

NHS BLOOD AND TRANSPLANT

PANCREAS ADVISORY GROUP AND ISLET STEERING GROUP

DONOR GIRTH

BACKGROUND

- At the PAG meeting in November 2024, it was requested to look at donor girth measurements, of those pancreases transplanted and the outcome of those transplants.

DATA

- Pancreas and islet transplants between 1 January 2021 and 31 December 2024 were analysed. Of the 591 transplants donor girth was reported in 575 (97.3%) cases.

RESULTS

- Of these 575 transplants with known donor girth, 501 were whole pancreas (including 467 simultaneous pancreas and kidney (SPK)) and 74 islet (including 25 simultaneous islet and kidney (SIK)) transplants.
- There was no difference in the proportion of donors with a girth of 100cm or more by whether the donor was male or female. Where donor girth was known, of 310 transplants from male donors 16.8% had a girth ≥ 100 cm and of 265 transplants from female donors 17.7% had a girth ≥ 100 cm, chi-square p-value=0.76.
- Table 1** shows the proportion of the transplants where donor girth was less than 100cm or 100cm or more, out of the total where donor girth was known, by transplant type.

Transplant type	Girth <100 cm		Girth ≥ 100 cm		Total N
	N	(%)	N	(%)	
Pancreas only	32	94.1	2	5.9	34
SPK	418	89.5	49	10.5	467
Total whole	450	89.8	51	10.2	501
Islet only	19	38.8	30	61.2	49
SIK	7	28.0	18	72.0	25
Total Islet	26	35.1	48	64.9	74

- Patient and graft survival at 90-days and 1 year for SPK transplants has been analysed for this cohort. **Tables 2** and **3** show the patient and graft survival respectively by donor girth group of less than 100cm or 100cm or more.

Table 2						
90-day and 1-year patient survival following first SPK transplant, 1 January 2021 to 31 December 2024, by donor girth group						
Girth	90-day patient survival			1 year patient survival		
	N	(% [CI])	p	N	(% [CI])	p
<100 cm	382	98.3 [96.3,99.3]	0.15	382	95.9 [92.9, 97.6]	0.55
≥100 cm	42	95.1 [81.7,98.7]		42	95.1 [81.7, 98.7]	

Table 3						
90-day and 1-year graft survival following first SPK transplant, 1 January 2021 to 31 December 2024, by donor girth group						
Girth	90-day graft survival			1 year graft survival		
	N	(% [CI])	p	N	(% [CI])	p
<100 cm	380	92.1 [88.9,94.4]	0.84	380	88.4 [84.5, 91.4]	0.88
≥100 cm	42	92.9 [79.5,97.6]		42	89.9 [75.0, 96.1]	

SUMMARY

7. In the time period 1 January 2021 to 31 December 2024, there were 575 pancreas and islet transplants performed where donor girth was known. Of those 99 had a girth of 100cm or more.
8. There was no statistically significant difference in 90-day or 1 year patient or graft survival between those first SPK transplants from donors with a girth of less than 100cm or 100cm or more.