Scalp Metastasis of Gastro-Esophageal Junction Adenocarcinoma: A Rare Occurrence

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ABSTRACT
Cutaneous metastasis is one of the many skin changes which are associated with internal malignancies. Breast, lung, and colon are the most common sources of internal primary malignancies. Gastro-esophageal junction adenocarcinoma is a rare cause of cutaneous metastasis to the scalp. Gastric adenocarcinoma usually metastasizes to the liver, peritoneal cavity and regional lymph nodes more often than to skin. We are presenting a case of cutaneous metastasis on the scalp of a 79-year-old man, who was diagnosed and operated for gastro-oesophageal junction adenocarcinoma one year back.

INTRODUCTION
Among the many skin changes which are associated with internal malignancies, one is the skin involvement which occurs as a result of cutaneous metastasis from an internal tumour. The incidence of cutaneous metastasis from malignant tumours has been estimated to be between 0.7% and 10.8% [1], among which the most common sources of internal primary malignancies are breast, lung, and colon.

Gastro-esophageal junction adenocarcinoma is a rare cause of cutaneous metastasis to the scalp [2]. Gastric adenocarcinoma usually metastasizes to the liver, peritoneal cavity and regional lymph nodes more often than to skin [3].

We are presenting a case of cutaneous metastasis on the scalp of a 79-year-old man who was diagnosed and operated for gastro-oesophageal junction adenocarcinoma one year back.

CASE REPORT
A 79-year-old male patient who underwent a total radical gastrectomy with Roux-en-Y and oesophago-jejunostomy 1 year back for moderately differentiated adenocarcinoma of gastro-oesophageal junction (staged pT3N2M0), was hospitalized again with the chief complaint of a progressively increasing swelling in the right parietal region of scalp, with mild bleeding from the lesion, on and off. The swelling had been present at the time of his previous operation, one year back, but it was very small and hence, it had received no medical attention. Local examination showed a firm, indurated, highly friable mass, (3 x 3) cm, which was not attached to the cranial vault. X-ray was normal, except for increased vascularity of the lesion. CT revealed a hyperdense lesion in the right parietal extracranial space, which did not erode the skull. The lesion was totally excised under local anaesthesia and it was sent for histopathology.

Histopathology revealed infiltrating neoplastic glands in the dermis and subcutaneous tissue [Table/Fig-1,2], which were irregular, but which were somewhat well formed and consisted of columnar cells which had large hyperchromatic and pleomorphic nuclei with inconspicuous nucleoli [Table/Fig-3]. Few solid nests of neoplastic cells were also noted [Table/Fig-4]. The cells were also found to contain mucin at places, which laterally displaced the nucleoli. Periodic Acid Schiff with diastase digestion confirmed the presence of mucin in the cells. The diagnosis of cutaneous metastasis from intestinal type of gastric adenocarcinoma was confirmed. The patient chose a conservative management for the metastatic skin lesion and hence, was discharged after proper palliation.

Keywords: Cutaneous metastasis, Gastro-esophageal junction adenocarcinoma
has been demonstrated to be the umbilical area (Sister Joseph's multiple subcutaneous nodules on the trunk and the typical location cutaneous metastases from gastric adenocarcinoma has been 0.8% of the cases [6]. The most common manifestation of such relatively rare cause of cutaneous metastasis, accounting for only range from 3.4% to 4% [5]. Gastric adenocarcinoma is however, a in females. Cancers of the lung, colon/rectum, kidney, ovary, and have been seen for lung cancer in males and for breast cancer 0.7% to 9% [4,5]. The highest incidences of cutaneous metastasis of visceral malignancies. The overall incidence of cutaneous metastasis is a relatively uncommon manifestation DISCUSSION Cutaneous metastasis is a relatively uncommon manifestation of visceral malignancies. The overall incidence of cutaneous metastasis from visceral neoplasms is 5.3% and it ranges from 0.7% to 9% [4,5]. The highest incidences of cutaneous metastasis have been seen for lung cancer in males and for breast cancer in females. Cancers of the lung, colon/rectum, kidney, ovary, and bladder all have similar rates for cutaneous metastasis, which range from 3.4% to 4% [5]. Gastric adenocarcinoma is however, a relatively rare cause of cutaneous metastasis, accounting for only 0.8% of the cases [6]. The most common manifestation of such cutaneous metastases from gastric adenocarcinoma has been multiple subcutaneous nodules on the trunk and the typical location has been demonstrated to be the umbilical area (Sister Joseph's nodule) [7], which is near the primary cancer. Scalp in a rare site for metastasis of gastroesophageal junction adenocarcinoma [8] and this case is being presented because of the unusual location of the cutaneous metastasis. The most common clinical presentation of cutaneous spread of internal cancer is the developments of nodules, usually firm and painless. However, there are exceptions to this rule, as has been shown in the index case, who developed a bleeding friable swelling. Other clinical presentations include neoplastic alopecia, carcinoma erysipelatoides, erythema annulare like, herpetiform or zosteriform, target like, pyodermatic, and morphea-like lesions [9].

In the Korean-language scientific literature, it has been reported that Kim et al., [10] investigated 4,806 patients with gastric carcinoma, of which only 15 (0.003%) had developed cutaneous metastasis. Survival after diagnosis of the skin metastases is very short, ranging from 1 to 34 months [11]. Lookingbill et al., found an average survival of 18 months in colorectal cancers with cutaneous metastases. In general, skin metastasis is a poor prognostic sign. Treatment involves radiotherapy or excision and patients may survive up to a year [12].

In conclusion, in patients with internal malignancies, every skin nodules, nonhealing ulcers and persistent indurated erythema must be examined and investigated properly. Recognition of these cutaneous metastases can lead to diagnoses of underlying malignancies, it can help in accurate staging of the disease and enable life-prolonging therapy and in achieving meaningful palliation.

REFERENCES

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