A Weekly Radiology Odyssey

CASE FILE · CECT ABDOMEN · TRAUMA

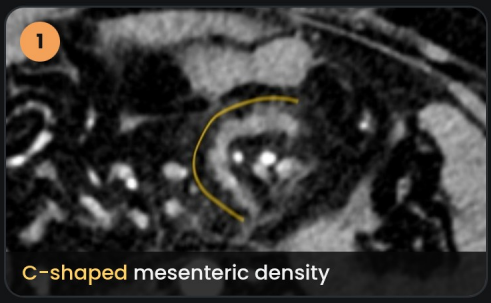
A Tear in the *Fan*

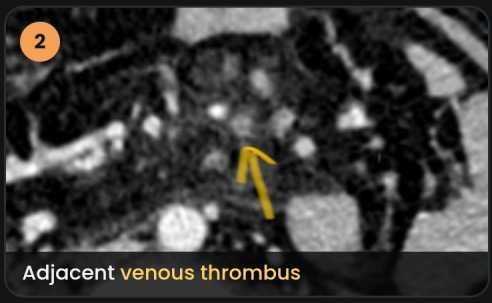
Blunt abdominal injury → mesenteric tear → haemoperitoneum, SMV clot

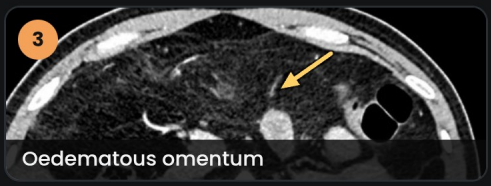
A 34 yrs old male after blunt abdominal injury, for a contrast CT

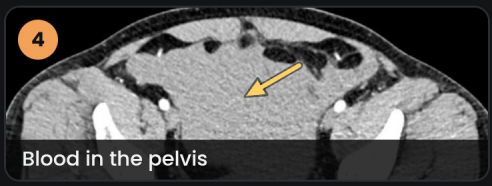
CT SCAN

Contrast-enhanced · arterial & venous · axial





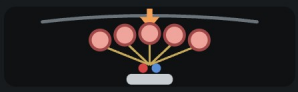




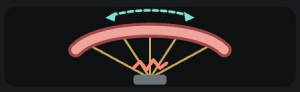
CT IMPRESSION

Moderate haemoperitoneum; hazy, oedematous mesentery and omentum, left supraumbilical C shaped mesenteric density — **? mesenteric tear**; adjacent partial focal SMV thrombus.

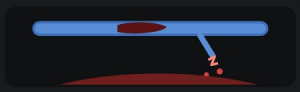
HOW THE TEAR HAPPENS



1 · THE BLOW
Crushed on the spine



2 · THE SHEAR
Sheared at the root

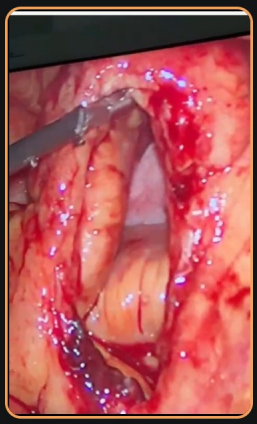


3 · THE BLEED
Vessels bleed & clot

Gujarat Diagnostic Care Plus
24/7 1.5T MRI | CT SCAN | XRAY 24/7

LAPAROSCOPY

Surgical correlation



Complete rent



Gangrenous loop

FINAL DIAGNOSIS

Traumatic mesenteric tear, haemoperitoneum and an adjacent gangrenous loop

Laparoscopy — complete mesenteric rent with haematoma; the adjacent bowel loop was dark red and gangrenous.

TEACHING POINTS

1. **C-shaped density —** hyperdense mesenteric Cs with fat stranding proved to be jejunal mesenteric tears at surgery
2. **Look at the vessels —** beading or abrupt cut-off of mesenteric vessels is specific; here the vein beside the C was partly thrombosed.
3. **Check the bowel —** a bucket-handle tear can devascularise a loop with no wall defect, here the adjacent loop was gangrenous.

TAKE-HOME MESSAGE

Blood in the belly, organs intact? *Look at the fan* — a C-shaped density marks the tear; then check the loop beside it.

OPERATING SURGEON
Dr Parth Dave

RADIOLOGIST
Dr Abhishek Agarwal

Poster: Dr Abhishek Agarwal · Consultant Radiologist (DNB)