

Disease	Clinical Features	CT Finding	Collected Cases
Stone disease	Hematuria; history of stone disease.	Radio-opaque calculi; if obstructing: hydronephrosis; perinephric stranding.	11
Infection: pyelonephritis	Pyuria; elevated WBC count.	Perinephric stranding.	5
Trauma	Injury.	Rib fracture; discontinuous kidney with peri-renal density (hematoma).	1 (hematoma)
Bowel e.g. appendicitis, diverticulitis	Nausea and vomiting, diarrhea.	Bowel wall thickening; periappendiceal or pericolic fluid and fat stranding; free air if perforated.	2 (diverticulitis); 1 Crohn,
Renal obstruction	Hematuria or pyuria.	Dilated collecting system.	1 unknown cause; 1 bladder cancer; 4 UPJ obstruction
Polycystic kidney disease	Renal insufficiency (if advanced).	Enlarged kidneys with multiple well defined low density regions.	1
Renal cancer	Hematuria.	Renal mass; lymphadenopathy if mets.	2
Spontaneous renal hemorrhage	Anticoagulated from medication or clotting factor deficiency.	Renal mass.	
Aortic aneurysm rupture	Hypotension; syncope; history of vascular disease.	Dilated aorta; peri-aortic fluid and fat stranding.	
Disc disease	Dermatomal distribution pain.	Disc narrowing or abnormal contour.	3
Vertebral fracture	History of trauma or osteoporosis	Narrowed vertebral body; fracture line	1
Rib fracture	History of trauma or osteoporosis	Discontinuous rib	1
Synovial cyst	Dermatomal distribution pain	Narrowed spinal canal with facet arthropathy	1
THE FOLLOWING DISEASES HAVE FEW IF ANY FINDINGS ON UNENHANCED CT STUDY			
Papillary necrosis; renal vein thrombosis; renal artery dissection; cortical necrosis/renal infarct (unless accompanied by stranding)			