

FLANK PAIN RADIOLOGIST CHECKLIST

CT Finding	Disease
Radio-opaque calculi; if obstructing: hydronephrosis; perinephric stranding.	Stone disease
Perinephric stranding.	If hydronephrosis: obstruction (typically from stone disease. If no hydronephrosis: pyelonephritis
Rib fracture; discontinuous kidney with peri-renal density (hematoma).	Post-traumatic fracture or renal hematoma.
Bowel wall thickening; periappendiceal or pericolic fluid and fat stranding; free air if perforated.	Appendicitis, diverticulitis, or Crohn disease (depending on location of bowel disease)
Dilated collecting system.	Renal obstruction; look for cause at transition point (stone disease, tumor).
Enlarged kidneys with multiple well defined low density regions.	Polycystic kidney disease
Renal mass; lymphadenopathy if mets.	Renal cancer
Dilated aorta; peri-aortic fluid and fat stranding.	Aortic aneurysm rupture
Disc narrowing or abnormal contour.	Disc disease
Decreased vertebral body height	Vertebral fracture
Abnormal disc contour	Disc herniation

DICTIONARY TEMPLATE WITH PROMPTS FOR UNENHANCED ABDOMEN AND PELVIS CT PERFORMED FOR FLANK PAIN

CT ABDOMEN AND PELVIS UNENHANCED

INDICATION: []

COMPARISON: []

TECHNIQUE: []

INTERPRETATION:

Lung bases: []

Musculoskeletal structures: [Loss of vertebral body height and/or fracture line (fracture). Rib fracture line. Abnormal disc contour with neural compression (disc herniation). Facet arthropathy with soft tissue density causing neural compression (synovial cyst).]

Liver: []

Spleen: []

Gallbladder: []

Hepatobiliary tree: []

Pancreas: []

Kidneys: [Renal, ureteral, or bladder calcification (stone disease). Hydronephrosis (from obstruction). Perinephric stranding (from obstruction or infection). Enlarged kidneys with multiple cysts (autosomal polycystic kidney disease). Renal mass (hematoma, renal cancer).]

Adrenals: [<Normal.>]

Vasculature: [Dilated aorta (aortic aneurysm). Peri-aortic fluid or fat stranding (aortic rupture).]

Lymphatics/retroperitoneum: [Multiple enlarged lymph nodes (lymphadenopathy from renal cancer).]

Bowel: [Swelling or thick wall of the appendix and peri-appendiceal fat stranding (appendicitis). Diverticula and thick wall of the colon with peri-colic fat stranding (diverticulitis). Thick-walled small bowel loops with peri-enteric fat stranding (Crohn disease).]

Peritoneal cavity: []

Abdominal wall: []

Pelvis: [Bladder calcification (stone disease). Bladder mass causing hydronephrosis (bladder cancer).]

IMPRESSION: []

DICTIONARY TEMPLATE WITH PROMPTS FOR ULTRASOUND PERFORMED FOR FLANK PAIN

ULTRASOUND ABDOMEN

INDICATION: []

COMPARISON STUDIES: []

TECHNICAL INFORMATION: [].

INTERPRETATION:

Right kidney: [Renal or proximal ureteral hyperechoic, shadow-casting focus (stone disease). Hydronephrosis (from obstruction). Increased flow on color or power Doppler (infection). Enlarged kidneys with multiple cysts (autosomal polycystic kidney disease). Renal mass (hematoma, renal cancer).]

Left kidney: [Renal or proximal ureteral hyperechoic, shadow-casting focus (stone disease). Hydronephrosis (from obstruction). Increased flow on color or power Doppler (infection). Enlarged kidneys with multiple cysts (autosomal polycystic kidney disease). Renal mass (hematoma, renal cancer).]

Bladder: [Hyperechoic, shadow-casting focus (stone disease). Bladder mass with hydronephrosis (bladder cancer).]

IMPRESSION:

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