

URETERIC ADVENTURES

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CASE 1

57 yr old female complaining of

Right flank pain : 6 months

Dysuria : 15 days

o/h/o Tubectomy 33 yrs back

o/h/o Laminectomy 2 yrs developed DVT of left leg on $15^{\rm th}$ post op day , IVC filter insertion done

Patient was on warfarin for 1.5 yrs

Known case of hypothyroidism since 2 yrs on Eltroxin 25 microgram

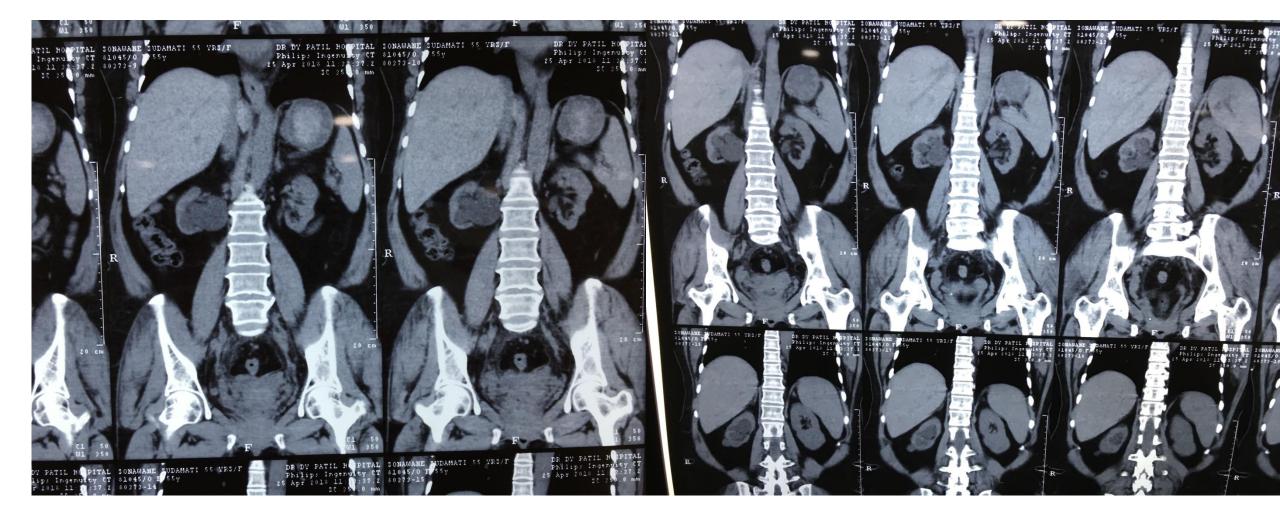
IMAGING

CT KUB

• RK: 7.84*3.9*3.4 cm

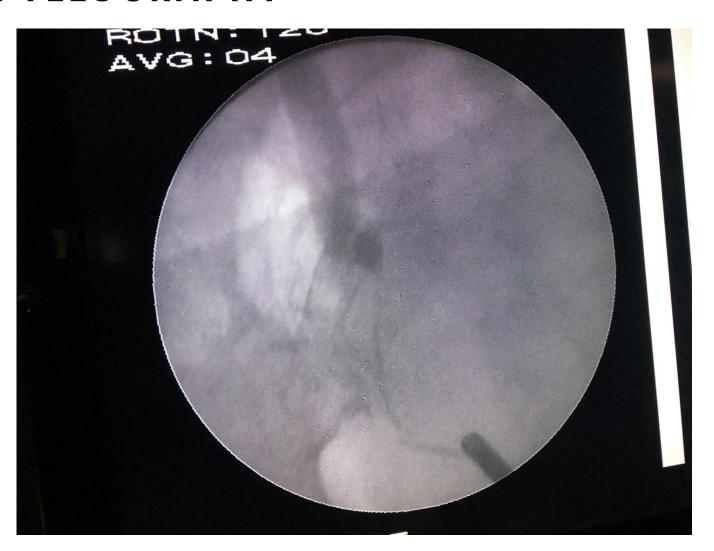
LK: 8.8*4.8*4.2cm

- Gross hydronephrosis noted on right side with hydroureter seen upto the level of iliac vessels crossing.
- Urinary bladder partially distended and shows mildly thickened walls. No calculi seen in urinary bladder.
- IVC filter noted



CYSTO RETROGRADE PYELOGRAPHY

DYE INJECTED INTO URETER FROM LOWER END WITH CYSTOSCOPE IN BLADDER

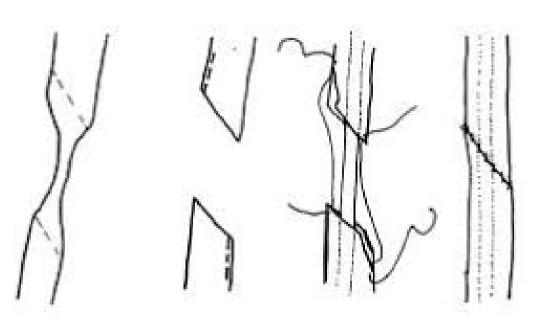


- Primary repairing primarily
- Ureterostomy taking ureter out on abdomen
- Trans-Ureteroureterostomy one ureter to the other side ureter

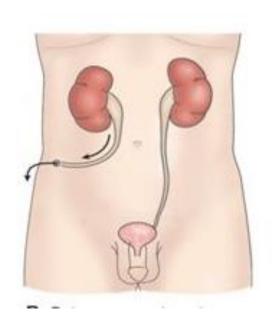


- Primary repairing primarily
 - For short segment defects
 - End to end anastomosis
 - ❖Good results
 - ❖ Limited use

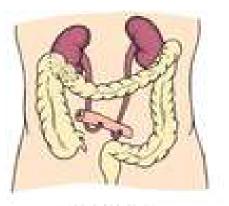




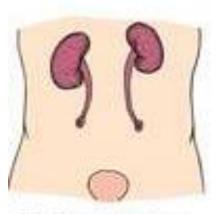
- Ureterostomy taking ureter out on abdomen
 - ❖Complications- skin excoriation, stoma bag, etc
 - ❖ Definitive 2nd surgery,
 - incontinent/continent
 - Terminal ill,
 - ❖Last resort



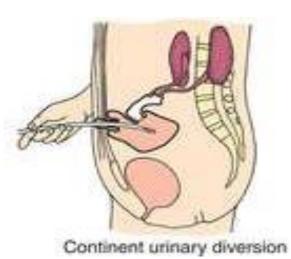




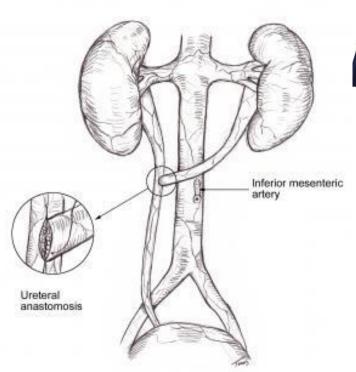




Double ureterostomy



- Trans-Ureteroureterostomy one ureter to the other side ureter
 - ❖Should be able to reach,
 - Reflux to other kidney,
 - Though easy,
 - ❖Not possible if Proximal length less





