Paediatric Nephrouroradiology Symposium

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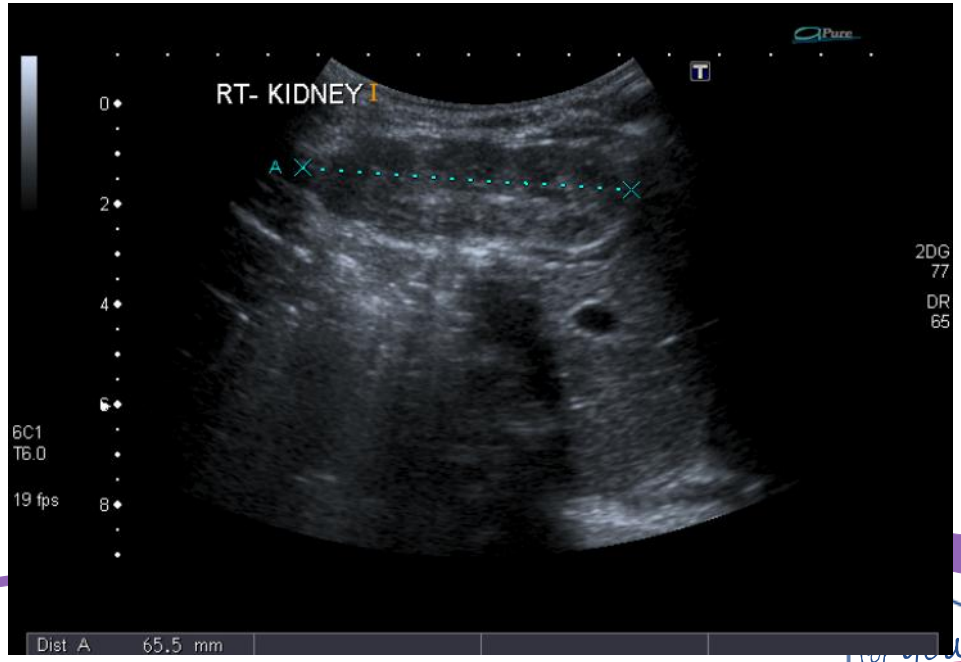
March 2015

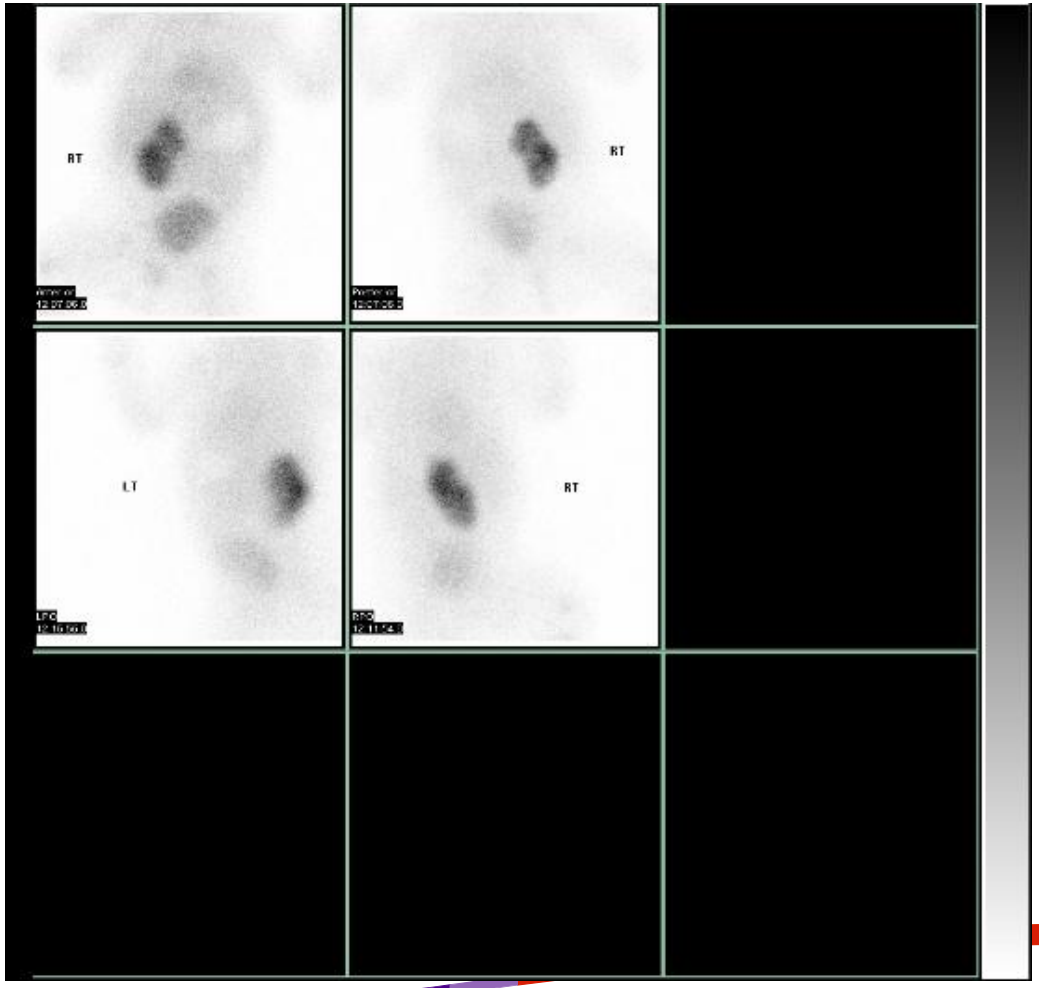
Case 1

Case 1

- 5 month old, male
- Antenatal scan: Dilated right renal pelvis and normal left kidney
- Post natal USS



