In 2008, a 30-year-old man with high-grade chondroblastic osteosarcoma of the right maxillary sinus was treated with a combination of polychemotherapy, surgery, and radiation therapy. In 2010, two lung metastases, detected on a computed tomography (CT) scan, were treated with percutaneous radiofrequency ablation. In 2011, an additional lung nodule was treated with radiofrequency ablation. After 6 months, in September 2011, a CT scan revealed two suspect masses, a mediastinal adenopathy and a pancreatic tumor associated with a floating thrombus in the splenic vein. Endoscopic ultrasound (EUS) showed a pancreatic tumor with thin central calcifications, causing thrombosis of the splenic vein. The lesion showed little enhancement after an injection of sulfur hexafluoride (SonoVue, Bracco International BV, Amsterdam, the Netherlands), and very high-density (strain ratio 105) on elastography, suggestive of malignancy. In the paracardial region, EUS revealed the adenopathy mass with a similar appearance as the pancreatic mass, with central calcifications. The two lesions were strongly suggestive of metastatic osteosarcoma. Fine-needle aspiration biopsy (FNAB) of both lesions was carried out. The quality of the biopsy core samples was excellent, and histological analysis revealed two different areas of differentiation, including a poorly differentiated tumorous area consisting of small-sized round to fusiform cells and focal area of osteoid deposited in a fine lace-like pattern. For both lesions, the diagnosis of metastasis from high-grade chondroblastic osteosarcoma was confirmed by the French Sarcoma Pathologist Network. After 3 cycles of ifosfamide/etoposide-based chemotherapy, the two lesions appeared stable on CT scan, and the patient was asymptomatic. He remains on chemotherapy 5 months after the diagnosis was made.

Osteosarcoma is an osteoid-producing tumor with high metastatic potential, but pancreatic secondary lesions are exceptional [1,2]. As exemplified by our case, EUS-FNAB [3–5] is a reliable method for diagnosis of pancreatic metastasis. Such an approach should be considered before any therapeutic decision is made, notably pancreatectomy, in patients with pancreatic mass and history of primary tumor. Use of EUS-FNAB should aid early detection of pancreatic metastases, when they are still amenable to potentially curative surgical removal.
Endoscopy_UCTN_Code_CCL_1AF_2AZ_3AB

Competing interests: None

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Acknowledgments

This work was supported by Institut Paoli-Calmettes and Aix-Marseille University.

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Correction (1.8.2012)


This article has been corrected and updated and is replaced by a new version from Bertucci F et al. Pancreatic metastasis from osteosarcoma diagnosed by endoscopic ultrasound fine-needle aspiration biopsy (EUS-FNAB). The text has undergone minor editing and the authors list was augmented.