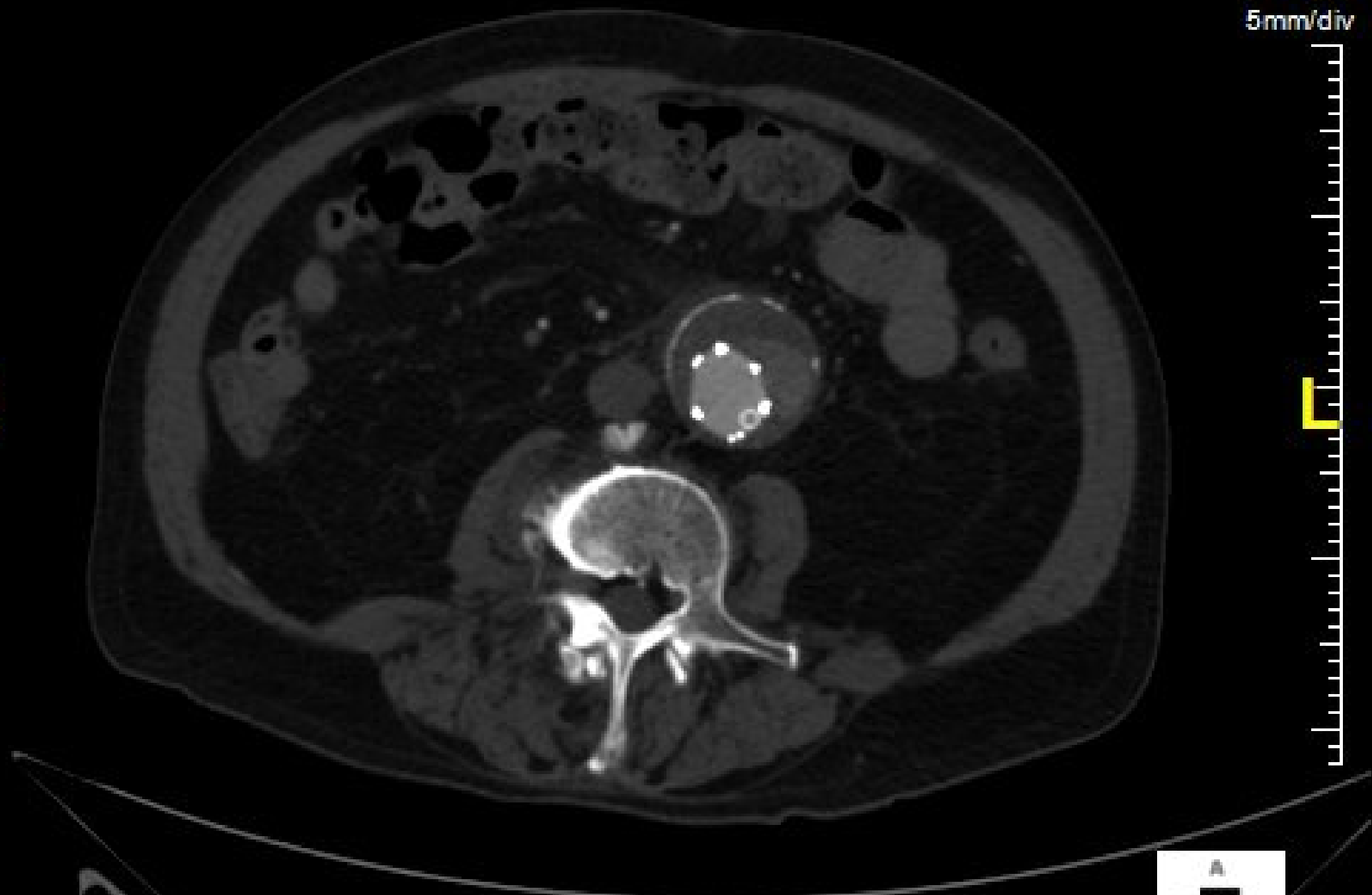


A
R F L

5mm/div

R

L



A
R F L

5mm/div

R

L

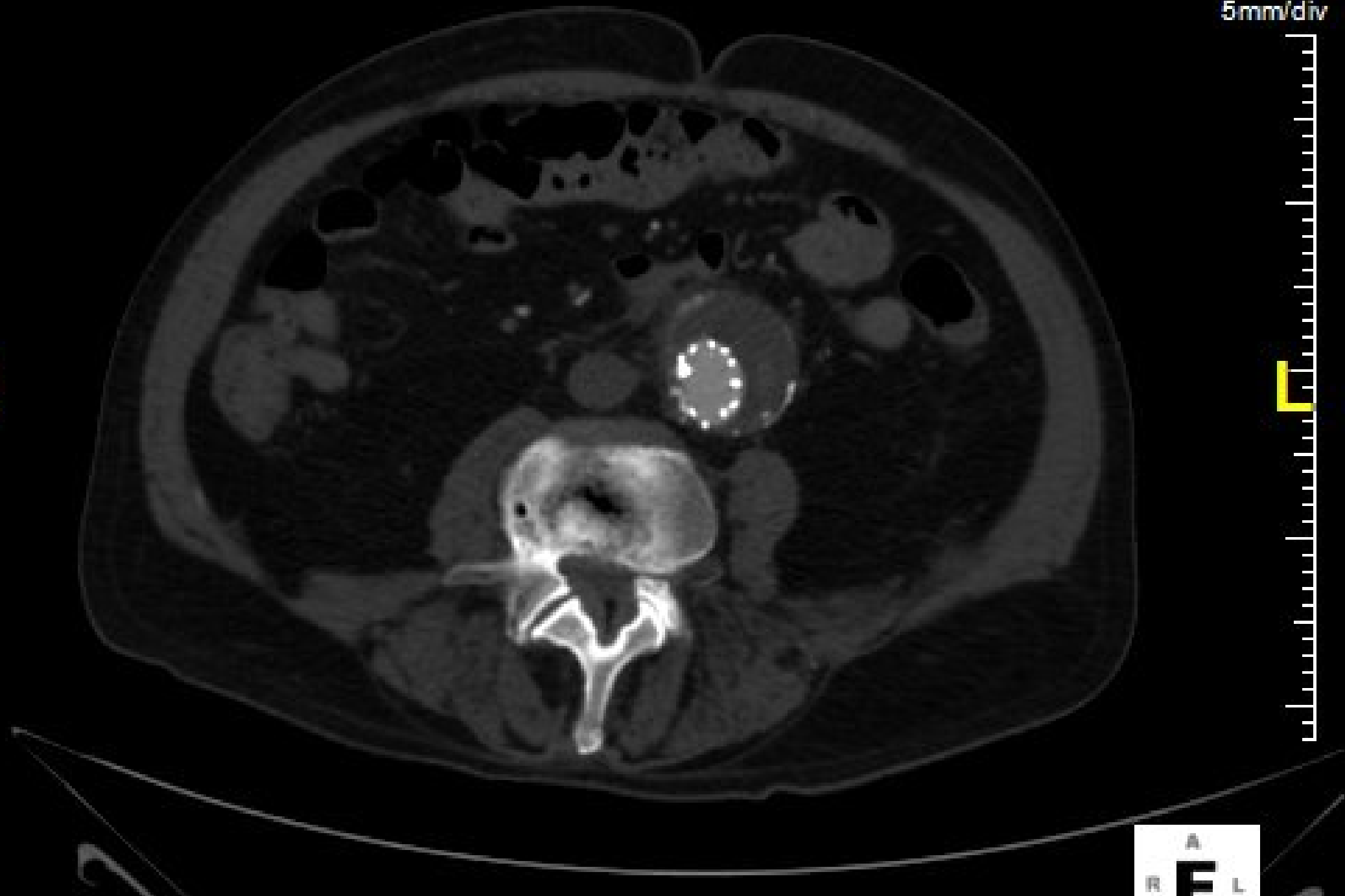


A
R F L

5mm/div

R

L



A
R F L

5mm/div

Min: 15
Max: 81
SDev: 17.3

R

Mean: 265
Area: 0.0903 cm²
Min: 220