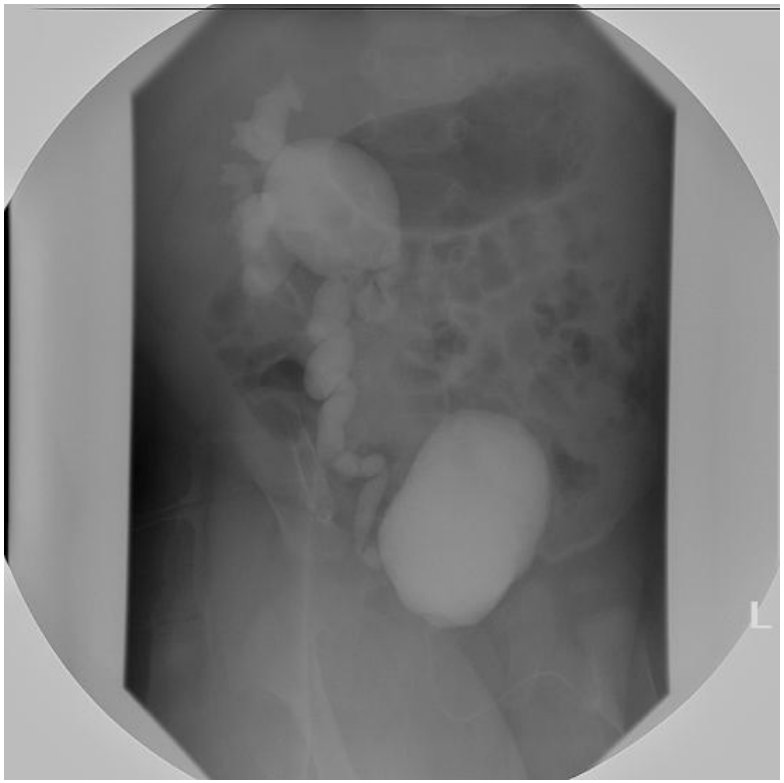
DMSA



MCUG

- Limited study

- Urethra – not visualised



Management

- Single right kidney with high grade Right VUR
- AB prophylaxis

- Breakthrough pyelonephritis

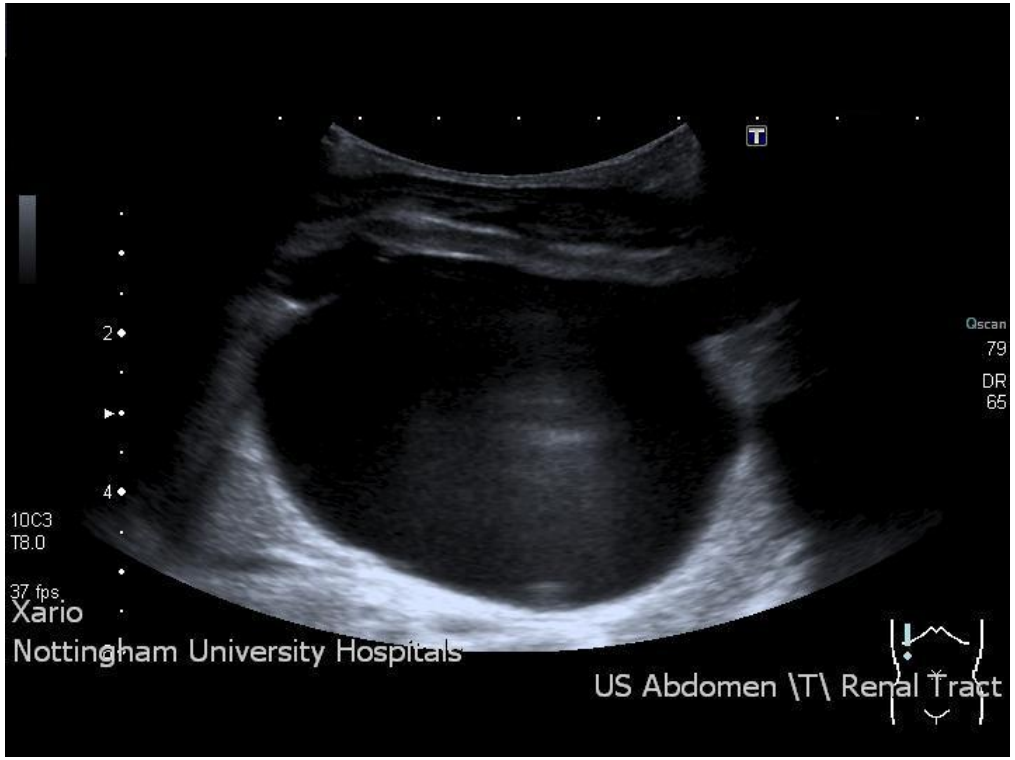
  3 admissions, multiresistant UTI's (Enterobacter, Klebsiella)

Cystoscopy

- Normal urethra
- Large right UO, left UO not identified
- Injection of Deflux
- Circumcision

