

Orbital and infratemporal fossa metastasis: An unusual initial presentation of adenocarcinoma of lung

Tamojit Chaudhuri,

Kamlesh Yadava¹

Departments of Radiotherapy,
¹Pathology, Sanjay Gandhi
Postgraduate Institute of Medical
Sciences, Lucknow, Uttar Pradesh,
India

Address for correspondence :

Dr. Tamojit Chaudhuri,
Department of Radiotherapy,
Sanjay Gandhi Postgraduate
Institute of Medical Sciences,
Lucknow, Uttar Pradesh, India.
E-mail: tamojit.cnmc@gmail.com

ABSTRACT

Orbital metastasis as initial presentation of adenocarcinoma of lung is an extremely rare phenomenon. Here, we report a 46-year-old non-smoker Asian woman, who presented with right eye proptosis due to right orbital and infratemporal fossa metastasis, as the first presentation of adenocarcinoma of right lung.

Key words: Adenocarcinoma lung, chemotherapy, orbital metastasis, radiotherapy

CASE REPORT

Orbital and infratemporal fossa (ITF) metastasis as initial presentation of adenocarcinoma of lung is extremely rare. We report a 46-year-old Asian woman, who presented with right eye proptosis and diffuse swelling over right cheek [Figure 1]. She had no other complaints or abnormal findings on clinical examination. A contrast enhanced computed tomographic (CECT) scan of face and neck revealed a solid mass in the right orbit with extension to the ITF [Figure 2]. Histopathologic examination of the biopsy from the mass showed poorly differentiated metastatic adenocarcinoma [Figure 3], which was thyroid transcription factor 1-positive [Figure 4]. A total-body CECT scan revealed a large heterogeneously enhancing mass lesion in the upper and middle lobe of the right lung [Figure 5]. CT guided biopsy from the lung mass revealed poorly differentiated adenocarcinoma [Figure 6]. No other metastases were detected. Therefore, she was diagnosed

as a case of metastatic lung adenocarcinoma (T3N0M1, stage IV), and planned for palliative chemotherapy with pemetrexed (500 mg/m²) plus carboplatin (AUC = 5), iv on Day 1, every 3 weekly. She received 30 Gray/15 fraction palliative radiotherapy to the orbital mass. One month after completion of radiation, there was complete reduction of proptosis [Figure 7]. But, CECT thorax, done after 3 cycles of chemotherapy, revealed clear progression of the primary lung mass. The patient died 5 weeks later as a result of respiratory failure.



Figure 1: Initial presentation with right eye proptosis and right cheek swelling

Access this article online

Quick Response Code:



Website:
www.ijmpo.org

DOI:
10.4103/0971-5851.116221



Figure 2: CECT scan of face and neck showing a solid mass in the right orbit with extension to the ITF

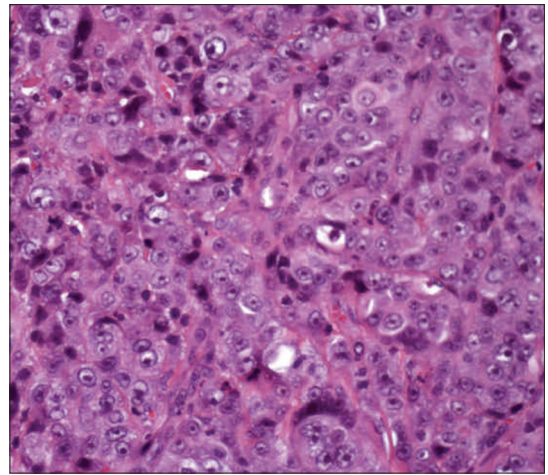


Figure 3: Histopathologic study of the orbital mass showing proliferation of adenocarcinoma cells (H and E, ×400)

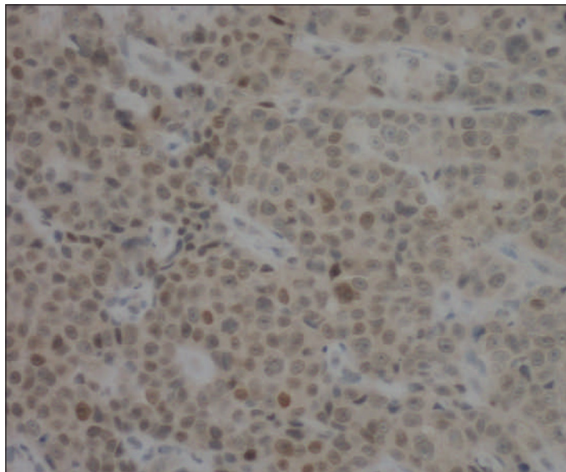


Figure 4: The tumor cells were positive for thyroid transcription factor 1 (×400)

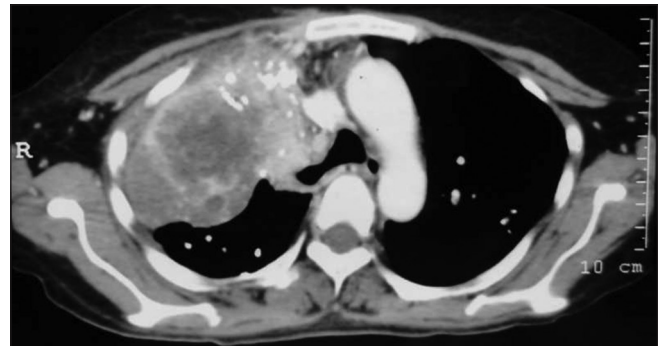


Figure 5: CECT scan of thorax showing large heterogeneously enhancing mass lesion in the upper and middle lobe of the right lung

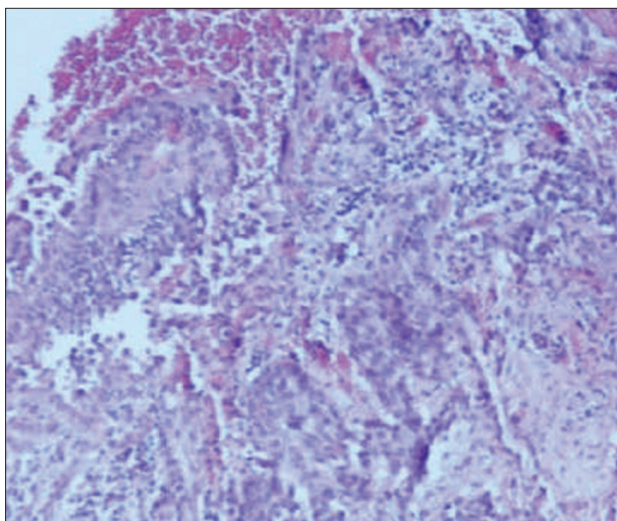


Figure 6: Histopathologic study of the CT guided biopsy from the lung mass, showing poorly differentiated adenocarcinoma (H and E, ×100)



Figure 7: One month post radiation, complete reduction of right eye proptosis

How to cite this article: Chaudhuri T, Yadava K. Orbital and infratemporal fossa metastasis: An unusual initial presentation of adenocarcinoma of lung. Indian J Med Paediatr Oncol 2013;34:132-3.
Source of Support: Nil, **Conflict of Interest:** None declared.