Measurement of renal size by ultrasound and its comparison with Ct scan

Abstract

Background: Determination of renal size is critically important for evaluation of patients with renal failure and if renal size is below 90 millimeter atrophic changes is suggested

Ultrasound is commonly used for determination of renal size however because of some causes like anatomic variation, Poor cooperation of the patient and …it has some limitations.

From another point of view CT scan is widely used for evaluation of urinary system but it is not routinely used for evaluation of renal size;However it seems to be more precise than ultrasound because of multiplanar reconstruction

Purpose : In this study we decided to compare renal size obtained by ultrasound and CT scan in patients who for whom both ultrasound and CT scan had been requested during the course of their disease

Results: The renal size was statistically different ($P < 0.05$) measured by CT scan in comparison with ultrasound

Conclusion: in patients in whom determination of renal size is so crucial CT scan should be performed for better evaluation of renal size.