What is your Diagnosis?

A 55-year-old woman admitted to our emergency department with three days history of abdominal pain, fever and vomiting. She was a known diabetic patient for last 25 years. On admission, she had fever (39°C), heart rate of 100 BPM and a normal blood pressure and respiratory rate. The physical examination revealed an ill-looking patient with distended abdomen. There was extremely tender right renal angle with a diffusely tender right loin. The laboratory support showed leukocytosis, creatinine 2.06 mg/dl and random serum glucose 512 mg/dl. Urinalysis revealed numerous pus cell but ketonuria was absent. The cultures from the blood and urine sample showed Escherichia coli organism. Abdomen CT showed gas into the renal parenchyma and into the perirenal space on the right (Figures 1, 2). The patient was diagnosed Emphysematous Pyelonephritis and successfully treated with antibiotic and supportive therapy. EPN is a uniformly fatal illness, if left untreated [1]. Treatment should be aggressive, starts with vigorous fluid resuscitation, antibiotic therapy, and control of blood sugar and electrolytes [2,3]. Before the advent of interventional radiology, early surgery and nephrectomy was a mandatory procedure.

References