

**NHS BLOOD AND TRANSPLANT  
ORGAN DONATION AND TRANSPLANTATION DIRECTORATE**

**PANCREAS ADVISORY GROUP**

**AUDIT OF STANDARD CRITERIA FOR LISTING**

**SUMMARY**

**INTRODUCTION**

- 1 Selection criteria for patients onto the national pancreas transplant list were agreed to accompany the new pancreas allocation scheme and ensure equitable access to pancreas transplantation in the UK. Adherence to the criteria has been audited via the Supplementary Pancreas/Islet Registration form since 1 May 2012. This paper reports form return rates and any patient listings that do not meet the agreed criteria.

**FORM RETURN RATES**

- 2 There were 1132 new registrations between 1 May 2012 and 31 July 2016. Nationally the return rates for the supplementary form have reached 96% for whole pancreas registrations and 99% for islet registrations.

**STANDARD LISTING CRITERIA AUDIT**

- 3 Of the 137 new supplementary forms received between 1 March 2016 and 30 September 2016, 4 (3%) patients did not meet the standard listing criteria and 1 was not circulated to the Pancreas Advisory Group Exemptions Panel.
  - Three SPK patient were recorded as having eGFR greater than 20 (21, 23, 40)
  - One SPK Type 2 diabetic patient was recorded with a BMI larger than 30 (32).

**RECOMMENDATIONS**

- 4 Members are asked to review the registrations that did not meet the standard listing criteria.

**Claire Counter**  
**Statistics and Clinical Studies**

**October 2016**

**NHS BLOOD AND TRANSPLANT  
ORGAN DONATION AND TRANSPLANTATION DIRECTORATE**

**PANCREAS ADVISORY GROUP ISLET STEERING GROUP**

**AUDIT OF STANDARD CRITERIA FOR LISTING**

**INTRODUCTION**

- 1 Selection criteria for patients onto the national pancreas transplant list were agreed to accompany the new pancreas allocation scheme and ensure equitable access to pancreas transplantation in the UK. An audit of new registrations was proposed to ensure these criteria are being met and data collection commenced 1 May 2012. This paper reports form return rates between 1 May 2012 and 31 July 2016 and patient listings between 1 March 2016 and 30 September 2016 that do not meet the agreed criteria.

**FORM RETURN RATES**

- 2 **Table 1** shows the number of new registrations at each centre and the supplementary form return rates for the audit period. **Table 1** also shows the number of registrations that were within criteria or were approved by the Pancreas Advisory Group Exemptions Panel. Nationally the return rates reached 96% for whole pancreas registrations and 99% for islet registrations.

<b>Table 1 Centre specific return rates for the standard listing criteria form, 1 May 2012 – 31 July 2016</b>					
<b>Centre</b>	<b>Number of new registrations</b>	<b>Forms returned</b>		<b>No. within criteria/ approved</b>	
		<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
<b>Vascularised pancreas</b>					
Cambridge	123	123	100	120	98
Cardiff	58	58	100	57	98
Edinburgh	106	106	100	106	100
Guy's	168	168	100	164	98
Manchester	156	119	76	115	97
Newcastle	40	40	100	40	100
Oxford	342	342	100	316	92
WLRTC	43	42	98	42	100
<b>Total</b>	<b>1036</b>	<b>998</b>	<b>96</b>	<b>960</b>	<b>96</b>
<b>Pancreatic islet</b>					
Bristol	6	6	100	6	100
Edinburgh	41	41	100	41	100
King's College	6	6	100	4	67
Manchester	7	6	86	6	100
Newcastle	15	15	100	15	100
Oxford	18	18	100	18	100
Royal Free	3	3	100	3	100
<b>Total</b>	<b>96</b>	<b>95</b>	<b>99</b>	<b>93</b>	<b>98</b>

**STANDARD LISTING CRITERIA**

- 3 **Table 2** shows the number of patients for whom we have received a registration form between 1 March 2016 and 30 September 2016 and who met the standard listing criteria by registration type.
- 4 Of the 137 new supplementary forms received, four (3%) did not meet the standard listing criteria. Three of the four registrations (75%) were deemed clinical exceptions to the criteria and were approved by members of the Pancreas Advisory Group appeals panel. The standard listing criteria are shown in **Appendix 1**.