BOARI FLAP



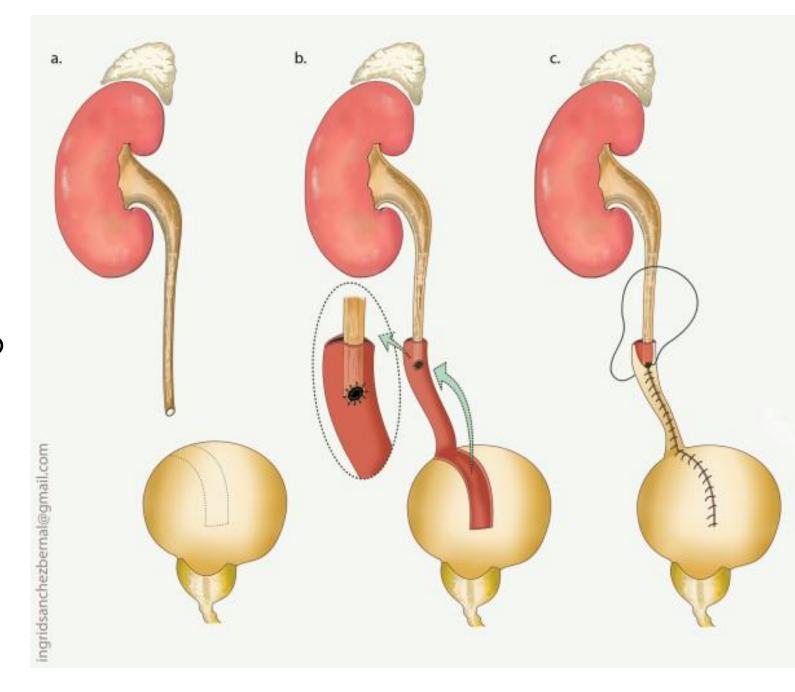
BOARI FLAP

POSTEROLATERAL FLAP OF BLADDER WALL ON SUPERVESICAL ARTERY

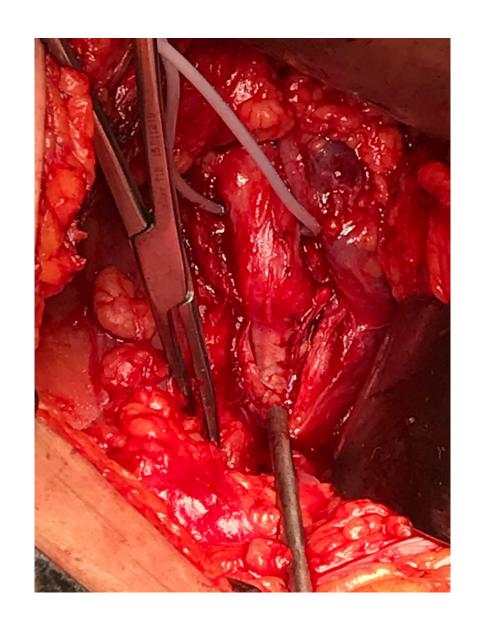
URETER ANASTMOSED END TO SIDE

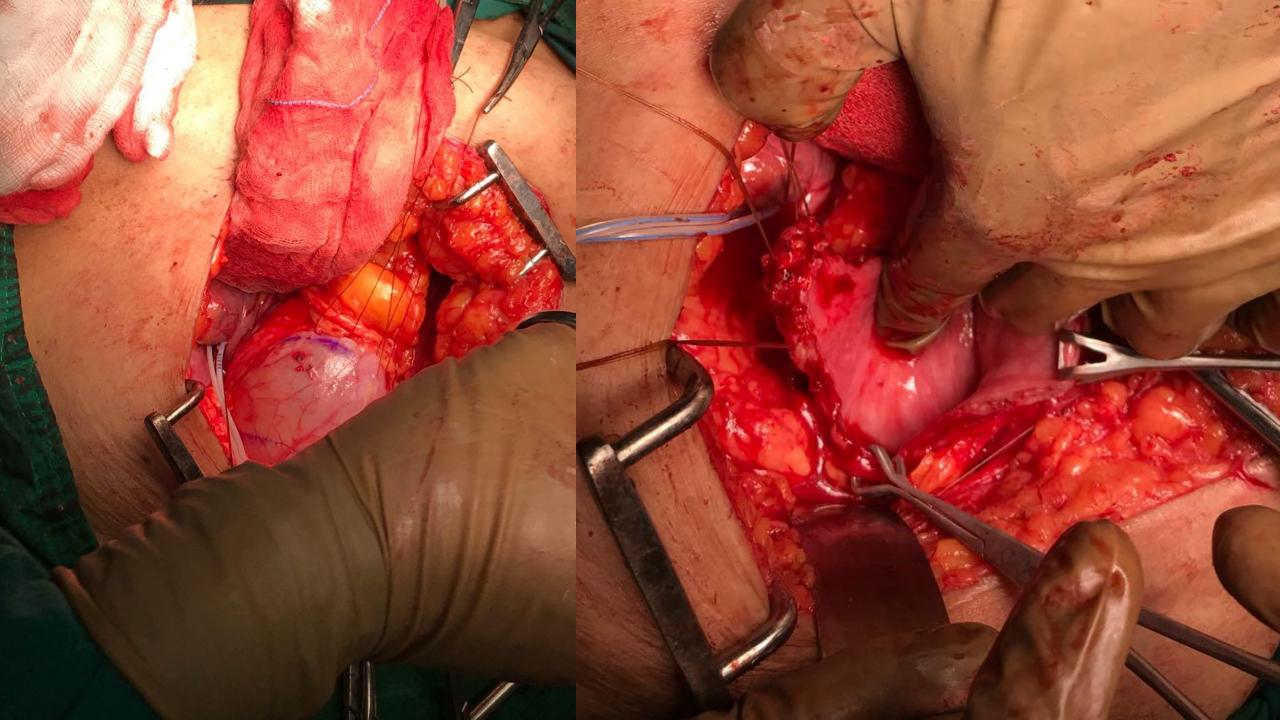
FLAP CLOSED AS A TUBE

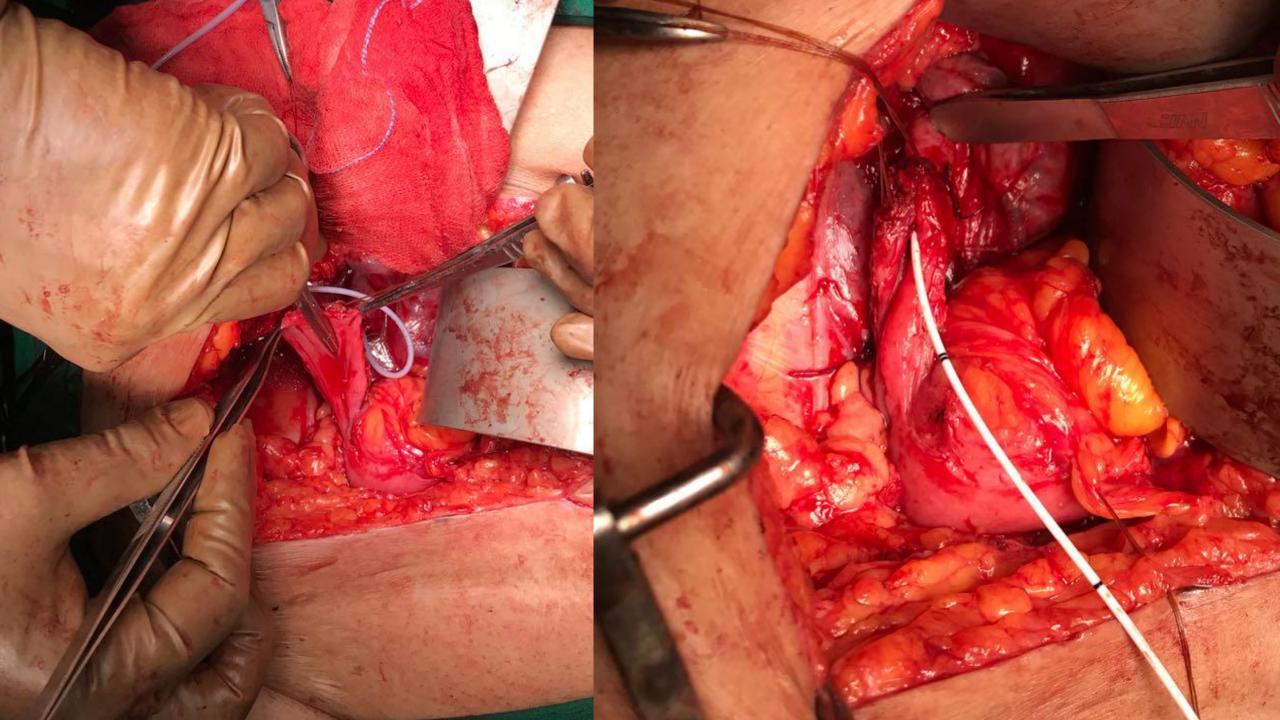
ONE STAGE DEFINITIVE
MANAGEMENT FOR LOWER
THIRD STRICTURES

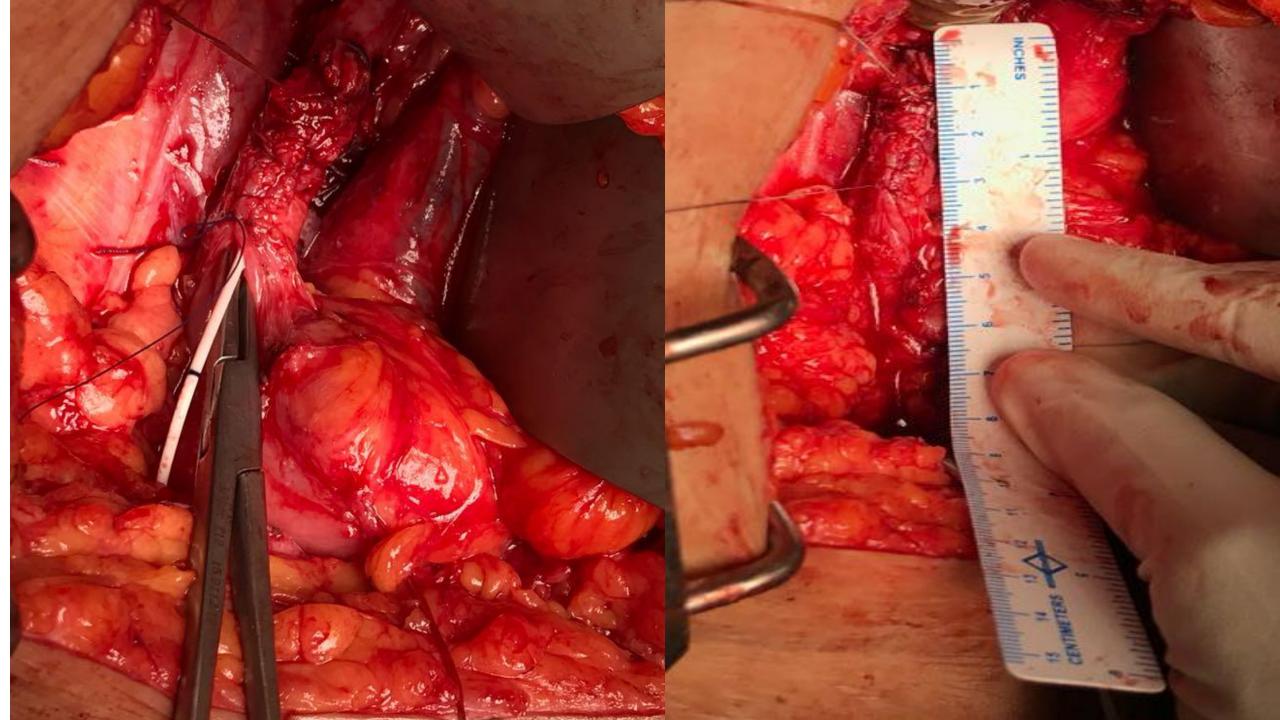


FIBROSED DISTAL URETER









CASE 2

HISTORY

- •A 60yr old female presented to us with right flank pain, nausea, vomiting, with fever on & off associated with chills
- •Patient had history on undergoing a URETEROSCOPIC LITHOTRIPSY for a ureteric stone (Feb 2018) following which she was stented and DJ stent removal was 1 month later (March 2018).
