**Introduction**

Involvement of the bronchus by metastatic tumors from non-pulmonary sites is an uncommon mode of metastasis. Endobronchial metastases (EBMs) from hepatocellular carcinoma (HCC) are very rare with sporadic literature reports (1-3). The current case report presents a patient with EBM from HCC 15 years after primary surgery.

**Case report**

A male patient, 72 years old, presented to our hospital complaining of hemoptysis for 4 days. There was no cough, sputum weight loss or other symptoms. He had undergone hepatectomy 15 years ago for HCC. A history of type 2 diabetes and hypertension was also noted. Serum carbohydrate antigen 21-1 (CA211) level was slightly elevated. Contrast-enhanced computed tomography (CT) showed an enhancing mass involving the right upper lobe apical segment (Figure 1). There is no other nodules or masses identified in abdominal contrast-enhanced CT and magnetic resonance imaging. The bronchoscopy revealed an endobronchial lesion located in the right upper lobe apical segment, which obstructed it almost completely (Figure 2A). The bronchoscope was not able to pass through it. The pathological examination of the mass showed tumor cells arranged in a nest-like and glandular tube pattern (Figure 2B). Considering the patient’s history, bronchoscopy, and histopathology with immunohistochemical staining results, the final diagnosis was metastatic hepatocellular carcinoma.

**Discussion**

Lungs is the commonest site of metastases from extra-
pulmonary origins. However, endobronchial growth of metastatic tumors is a rare event. Extrapulmonary tumors often associated with endobronchial metastasis include breast carcinoma, colorectal carcinoma, and renal carcinoma. Dyspnea, cough and hemoptysis are the most common symptoms of patient with endobronchial metastases (4). CT findings often show the endobronchial lesion with atelectasis, adenopathy, pulmonary nodules and effusion. It is difficult to distinguish EBM from primary lung cancer by radiographic findings and clinical symptoms. EBM from HCC is very rare that only few cases reported so far. In addition, solitary EBM from HCC after primary surgery has been described in only one case (3). The patient had undergone hepatectomy several years ago and was completely asymptomatic till presented with hemoptysis. In our case, the latency period from primary HCC to endobronchial metastasis is much longer (15 years) than the previous one. Furthermore, bronchus was the only metastatic lesion detected.

Acknowledgments

Funding: None.

Footnote

Conflicts of Interest: All authors have completed the ICMJE uniform disclosure form (available at http://dx.doi.org/10.21037/qims.2020.02.23). The authors have no conflicts of interest to declare.

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References


Figure 2 The bronchoscope and pathological examination of the mass. (A) Bronchoscopy showed the endobronchial mass obstructing the right upper lobe apical segment. (B) Hematoxylin and eosin (H&E) staining of the mass showed massive hemorrhagic necrosis. Tumor cells arranged in a nest-like or glandular tube pattern (magnification, ×100).