A 71-year-old man with a history of diabetes presented with unexplained weight loss. A cystic lesion was discovered incidentally in the tail of his pancreas during a computed tomography (CT) scan of the chest. A subsequent CT scan of the abdomen 5 months later revealed interval enlargement of the lesion to 6×5 cm, compared with 3.5×3 cm on the initial imaging. No pancreatic ductal dilatation was noted.

An endoscopic ultrasound (EUS) revealed a cystic lesion of 4.5×3.8 cm in size with intracystic hypoechoic debris in the pancreatic tail. During EUS, needle-based confocal endomicroscopy (nCLE) with an AQ-Flex miniprobe (Cellvizio, Mauna Kea Technologies, Paris, France) demonstrated sheets of cells (10 μm in diameter) with some very large cells (40–60 μm) containing prominent nuclei, which were suggestive of malignancy (Fig. 1 a, b; Video 1). Fine needle aspiration (FNA) was performed with cytology revealing cells suggestive of adenocarcinoma in a background of extensive necrosis.

The patient subsequently underwent distal pancreatectomy and splenectomy with en bloc wedge resection of the stomach because of an intraoperative finding of tumor invasion into the posterior body of the stomach. Histopathology of the surgical specimen showed poorly differentiated carcinoma with sarcomatoid differentiation. Microscopically, the lesion was composed of sheets of loosely cohesive large pleomorphic epithelioid cells with scattered multinucleated giant cells (Fig. 1 c; Video 1). The resection margins were negative for carcinoma but two of seventeen lymph nodes were positive for metastatic carcinoma.

Poorly differentiated carcinomas of the pancreas that present as a cystic lesion are rare. The morphology is attributed to cystic degeneration of a solid tumor rather than a primary cystic lesion [1]. To our knowledge, this is the first report of EUS-guided nCLE being used to evaluate a pancreatic cystic lesion in which large malignant cells were convincingly visualized. This report adds to the growing body of literature describing EUS-nCLE in pancreatic cystic lesions.

Competing interests: None
Acknowledgments

This study was funded by an American College of Gastroenterology pilot research grant (S.K.): ClinicalTrials.gov NCT02516488.

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DOI http://dx.doi.org/10.1055/s-0042-118457
Endoscopy 2016; 48: E363–E364
© Georg Thieme Verlag KG Stuttgart - New York
ISSN 0013-726X

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Li Feng et al. Pancreatic carcinoma with sarcomatoid differentiation ... Endoscopy 2016; 48: E363–E364