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LATE COMPLICATIONS OF PANCREAS TRANSPLANT



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A pancreas transplant is a surgical procedure to place a healthy pancreas from a deceased donor into a person whose pancreas no longer functions properly. Your pancreas is an organ that lies behind the lower part of your stomach. One of its main functions is to make insulin, a hormone that regulates the absorption of sugar (glucose) into your cells. If your pancreas doesn't make enough insulin, blood sugar levels can rise to unhealthy levels, resulting in type 1 diabetes. Most pancreas transplan...

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These can include: an increased risk of getting infections shaky hands difficulty sleeping high blood pressure hair loss or thinning mood swings weight gain an upset stomach a rash weakened bones (osteoporosis) an increased risk of certain types of cancer, particularly skin cancer

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### Pancreas Transplant: Types, Procedure, Risks, and More

https://www.healthline.com/health/type-2-diabetes/pancreas-transplants -

Jan 20, 2012 - The procedure itself carries a number of risks, including bleeding blood clots, and infection. There's also an added risk of hyperglycemia (high blood sugar) occurring during and right after ...

Author: Natalie Wyatt

### Complications after pancreas transplantation

https://insights.ovid.com/organ-transplantation/... -

Abstract Purpose of review The history of transplantation of the pancreas, unlike that of transplantation of other abdominal organs, has largely been shaped by the associated surgical complications. After more than three decades of progress, surgical-technical pancreas graft failure rates have decreased to approximately 8%.

Cited by: 132 Author: Christoph Troppmann

Publish Year: 2010

### Complications after pancreas transplantation | Semantic ...

https://www.semanticscholar.org/paper/...

Purpose of review The history of transplantation of the pancreas, unlike that of transplantation of other abdominal organs, has largely been shaped by the associated surgical complications. After more than three decades of progress, surgical-technical pancreas graft failure rates have decreased to approximately 8%. The most recent developments in this area are systematically reviewed in this ...

### Surgical complications after simultaneous pancreas-kidney ...

https://www.sciencedirect.com/science/article/pii/S1015958415001463

Oct 01, 2016 - Most transplant surgeons consider pancreas graft thrombosis, duodenal leakage, and intra-abdominal (or retroperitoneal) infection to be general surgical complications after pancreas transplantation. Consequently, they frequently result in graft loss and therefore restrict widespread application of pancreas transplantation.

### Pathology Outlines - Pancreas transplantation

https://www.pathologyoutlines.com/topic/pancreastransplant.html -

Jan 04, 2018 - Includes pancreas transplant alone, simultaneous pancreas and kidney transplant, pancreas after kidney transplant ... Late complications: recurrence of original disease, rejection (vasculitis, obliterative endarteritis, periductal lymphocytic infiltrate), mononuclear inflammation which preferentially destroys beta cells

### Imaging of pancreas transplantation and its complications

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3259396

In our series, the most frequent complications, by order of relevance, were graft pancreatitis, infection, and necrosis secondary to arterial or venous thrombosis. Less common complications included pancreatic fistula, bleeding, duodenal anastomosis dehiscence and small bowel obstruction ...

### Pancreas Transplant - WebMD

https://www.webmd.com/digestive-disorders/pancreas-transplant -

Apr 04, 2005 - Pancreas transplants are not performed on people with certain conditions, including: Untreatable cancers Infections that cannot be completely treated or cured, such as tuberculosis Severe heart, lung, or liver problems or complications from diabetes that would make the operation too risky

### Pancreas Transplant Imaging: How I Do It | Radiology

https://pubs.rsna.org/doi/full/10.1148/radiol.15131585

The simultaneous pancreas-kidney transplant (SPK) is currently the most common form of pancreas transplantation in the United States, accounting for 80% of all pancreas transplants. Due to all documented benefits of SPK over deceased donor kidney (alone) transplant (4), the majority of diabetic patients younger than 55 years manifesting end ...

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## Pancreas Transplant

A surgical procedure where a healthy pancreas from a donor is placed in the patient's abdomen.

Type of procedure: Open

Recovery time: Can take several months

Duration: About 6-12 hours

Hospital stay: Up to several weeks

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### What to expect before procedure

- The evaluation performed to assess if the patient is a suitable candidate for a pancreas transplant involves several lab, imaging tests and psychological assessments that span through multiple hospital visits.
- Blood tests, urine tests, lung function tests, tests to check the functioning of heart etc, are performed.
- In addition to lab or imaging tests such as pulmonary function tests, coronary artery catheterization, chest X-ray, CT scan, kidney and liver function tests, other blood tests, information about the mental/emotional state, financial conditions, and family support is also collected.

### What to expect during procedure

- A general anesthesia is given to maintain unconsciousness throughout the procedure.
- Pancreas and a small portion of the small intestine from the donor is placed.
- The end of the new intestine is attached to the small intestine or bladder and the new pancreas is connected to the blood vessels.
- The patient's pancreas is left in place to produce enzymes that help in digestion.
- Stitches or staples are used to close the incision.

### What to expect after procedure

- Immediately after the procedure, the patient is transferred to the intensive care unit (ICU), and a monitored for signs of complications.
- Once the condition improves, the patient is transferred to a regular hospital room.
- Before the discharge, instructions are provided on care at home, symptoms to watch out for and medicines that are to be taken.
- Regular monitoring and follow up is important. Hospital visits for tests are far more frequent in the first few months.
- Learn about lifelong medical care such as taking such as the need for immunosuppressants and follow the instructions.

### Risks and Complications

- Graft rejection: The body might recognize the new pancreas as foreign and the immune system could attack it.
- Graft failure: The transplanted pancreas might fail to function as expected.
- Complications of the surgery include, infection, bleeding, blood clots, hyperglycemia and urinary complications.
- Anti-rejection medicines (immunosuppressants) can have side effects such as high cholesterol, high blood pressure, weakening of bones, nausea, diarrhea, and higher susceptibility to cancer and infection.

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**7-Late complications of pancreas transplant**

Maupoey Ibáñez *et al.* Late complications of pancreas transplant

Javier Maupoey Ibáñez, Andrea Boscà Robledo, Rafael López-Andujar

**Abstract**

To summarize the long-term complications after pancreas transplantation that affect graft function, a literature search was carried out on the long-term complications of pancreatic transplantation, meaning complications from postoperative 3rd month onwards, in terms of loss of graft function, late infection and vascular complications as pseudoaneurysms, selecting the most relevant reviews and studies elucidating the current evidence in these topics. Definition of graft failure vary between different

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Pancreatic **transplant** indicated to treat Type 1 diabetes with ESRD and/or brittle diabetes and/or hypoglycemia unawareness; Usually done as combined kidney-**pancreas transplant**; Grafted **pancreas** either bladder-drained (safer procedure, more **late complications**) or enterically drained

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