



## KIDNEY SWEAT SIGN- FINDINGS ON USG

## Radiodiagnosis

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## KEYWORDS

Respected sir,  
We are presenting USG findings showing the classical “kidney sweat sign”.

Chronic renal failure (CRF) causes irreversible damage to the renal function, which includes the impairment of the excretory, metabolic and endocrine functions which leads to development of the deadly syndrome of uremia. Any medical state which causes impairment of renal functions can lead to CRF of the kidney (1)

Here we present to you with a 60 year old male patient suffering from uremia having raised creatinine levels of 3.6. This patient came with complains of decreased urine output, burning micturition ,fever associated with rigors and the patient also suffered from an episode of seizure .

An ultrasound abdomen was done where we found the classical “kidney sweat sign “in the right kidney. The left kidney also showed multiple cortical cysts.

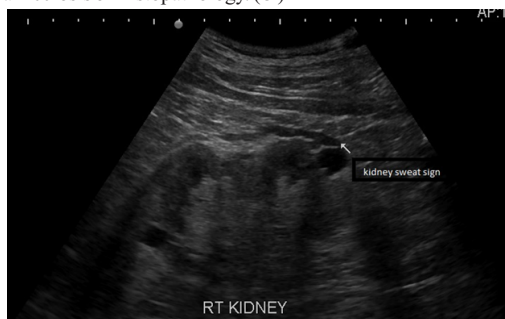
The scan also showed raised cortical echogenicity with decreased cortico-medullary differentiation in bilateral kidneys suggestive of chronic renal failure changes.

“Kidney sweat sign” is an extracapsular, hypoechoic rim of fluid surrounding the kidney. (2)

This rim is thought to represent perirenal edema, this should not be confused with other pararenal pathologies like hematomas and abscess (3)

This collection can also be seen in other modalities like CT and MRI as a ring /target sign.

Many studies have revealed the hypoechoic rim to correspond to cortical necrosis on histopathology. (3 )



**Figure 1: The right kidney shows a hypodense collection of fluid within the anterior capsule indicating kidney sweat sign .**

## REFERENCES-

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