Case 2

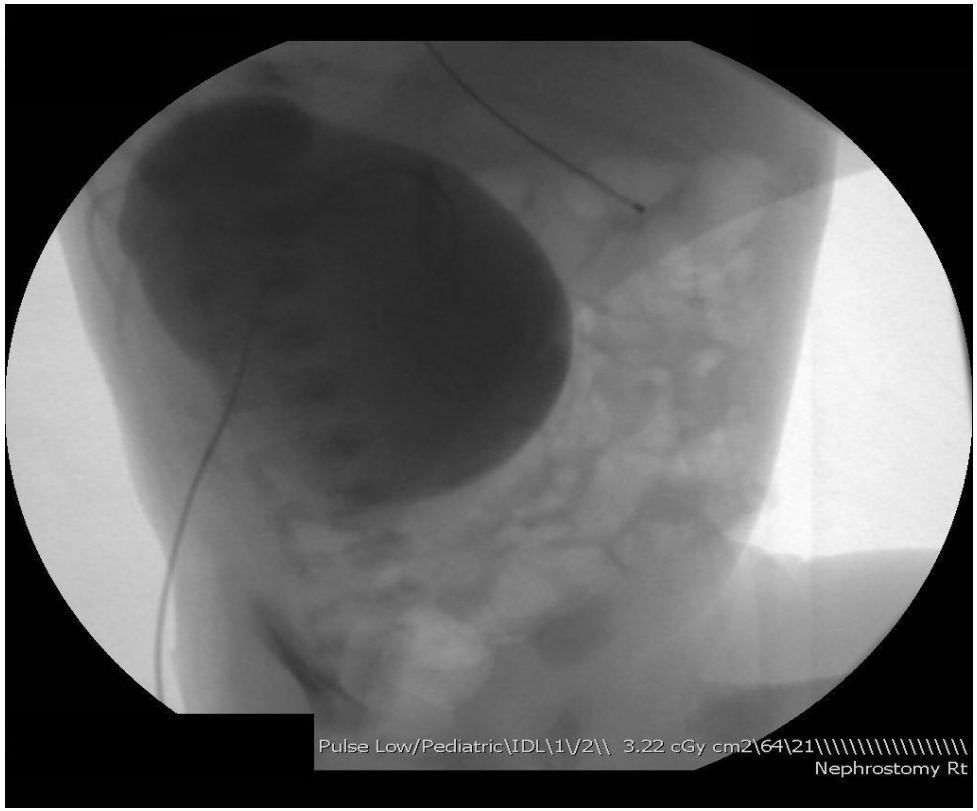
Case 2



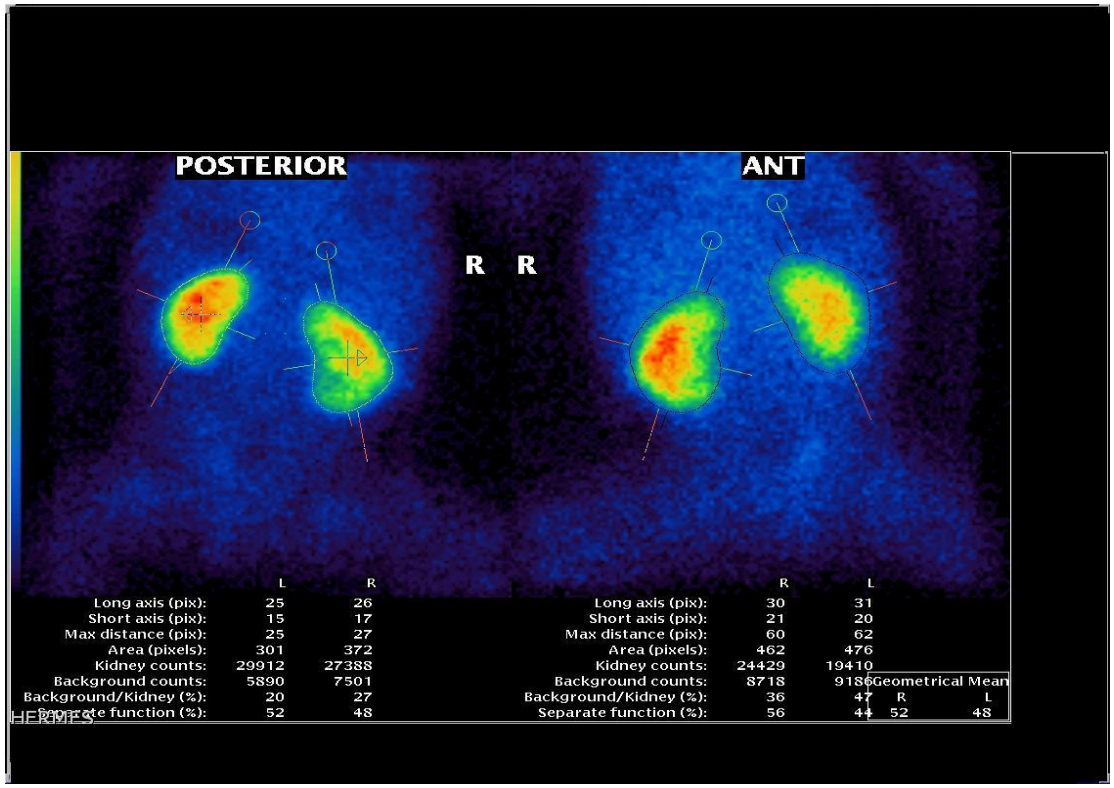
3 day old boy

Antenatal diagnosis of right PUJO

Percutaneous nephrostomy

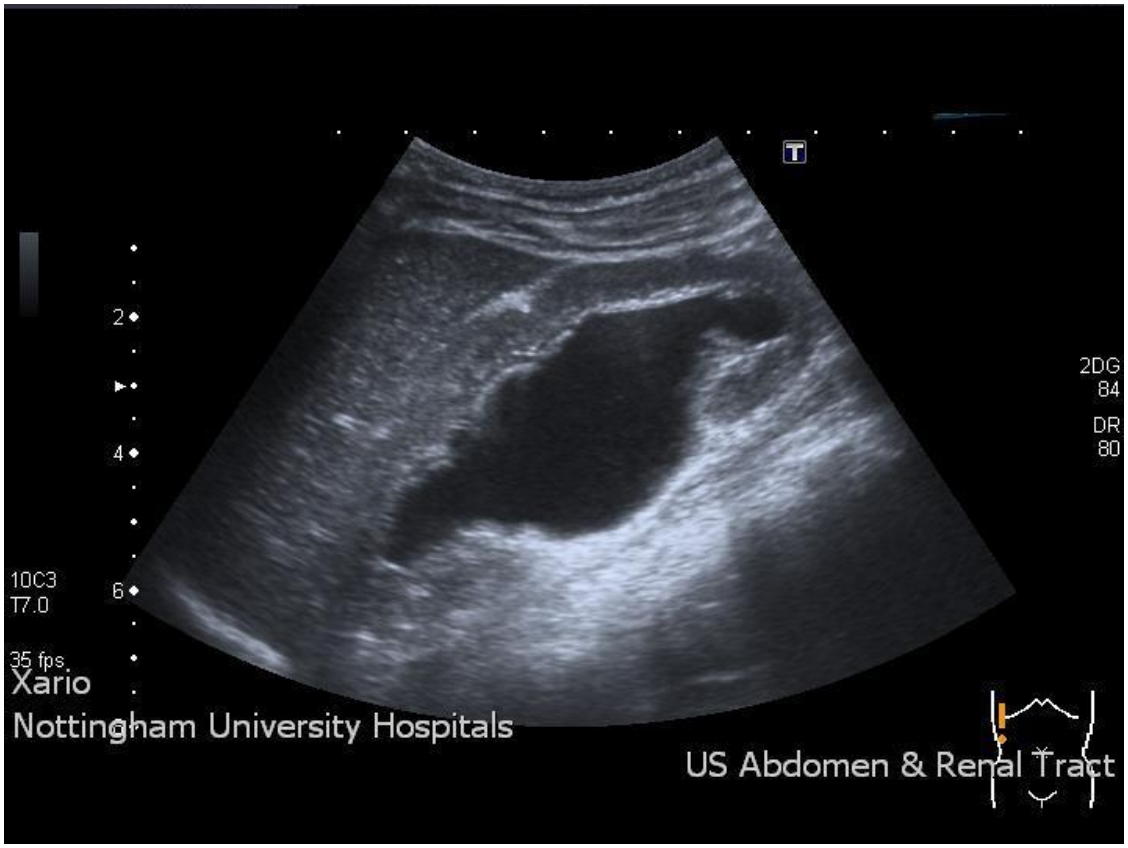


Post nephrostomy insertion



