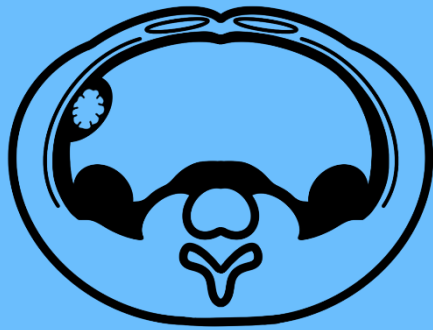


Grafting Islets to a Dissected Peritoneal Pouch to Improve Transplant Survival and Function

Exploration of a new islet transplant site

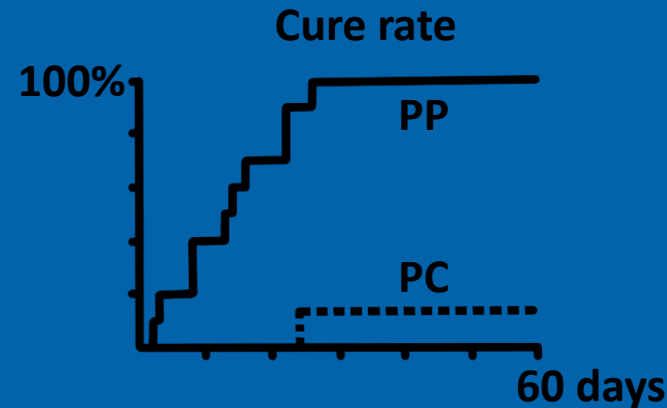


Peritoneal pouch islet transplantation (PPIT)

Islets are transplanted into the preperitoneal space located between the parietal peritoneum and the transversalis fascia.



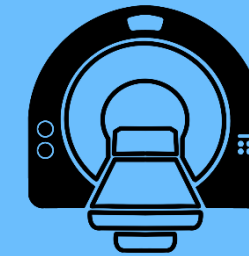
Syngeneic C57BL/6 islets were transplanted into the peritoneal pouch space (PP) or peritoneal cavity (PC) of diabetic mouse recipients.



PPIT procedure successfully reversed diabetes in mice.



The circulating miR-375 level posttransplant was significantly lower in the PP group than in the PC group.



Islets graft in PP was successfully detected by PET-CT imaging.

PPIT procedure is safe, effective and have a potential to apply to clinical stage.

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