An Unusual Case Of Gastric Carcinoma Presenting With Only Bone Metastasis As The Site Of Dissemination
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INTRODUCTION
Bone metastasis occurs in only 0-17% of cases of gastric carcinoma (1). We present an unusual case of carcinoma of the stomach with metastasis to the entire axial skeleton and no evidence of spread either to the liver or lung.

CASE REPORT
A 60-year-old man was admitted with history of anemia, loss of weight and loss of appetite. Investigations showed Hb of 7 g/dl, WBC count 3500/µl, platelets 80,000/µl, alkaline phosphatase (ALP) 2425 U/l and prothrombin time 10% of normal. Hepatic and renal functions were normal. A peripheral smear suggested normocytic normochromic anemia with atypical cells. A bone marrow biopsy was done revealing evidence of metastasis from the gastrointestinal tract. An ultrasound of the abdomen was done which showed concentric thickening of the antral wall of 8mm thickness. There was no evidence of ascites, liver secondaries, or pelvic deposits. A CT scan of abdomen and thorax showed no organomegaly, no evidence of lymphadenopathy and absence of lung secondaries. An endoscopy was done and no growth was found. Multiple biopsies from the antrum and body were taken. The histopathology suggested a well differentiated adenocarcinoma of the stomach. Bone scintigraphy revealed abnormal uptake in the entire axial skeleton. Investigations showed WBC count 3500/µl, platelets 80,000/µl, alkaline phosphatase (ALP) 2425 U/l and prothrombin time 10% of normal. Hepatic and renal functions were normal. The patient was planned for a gastrectomy followed by chemotherapy but discharged against medical advice.

DISCUSSION
The present case exhibits an unusual pathological behavior of gastric carcinoma: extensive bone metastasis in the absence of other sites of dissemination. Metastasis to the bone and/or bone marrow is relatively rare with gastric carcinoma. The spread of solid tumors to the bone was reported as early as 1939 by Jarchow. The exact mechanism of spread to the bone in gastric carcinoma is not exactly known, given the few reports available. Review of literature suggests that the rich supply of blood capillaries in the gastric mucosa may contribute to the early spread of cancer to the bone. It is also suggested that an alternate non-portal route through the vertebral venous plexus may be the route of bone metastasis from gastric carcinoma. A review of the literature suggested that schirous carcinomas and poorly differentiated Adenocarcinoma, histological and macroscopically Borrmann types III and IV, were the predominant types of gastric cancer which resulted in bone metastases. In patients presenting with a bone secondary or secondaries carcinoma stomach may be a primary site after all the other sites.

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References

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