An Unusual Case of Gastric Cancer presenting with Anemia and Extensive Bone Metastases: A Rare Case Report

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ABSTRACT

Gastric carcinoma with metastases to bone as a first feature is relatively rare. We report a case of a 22 years patient who presented with back ache, loss of appetite, anemia, generalized body ache and weakness. Laboratory investigation showed pancytopenia. A bone scintigram showed extensive skeletal metastases. Upper gastrointestinal endoscopic biopsies from stomach reported as moderately differentiated adenocarcinoma of stomach. The patient received 6 cycles of chemotherapy–DCF regimen and external beam radiotherapy for bone metastases. We report this case for the unusual mode of presentation. In unresponsive anemia with skeletal metastases the possibility of gastric cancer as primary has to be considered by the treating physicians.

Keywords: Gastric carcinoma, Bone metastases, Anemia.

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INTRODUCTION

Bone metastases from solid tumors are known to occur in thyroid, prostate, urinary bladder, breast, lung and kidney.1,2 Bone metastases from stomach cancer as the first site of dissemination is rare and occurs in 0 to 17%. Symptoms of bony pain as first clinical feature is uncommon so is bone metastases.3–5 We report a case of gastric carcinoma who presented with symptomatic bone metastases.

CASE REPORT

A 22-year-old male patient was admitted with back ache, loss of appetite and generalized weakness and anemia for 6 months. He had received 2 blood transfusion for anemia in a local hospital. On examination he was pale, no evidence of organomegaly, icterus and lymphadenopathy. Systemic examination was normal.

Blood investigations showed Hb of 5 gm/dl, WBC count 4,000/mm³, platelets 80,000/mm³, alkaline phosphatase 2,400 U/l, LFT and renal function tests was normal. Peripheral smear was normocytic normochromic anemia. Endoscopy was done and no growth was found except for prominent mucosal folds (Fig. 1). Multiple biopsies from antrum and body were taken. Histopathology confirmed as well-differentiated adenocarcinoma of stomach (Figs 2 and 3). Computed tomography (CT) abdomen showed antral wall thickening of 3 mm (Fig. 4). CT thorax showed no evidence of metastases. Bone scintigraph showed extensive skeletal metastases (Fig. 5). He received 6 cycles of chemotherapy (DCF regimen), and external beam radiotherapy for skeletal metastases. He was on regular follow-up on palliative treatment for pain and he succumbed after 3 months of diagnosis.

DISCUSSION

Bone metastases from gastric cancer as a first symptom is a rare. It is usually seen in advanced cancer and associated with

Fig. 1: Endoscopy photograph showing prominent gastric mucosal folds

Fig. 2: Microphotograph showing moderately differentiated adenocarcinoma of stomach (H&E 100x)
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CONCLUSION

A thorough work up of the patients with anemia is mandatory to rule out hemolytic anemia, malignant conditions, such as gastric cancer with early bone metastases has to be considered.

REFERENCES


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