- •1 month after stent removal she came to the OPD (April 2018) with the above complaints
- Patient had no comorbities
- •USG SHOWED PYONEPHROSIS AND HENCE PER CUTANEOUS NEPHROSTOMY WAS PUT INT RIGHT KIDNEY TO DRAIN THE PUS

FURTHER IMAGING

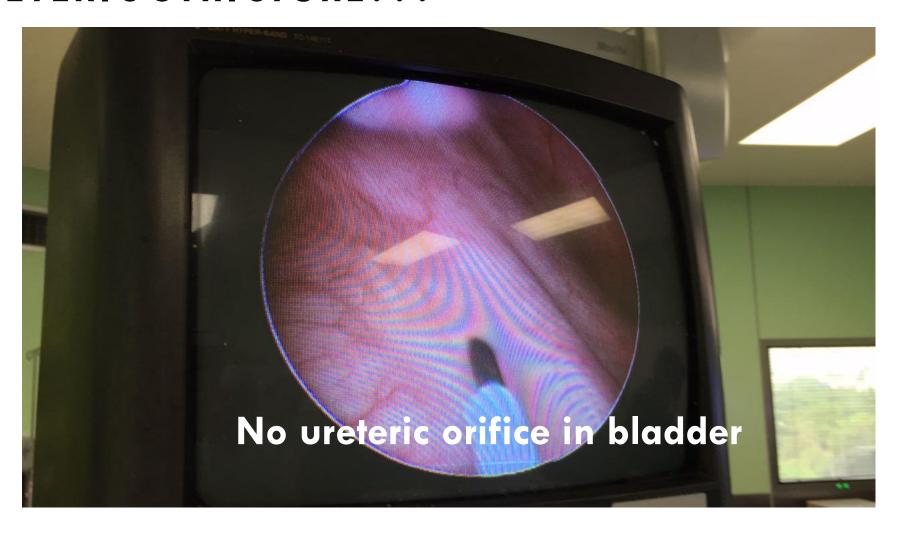
CECT abdomen

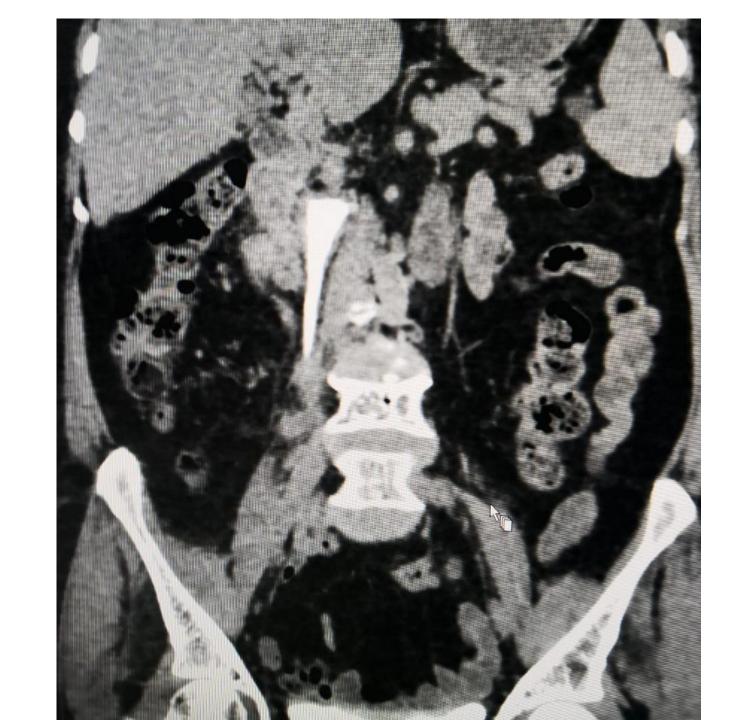
- Nephrostomy tube in situ with its tip at pelvis
- Right kidney shows mild fat stranding likely post operative/infective
- Mild fullness shown on right collecting system
- Distal ureter not visualized

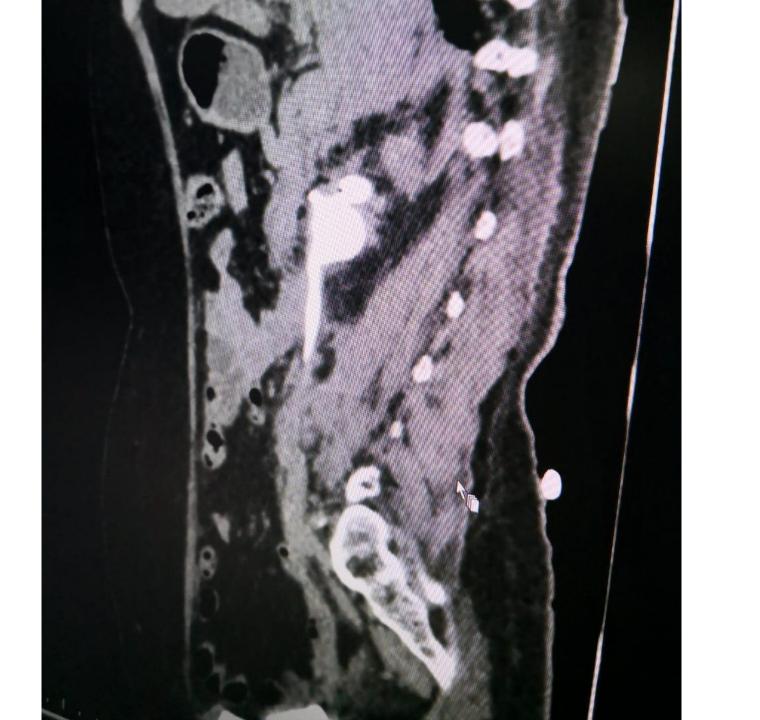
Cysto- RETROGRADEPYELOGRAPHY planned

- LEFT UV ORIFICE NORMAL, RIGHT URETERIC ORIFICE COULD NOT BE SEEN ? SCAR TISSUE OVER THE AREA OF RUGHT VUJ
- METHYLENE BLUE INJECTED THRU PCN . DYE NOT COMING TO BLADDER

URETERIC STRICTURE???









URETERIC STRICTURE???

