

For additional information, call UofL Physicians – Surgical Oncology at 583-8303.

Indications for Irreversible Electroporation (Nanoknife) in Locally Advanced (Stage 3) Pancreatic Adenocarcinoma

Indications	<ol style="list-style-type: none"> <li>1) Appropriately staged Pancreatic Adenocarcinoma, including either 3 Phase Thin Cut CT Scan with Pancreatic Protocol or Dynamic MRI, with Diagnostic laparoscopy to rule out sub-radiologic occult metastasis</li> <li>2) Completion of 3-4 months of Induction Chemotherapy with or without radiation therapy based on patients symptoms</li> <li>3) Maximum Axial and Anterior to Posterior Tumor Dimension of <math>\leq 3.5</math>cm (The Caudal to Cranial dimension can be longer since this is the plane the needles are pulled back on after initial insertion)</li> </ol>
Relative Contraindications	<ol style="list-style-type: none"> <li>1) Axial or Ant-Post Tumor Size <math>&gt; 3.5</math>cm</li> <li>2) Inability to undergo general endotracheal anesthesia</li> <li>3) Atrial Fibrillation</li> <li>4) Karnofsky Performance Status <math>&lt; 80\%</math></li> </ol>
Absolute Contraindications	<ol style="list-style-type: none"> <li>1) Tumor Size <math>&gt; 5</math>cm</li> <li>2) Metastatic Disease</li> <li>3) Progression of local tumor <math>&gt; 30\%</math> diameter while undergoing induction therapy</li> <li>4) Inducible ischemia on cardiac stress test or uncontrolled angina</li> </ol>

Expectations for IRE:

- 1) Operation is performed through a small 6-10 inch incision (based on the patients size) midline incision.
- 2) Operation takes 2-4 hours based on the size of tumor and the complexity of the IRE and/or resection that takes place
- 3) Hospital Length of stay is 5-8 days based on how quickly the patient has return of bowel function.
- 4) Overall time in Louisville is usually 2-3 weeks based on the patients recovery.