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Case Report Open Access 8

Rare Presentations of Metastatic Renal Cell Carcinoma with Hematochezia and Anemia



Janki Patel*1, Niraj Patel2 and Denise Kalmaz1

¹Division of Gastroenterology, Department of Medicine, University of California at San Diego, USA

²Division of Gastroenterology, Kaiser Permanente Baldwin Park Medical Center, USA

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*Corresponding author: Janki Patel, MD, UC San Diego, Division of Gastroenterology, 9500 Gilman Drive, #0956, La Jolla CA 92093-0956

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Abbreviations: RCC: Renal Cell Carcinoma; CT: Computed Tomography; EGD: Esophago-Gastroduodenoscopy

Introduction

Renal cell carcinoma (RCC) is the sixth most common cancer in men and the eighth most common cancer in women in the United States, with an estimated 65,150 new cases diagnosed in 2013 [1]. RCC's classic presenting triad of hematuria, flank pain and palpable abdominal mass are only present in about 9 percent of patients and often, RCC is found incidentally on imaging. At diagnosis, about 16% of cases have evidence of disease in lymph nodes and 16% with distant metastases [2]. Typical sites for metastasis include lungs, bone, liver, and brain, [3] whereas intestinal metastasis is rare [4]. It is important for gastroenterologists to acknowledge the possibility of presence of metastases during endoscopy in these patients. In this case series, we present three patients with history of renal cell carcinoma with gastrointestinal metastases.

Case Report

Patient 1

A 52-year-old male with HIV and new onset iron deficiency anemia presented for further evaluation of acute blood loss anemia with hemoglobin decrease from 16 to 7.9mg/dl. Six months prior to presentation, he had EGD with LA Class B esophagitis and colonoscopy with 2 mm sigmoid polyp (biopsy with tubular adenoma). Video Capsule endoscopy showed an ulcerated lesion in distal ileum with active oozing (Figure 1A) and a non-bleeding arteriovenous malformation (Figure 1B). A 1.5cm ulcerated distal ileum lesion was discovered on single balloon enteroscopy subsequently with biopsy revealing metastatic carcinoma with clear cell phenotype, with immunohistochemistry consistent with primary renal cell carcinoma. A new diagnosis of metastatic RCC was made by single balloon enteroscopy.

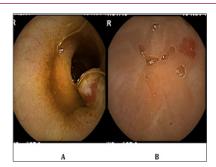


Figure 1: A: Video Capsule Endoscopy images with ulcerated lesion in distal ileum with active oozing, B: nonbleeding arteriovenous malformation.

Patient 2

A 54-year-old male with history of stage 1 clear cell RCC status post right nephrectomy 3.5 years prior, presented to the emergency room with hematochezia, anemia, and chest pain. The patient developed painless hematochezia 6 months prior to admission and had a colonoscopy performed outside of the United States three months prior to admission, which was reportedly normal. He was diagnosed with non-ST elevation myocardial infarction and underwent a left heart catheterization that showed multivessel coronary artery disease. After starting dual anti-platelet therapy with aspirin and clopidogrel, he had frank hematochezia and worsening anemia. An abdominal computed tomography (CT) scan revealed a soft tissue mass in the right nephrectomy surgical bed measuring 3.2cm×3.7cm, innumerable lesions within the left kidney, left adrenal mass, multiple pulmonary nodules and lymphadenopathy consistent with metastatic disease but the colon was noted to be unremarkable. A push enteroscopy and colonoscopy were performed for ongoing intermittent hematochezia. The enteroscope was advanced to approximately 40cm past the ligament

of treitz and examination was entirely normal. The colonoscopy revealed an ulcerated 1.5cm pedunculated mass lesion 35 cm from the anal verge (Figure 2A) with biopsies consistent with clear cell RCC (Figure 2B &1C).

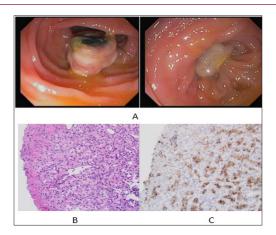


Figure 2: A: 1.5cm pedunculated, lesion was found in the sigmoid colon, 35cm from the anal verge. The lesion had an 8mm eschar over an area of ulceration without active bleeding. B: H&E staining: Large cells with clear cytoplasm are seen which is characteristic of clear cell RCC C: CD10 staining: CD10 is typically expressed on the brush border of renal tubular cells. Positive staining here indicates the renal origin of the cells.

Patient 3

A 62-year-old male with known metastatic renal cell carcinoma presented with anemia and hematochezia. Patient had a CT scan of abdomen/pelvis performed prior to admission which revealed an ill-defined mass at the upper pole of the right kidney measuring 5.8cm×4.5cm but small and large bowel were reported as unremarkable. An esophagogastroduodenoscopy (EGD) did not identify a source of bleeding and a colonoscopy showed blood present throughout colon and terminal ileum without a clear source of bleeding. On following day, repeat colonoscopy revealed blood throughout colon and melena in terminal ileum. Video Capsule endoscopy showed a small clot in proximal jejunum. A push enteroscopy was then pursued, which revealed a 1.2 cm round polypoid lesion in the proximal jejunum occupying one-third of bowel lumen (Figure 3A & 3B). Metastatic renal cell carcinoma lesions were confirmed with biopsies.

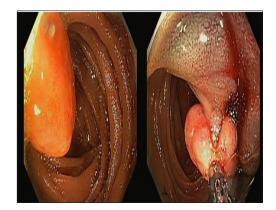


Figure 3: A: Push enteroscopy images with 1.2 cm nodular polypoid lesion B: Circumferential lesion occupying one-third of bowel lumen.

Discussion

At presentation, 20-30% of the patients with RCC have metastatic disease. Prognosis for patients with Stage IV RCC is poor with median survival of only 10-15 months compared to patients with Stage I RCC who have a 5-year survival rate of 80-95% [5]. RCC often metastasizes to lungs, bone, brain, renal fossa and liver. Although metastatic RCC is common, intestinal metastases from RCC are rare and often only reported in case reports [6,7]. Intestinal metastasis from renal cancers often present as hemorrhage, bowel intussusception, bowel obstruction due to luminal occlusion, or rarely as perforation. In the cases presented here, the patients presented with hematochezia or anemia secondary to renal cancer metastases to the small intestines and colon. In two of the patients, capsule endoscopy was key in making the diagnosis of metastatic disease in the small bowel. Given the possibility of intestinal metastases in renal cancers, careful endoscopic evaluation should be performed in patients with RCC presenting with new symptoms of gastrointestinal bleeding or abdominal pain.

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