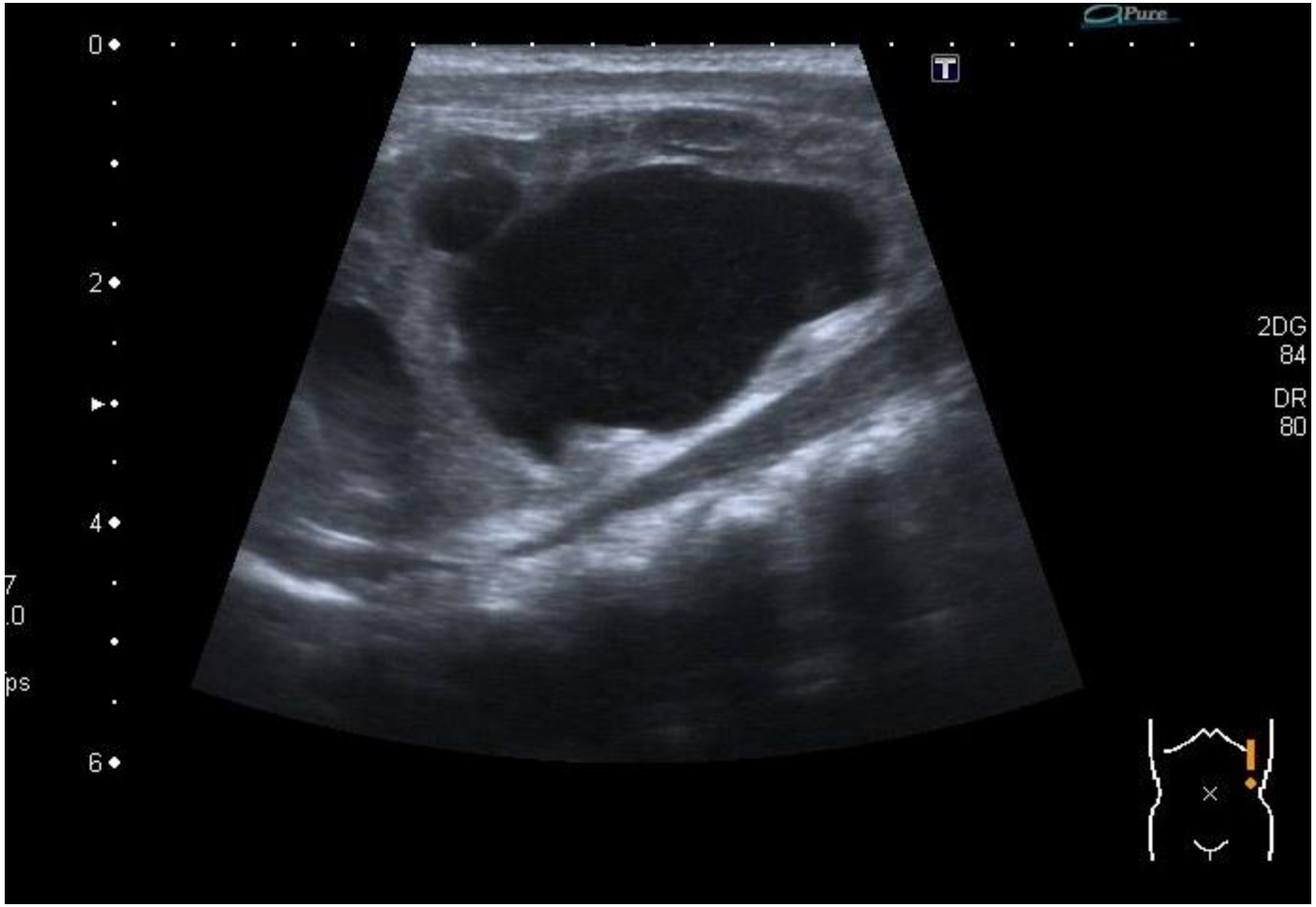
DMSA, Split function RK 52%, LK 48%

Post pyeloplasty



Reduced dilatation, Increased cortical thickness

Case 3


Pure
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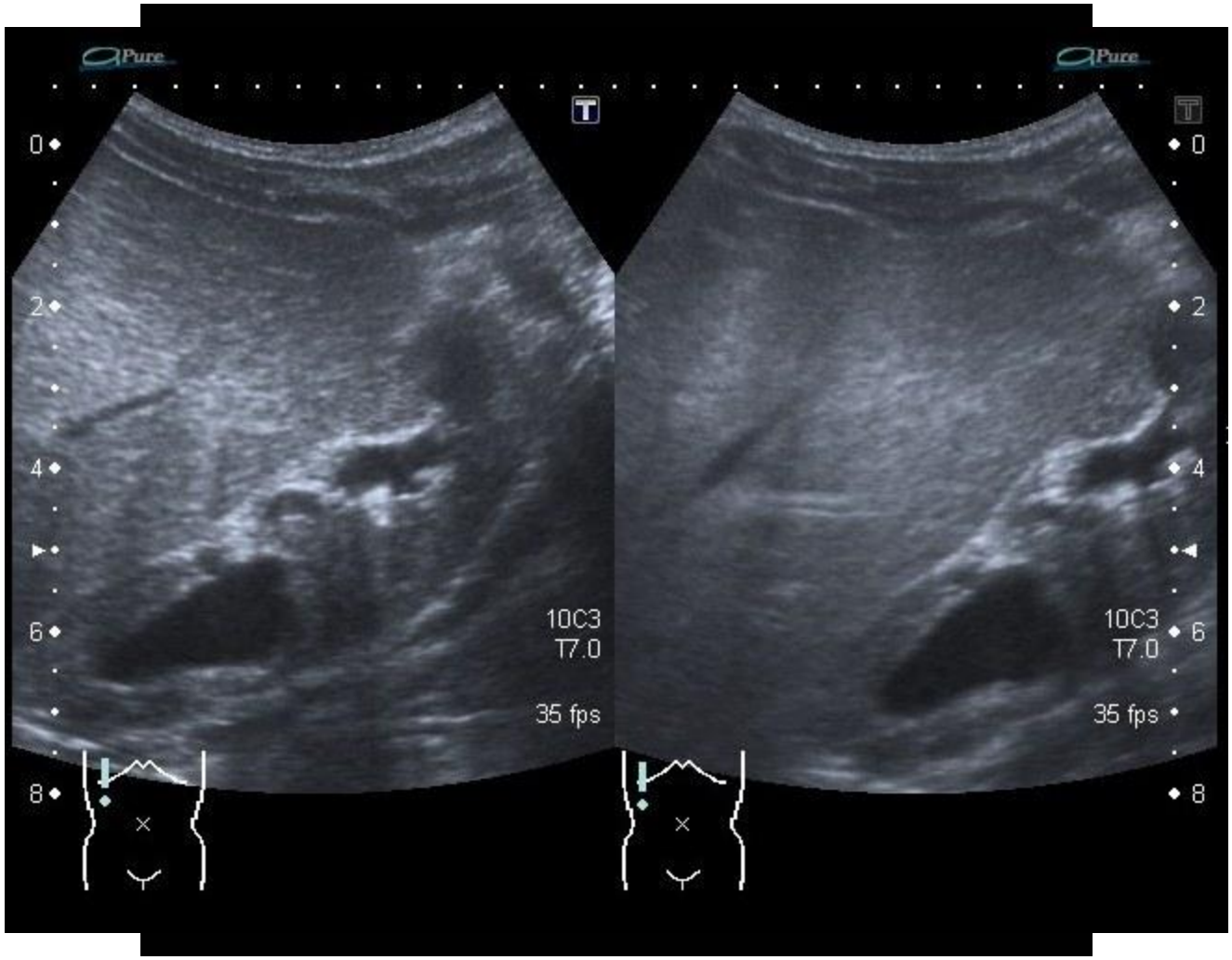
84
DR
80