Registration type	Number of new forms received	Outside criteria		Approved appeals		Outside criteria and not approved	
		N	(% of forms received)	N	(% outside criteria)	N	(% outside criteria)
SPK	116	4	(3%)	3	(75%)	1	(25%)
PTA	3	0	(0%)	0	(0%)	0	(0%)
PAK	2	0	(0%)	0	(0%)	0	(0%)
ITA	12	0	(0%)	0	(0%)	0	(0%)
Priority islet	4	0	(0%)	0	(0%)	0	(0%)
<b>Total</b>	<b>137</b>	<b>4</b>	<b>(3%)</b>	<b>3</b>	<b>(75%)</b>	<b>1</b>	<b>(25%)</b>

- 5 **Table 3** shows, by registration type, the criteria that were not met for the four registrations that were outside criteria and 3 were approved by the exemptions panel. Further details are given in **Appendix 2**.

Registration type	Criteria not met	Number of registrations
SPK	eGFR greater than 20mls/min	3
SPK	Type 2 diabetes and BMI>30 kg/m <sup>2</sup>	1
<b>Total</b>		<b>4</b>

**ACTION**

- 6 Members are asked to review the registrations that did not meet the standard listing criteria.

**Claire Counter**  
**Statistics and Clinical Studies**

**October 2016**

## Appendix 1: Standard listing criteria by registration type

The standard listing criteria are:

### *Simultaneous kidney/ pancreas (SPK)*

- a. All patients listed should have insulin treated diabetes
- b. Patients listed with type 2 diabetes must have a BMI of  $\leq 30 \text{kg/m}^2$
- c. Patients listed must be receiving dialysis or have a GFR of  $\leq 20 \text{mls/min}$

### *Pancreas transplant alone (PTA)*

- a. All patients listed should have insulin treated diabetes
- b. Patients listed with type 2 diabetes must have a BMI of  $\leq 30 \text{kg/m}^2$
- c. At least 2 severe hypoglycaemic episodes in last 24 months and be assessed by a diabetologist to have disabling hypoglycaemia

### *Pancreas after kidney (PAK)*

- a. All patients listed should have insulin treated diabetes
- b. Patients listed with type 2 diabetes must have a BMI of  $\leq 30 \text{kg/m}^2$

### *Islet transplant alone (ITA)*

- a. All patients listed should have insulin treated diabetes
- b. Patients should have type 1 diabetes or diabetes secondary to pancreatectomy / pancreatitis and have confirmed C-peptide negativity in presence of glucose  $>4 \text{mmol/l}$
- c. At least 2 severe hypoglycaemic episodes in last 24 months and be assessed by a diabetologist to have disabling hypoglycaemia

### *Islet after kidney (IAK)*

- a. All patients listed should have insulin treated diabetes
- b. Should have type 1 diabetes or diabetes secondary to pancreatectomy / pancreatitis and have confirmed C-peptide negativity in presence of glucose  $>4 \text{mmol/l}$
- c. A history of severe hypoglycaemia within last 2 years or HbA1c  $\geq 53 \text{mmol/mol}$

### *Priority islet transplant (since 3 September 2014)*

- a. All patients should be listed within 12 months of routine graft
- b. All patients should have a functioning routine graft (C-peptide  $\geq 50 \text{pmol/L}$ ) at the time of priority transplant.

**Appendix 2: Registrations that did not meet standard listing criteria by registration type** (*information highlighted indicates the information that does not meet the criteria*)

*Simultaneous kidney/ pancreas (SPK)*

Patient	Registration date	Centre	Is the recipient insulin treated?	Cause of diabetes	BMI	DIALYSIS	Estimated GFR	Approved Y/N
1	18 <sup>th</sup> April 2016	Oxford	Yes	Type 2	32.0	On dialysis	-	N
2	17 <sup>th</sup> March 2016	Oxford	Yes	Type 1	28.1	Not on dialysis	21.0	Y
3	11 <sup>th</sup> April 2016	Oxford	Yes	Type 1	29.0	Not on dialysis	23.0	Y
4	5 <sup>th</sup> May 2016	Cambridge	Yes	Type 1	18.6	Not on dialysis	40.0	Y