Max: 349
SDev: 33.7

Mean: 108
Area: 0.160 cm²
Min: 68
Max: 144
SDev: 17.0

L



5mm/div

R

L

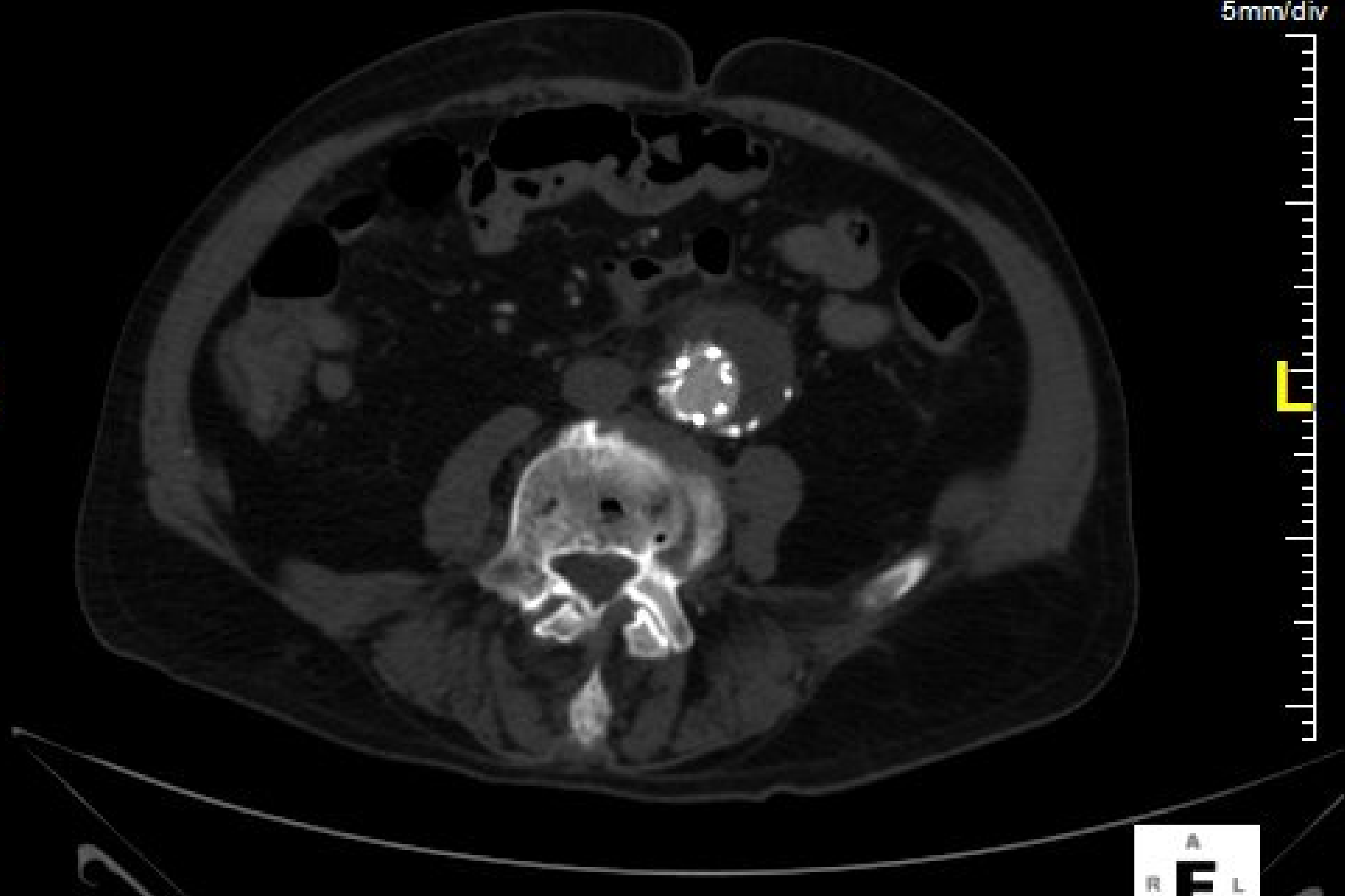


A
R F L

5mm/div

R

L

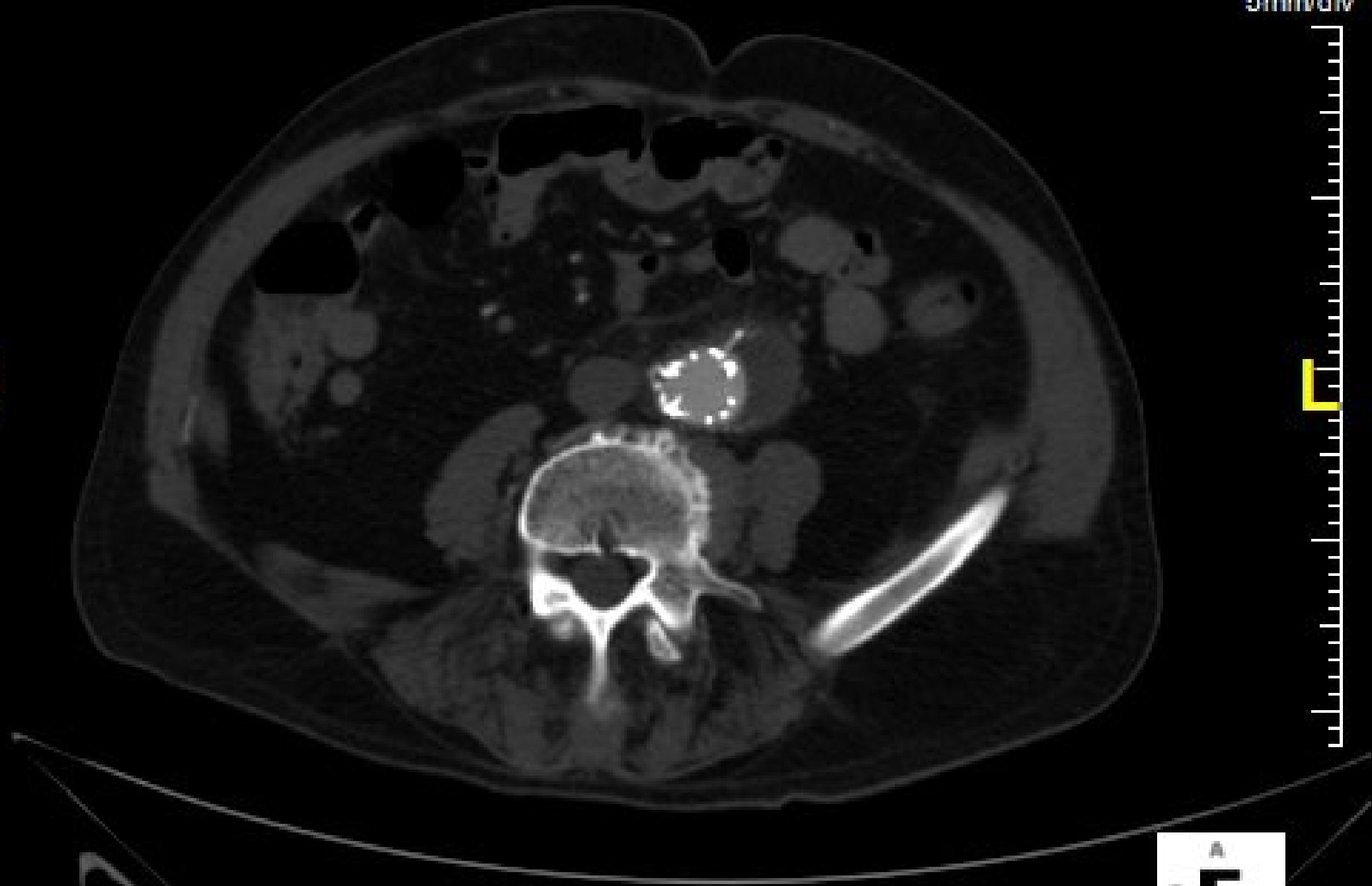


A
R F L

5mm/div

R

L