Patient was posted for open surgery with a working diagnosis of ureteric stricture

Modified Gibson incision taken, Abdomen opened up

URETER IDENTIFIED AS FIBROUS BAND WITH NO PALPABLE LUMEN AND ADHESIONS PRESENT WITH THE SURROUNDING STRUCTURES

Dissection done from surrounding tissue till proximal normal end reached which was 3cm from PUJ

- Primary repairing primarily
- Ureterostomy taking ureter out on abdomen
- Trans-Ureteroureterostomy one ureter to the other side ureter
- ❖ Boari's Flap- for lower third strictures

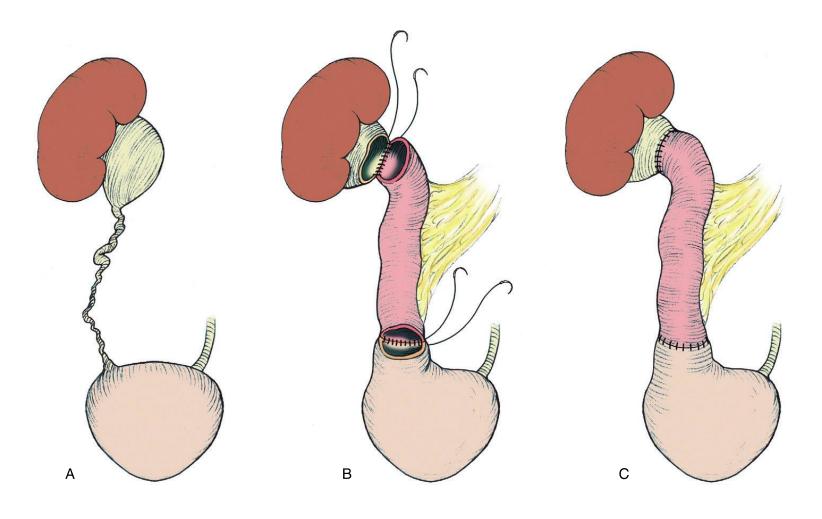


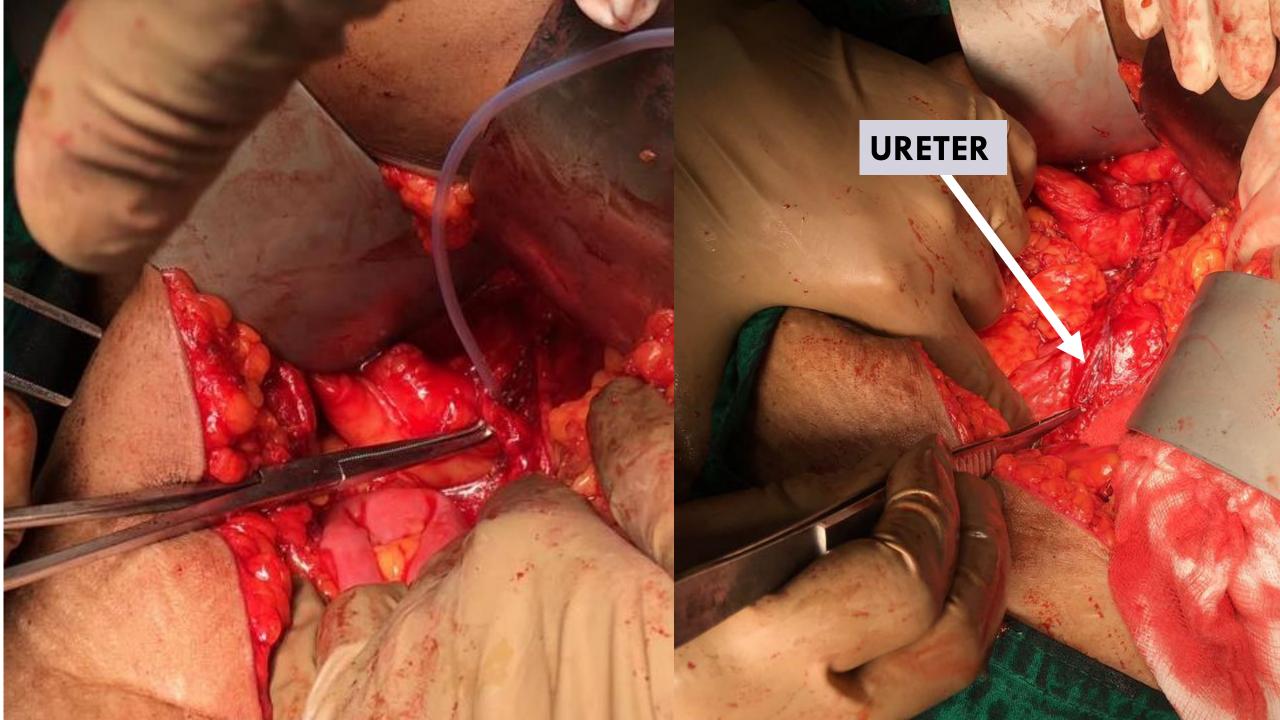
ILEAL TRANSPOSITION

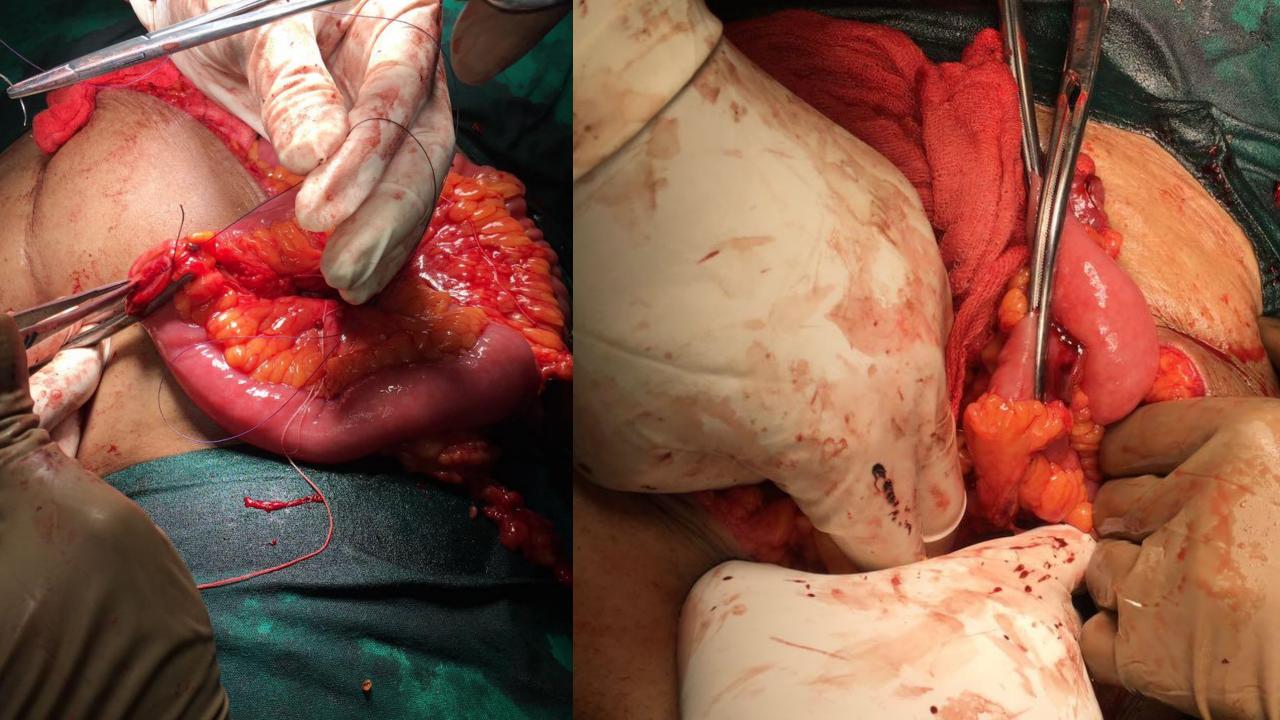


ILEAL TRANSPOSITION

- ❖ lleal segment was identified resected and transposition of 20cm of ileum segment was done
- Proximal end of bowel with ureter as end to side anastomosis and distal end to bladder's post lateral wall (Isoperistaltic anastomosis and non reflexing anastomosis)



