

2025

KARNATAKA RADIOLOGY EDUCATION PROGRAM

# Case presentation

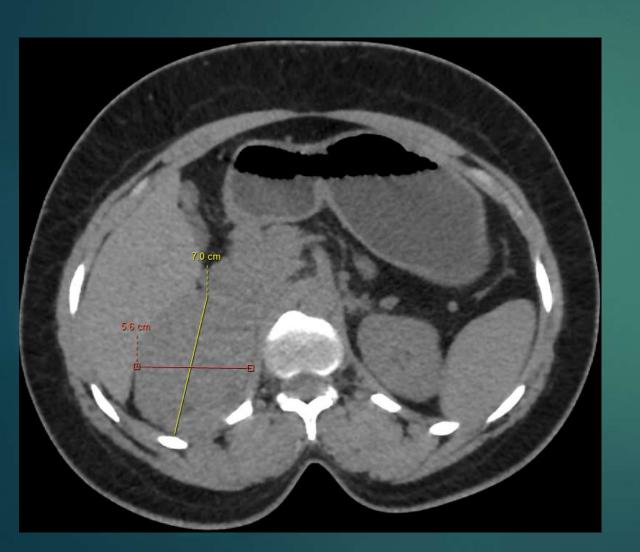
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## Clinical details

- ▶ A 41 year old female presented to ER with h/o pain abdomen (left flank) since 3 months.
- ▶ No other significant clinical presentations.

# Imaging findings – Plain CT

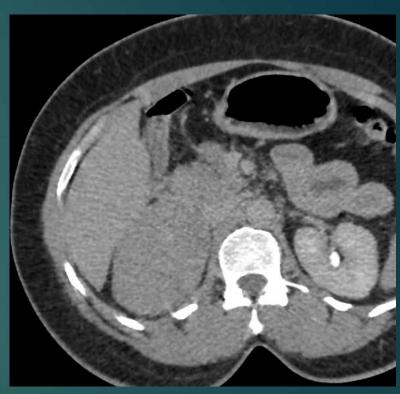


**▶** Well defined heterogeneous soft tissue density mass lesion (35-40HU) in the right supra-renal region with few fatty attenuation areas of -10 to -20HU. No e/o calcification within. Right adrenal gland is not separately visualized. Anteriorly lesion abuts 2<sup>nd</sup> part of duodenum, IVC. Posteriorly 12<sup>th</sup> rib and corresponding intercostal space, however no erosion. Laterally segment V and VI of liver. Superio-medially right diaphragmatic crura with maintained fat planes. Inferiorly the superior pole of right kidney. On post contrast study shows heterogeneous enhancement with areas of necrosis within.

## Imaging findings axial – Contrast CT









Non-contrast CT





Venous phase CT





15 min delayed phase CT









- Avg HU on
  - plain CT 38
  - Venous phase 84
  - 15 min delay 58
- Absolute washout of 56 %
- Relative washout of 31%.

#### Method of calculation

Absolute washout: 100 x — Post HU - Delayed HU

Post HU - Pre HU

Post HU - Delayed HU

Relative washout: 100 x — Post HU

### Final INTERPRETATION

WELL DEFINED HETEROGENEOUS SOFT TISSUE DENSITY LESION IN THE RIGHT SUPRA-RENAL REGION WITH ENHANCEMENT AND WASHOUT CHARACTERISTICS AS DESCRIBED – Indeterminate lesion

#### **Probable Differentials**:

- 1. PHEOCHROMOCYTOMA
- 2.ADRENOCORTICAL CARCINOMA