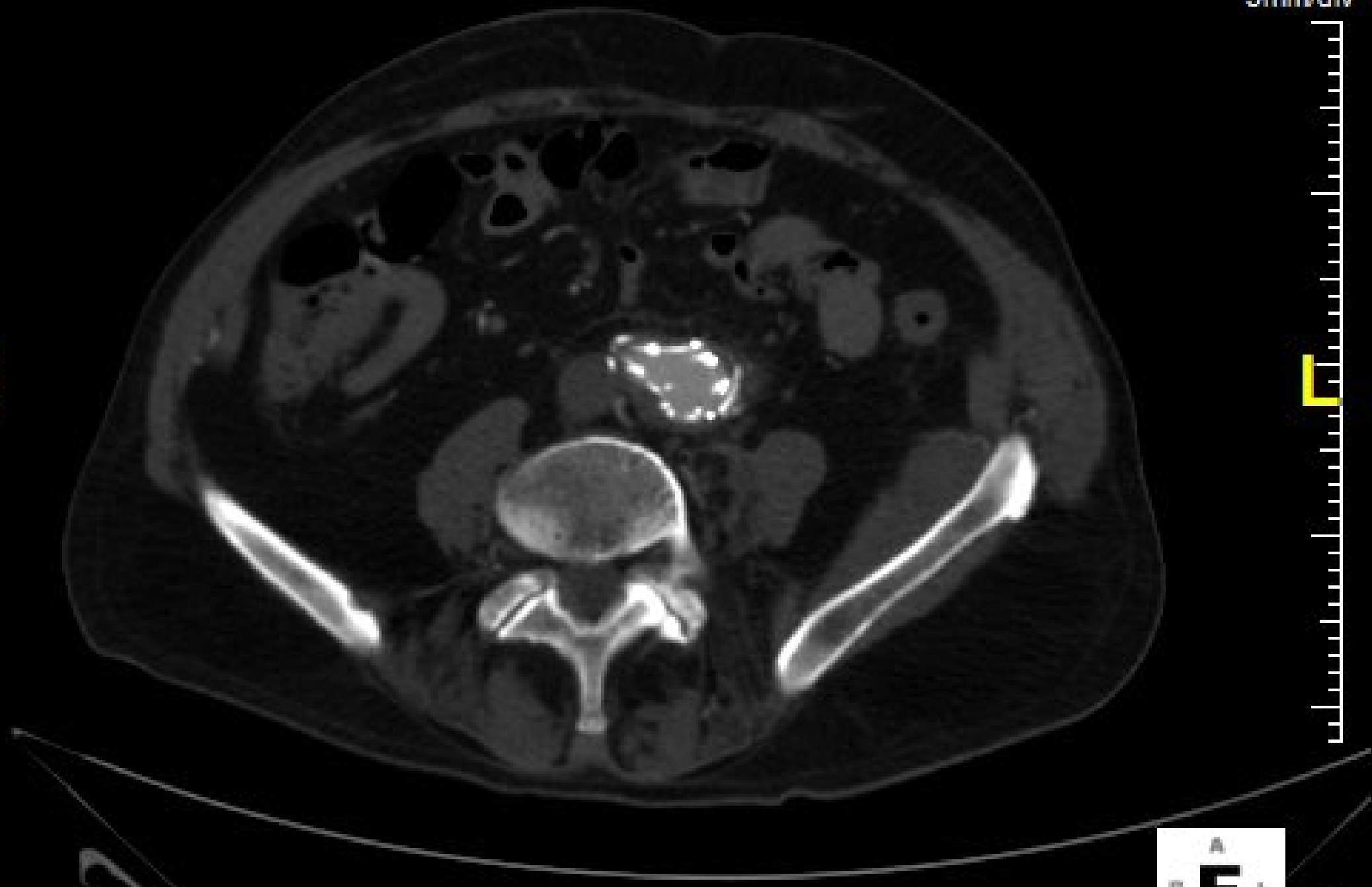


A
R F L

5mm/div

R

L



A
R F L

5mm/div

R

L

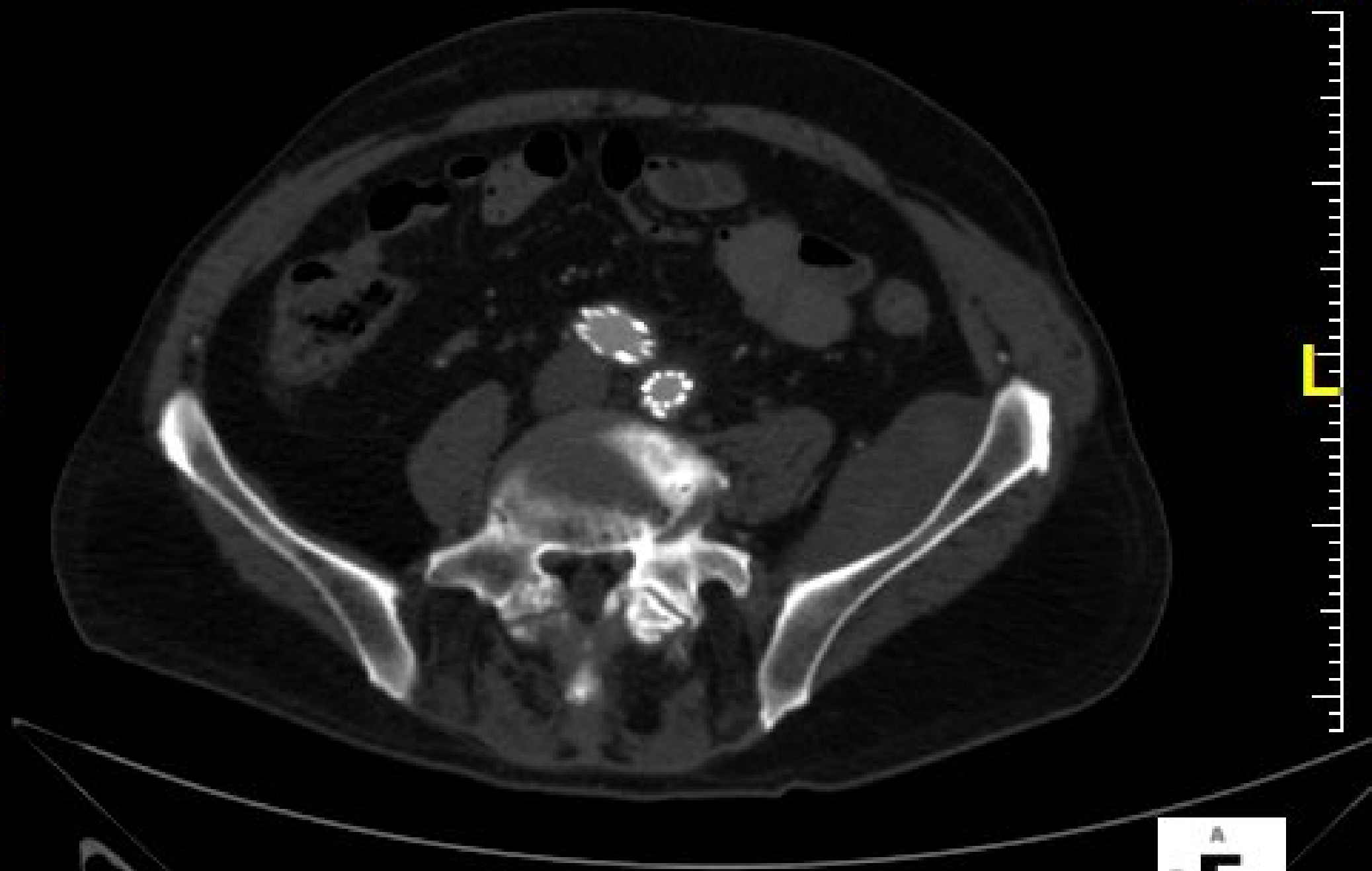


A
R F L

5mm/div

R

L

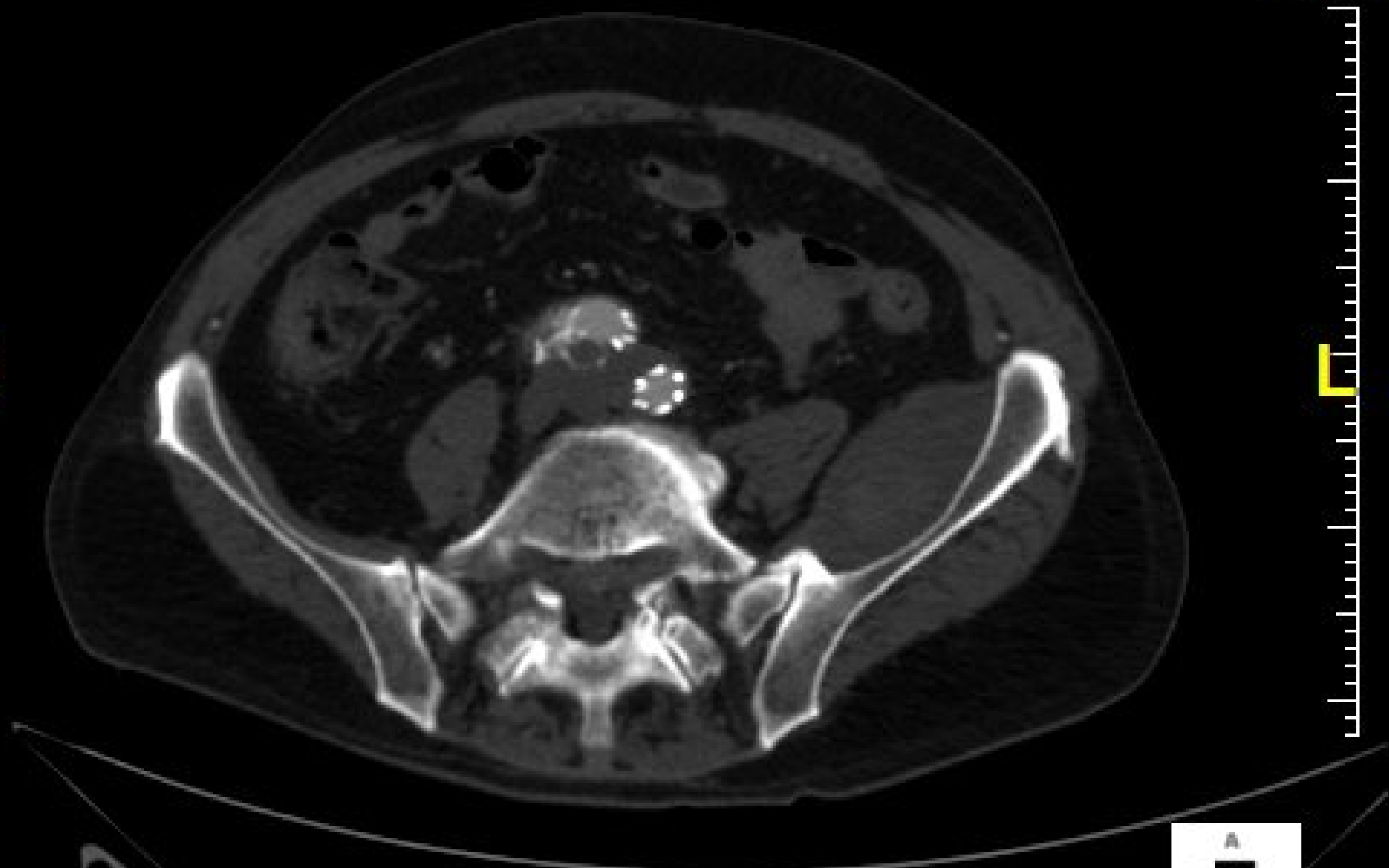


A
R F L

5mm/div

R

L



A
R F L

5mm/div

R

L

