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## Case report: Irreversible electroporation for locally ...

<https://www.ncbi.nlm.nih.gov/pubmed/28941969>

DISCUSSION: Irreversible electroporation for locally advanced pancreatic cancer is an emerging technique which attempts to improve local control of locally advanced, non-metastatic pancreatic cancer. Early data have demonstrated the potential for improved long-term survival in these patients, although further studies are needed to confirm safety and efficacy of this technique.

Cited by: 1

Author: Sonia Orcutt, Bela Kis, Mokenge Malafa

Publish Year: 2017

## Irreversible electroporation for locally advanced ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5768149>

In this report we present a case on the application of irreversible electroporation for LAPC patients by a minimally invasive surgical approach, which made use of laparoscopic ultrasound for electrode positioning. To our knowledge this is the first reported case. Pancreatic cancer is one of the most aggressive human malignancies.

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Author: Ernesto Tartaglia, Massimiliano Fabozzi, ...

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## Percutaneous Irreversible Electroporation of Surgically ...

<https://www.sciencedirect.com/science/article/pii/S1051044311013522>

Primary therapeutic modalities for stage III pancreatic carcinoma are chemotherapy and radiation. The present report of successful ablation of locally advanced pancreatic cancer suggests that IRE may have a role in this location for local tumor control. Encouraging results have also been reported with thermal ablation of the pancreas.

Cited by: 111

Author: Sandeep Bagla, Dimitrios Papadouris

Publish Year: 2012

## Percutaneous Irreversible Electroporation of Surgically ...

[https://www.researchgate.net/publication/221936804\\_Percutaneous\\_Irreversible...](https://www.researchgate.net/publication/221936804_Percutaneous_Irreversible...)

Introduction: Irreversible electroporation (IRE) has developed as a novel percutaneous ablative technique over the past decade and its utility in the treatment of primary and metastatic liver ...

## [PDF] Irreversible electroporation in a case of pancreatic ...

<https://www.biomedcentral.com/track/pdf/10.1186/s12957-018-1553-9>

## Irreversible

Irreversible electroporation (IRE) is a short but strong electric field applied through nanoprobes in the cell membrane, resulting cell death. IRE is a thermal or radiation-free tumor ablation in real time, extracellular matrix, and the technique, in the form of a soft tissue tumors.

Wikipedia

Data from: Wikipedia

Suggest an edit

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 52231

**Manuscript Type:** CASE REPORT

## Irreversible electroporation for liver metastasis from pancreatic cancer: A case report

Yang-Yang Ma, Juan-Juan Shi, Ji-Bing Chen, Ke-Chen Xu, Li-Zhi Niu

### Abstract

#### BACKGROUND

Pancreatic cancer has a poor prognosis; 40%–50% of patients have liver metastases at the time of initial diagnosis and only 15%–20% undergo surgical resection. Irreversible electroporation (IRE) is a new, non-thermal local ablation method for solid tumors that induces cell membrane permeabilization, resulting in unrecoverable nanoscale perforation and apoptotic cell death without damaging the structural components of tissues.

#### CASE SUMMARY

We report a case of a 66-year-old female patient with liver metastases from pancreatic cancer with a pathological diagnosis of poorly differentiated

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## Case report: Irreversible electroporation for locally ...

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## Case report: Irreversible electroporation for locally ...

<https://www.sciencedirect.com/science/article/pii/S2210261217304443>

Locally advanced pancreas cancer (LAPC) has minimal options for local control. Irreversible electroporation (IRE) can potentially improve local control for LAPC. We present a case of IRE with literature review and risks and benefits of IRE. Future studies are needed to clarify which patients may benefit most from IRE.

Cited by: 1

Author: Sonia Orcutt, Bela Kis, Mokenge Malafa

Publish Year: 2017

## Irreversible electroporation in a case of pancreatic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6320590>

Jan 05, 2019 · Following that, the patient underwent exploratory laparotomy and irreversible electroporation (IRE) ablation of the pancreatic tumor as well as local excision and microwave ablation of liver lesions which were suspicious for metastasis.

## Percutaneous Irreversible Electroporation of Surgically ...

<https://www.sciencedirect.com/science/article/pii/S1051044311013522>

Primary therapeutic modalities for stage III pancreatic carcinoma are chemotherapy and radiation. The present report of successful ablation of locally advanced pancreatic cancer suggests that IRE may have a role in this location for local tumor control. Encouraging results have also been reported with thermal ablation of the pancreas.

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