

**2** Name of Journal: *World Journal of Gastrointestinal Endoscopy*

ESPS Manuscript NO: 23104

Manuscript Type: *Review*

What are the current and potential future roles for **3** endoscopic ultrasound in the treatment of pancreatic cancer?

**77** Stephen Y Oh, Shayan Irani, Richard A Kozarek

# **19** Abstract

Pancreatic adenocarcinoma is the fourth leading cause of cancer-related death in the United States. Due to the aggressive tumor biology and late manifestations of the disease, long-term survival is extremely uncommon and the current 5-year survival rate is 7%. **1** Over the last two decades, endoscopic ultrasound (EUS) has evolved from a diagnostic modality to a minimally invasive therapeutic alternative to radiologic procedures and surgery for pancreatic diseases. **21** EUS-guided celiac plexus intervention is a useful adjunct to conventional analgesia for patients with pancreatic cancer. EUS-guided biliary drainage **76** has emerged as a viable option in patients who have failed ERCP. Recently, the use of lumen-apposing metal stent to create gastrojejunal anastomosis under EUS and fluoroscopic guidance in patients with malignant gastric outlet obstruction **27** has been reported. On the other hand, anti-tumor therapies delivered by EUS, such as the injection of anti-tumor agents, brachytherapy and ablations are still

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Current data demonstrate that EUS-guided fine-needle injection (EUS-FNI) is ... The utilization of endoscopic ultrasound in the treatment of pancreatic cancer .... Some results show that PDT possesses potential advantages, such as tissue .... and interventional EUS treatment may indicate the future direction of PC treatment.

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