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Manuscript Type: SYSTEMATIC REVIEWS

Local ablation of pancreatic tumors: State of the art and future perspectives

Granata V *et al.* Local ablation of pancreatic tumors

²¹ Vincenza Granata, Roberta Grassi, Roberta Fusco, Andrea Belli, Raffaele Palaia, Gianpaolo Carrafiello, Vittorio Miele, Roberto Grassi, Antonella Petrillo, Francesco Izzo

Abstract

BACKGROUND

Currently, the technologies most commonly used to treat locally advanced pancreatic cancer are radiofrequency ablation (RFA), microwave ablation, and irreversible (IRE) or reversible electroporation combined with low doses of chemotherapeutic drugs.

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Oct 27, 2014 · During the last two decades, various **local thermal ablative** techniques for the treatment of unresectable **hepatocellular carcinoma (HCC)** have been developed. According to internationally endorsed guidelines, percutaneous **thermal ablation** is the mainstay of treatment in patients with small HCC who are not candidates for surgical resection or transplantation.

Cited by: 60**Author:** Giovan Giuseppe Di Costanzo, Giampiero F...**Publish Year:** 2014

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High intensity focused ultrasound (HIFU) applied to hepato-bilio-pancreatic and the digestive system-current state of the art and future perspectives. Digestive system clinical applications of **HIFU** are limited to pancreatic and liver cancer. It is safe and well tolerated.

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Pancreatic Neuroendocrine Tumors: State-of-the-Art ...

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Surgery is the mainstay of treatment for **pancreatic neuroendocrine tumors**, and includes surgical debulking of both the primary **tumor** and liver metastases, when possible. The **future** treatment of unresectable **pancreatic neuroendocrine tumors** appears promising, with peptide receptor radionuclide therapy a potential option and several newer drugs coming down the pipeline.

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For the most part, however, malignant **tumors** are too large at patient presentation to allow effective **local tumor** control with ablative methods, and the chance of cure is dependent upon complete resection, which sharply limits the role of percutaneous **ablation** as primary treatment.

Cited by: 142**Author:** Daniel Rosenthal, Matthew R. Callstrom**Publish Year:** 2012

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