Pure
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Pure
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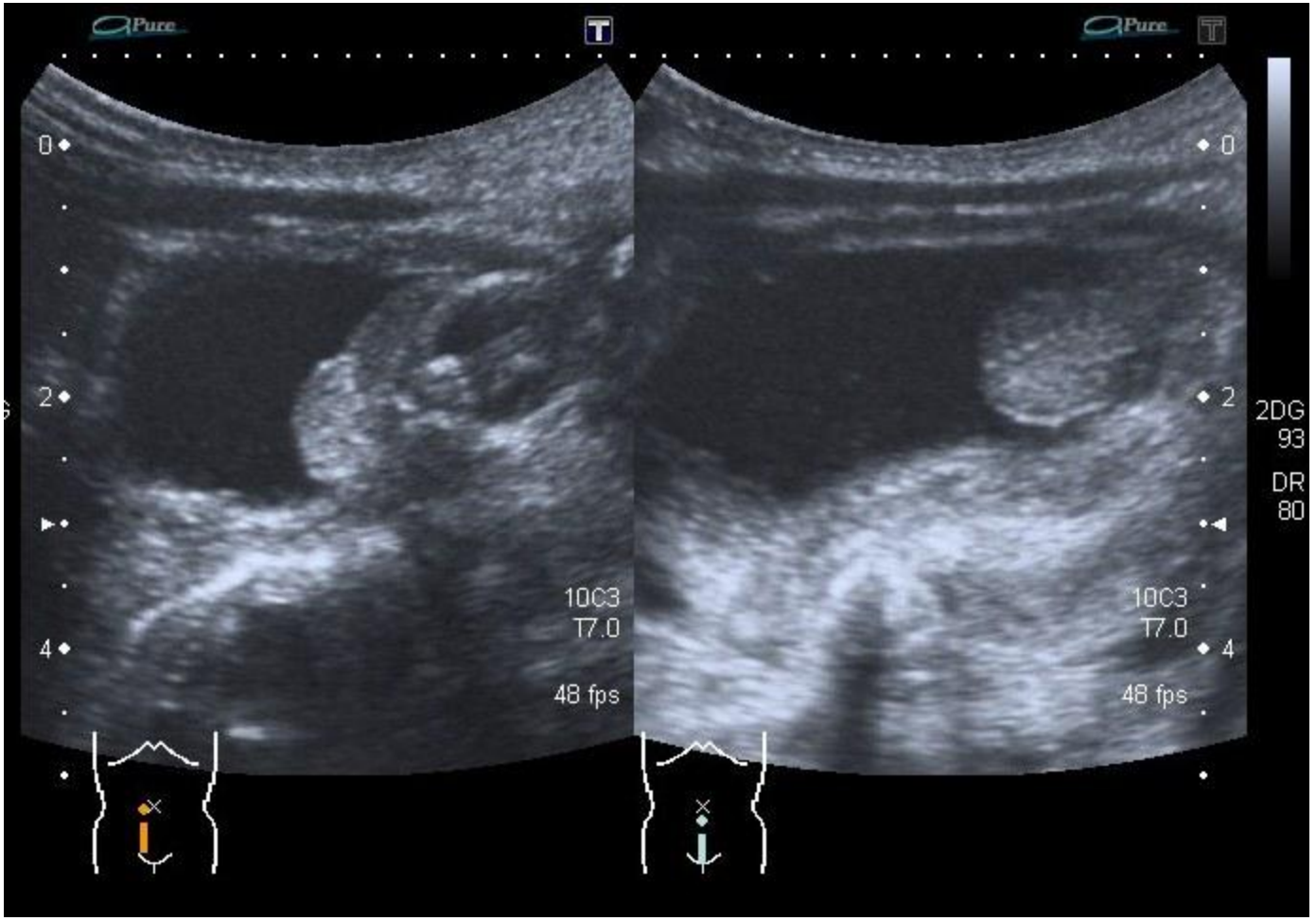
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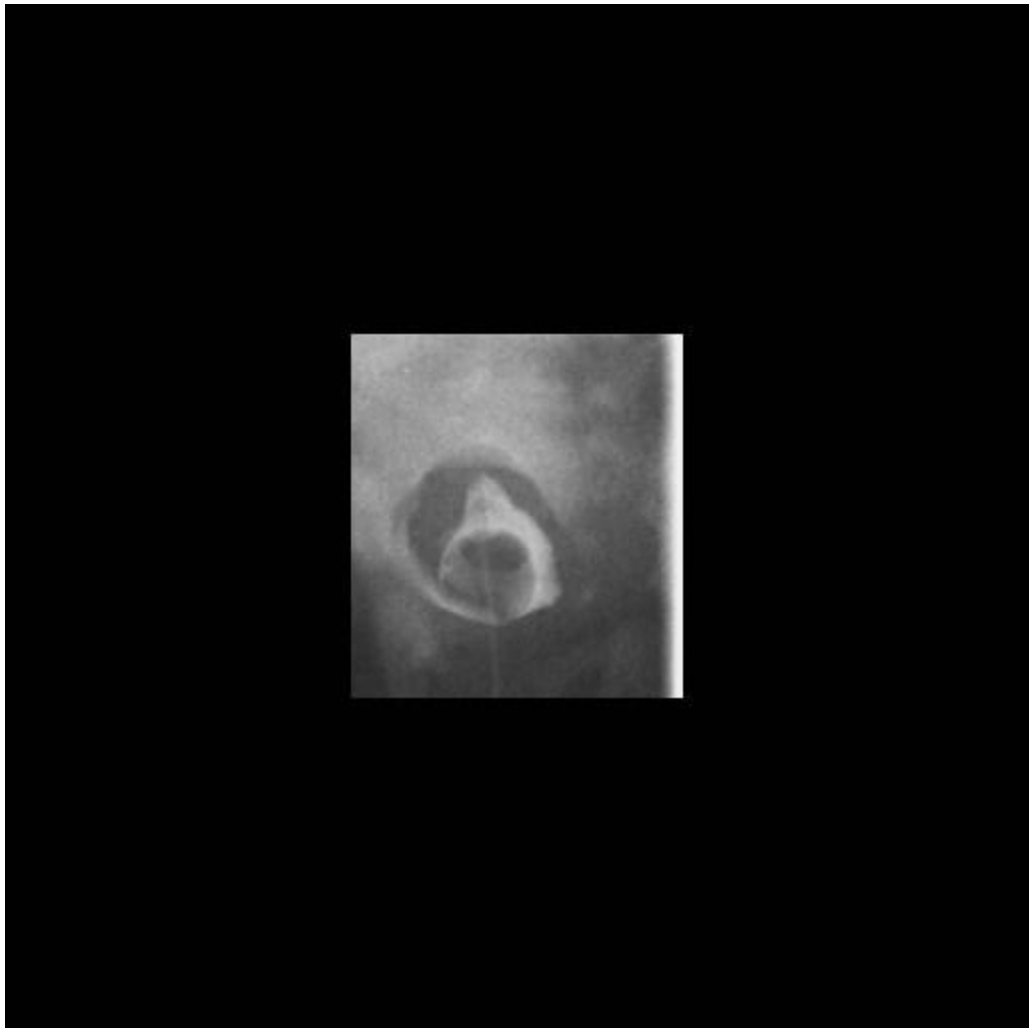
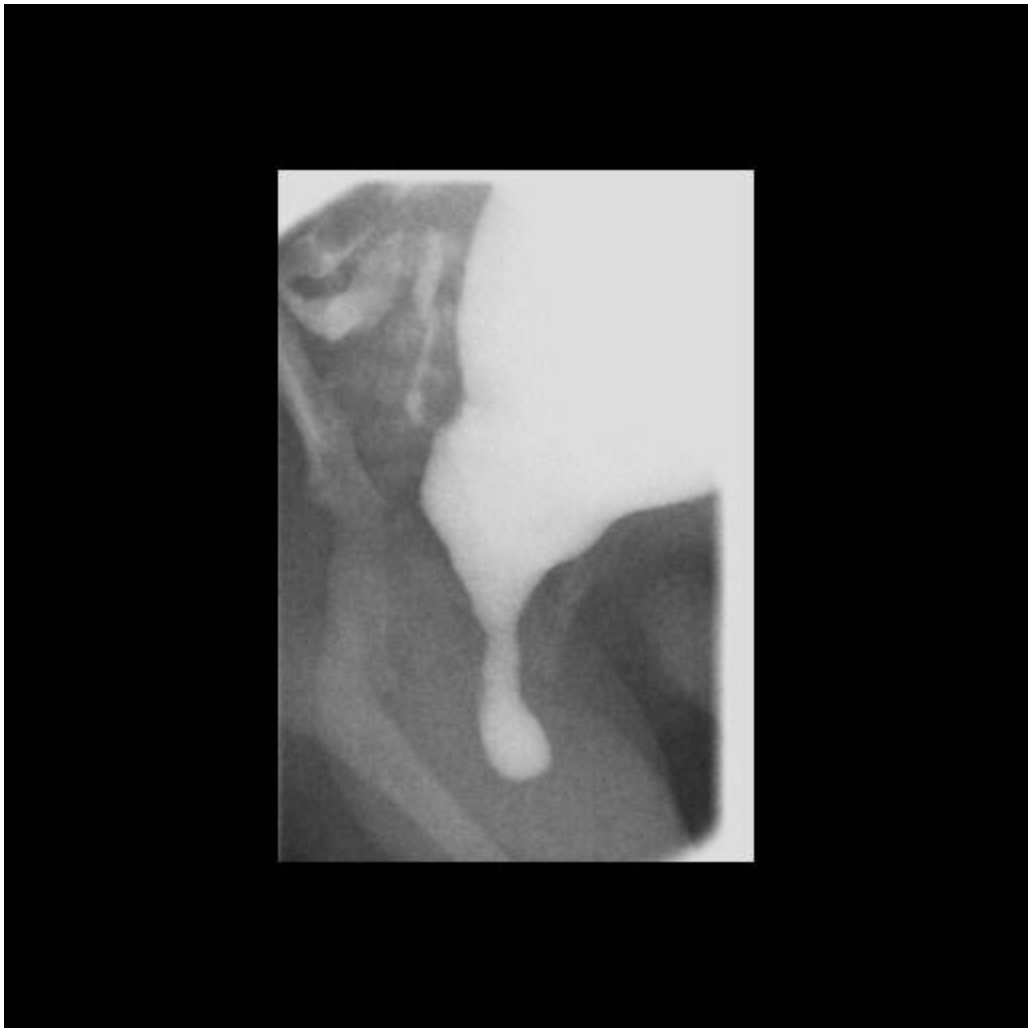
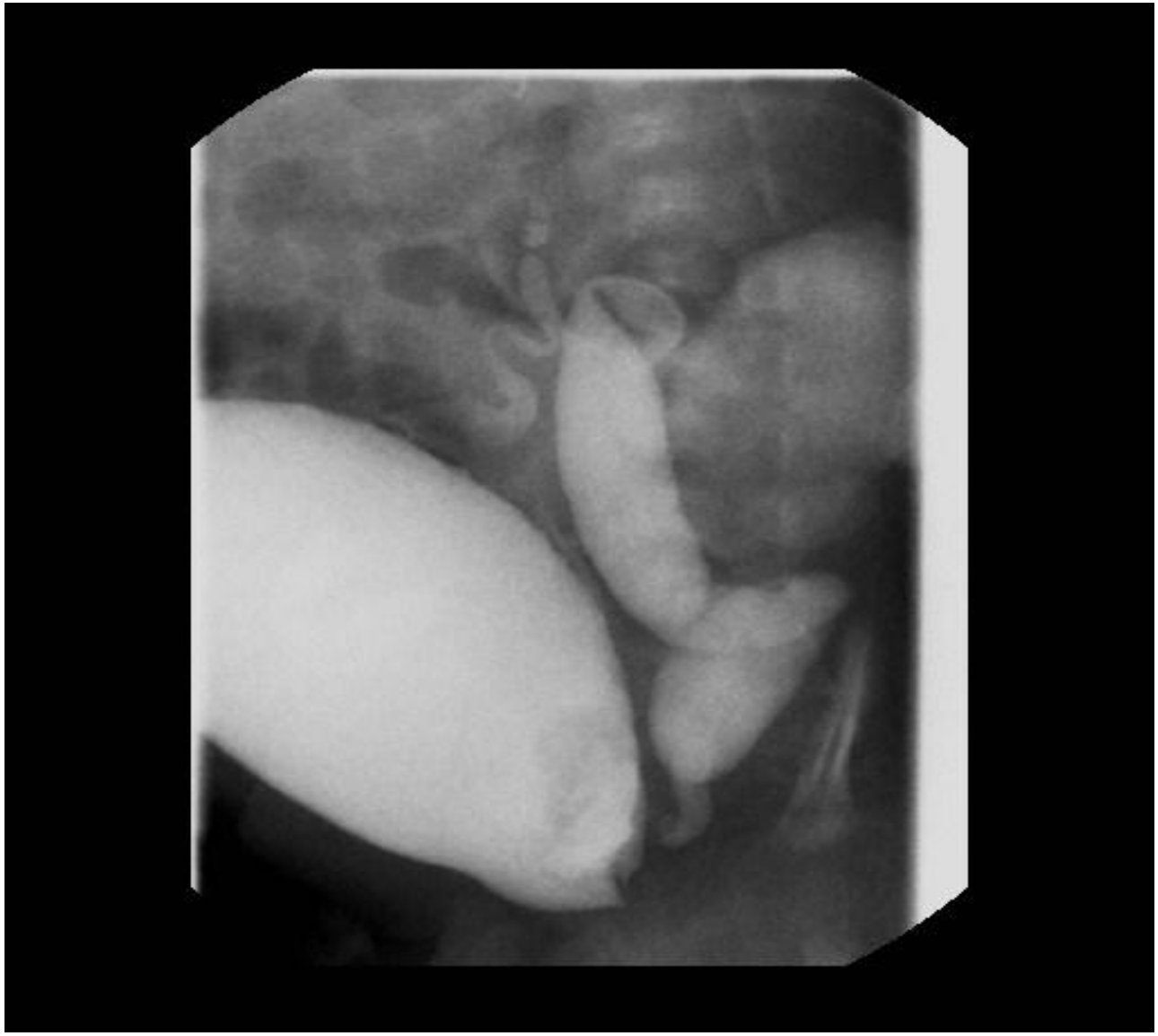




