To the Editor,

Tonsil cancers account for 0.3% of all cancers and 6.7% of head and neck cancers. However, metastasis to tonsil is extremely rare. The kidney, skin, lung and breast are most common sites of primary tumor. Different histological types of lung cancer can metastate to tonsil. We present a case with left tonsil metastasis of lung adenocarcinoma.

A 50-year-old male was admitted to Department of Otorhinolaryngology, Faculty of Medicine, University of Ankara with one year history of sore throat, dysphagia and halitosis. He had been treated with antibiotics a few times before being admitted to our clinic. There was no history of tobacco or alcohol. In surgical history, he underwent operation for lung adenocarcinoma 2.5 years before and there was no chemotherapy or radiotherapy history. In physical examination, left tonsil was asymmetric and hypertrophic resembling a peritonsillar abscess and inferior and posterior pole of the left tonsil were necrotic (Figure 1). CT and MR scans showed 2.5 x3x5 cm cystic and necrotic mass on left tonsil (Figure 2,3).

Figure 1. Endoscopic examination of patient. Asymmetric, hypertrophic appearance resembling peritonsillar abscess, necrosis in inferior pole of left tonsil.

Figure 2. Axial CT scan of patient. Arrow shows us cystic and necrotic mass in left tonsil.
We performed biopsy on left tonsil which revealed lung adenocarcinoma metastasis (Figure 4,5). After the diagnosis, PET/CT scan showed pathological involvement in left tonsil and left neck lymph nodes and there was no recurrence of primary tumor site. The patient was recommended surgery, however didn’t accept. Afterwards, he was admitted to another hospital and underwent tumor tonsillectomy, neck dissection and pectoralis major flap for reconstruction and died after 10 days after surgery because of respiratory failure.

Metastatic tonsil tumor accounts for 0.8% of malignant tonsil neoplasms. Many organs and histological types have been described in the literature but there are less than 100 cases from lung. Tonsillar metastasis from lung are mainly from small cell carcinoma. First tonsillar metastasis from lung adenocarcinoma was described by Mastromikolis et al. The route of spread of carcinoma is controversial, because palatine tonsil has only efferent pathways. For intraabdominal primary tumors hematogeneous spread may be responsible for metastasis. Retrograd spread has also been proposed but is considered unusual. The prognosis of metastatic tonsil tumor is very poor. There is no standard treatment methods on metastases to tonsils from lung cancer. Surgery, radiotercapy, chemotherapy, chemo-radiotherapy and immunotherapy have all been tried before. The most important point with our case is that the patient had his complaints for 1 year and received irrelevant treatments. As in our case, tonsil neoplasms may present with peritonsillar abscess. However, patients with history of cancer and prolonged complaints need a thorough evaluation of suspicious tonsil enlargement. Metastases may be synchronous with the lung tumor or may be observed before or after the treatment of primary tumor. Careful examination and radiological evaluation are very important in cancer patients; and biopsy must be performed in all cases with clinical suspicion.

Figure 3. T2 weighted coronal MR scan.
Arrow shows cystic necrotic mass which compromising the airway in left tonsil.

Figure 4. Malignant epithelial cells infiltrating lymphoid tissue of tonsil and ulcerating the mucosal surface
(HE, digital image X4.5; insetX44.5).

Figure 5. Nuclear TTF1 staining of tumor cells, showing pulmonary origin
(TTF1, digital image X13.8).
REFERENCE


