

## Case Report

# Procedure Triggers Rapid Progression of Renal Cell Carcinoma

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### Abstract.

We present two renal cell carcinoma (RCC) cases with rapid disease progression within one month of an interventional procedure. Analysis of the clinical courses and laboratory data suggested that a burst of inflammatory cytokines following the procedures could have been the main reason for cancer progression. Higher tumor burden and the presence of paraneoplastic syndrome could be indicators predicting such a complication. Although the mechanism is not well understood, identifying such patients is important.

**Keywords :** renal cell carcinoma, procedure related complication

## 病例報告

# 因術式引發腎細胞癌快速惡化

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### 中文摘要

腎細胞癌本身疾病進展緩慢，但本次報告內容則提出因檢查而導致腫瘤快速進展的特殊個案。根據病患的血液檢查，推測可能與發炎性細胞激素誘導有關，而容易引起大量細胞激素釋放的相關因子有診斷時腫瘤大小與是否有腫瘤附屬症候群相關，但準確之原因仍需進一步探討。臨床上遇到此類患者在安排檢查時須特別注意。

**關鍵字:** 腎細胞癌、檢查引發之併發症

## INTRODUCTION

Accelerated cancer progression after local treatment has been previously reported in different types of cancer. Seki T et al. presented a hepatocellular carcinoma case whose condition deteriorated rapidly after undergoing locoregional therapy [1]. Tomoki Yamano et al. presented a case of gastric cancer progressing

rapidly within three months of endoscopic biopsy [2]. No similar reports have been reported in renal cell carcinoma (RCC), although studies have focused on the risk factors of rapid progression following nephrectomy [3]. It is crucial for every clinical practitioner to explain the potential complications to the patient before a procedure. As a reminder of potential

complications, we report two patients with RCC showing extremely rapid progression after a relatively simple procedure.

## CASE REPORTS

### Case 1

A 43-year-old male patient was transferred to our hospital for histopathological diagnosis of a huge right renal tumor on November 11, 2011. Hepatitis C and alcohol related liver cirrhosis had been diagnosed 5 years earlier. His liver reserve and performance status were satisfactory when the renal tumor was diagnosed. Computed tomography (CT) revealed local advanced disease without distant metastasis. His laboratory data disclosed paraneoplastic syndrome, including anemia (hemoglobin: 10.8 (g/dL)) and borderline elevated C-reactive protein (4.043 mg/L). CT-guided fine needle biopsy was arranged for histological diagnosis. Just after biopsy, he developed lethargy, tachypnea (respiratory rate: 25/min), pyrexia, and mild hemoptysis. A slight rise in the C-reactive protein level (13.16 mg/L) was noted. A chest radiography revealed diffuse lung nodules (Figures 1A and 1B). An empiric antibiotic was prescribed because an infection, such as from a septic emboli, was suspected. The result of the first kidney biopsy was negative for malignancy, so a second fine needle biopsy was done on November 23, 2011. The final pathology showed RCC, clear cell type (Figures 1C and 1D). In the early morning of November 24, his condition deteriorated and he required full mechanical ventilator support in the intensive care unit. A follow-up CT revealed disseminated

lung and brain metastases (Figure 2). Bronchoscopic biopsy was suggested, but the patient's family declined due to the risk of this procedure. The patient died of multiple organ failure on the 25<sup>th</sup> day after admission.

### Case 2

A 45-year-old male patient had a left RCC diagnosed in January 2010. His initial tumor staging was stage IV with lumbar spine metastasis. Before he received anti-cancer therapy, he was admitted for epigastric pain. Physical examination disclosed no remarkable findings. The laboratory data revealed paraneoplastic syndrome, including leukocytosis (white cell count: 30.1 ( $10^3$ /uL)), anemia (hemoglobin: 11.9 (g/dL)), and elevated C reactive protein level (272.73 mg/L). Panendoscopy showed multiple gastric ulcers. Eight hours after the procedure, spiking fever, chilliness, and conscious disturbance developed. Because of respiratory failure, he was intubated and transferred to the intensive care unit. Chest radiography post intubation showed multiple pulmonary nodules and a left pleural lesion (Figures 1E and 1F). The follow-up CT also confirmed rapid cancer progression (Figure 3). Pluera biopsy and pericardial effusion examination revealed atypical cells. However, because the samples were too small, further special staining could not be performed. His condition deteriorated and he died of multiple organ failure on the 15<sup>th</sup> day after admission.

## DISCUSSION

These two cases suggest the possibility of procedure-induced rapid RCC progression. Although final pathological confirmation of the metastatic sites could not be obtained, there were several reasons indicating that the deterioration of the patients' condition was associated with tumor progression. First, serial imaging studies showed rapid progression and even newly developed lesions (Figures 1-3). Both patients died due to target organ involvement, such as the heart, lung and brain. Second, the evidence of infection was

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