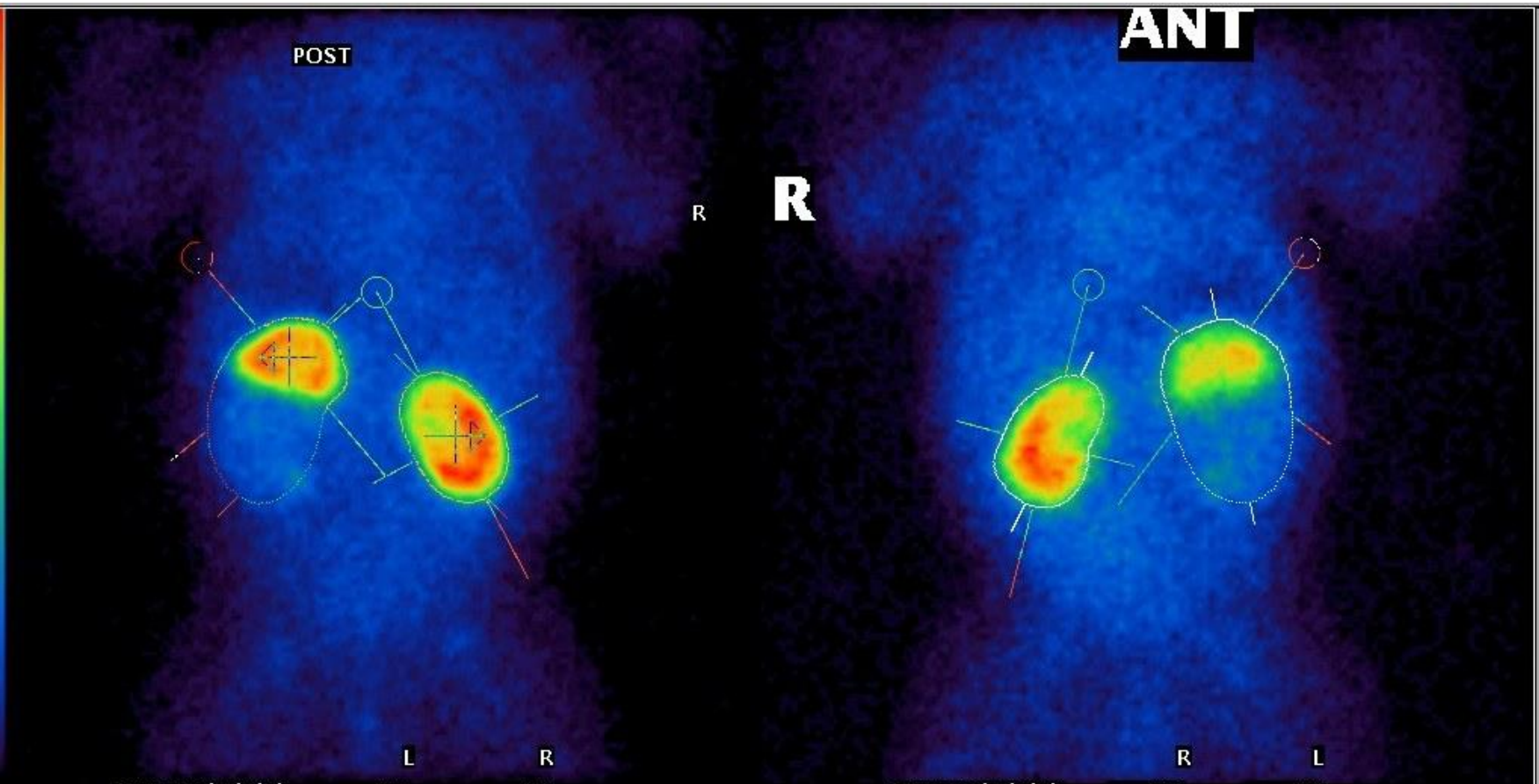


CASE 3

• Bilateral duplex with high grade VUR into left lower pole & right upper pole with ureterocele

