

Fig. 2.5 Acute pyelonephritis. Abundant neutrophils are present in the interstitium and within renal tubules

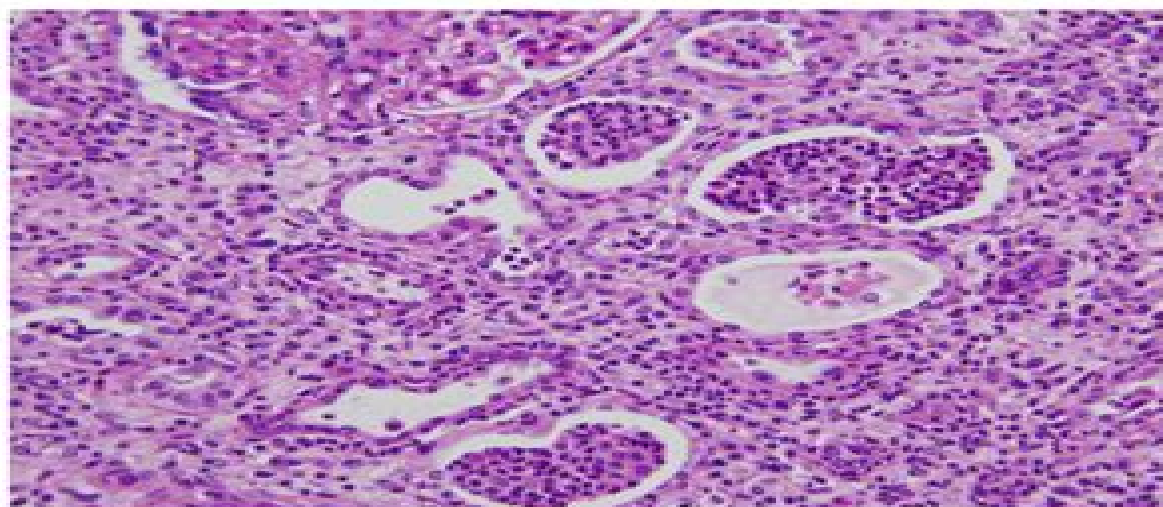


Table 2.4 Imaging findings in chronic pyelonephritis

Renal scarring
Renal atrophy
Cortical thinning
Hypertrophy of residual normal tissue
Caliceal clubbing
Dilatation of the calyceal system
Renal asymmetry

- Focal nonfunctional area in nephrogram phase.

Ultrasound

- Focal or diffuse cortical thinning
- Renal scar formation
- Distortion of renal contours.

Computed Tomography

- The kidney is usually shrunken and has an irregular outer margin (Fig. 2.6).
- Renal scar formation presents as defect in the margin of the kidney between two calyces.
- Decreased contrast excretion on enhanced CT.
- Fibrotic distortion of the collecting system.

Pathology

- Chronic pyelonephritis is a general term implying chronic interstitial renal infection due to long-standing obstruction or vesicoureteric reflux, resulting in loss of renal

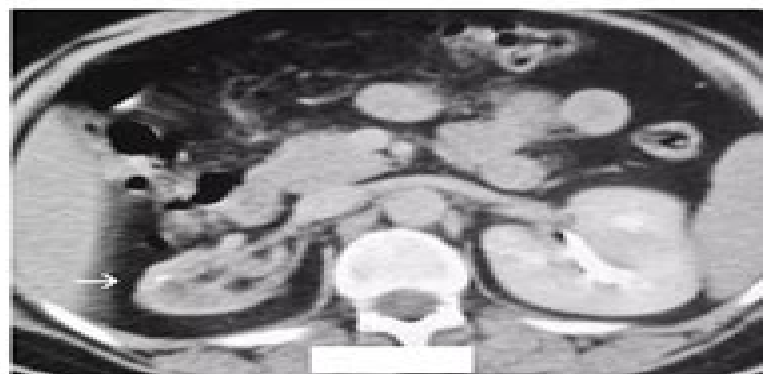


Fig. 2.6 Forty-year-old woman with recurrent pyelonephritis. Contrast-enhanced CT scan reveals severe parenchymal scarring of and decreased contrast excretion from the right kidney (arrow). The left kidney is normal

parenchyma, with scarring. Chronic pyelonephritis accounts for 5–15 % of cases of end-stage renal failure. Most patients are asymptomatic until hypertension or uremia develops.

- The gross findings in chronic pyelonephritis are variable. When the condition is obstruction related, the kidney may be large due to dilatation of the collecting system, and the

Davidsons Radiology Of The Kidney And Genitourinary Tract 3e

N. Reed Dunnick



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