



KVG Medical
College & Hospital
Sullia, Karnataka

RENAL TCC

CASE OF THE WEEK



PRESENTATION

- A 63 year old male patient presented with complaints of:
 1. Right loin pain since 3 months.
 2. Generalized weakness since 3 months.
 3. Weight loss since (10 kg in a span of 3 months).

Ultrasound, CECT and MRI abdomen were done.

On Ultrasound Abdomen,





On ultrasound abdomen and pelvis,

- Right kidney measures 14 cms with a parenchymal thickness of 2.2 cms.
- Enlarged right kidney with altered echo texture and dilated renal calyceal system with echogenic material within extending into the renal pelvis.
- Perinephric fat stranding noted.
- Left kidney measures 12 cm and is normal.
- Few pre and para aortic and right perinephric lymph nodes largest measuring 15mm with hilar loss.



USG Impression

- Features suggestive of right renal pyelonephritis/ neoplastic etiology.
- Pre and para aortic and right perinephric lymph nodes.

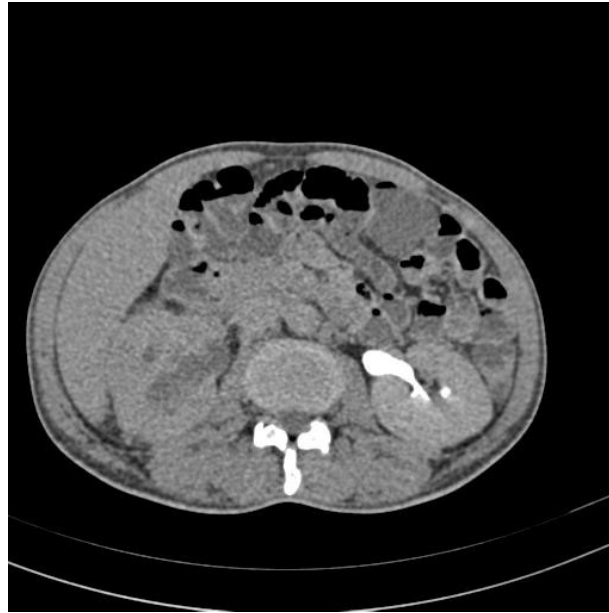


CT CORONAL AND AXIAL SECTIONS

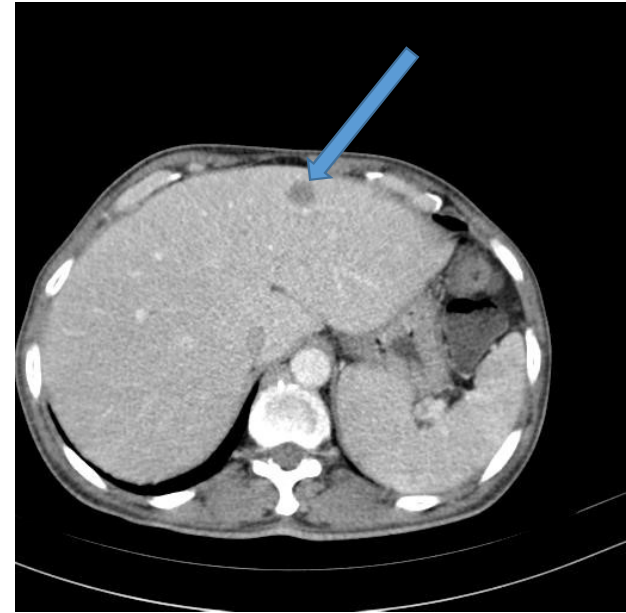
Right kidney: Enlarged (13 x 5.8 cm). There is hypodense non enhancing soft tissue density lesion measuring 2.7x 5.2 x 5.6 cm (AP x TD x CC) seen completely filling major calyces and pelvis, extending to PUJ. There is obliteration of cortico-medullary differentiation at mid and lower poles.