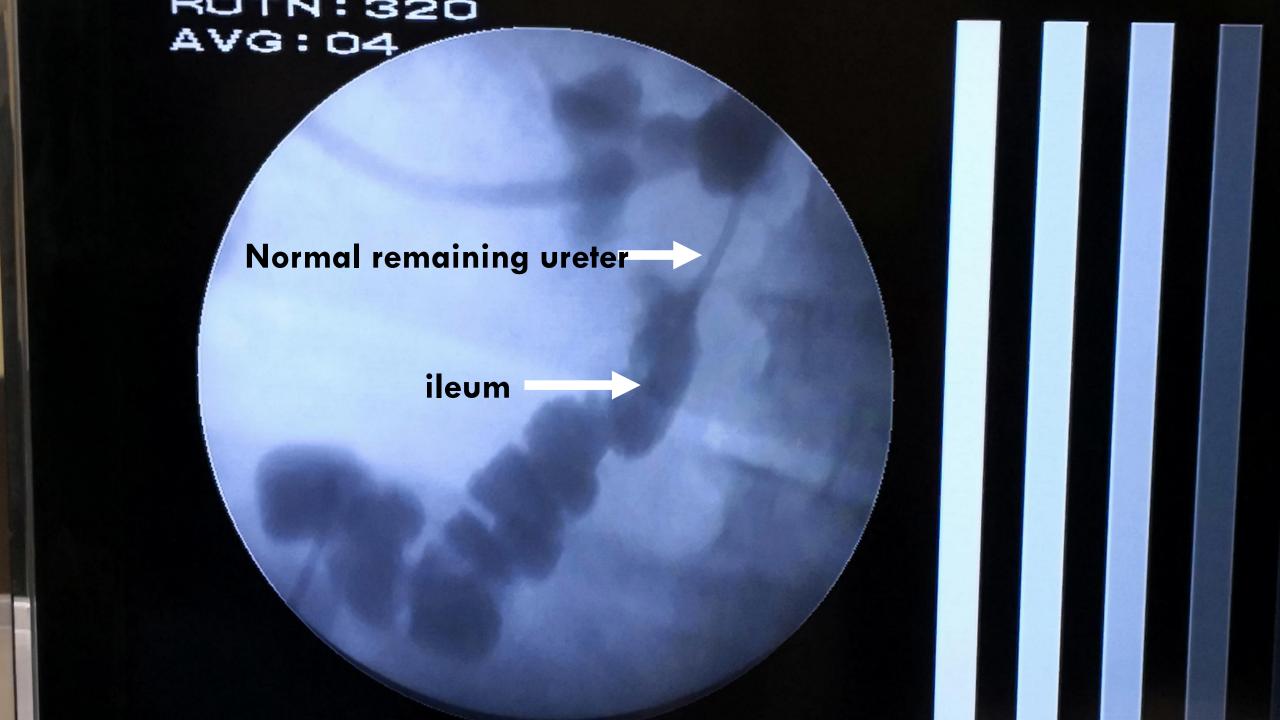


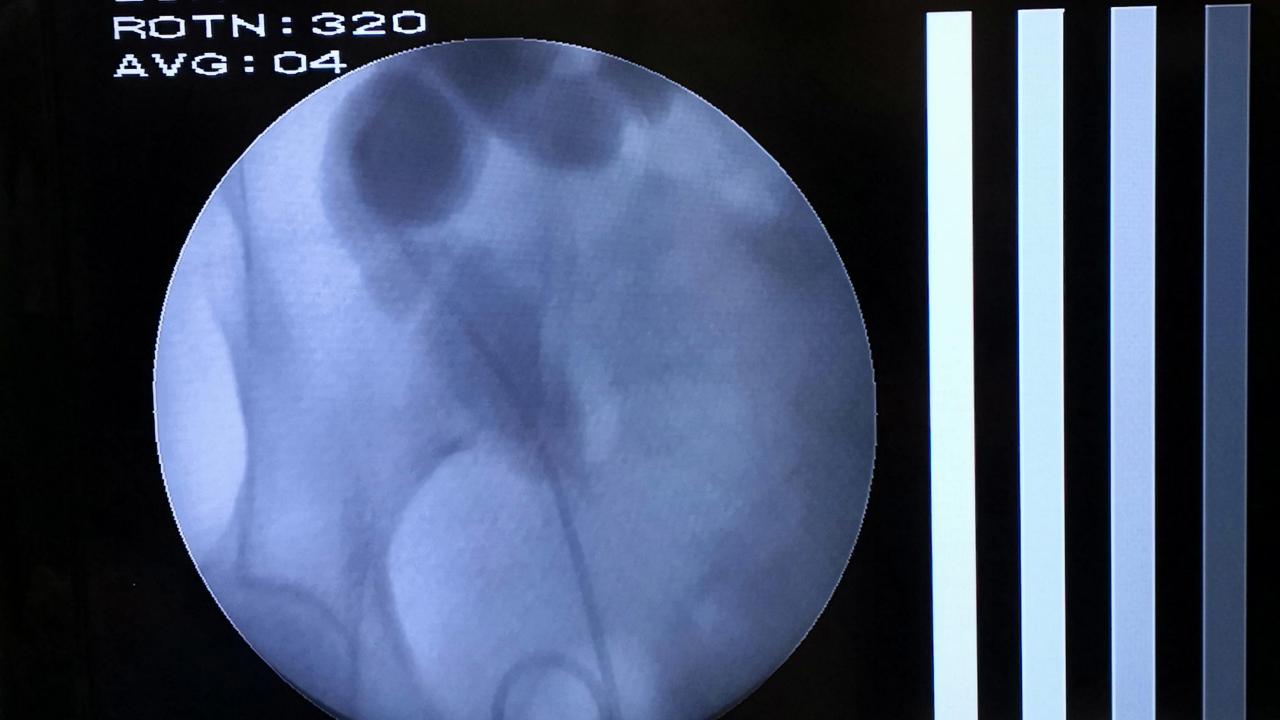


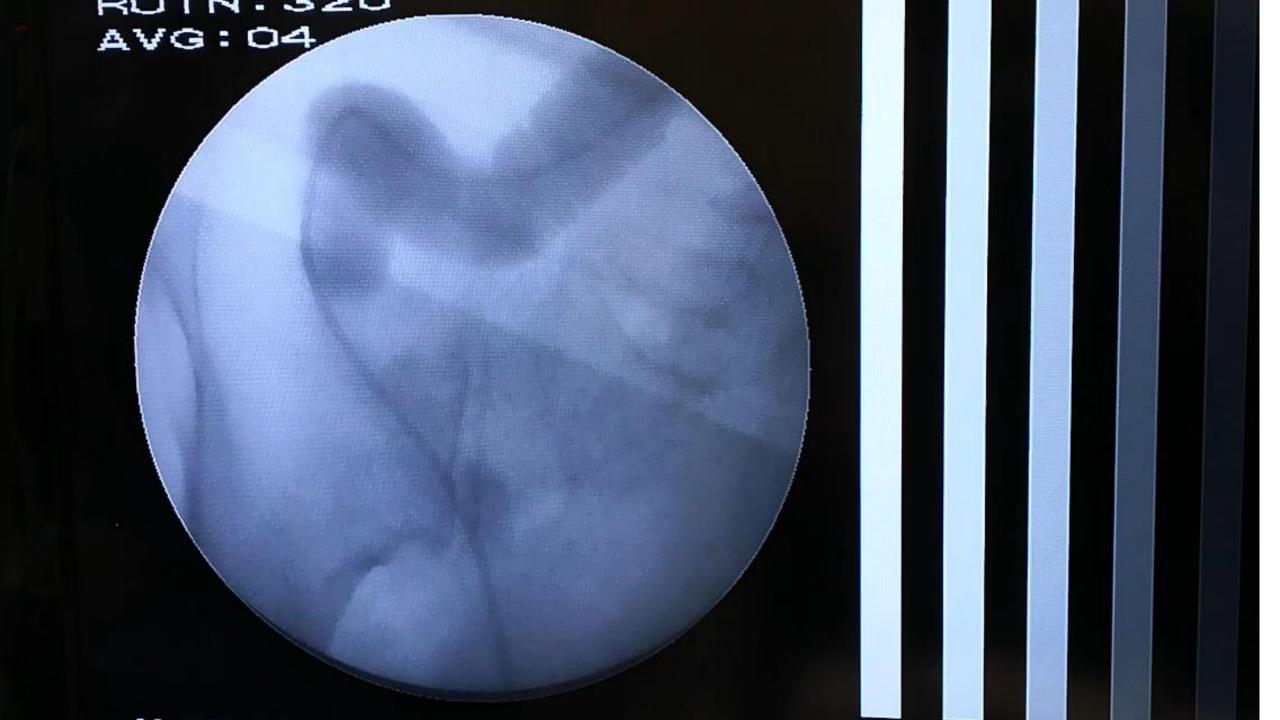


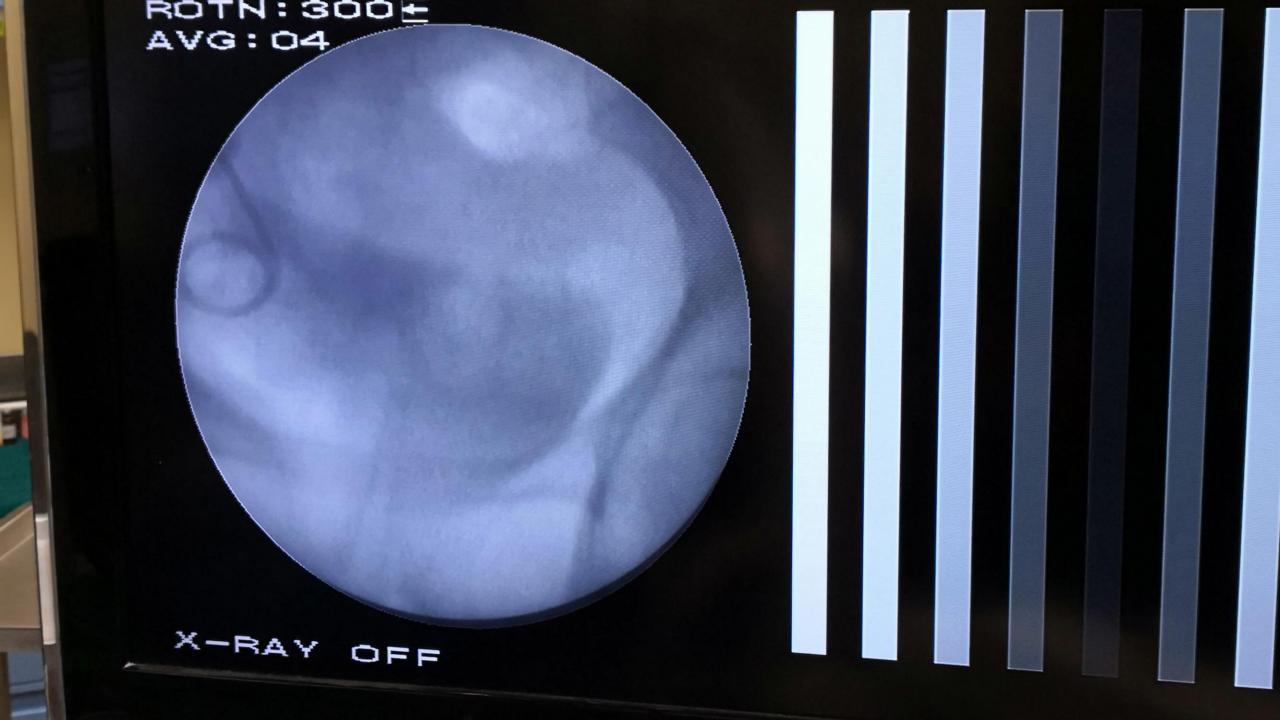


Nephrostogram post surgery 1 month- dye injected from the PCN









CASE 3

THE CALL

On Saturday 1230 PM we got a call from a surgery resident that they need us to look into a case they were operating.

A Sigmoid tumor (probably GIST) with ureter encasement and while removing the same a segment of ureter had to be removed.





