

UK Pancreas Transplantation: Ten year trends and recent outcomes

Hudson AJ, Watson CJE on behalf of the UK Transplant Pancreas Task Force

Progress of the UK Transplant Pancreas Task Force

• Oct 1984	• Jan 2001	• Jun 2002	• Aug 2003	• Dec 2004
First pancreas transplant recorded on the National Transplant Database.	Retrospective follow-up data collected.	First meeting of the newly formed Pancreas Task Force.	Introduction of the first pancreas zonal sharing scheme for retrievals (not UK-wide).	Introduction of a national pancreas zonal sharing scheme and the National Pancreas Fast Track Scheme.

Background

- The UK Transplant Pancreas Task Force, a subgroup of the Kidney and Pancreas Advisory Group, first met in June 2002.
- Comprehensive national pancreas transplantation data have been collected, including retrospective data collection from January 2001.
- This analysis illustrates ten-year national trends, 1995 to 2004, and examines recent retrieval, transplant and survival rates.

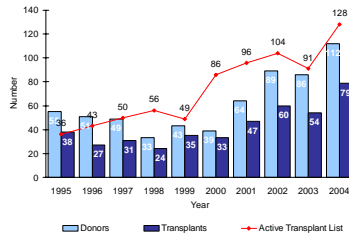
Data and Methods

- Donor, transplant list and transplant data for activity 1 January 1995 - 31 December 2004 were obtained from the National Transplant Database.
- Follow-up data for transplants carried out in seven centres in the UK between 1 January 2001 and 31 December 2004 were analysed to estimate unadjusted national transplant survival (graft failure and recipient death classified as an event) and patient survival (recipient death only classified as an event).

Donors, transplant list and transplants

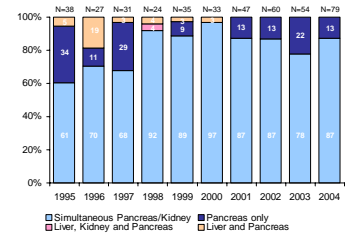
Number of donors, transplants and patients listed (as at 31 December), by calendar year 1 January 1995 to 31 December 2004

- The numbers of pancreata donated, transplanted and the number of patients listed nationally remained reasonably stable between 1995 and 2000 but increased steadily thereafter.



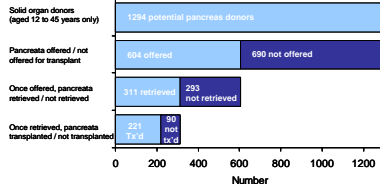
Type of pancreas transplant, by calendar year 1 January 1995 to 31 December 2004

- In recent years, 80-90% of all pancreas transplants performed were simultaneous pancreas/kidney whilst the remainder were pancreas only transplants (either PTA or PAK) or pancreas and liver transplants.



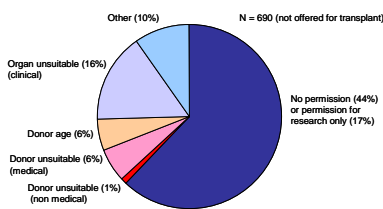
Use of pancreata from solid organ donors (aged 12 to 45 years only)

Number of solid organ donors, offers, retrievals and transplants 1 January 2001 to 31 January 2004

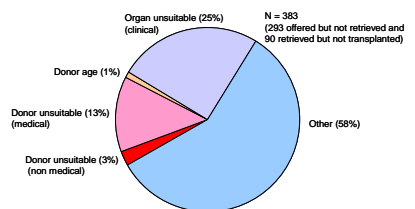


- Of all potential pancreas donations, 47% were offered for transplant.
- Once offered, 51% of pancreata were retrieved for transplant.
- Once retrieved, 71% of pancreata resulted in a transplant.

Reasons for not offering pancreata from solid organ donors 1 January 2001 to 31 January 2004



Reasons for offered pancreata not resulting in a transplant 1 January 2001 to 31 January 2004

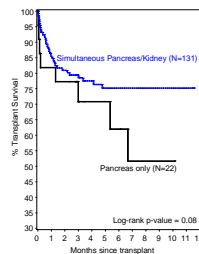


- Improved reporting of reasons for not using pancreata offered for transplant is required to allow meaningful audit (Other - 58%).

Transplant and patient survival

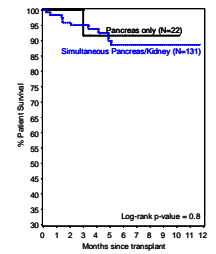
Pancreas transplant survival for simultaneous pancreas/kidney and pancreas only transplants performed in the UK, 1 January 2001 to 31 December 2004

- There is some statistical evidence to suggest that pancreas transplant survival is superior for simultaneous pancreas/kidney transplants compared with pancreas only transplants (Log-rank p-value = 0.08).



Pancreas patient survival for simultaneous pancreas/kidney and pancreas only transplants performed in the UK, 1 January 2001 to 31 December 2004

- There is no statistical evidence to suggest that patient survival after simultaneous pancreas/kidney transplant is different to that after pancreas only transplants (Log-rank p-value = 0.8).



Summary

Donors, transplant list and transplants

- The number of pancreata donated and transplanted, and the number of patients listed, have steadily increased in the last four to five years.

Use of pancreata from solid organ donors

- It is hoped that national zonal retrieval and allocation arrangements will increase the number of pancreata offered, retrieved and transplanted, benefiting the increasing numbers of patients awaiting transplant.

Transplant and patient survival

- National simultaneous pancreas/kidney transplant and patient survival estimates are encouraging.