



A Rare Case of Carcinoma of Unknown Primary in an Elderly Female: Parotid Metastases from Gastrointestinal Primary

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Abstract

Keywords

- gastrointestinal tract
- parotid metastases
- unknown primary

Parotid gland is a rare site of metastasis from gastrointestinal (GI) tract primary cancer. Here, we present an interesting case report of parotid metastasis from unknown primary with probable lower GI tract as a primary site of cancer, with a normal colonoscopy and upper GI endoscopy. This case report highlights the importance of immunohistochemistry in taking treatment decisions during dilemmatic situations.

Introduction

The most common sites of metastases from colon cancer are liver, lung, and peritoneum. Metastases to other organs are relatively rare.^{1,2} Metastases to the parotid gland are very rare event. The primary sites that can involve parotid gland as a site of metastases are cutaneous melanoma and squamous cell carcinoma of head and neck cancers.³ Parotid metastasis from colon cancer is extremely rare. We report an interesting case who presented with symptoms related to parotid gland enlargement and finally diagnosed as metastases from lower gastrointestinal (GI) tract, with a possible regressed primary. The primary site is confirmed after an extensive immunohistochemical evaluation.

Case Report

A 72-year-old female presented to our hospital with the complaints of swelling in the left parotid region for the last 1 month. Examination revealed enlarged parotid gland and enlarged bilateral left cervical and supraclavicular nodes. Skin and breast examination was normal. Magnetic

resonance imaging of the face and neck revealed a heterogeneously enhancing mass in the deep lobe of the parotid extending to the superficial lobe with central necrosis. Nodal masses are seen in the bilateral lower, posterior cervical, left infraclavicular areas. Ultrasound-guided biopsy was done from cervical lymph node. Histology was suggestive of high-grade adenocarcinoma. Immunohistochemistry was done, which was positive for CK20, CDX2, and MUC2 and diffusely positive for SATB2 marker and negative for CK7 marker suggestive of primary from the lower GI (colorectal) origin. Positron emission tomography-computed tomography was done (► **Fig. 1**), which was suggestive of metabolically active soft tissue lesion involving the deep lobe of the parotid gland and metabolically active enlarged cervical, bilateral supraclavicular, left internal mammary, periportal, pericaval, and paraaortic lymph nodes. There was no other metabolically active disease in the body and GI tract. Colonoscopy was done, which revealed no abnormality. Upper GI endoscopy was normal and tumor markers such as CEA, CA19–9, and CA-125 were within normal limits.

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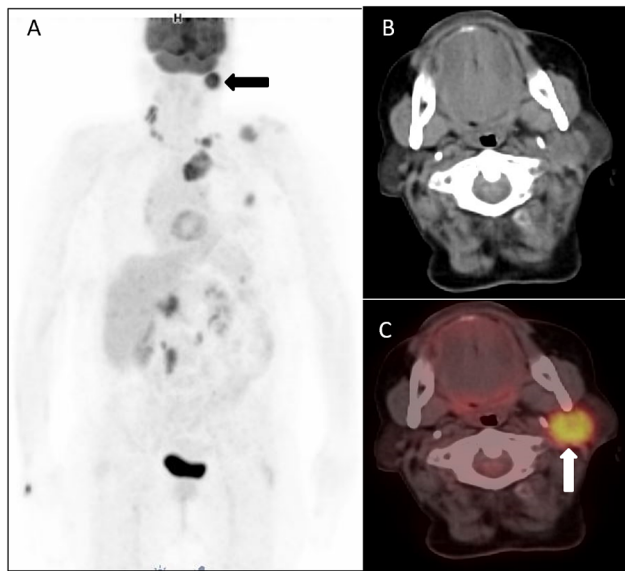


Fig. 1 18F fluorodeoxyglucose positron emission tomography-computed tomography image: (A) maximum intensity projection, (B) axial computed tomography, and (C) fused axial, showing a metabolically active left parotid lesion (black arrows). Image (A) also shows metabolically active lymph nodes and bone lesions.

She was started on FOLFOX-based palliative chemotherapy. Post six cycles, reevaluation was suggestive of good response with decreased swelling in the parotid region with partial response radiologically according to the RECIST criteria. This case highlights the importance of immunohistochemistry in all doubtful cases and those presenting with atypical clinical signs. To our knowledge, this is only the sixth case of parotid metastases from colon cancer, but the first case to present with symptoms of parotid metastases with undetectable colonic primary. Furthermore, metastases to

the parotid gland are considered as either a late or terminal event and often considered that treatment is unnecessary in the earlier literature.⁴ Palliative chemotherapy was offered to this patient and the patient responded to chemotherapy with symptomatic improvement.

Declaration of Patient Consent

The authors certify that they have obtained all appropriate patient consent forms. In the form, the patient(s) has/have given his/her/their consent for his/ her/their images and other clinical information to be reported in the journal. The patients understand that their names and initials will not be published and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

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Nil.

Conflicts of Interest

There are no conflicts of interest.

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