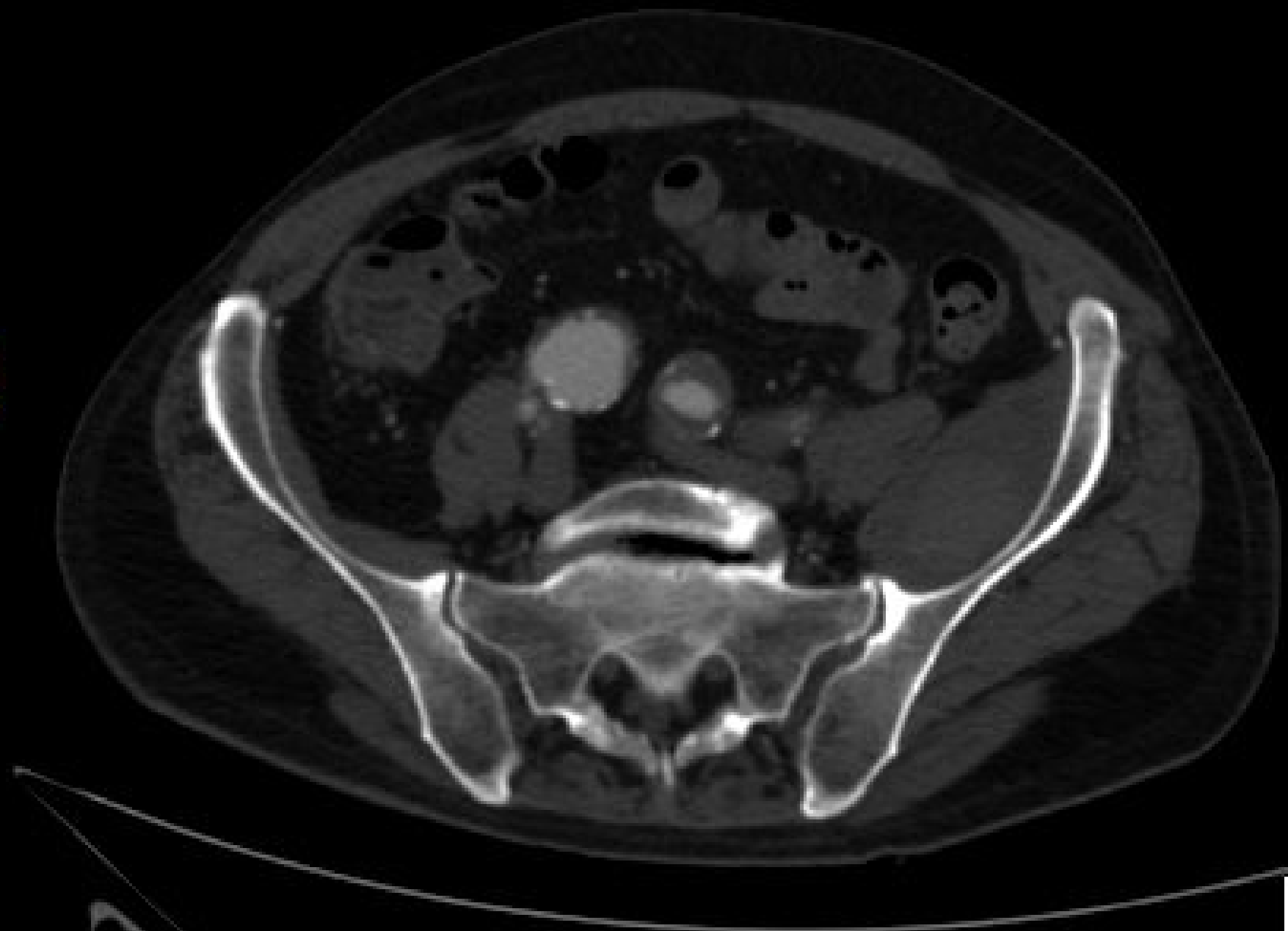


A
R F L

5mm/div

R

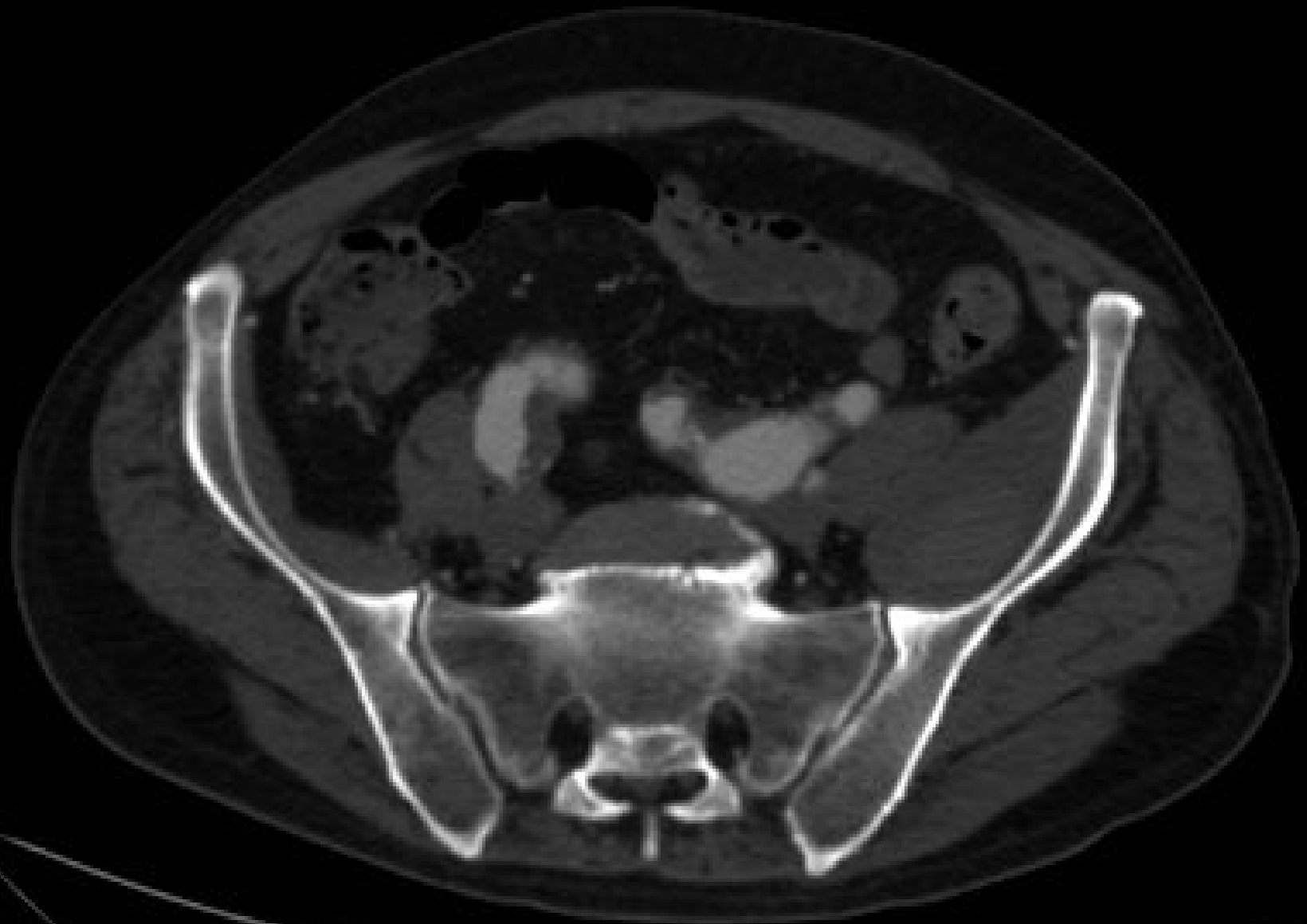
L



A
R F L

5mm/div

R



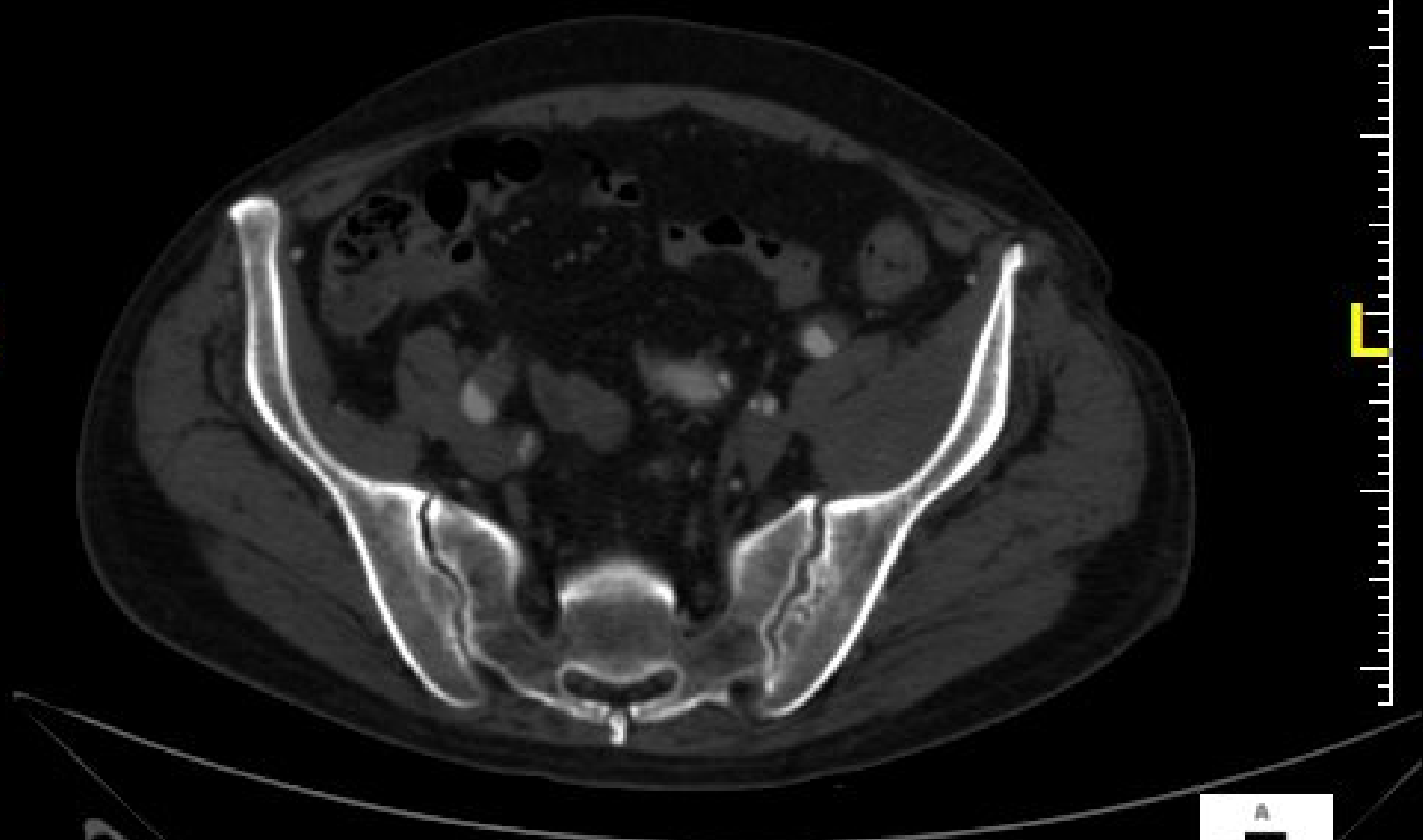
L

A
R F L

5mm/div

R

L

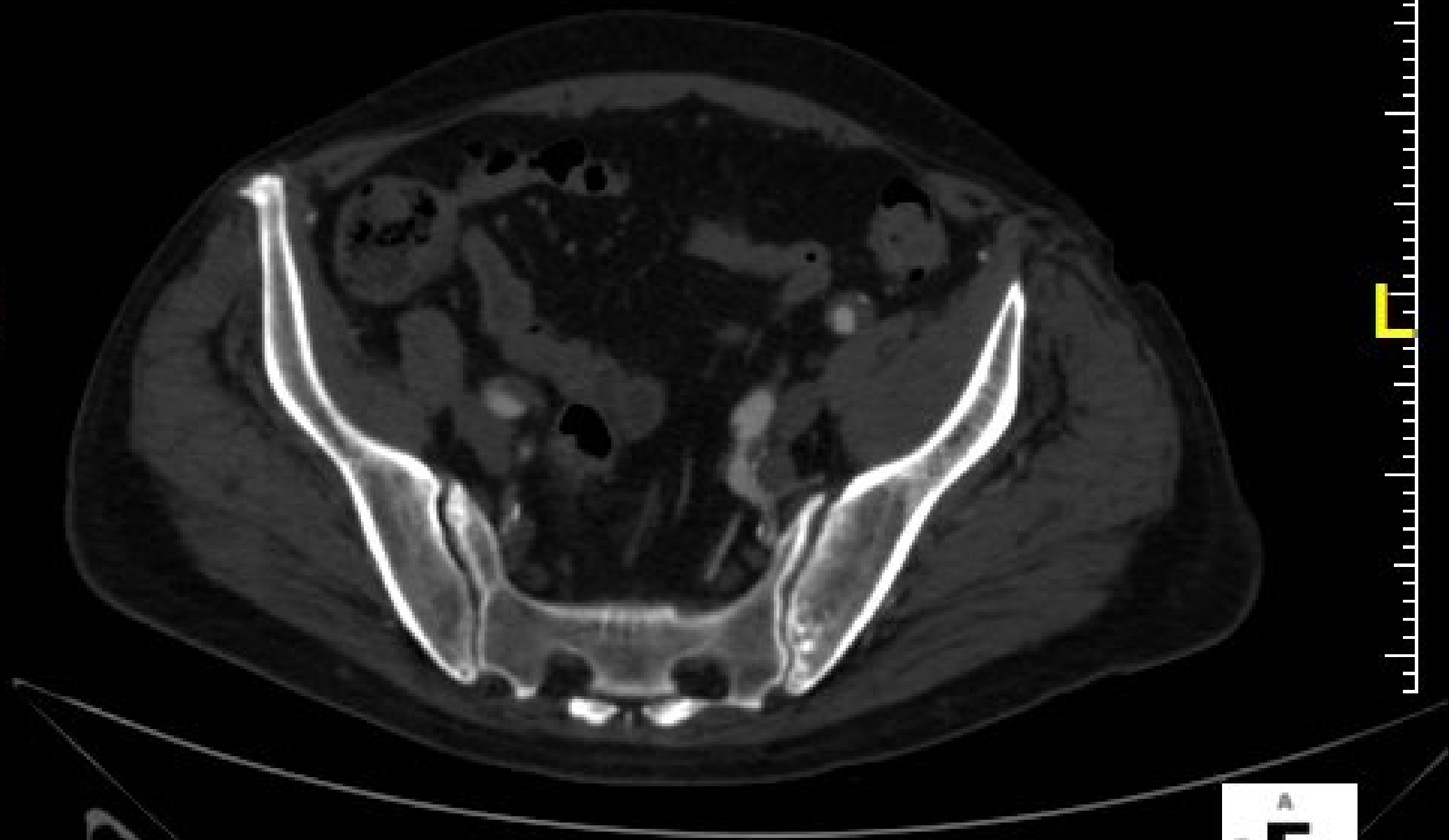


A
R F L

