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**Introduction & Objectives:** Wunderlich Syndrome is a rare condition, described for the first time in 1856. The most frequent causes are represented by renal tumors, especially renal cell carcinoma and angiomyolipoma. The clinical presentation depends on the degree and duration of the bleeding. The aim of the study was to evaluate the diagnosis and treatment particularities.

**Materials & Methods:** Between January 1997 – January 2017 in “Saint John” Emergency Clinical Hospital were diagnosed and treated 12 patients with spontaneous renal rupture. Clinical and imaging aspects as well as therapy options were revised.

**Results:** From the total number of cases, 8 patients were diagnosed with renal cell carcinoma, 2 with angioliopoma, one with renal cyst and another one with choriocarcinoma. Three patients were admitted with hypovolemic shock, one patient was transferred in our department after retroperitoneal hematoma had been discovered during laparotomy for ectopic pregnancy suspicion. In the other cases the symptoms were: lumbar pain (8 cases), haematuria (6 cases), vomiting (2 cases). In all patients, perirenal collection was described ultrasonographically, the diagnostic being certified by CT. In 9 cases, emergency surgery was necessary. In other 3, the procedure was done after patient re-equilibration. In 10 cases nephrectomy was performed. In one patient with angioliopoma, partial nephrectomy was done. The patient with renal cyst was subjected to cyst resection. No significant complications were encountered.

**Conclusions:** Wunderlich syndrome is a feared complication of benign or malign renal tumors. Correct and prompt diagnosis is mandatory for an appropriate treatment.