Introduction

Colorectal cancer (CRC) is a major cause of morbidity and mortality, accounting for more than 9% of cancers worldwide [1].

Survival is highly dependent on the stage of disease at the time of diagnosis, the more advanced stages of the disease the poor prognosis [1].

In patients with CRC, metastasis is the primary driver of cancer-related mortality. The Site of metastasis is associated with cancer-specific survival and is an independent prognostic indicator in metastatic CRC [2].

Distant genitourinary metastasis in CRC is sparsely reported in the literature. To our knowledge, CRC cancer with metastasis to the ureter is an exceedingly rare entity. We present a case of colon cancer with metastasis to the ureter.

Case history

A 76-year-old male with Nil comorbidities presented to the KMC urology department with hematuria associated with clots for 15 days. History of burning micturition. No history of pain/fever. Past history patient is a known case of carcinoma colon diagnosed 17 years ago for which hemicolectomy and colostomy was done. Patient was evaluated for the same, all routine blood investigations are normal and specific investigations like CEA -2.7 ng/ml, with mild elevation of Alp 148 U/L, urine cytology showed no malignant cells, contrast study CECT – CHEST, abdomen and pelvis showed heterogeneously enhancing lesion noted in the right proximal ureter. Patient had undergone Nephrouretrectomy and the HPE showed Adenocarcinoma Enteric Variant Involving Proximal Ureter. This presentation is extremely rare and to date only To our knowledge, only less than 35 cases with metastases from colorectal cancer have been reported to date.

Keywords: Hematuria; Colorectal cancer; Metastases Ureter; Cancer

Discussion

CRC patients develop distant metastases [3], metastasis to the ureter is an exceptionally rare event. In a systematic review, Hu et al. identified 265 cases with metastasis to the ureter. The most common sites of primary tumor include prostate, bladder, breast, GIT, and lymphoma. GIT cancer (bowel) metastasis to the ureter comprised a small portion of the described cases (35/265 cases). Treatment of these cases consisted primarily of renal decompression without metastectomy and segmental ureterectomy with curative intent in a minority of cases [4]. In the present case, the patient has gross hematuria after 17 years of treatment for primary colon cancer. For which nephroureterectomy was done. Given the rarity of ureteral metastasis in CRC, urologic symptoms such as hematuria or obstructive uropathy should not be neglected. Consistent with national guidelines, it is crucial CRC patients undergo routine surveillance so such metastases can be identified early before the onset of irreparable parenchymal damage. To be relevant to our case, surgeons should then reserve a high index of suspicion for ureteral metastasis when hematuria is identified during follow-up.

Conclusion

In the present case, we report late ureteral metastasis in a patient with colorectal cancer. Our case highlights the importance of a heightened index of suspicion for ureteral involvement in CRC when there is hematuria with clots. Treatment of ureteral metastases should be based on the patient’s individual stage and prognosis.

References

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