5mm/div

R

L

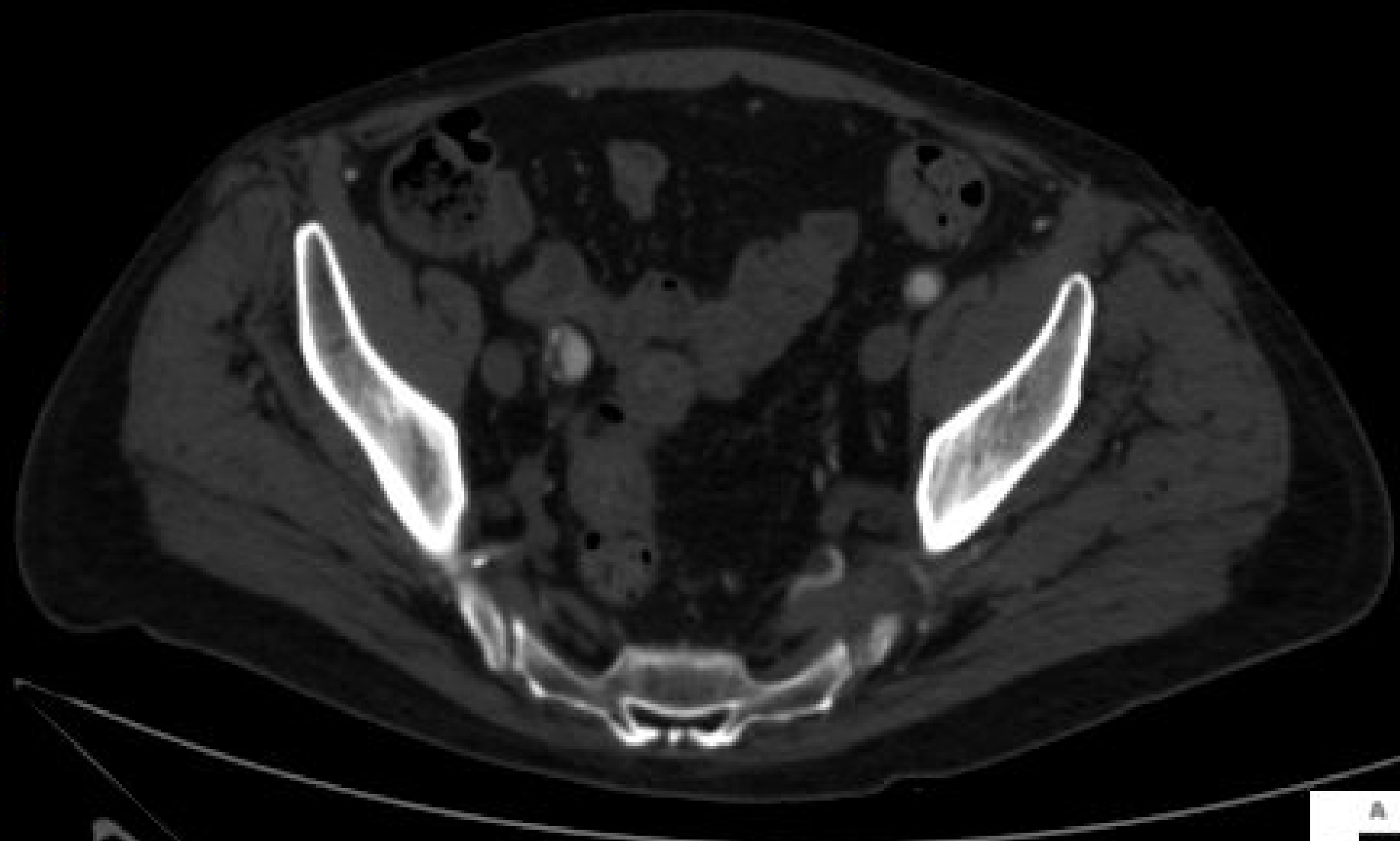


A
R F L

5mm/div

R

L

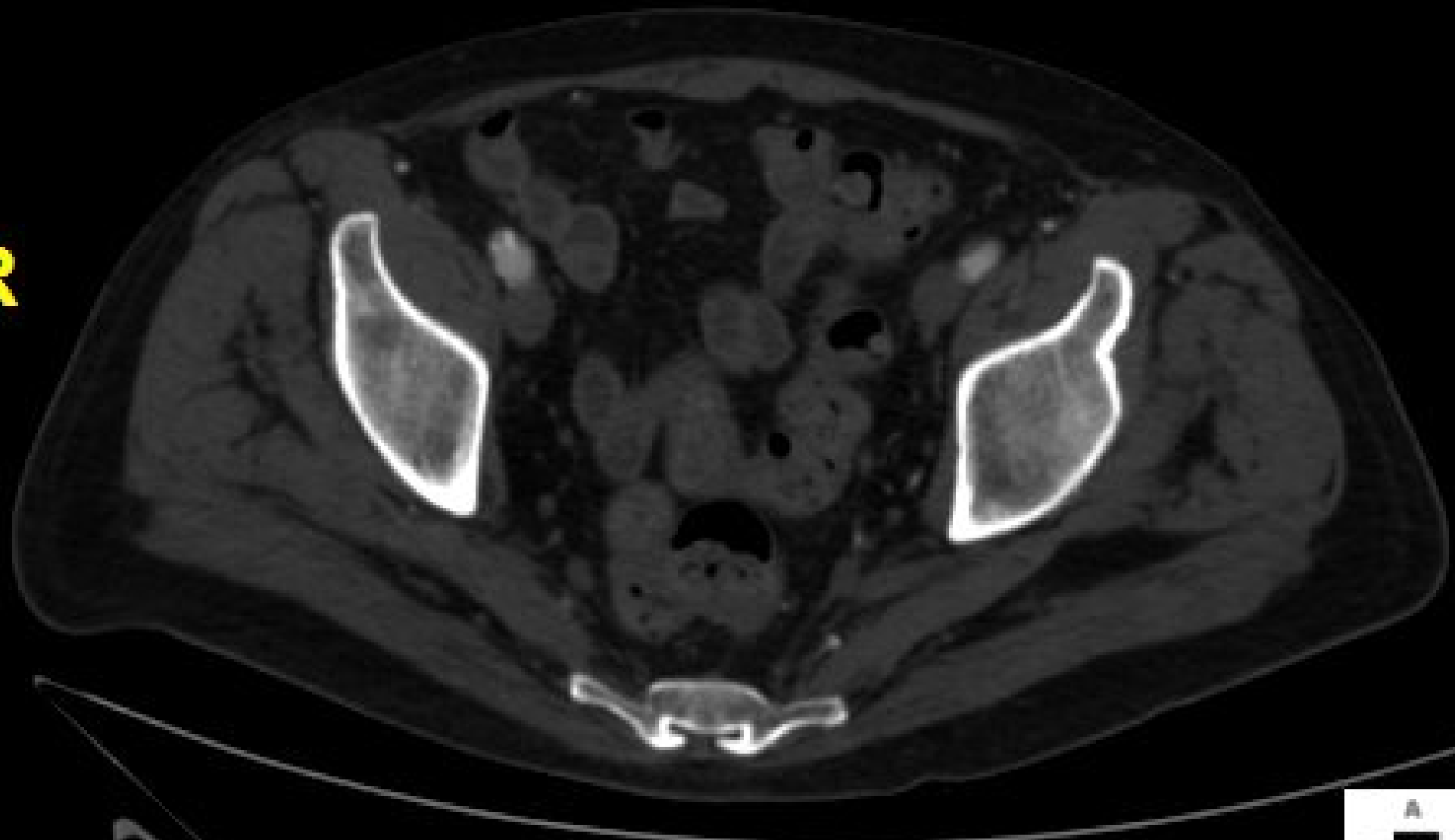


A
R F L

5mm/div

R

L

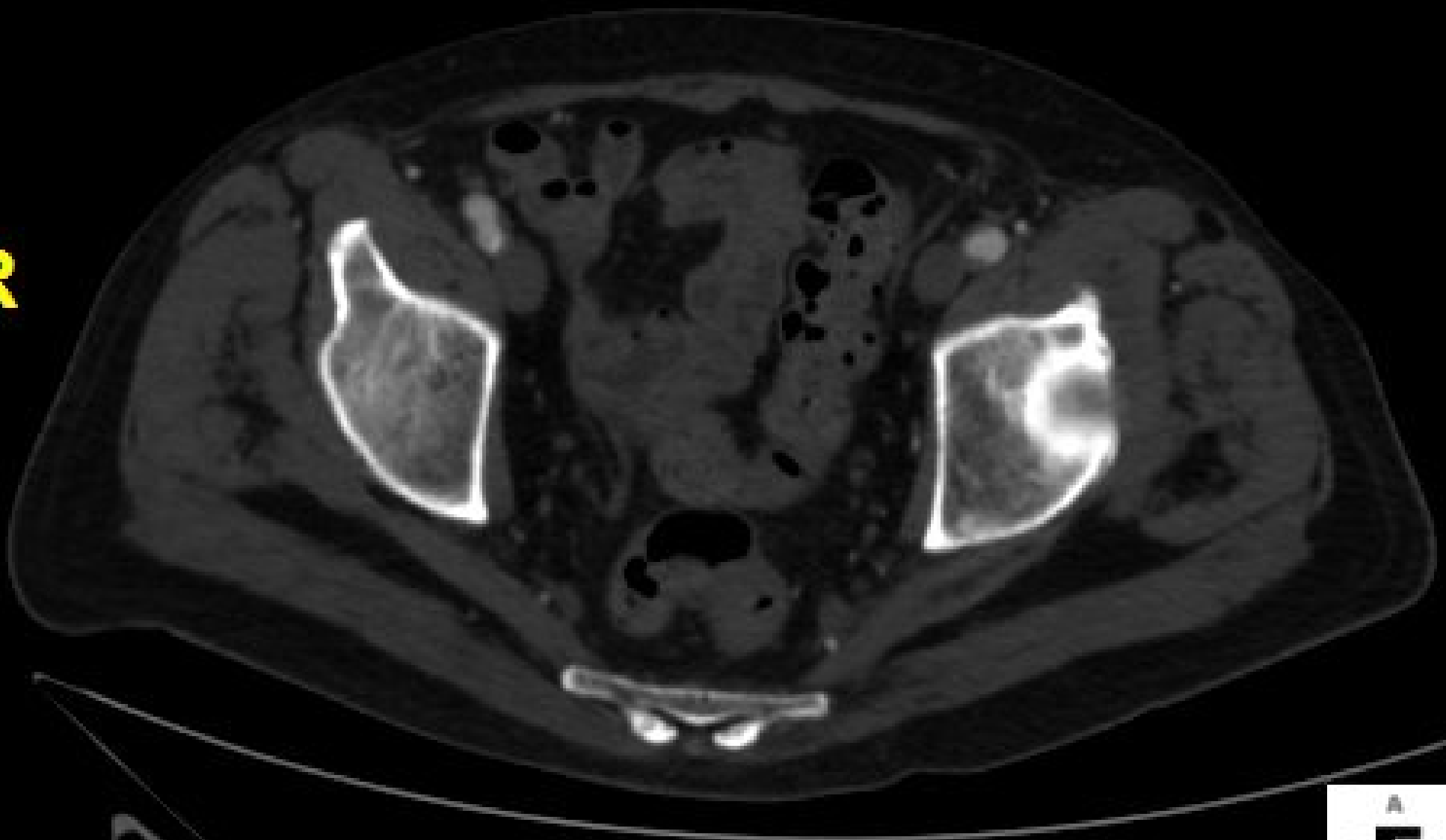


A
R F L

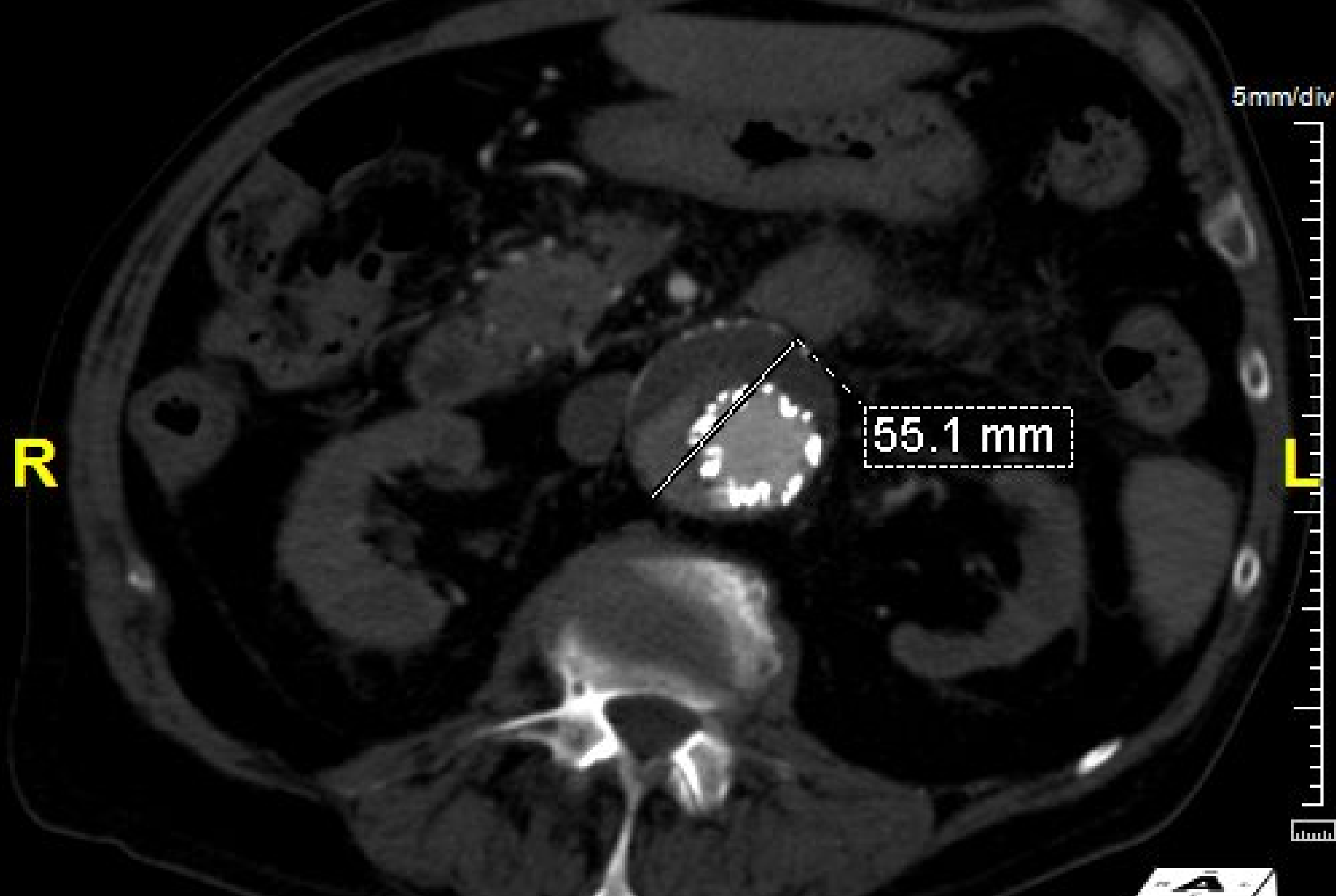