NEPHROGENIC PHASE



DELAYED PHASE



LIVER METASTASIS

Bolus Tracking Result

09-Oct-2020 10:27:13





CECT REPORT

1. Hypodense non enhancing soft tissue density lesion completely filling major calyces and pelvis of right kidney- ? **Renal transitional cell carcinoma.**
2. Multiple hypodense nodular target like lesions in the liver, nodular lesions in bilateral basal segments of lungs and soft tissue density lesion in left posterosuperior iliac spine- Possibility of metastasis.
3. Multiple enlarged necrotic preaortic, paraaortic, retrocaval & right renal hilar lymph nodes- Metastatic.

On MRI

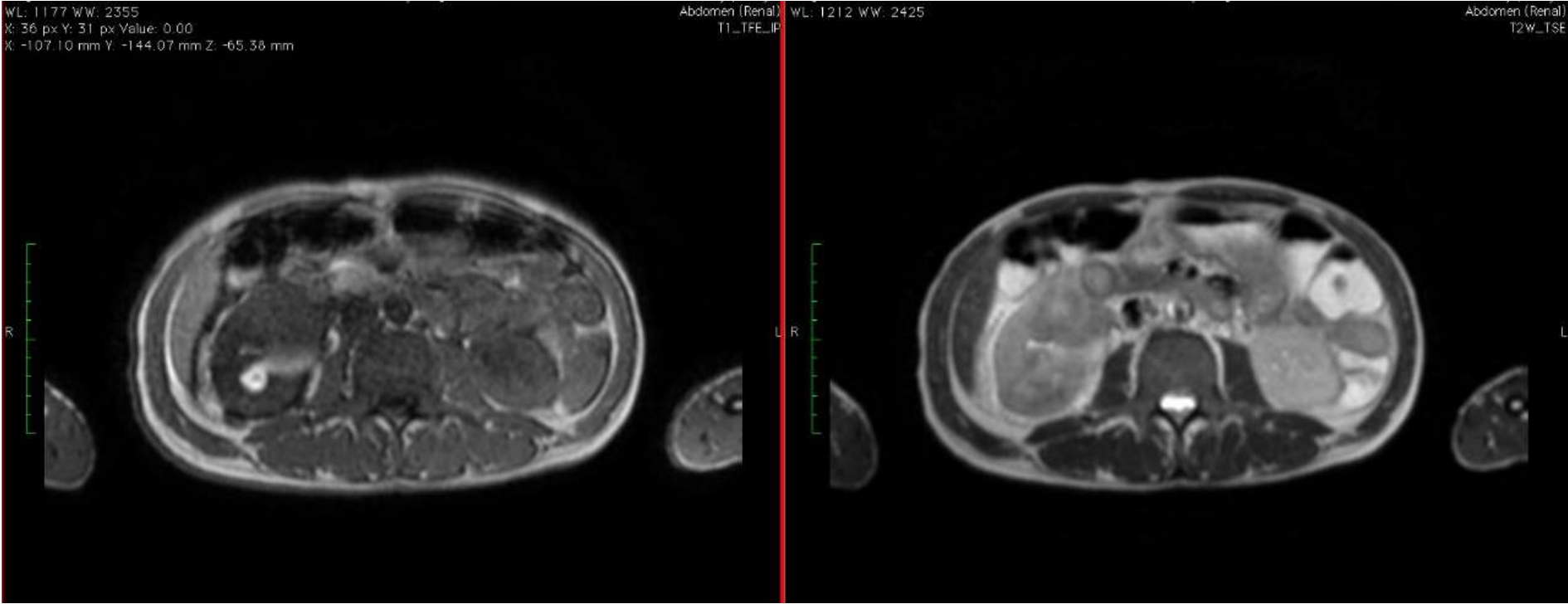


WL: 1177 WW: 2355
X: 36 px Y: 31 px Value: 0.00
X: -107.10 mm Y: -144.07 mm Z: -65.38 mm

