

Diagnosis of Complications of Kidney and Ureteral Injury in Different Periods of Traumatic Disease (Literature Review and Own Observations)

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Abstract

The article presents a brief review of the literature and own clinical observations, summarizing our 5-year experience in diagnosing complications of kidney and ureter injuries. The study included 139 patients aged from 18 to 72 years old who were injured as a result of traffic accidents. All patients underwent conventional radiography of the thoracic and abdominal cavities, ultrasound and multislice computed tomography (MSCT) of the urinary tract. 17,3 % patients additionally underwent MRI.

Considering the literature data and the results of our own research we recommend an MSCT scan, having the greatest diagnostic accuracy, for patients with polytrauma at different periods of the course of a traumatic disease, in order to more reliably detect damage of the kidneys and ureters as well as complications that have arisen, after a clinical and laboratory examination and an ultrasound scan. MRI of the kidneys and ureters is useful during periods of early and late manifestations of traumatic disease in order to detect renal complications, in cases when there is a discrepancy between clinical data, results obtained by ultrasound and MSCT, as well as for patients having contraindications for MSCT with intravenous contrast.

Key words: Multislice Computed Tomography, Magnetic Resonance Tomography, Ultrasound, Kidney, Ureter, Traumatic Disease.

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