•Cystoscopy & puncture of ureterocele – Day 2 of life

•DMSA scan



	L	R
Long axis (pix):	20	25
Short axis (pix):	29	17
Max distance (pix):	34	25
Area (pixels):	581	333
Kidney counts:	30777	36807
Background counts:	16808	11077
Background/Kidney (%):	55	30
Separate function (%):	46	54

	R	L
Long axis (pix):	25	23
Short axis (pix):	16	26
Max distance (pix):	49	66
Area (pixels):	331	587
Kidney counts:	22634	15688
Background counts:	11132	18176
Background/Kidney (%):	49	116
Separate function (%):	59	41

Geometrical Mean	
R	L
57	43

pixel size

backgroud

roi

histogram

Save for database

Filter

CT: 6 LT: 0 0 100 UT: 100 0 100

CASE 3

- Numerous admissions with febrile UTIs

- Left lower pole partial Nephro-ureterectomy – 6 months of age

- Thriving

- Has had few UTIs after stopping prophylaxis – Repeat Inv. Confirmed VUR Rt lower pole – Deflux inj. to correct – 17 months of age

- Follow-up : 2 years & 9 months

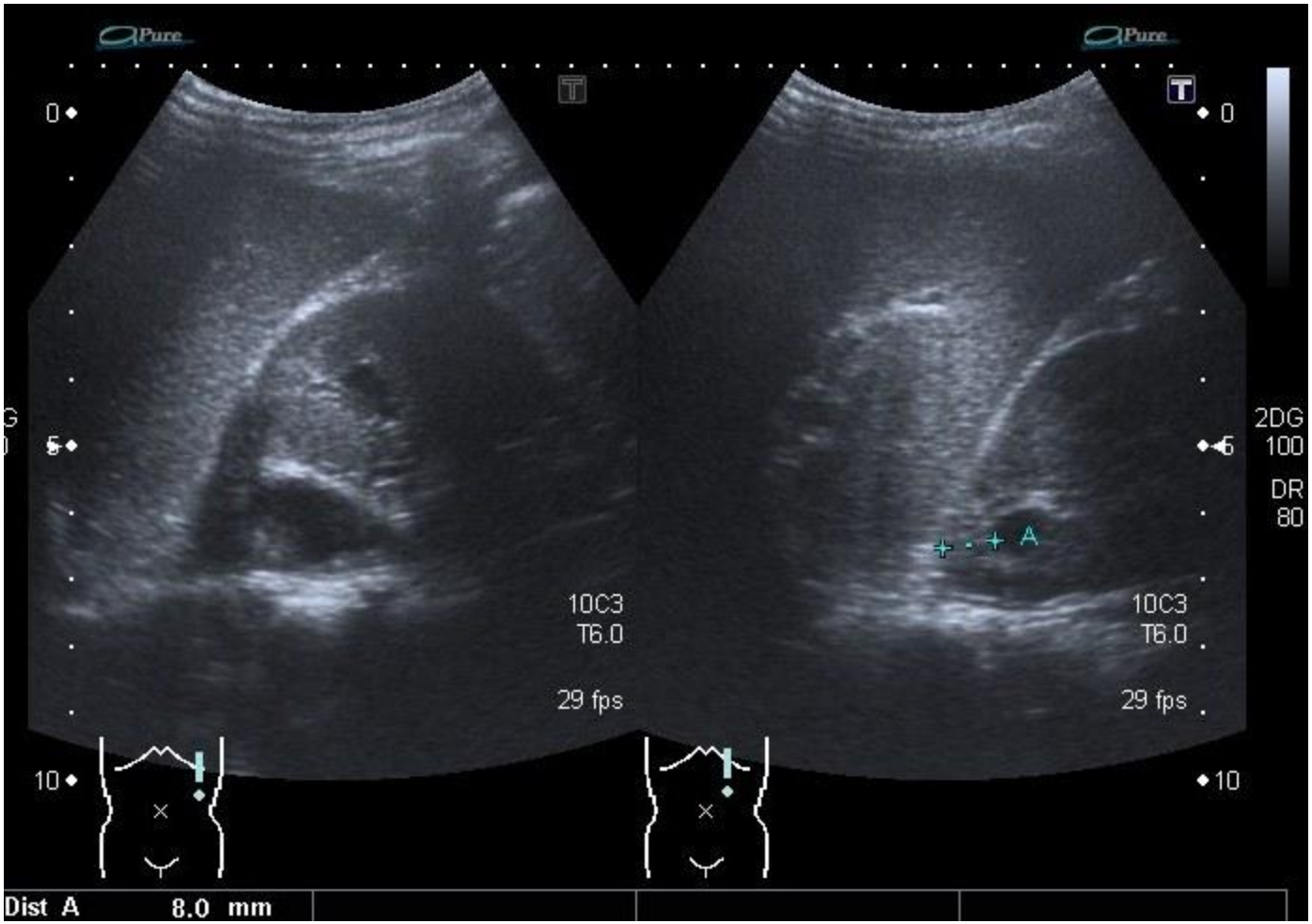
Case 4

CASE 4

- Antenatally detected Left Duplex kidney with poor function in left upper pole

- Presented at 4 years of age with dribbling incontinence

- Investigations


Pure
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10C3
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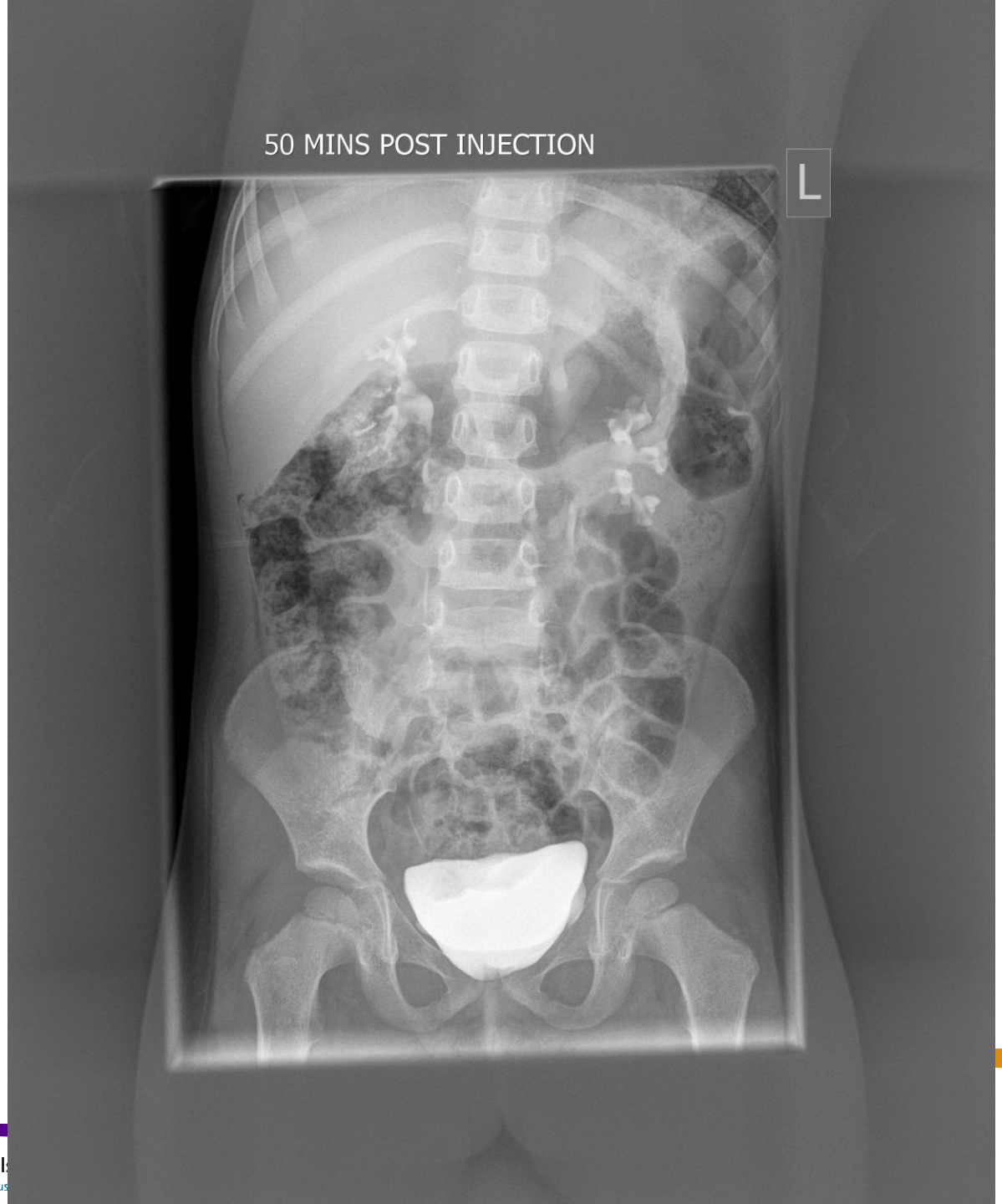
Dist A 8.0 mm