Abdomen (Renal)
T1_TFE_IP

WL: 1212 WW: 2425

Abdomen (Renal)
T2w_TSE



T1WI

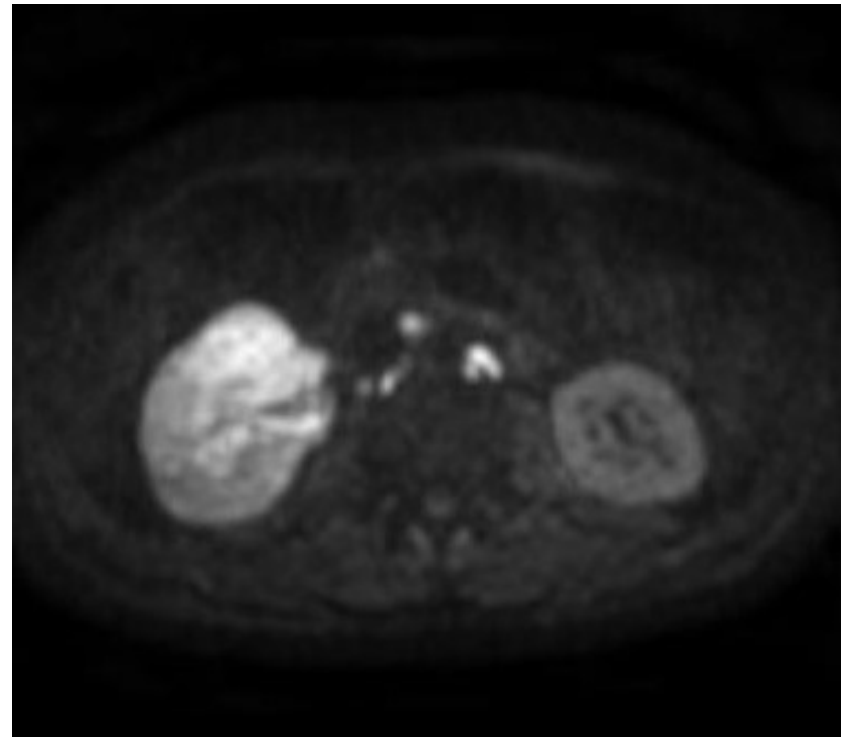
T2WI



T2 WI CORONAL



DWI

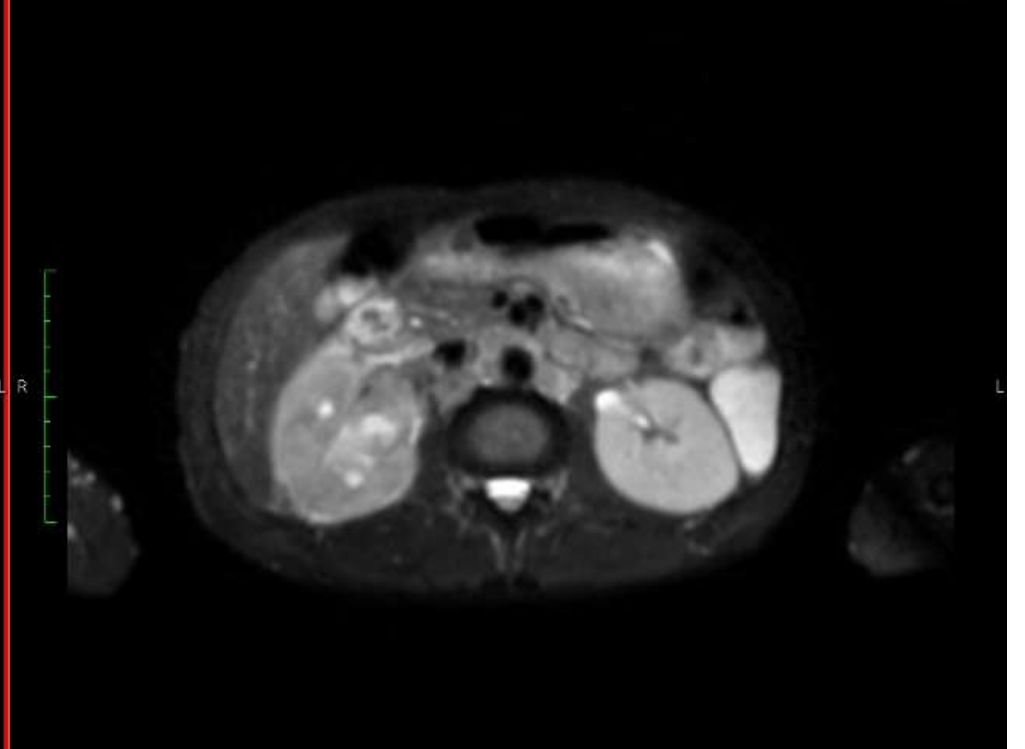
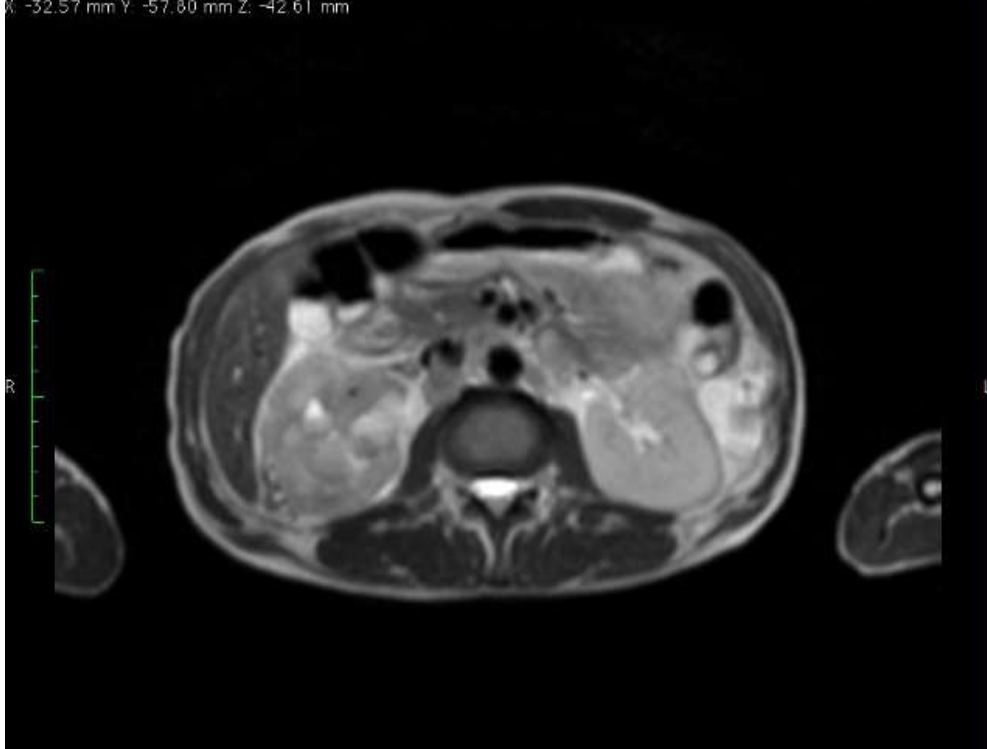


WL: 1211 WW: 2423
X: 77 px Y: 78 px Value: 27.16
X: -32.57 mm Y: -57.80 mm Z: -42.61 mm

Abdomen (Renal)
eT2W_TSE SENSE

WL: 1210 WW: 2420

Abdomen (Renal)
T2W_SPAIR



T2WI TSE

T2WI SPAIR

POSSIBLE DIFFERENTIALS

- Renal cell carcinoma
- Renal metastasis.
- Renal lymphoma.
- Renal tuberculosis/abscess.
- Pyelonephritis.





THANK YOU