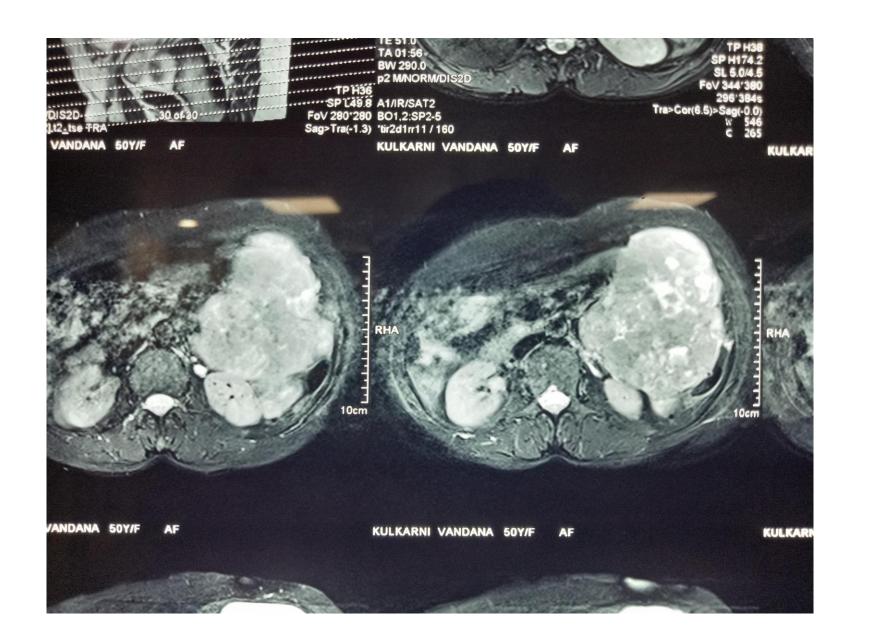
CASE HISTORY

A 51 yr old female with complaints of pain lower abdomen and history of gradually increasing swelling in the abdomen for the past 1.5 months

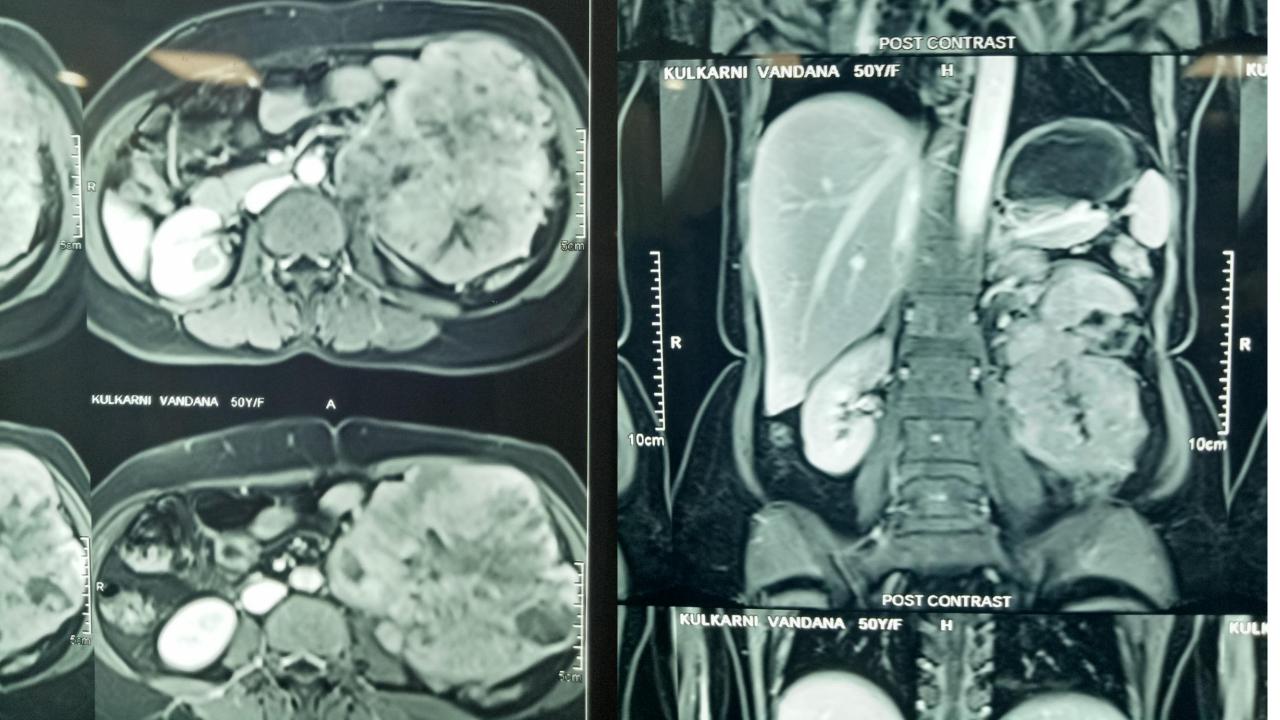
No associated comorbidities

P/A a 15cmx15cm mass felt at the LIF, irregular, solid, nontender, not mobile, extending to left lumbar and hypogastrium

MRI Suggestive of Mesenchymal/Stromal tumor ?? GIST- Gastrointestinal stomal tumor of size 12cmx12cm causing mass effect on ureter and hydro nephrosis