50 MINS POST INJECTION
L

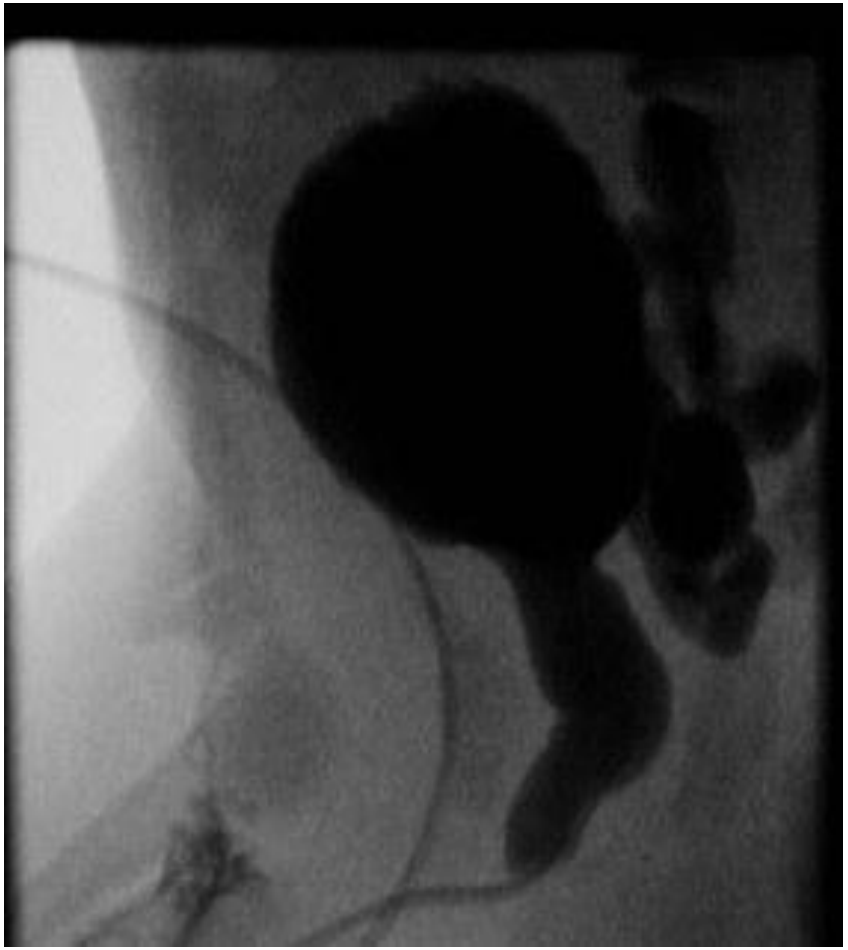
CASE 4

- Options:

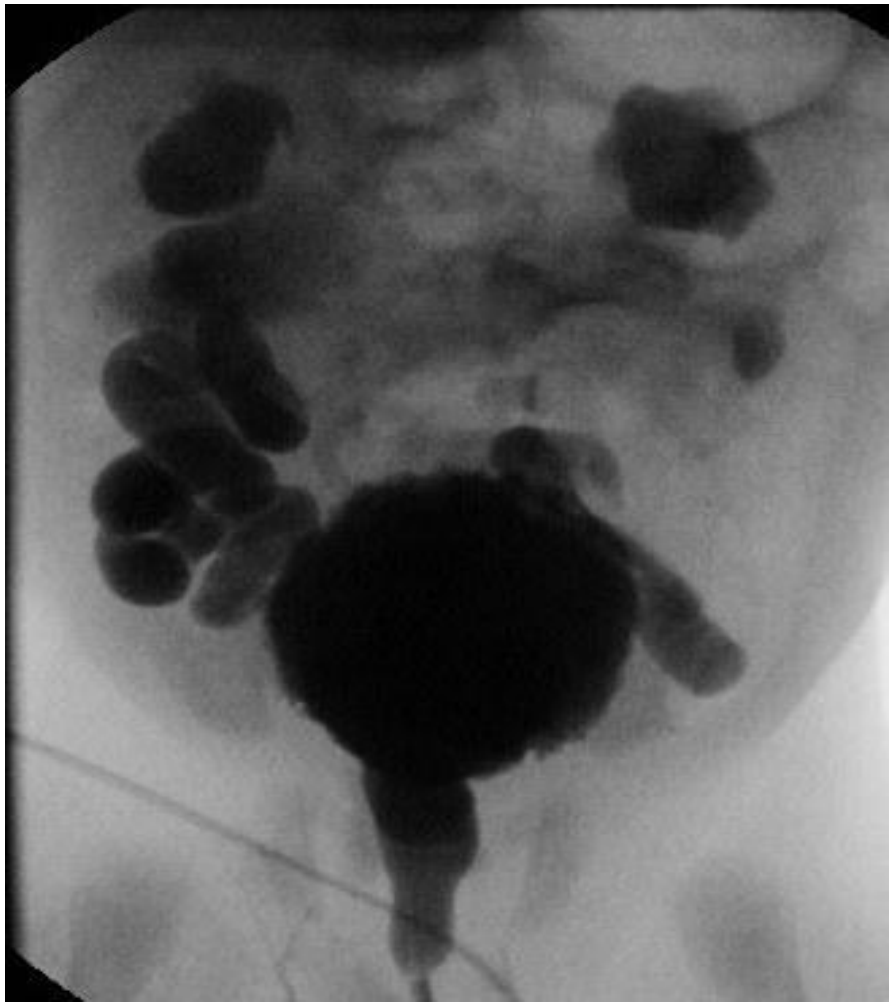
a. Laparoscopic Left upper pole partial Nephroureterecetomy

b. Laparoscopic Ligation and division of Left upper pole ureter

Posterior urethral valves



Posterior urethral valves

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Thank you