# Case Study GASTRIC METASTATIS\_OF RENAL CELL CARCINOMA PRE **POLYPS ABSTRACT:** Metastatic tumors of the stomach are very rare, with an incidence of 0, 2%- 0, 7% in the autopsy series. Malignant melanoma, carcinomas of breast, esophagus and lung are the most frequent primary tumor sites. The present case describes a 57-year-old woman who presented to the gastroenterology department with epigastric pain, nausea and vomiting for two months. Examinations revealed gastric metastasis of Renal Cell Carcinoma. **Keywords:** Renal Cell Carcinoma; Metastasis; Stomach; Upper Endoscopy; Kidney

# 27 **INTRODUCTION**

28	The presence of metastasis in the stomach is a rare condition with an incidence of 0, 2%-
29	0, 7% in the autopsy series. Most frequently described primary sites that lead to gastric
30	metastases include skin (malignant melanoma), breast, esophagus and lung (1). <u>R</u> enal <u>C</u> ell
31	Carcinomas originate within the renal cortex and constitute 80 to 85 percent of primary renal
32	neoplasms. Renal Cell Carcinoma can present with a range of sign and symptomsan at
33	presentation, approximately 25 percent of individuals either have distant metastases or
34	advanced locoregional disease (2).

### CASE REPORT

36 A 57-year-old woman was admitted to the hospital complaining of epigastric pain, 37 nausea and vomiting for two months. The patient had a history of right radical nephrectomy 38 for renal cell carcinoma seven years ago. She continued on hemodialysis three times per week 39 because of her atrophic left kidney. The upper endoscopy revealed multiple polypoid masses 40 (2 to 4 cm in diameter) with ulcerations at the corpus of the stomach (Figure 1). Microscopic examination of the biopsies revealed nodular and nested collections of epithelioid clear cells 41 42 invading lamina propria. Tumor cells showed clear cytoplasm, round to ovoid nuclei with finely granular open chromatin and small, inconspicuous nucleoli. Tumor cells were 43 44 immunoreactive with antibodies raised against Vimentin and Pancytokeratin. The histomorphologic features and the immunophenotype resulted in a diagnosis of metastatic 45 46 Renal Cell Carcinoma (Figures 2 and 3). Abdominal and thoracic computed tomography scan revealed multiple metastatic lesions on both lungs. Our patient refused any further treatment 47 48 procedure and the palliative treatment was performed. The patient died 2 months after the 49 gastric endoscopy.

#### 50 **DISCUSSION**

RCC frequently metastasizes to distant organs such as lungs, bones, brain, liver and lymph nodes. However, gastric metastasis from RCC is extremely rare with only 44 cases in the literature reviewed by Herculano et al (3). Gastric metastasis from RCC may be a slow process. The mean period from diagnosis of RCC to diagnosis of metastasis is nearly 7 years (0-23 years) (4). Our patient also had a history of nefrectomy seven years ago. The most common symtoms and signs include gastrointestinal bleeding (melena or hematemesis),

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epigastric pain, anemia from occult blood loss, nausea and vomiting. Our patient presented
with epigastric pain, nausea and vomiting. Gastric metastasis from RCC may presents as
polypoid (a large solitary mass or multiple small polyps) or ulcerated lesions (5). It usually
tends to be a single polypoid lesion. In our case, multiple, polypoid masses in the gastric body
were noted (Figure 3).

Gastric metastasis is usually associated with advanced disease due to concomitant presence of metastases in other organs. The possibility for gastric metastasis even many years after diagnosis and treatment of RCC, is crucial, particularly in patients with gastrointestinal symptoms. Several therapeutic approaches for gastric metastasis from RCC can be considered however since the survival period is extremely short the optimal treatment remains controversial. Total or subtotal gastrectomy, surgical or endoscopic polypectomy, chemotherapy with systemic or targeted drugs is available (6,7).

# 69 CONCLUSION

- Gastric metastases of RCC are rare conditions with less than 50 cases described in the
  literature. Endoscopy can have an important role in the diagnosis particularly in patients with
  gastrointestinal symptoms. However, the optimal treatment for RCC gastric metastasis
  remains unclear.
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87 88	REFE	KENCES
89	1.	Namikawa T, Hanazaki K. Clinicopathological features and treatment outcomes of
90		metastatic tumors in the stomach. Surg Today. 2014; 44(8): 1392-9.
91	2.	Campbell SC, Andrew CN. Renal tumours. In: Wein AJ, Kavoussi LR, Novick AC, et
92		al., editors. Campbell-Walsh urology. 9th ed. Saunders Elsevier Pub; 2007. p. 1582-
93		<mark>605.</mark>
94	3.	Harculano R, Alves I. Treatment of gastric metastases from renal cell carcinoma with
95		endoscopic therapy. Clin J Gasroenterol 2014 Vol: 7(2):1-7.
96	4.	Sakurai K, Muguruma K, Yamazoe S, et al. Gastric metastasis from renal cell
97		carcinoma with gastrointestinal bleeding: a case report and review of the literature.Int
98		Surg. 2014;99(1): 86-90.
99	5.	Xu J, Latif S, Wei S. Metastatic renal cell carcinoma presenting as gastric polyps: A
100		case report and review of the literature. Int J Surg Case Rep 2012; 3(12): 601-4.
101	6.	Namikawa T, Munekage M, Kitagawa H, Okabayashi T, Kobayashi M, Hanazaki K.
102		Metastatic gastric tumors arising from renal cell carcinoma: Clinical characteristics
103		and outcomes of this uncommon disease. Oncol Lett. 2012;4(4): 631-636.
104	7.	Gómez-de-la-Cuesta S, Fernández-Salazar L, Velayos-Jiménez B, Macho-Conesa A.
105		Gastric metastasis from renal cell carcinoma Rev Esp Enferm Dig. 2012; 104(6): 334-
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- 118 Figure 1: Multiple, polypoid masses in the corpus of stomach.





Figure 3: Submucosal nodular collections of epithelioid clear cells, typical histologic
characteristics of RCC in gastric mucosa (H&E, original magnification 40X and 100X).