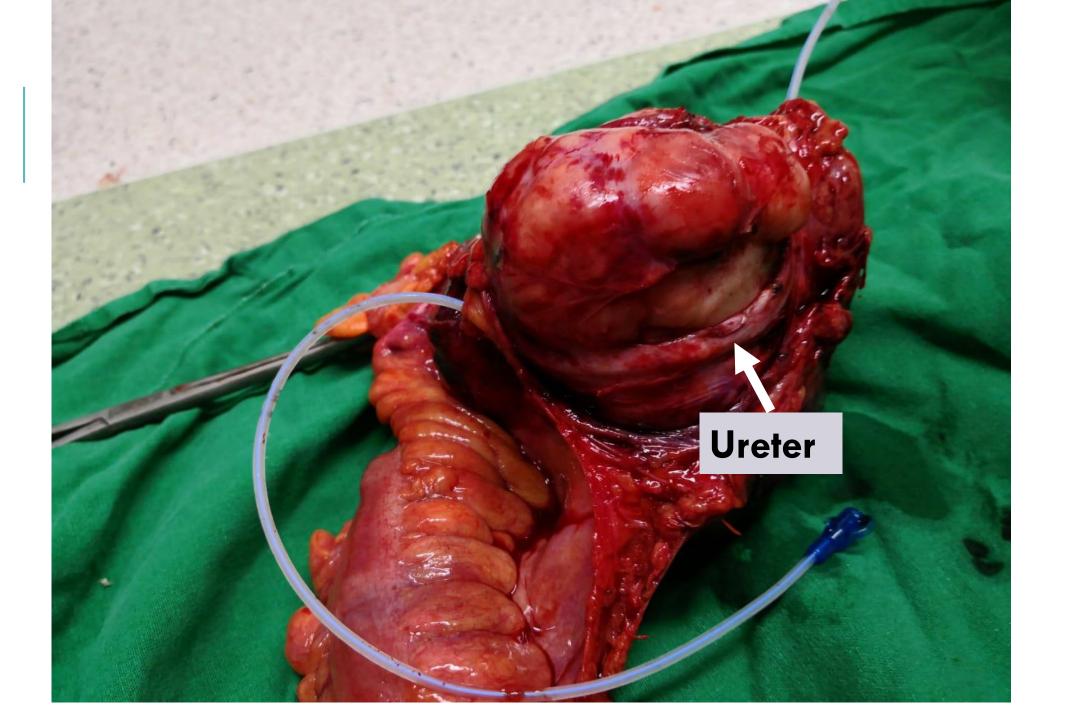


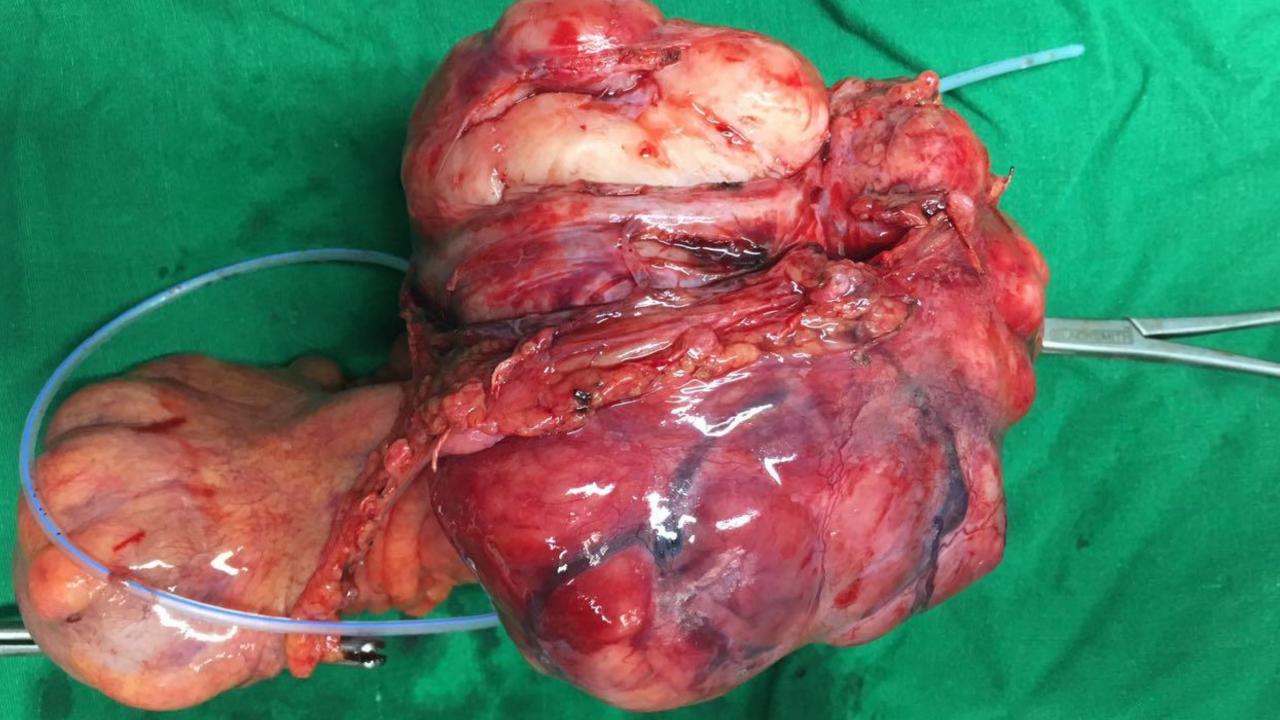


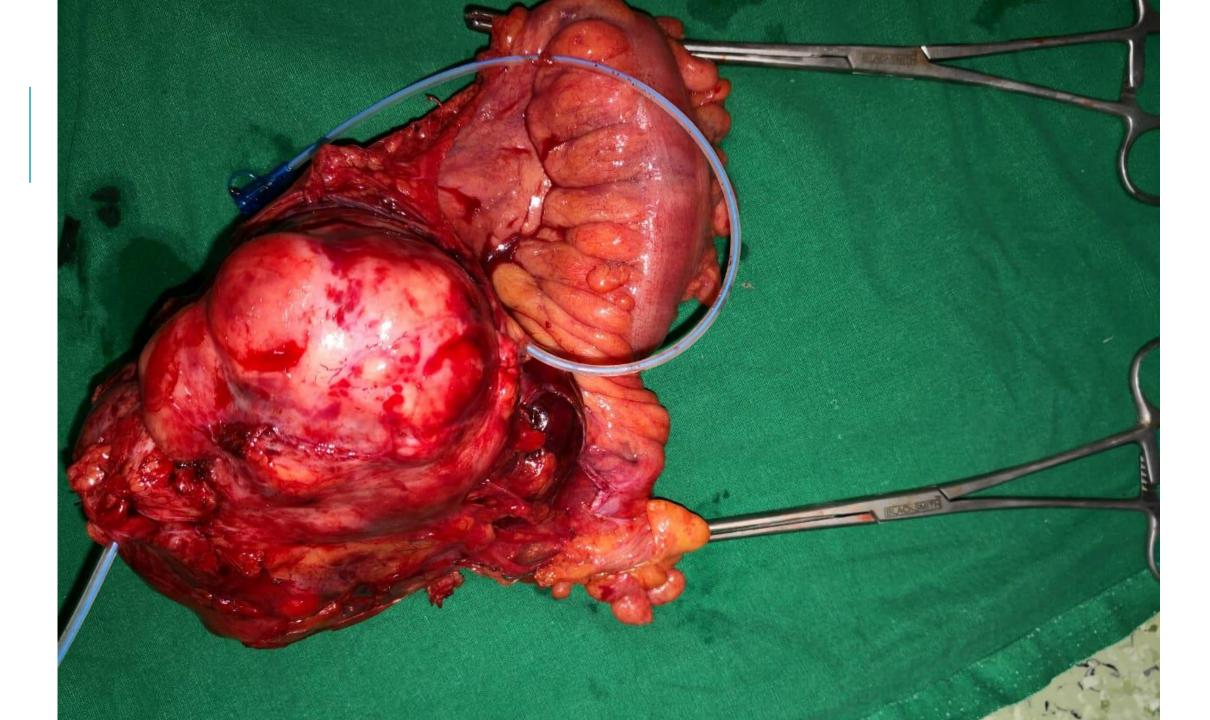


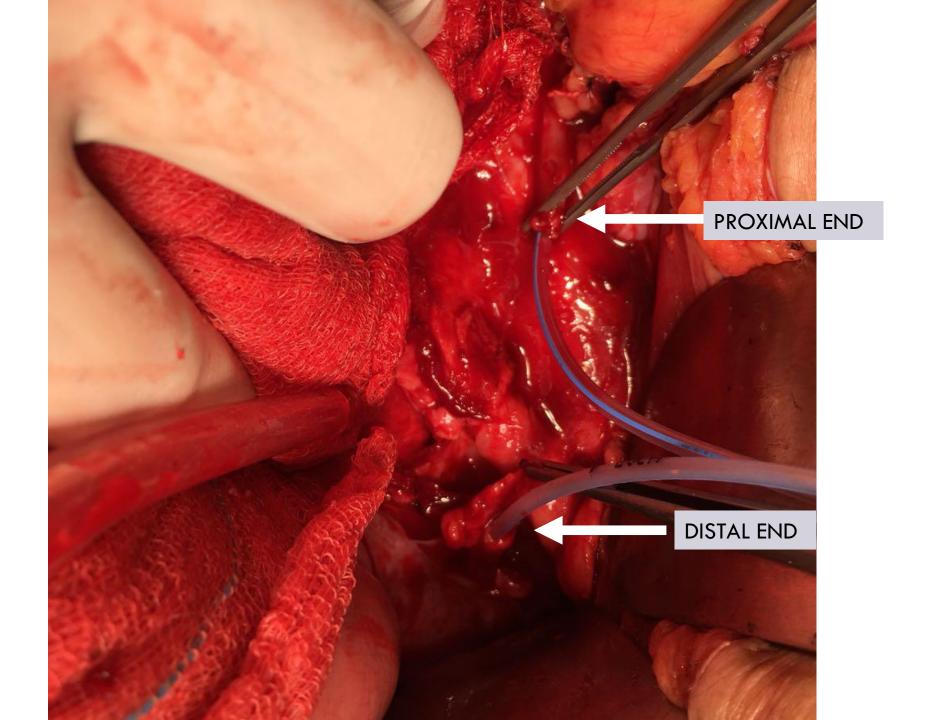
LETS GO

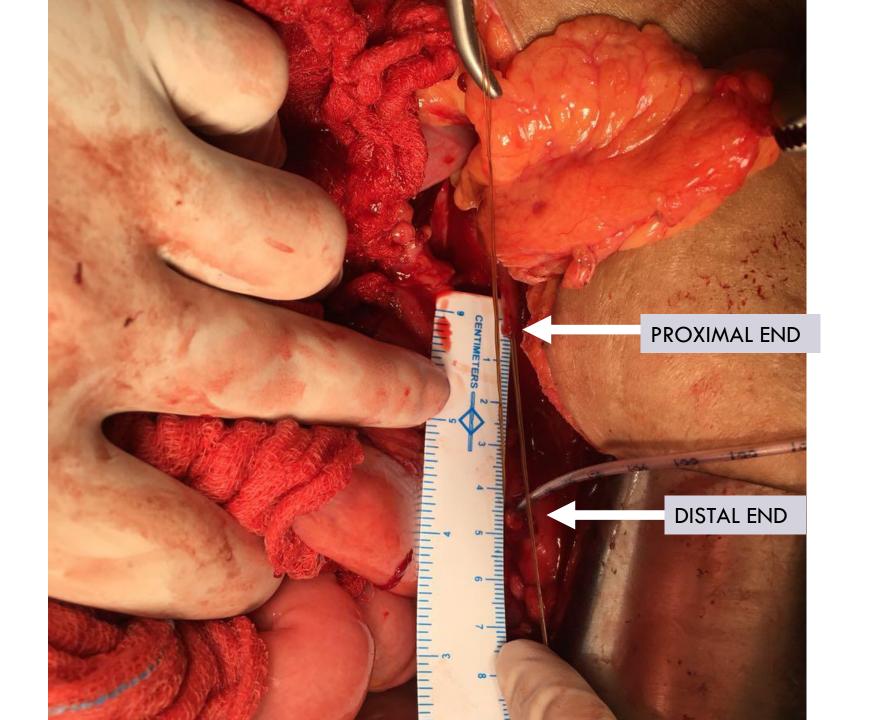












CHOICES

- Primary repairing primarily
- Ureterostomy taking ureter out on abdomen
- Trans-Ureteroureterostomy one ureter to the other side ureter
- Boari's Flap using bladder flap to create a tube to fill in the gap
- ❖lleal Transposition putting in segment of ileum
- Resovoir formation,
- lumen disparity,
- bowel will absorb significant electrolytes,
- mucus plugs,
- length required 6 to 8 inches