5mm/div

R

L



A
R F L



27.2 mm

CA

24.5 mm

SMA

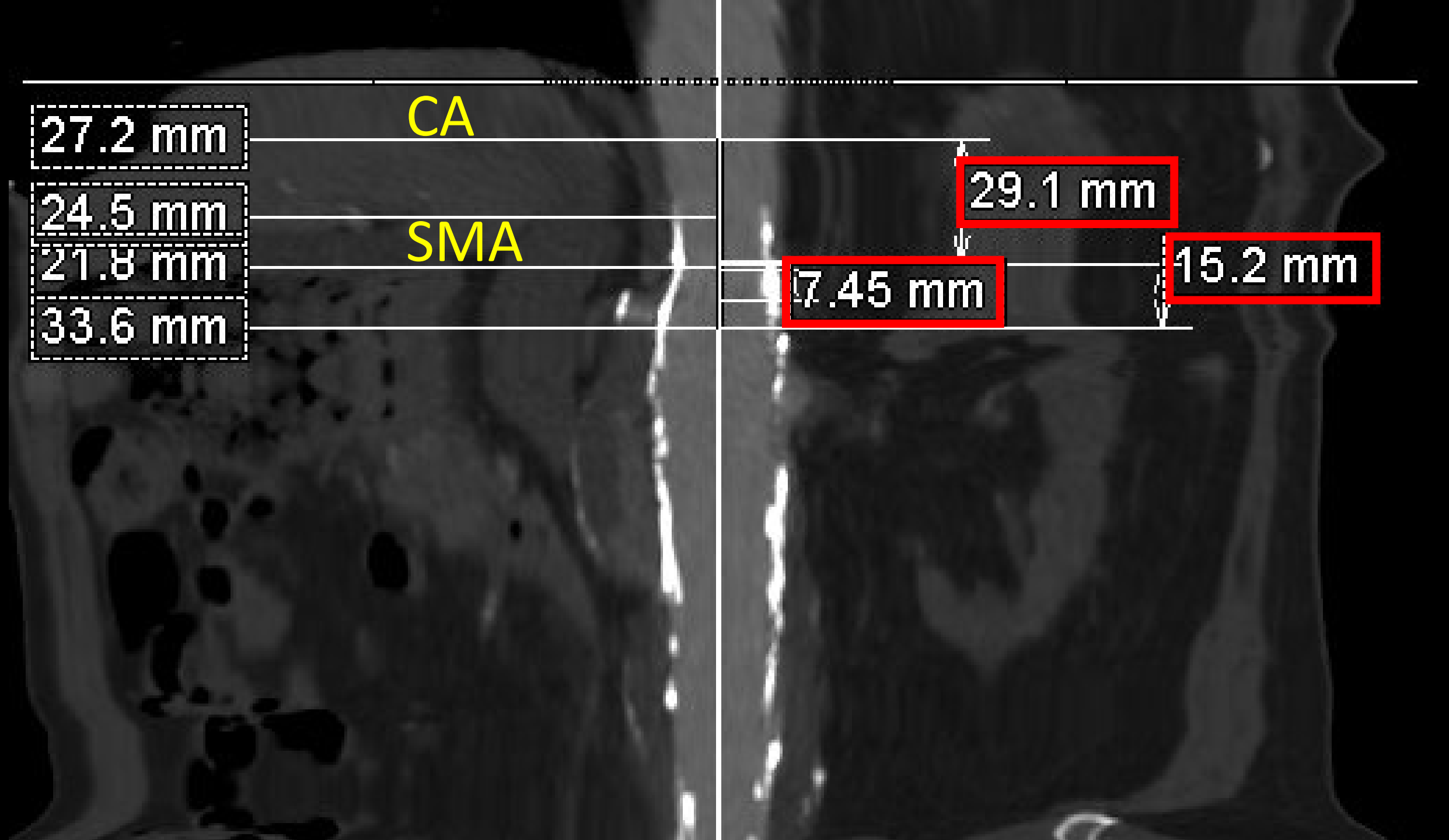
21.8 mm

33.6 mm

29.1 mm

7.45 mm

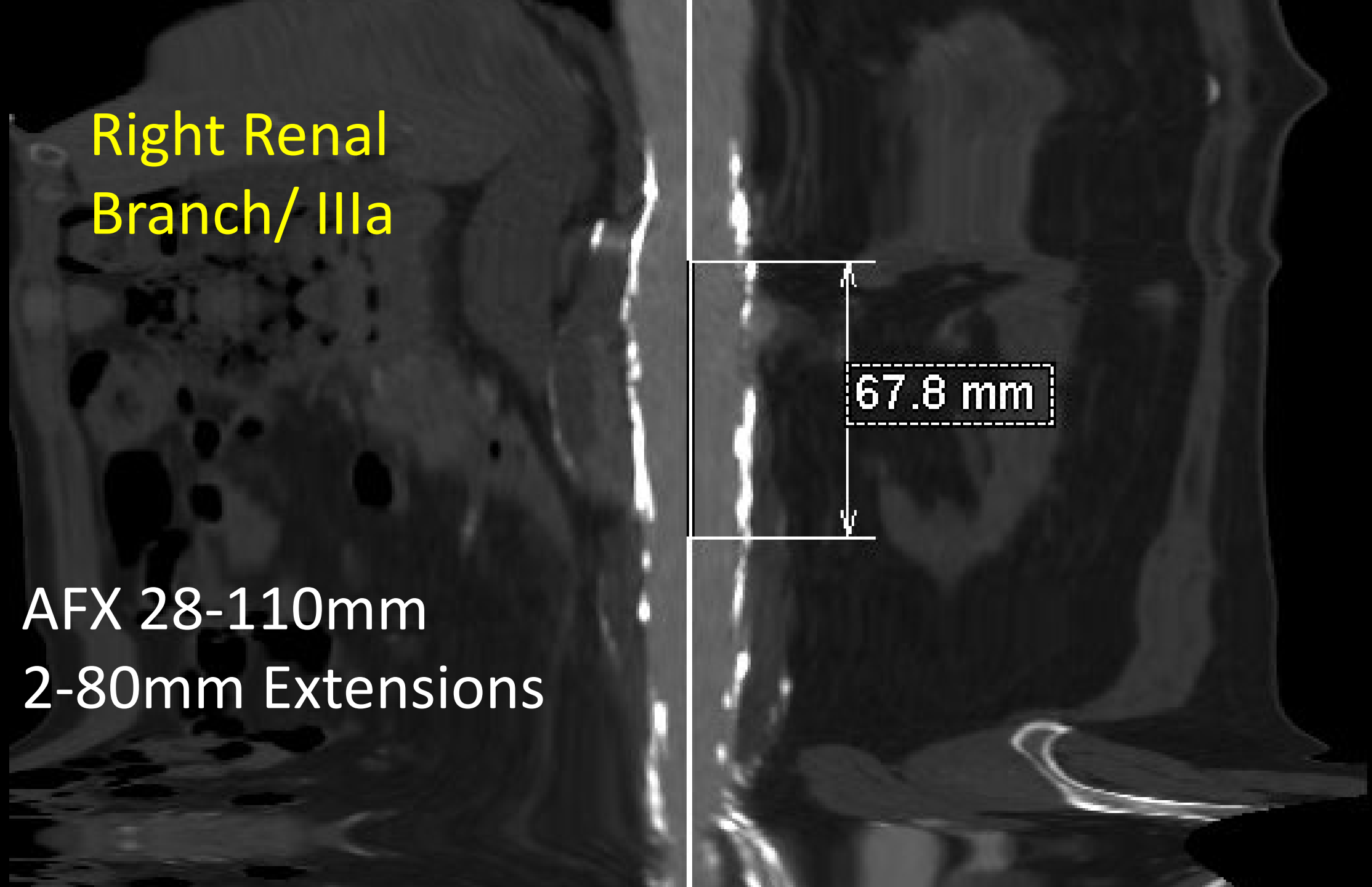
15.2 mm



Right Renal
Branch/ IIIa

AFX 28-110mm
2-80mm Extensions

67.8 mm



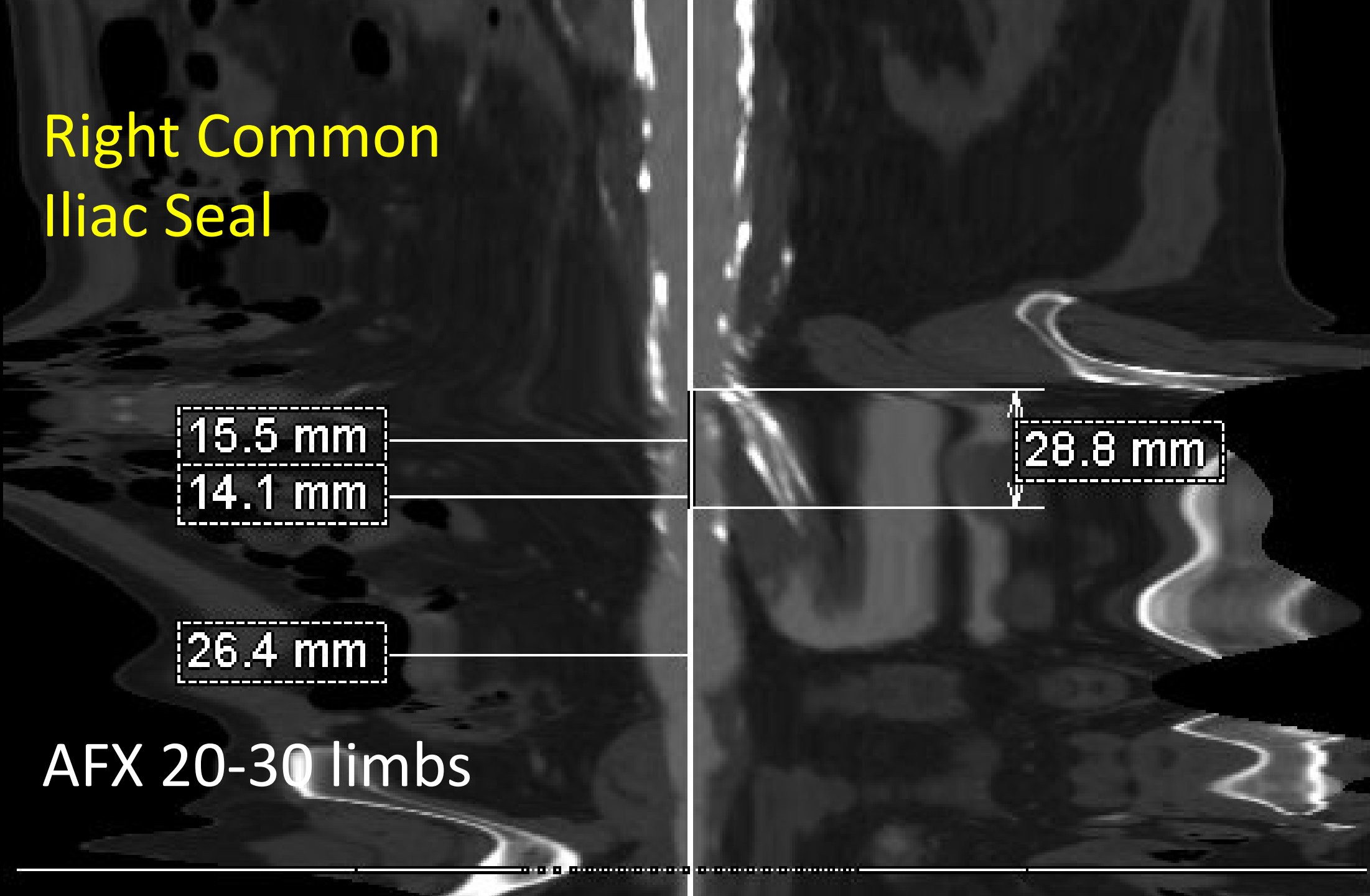
Right Common Iliac Seal

15.5 mm
14.1 mm

26.4 mm

28.8 mm

AFX 20-30 limbs



Left Common Iliac Seal

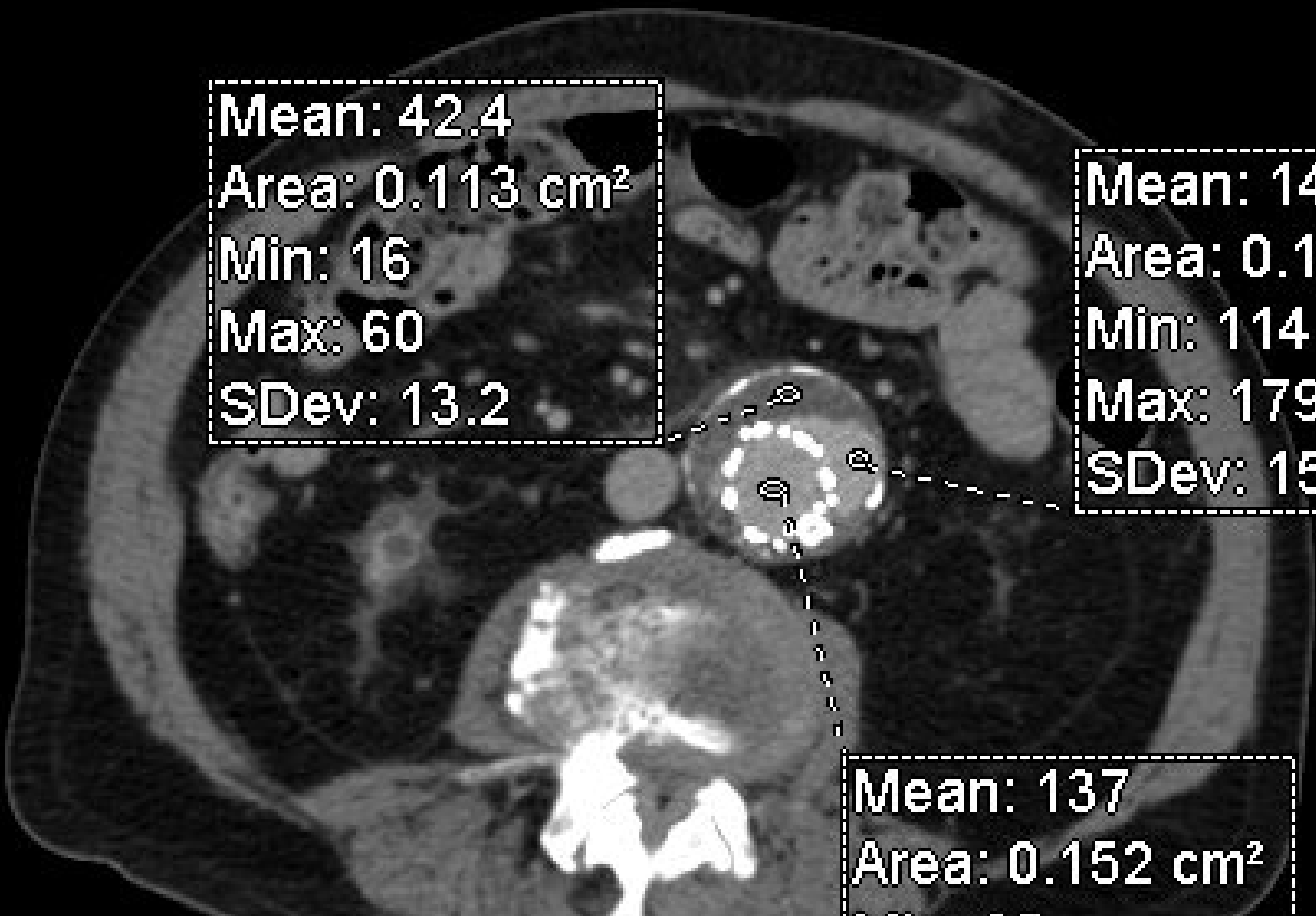
12.7 mm
16.3 mm
24.7 mm

13.9 mm

AFX 20-30 limbs