- Appendicular interposition- better for right side middle ureter loss, if healthy appendix with adequate diameter, with intact blood flow



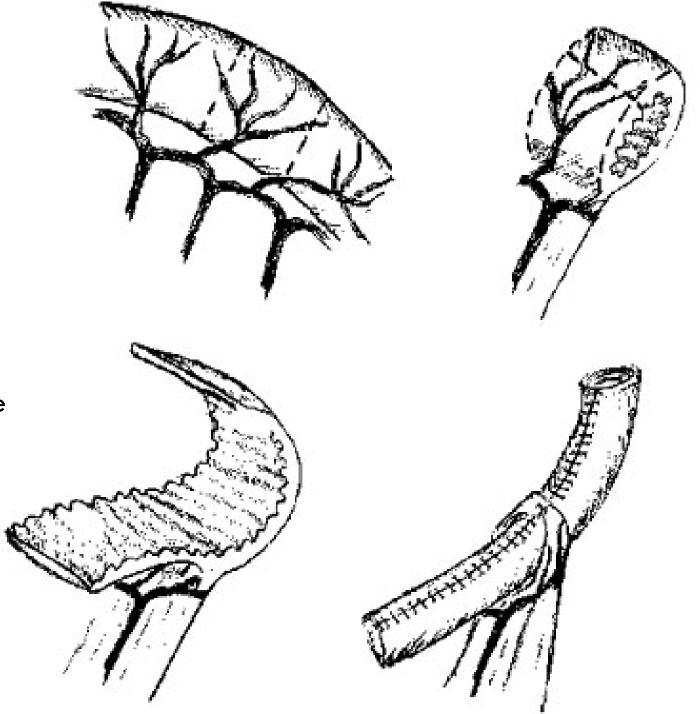
YANG MONTI

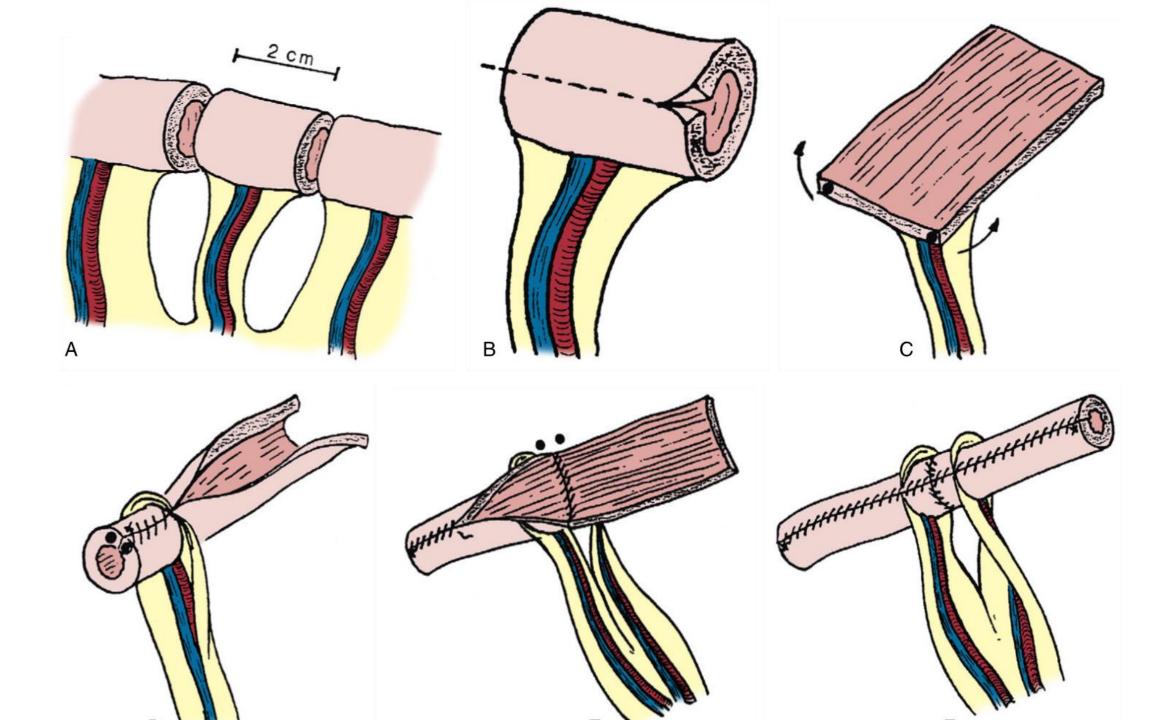


YANG MONTI

A short length of bowel is opened longitudinally along the anti-mesenteric border

And then closed transversely to create a tube which can be used to fill in the defect of ureter





YANG MONTI

Appropriate length

Appropriate diameter

Good results

Fluid absorption is less

No reservoir formation

Less after-surgery complications

Easier to manage – for patient