R

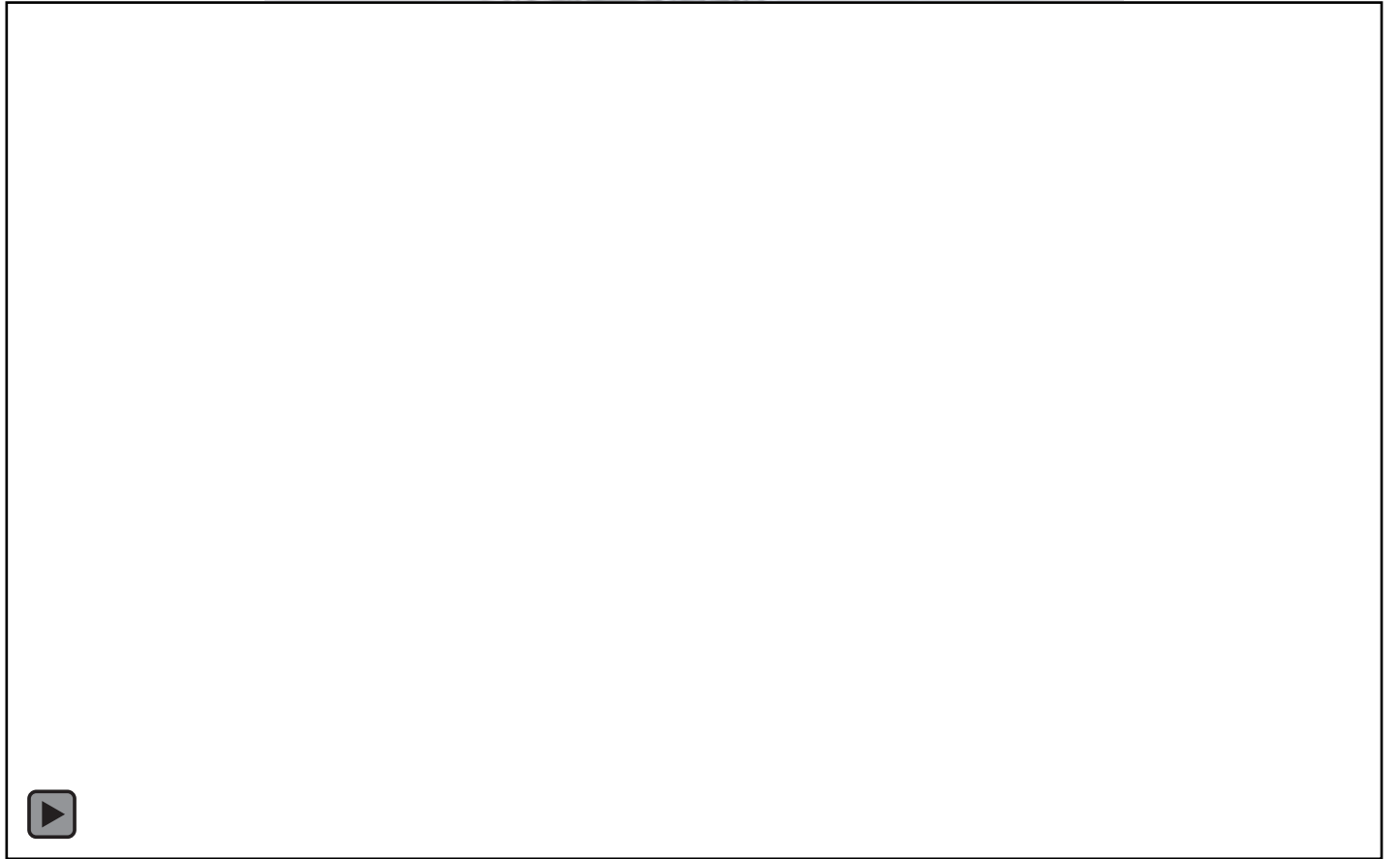


Mean: 42.4
Area: 0.113 cm²
Min: 16
Max: 60
SDev: 13.2

Mean: 148
Area: 0.104 cm²
Min: 114
Max: 179
SDev: 15.9

Mean: 137
Area: 0.152 cm²

Patient Imaging



Introduce the “blinded”
clinician speaker