

# NHS BLOOD AND TRANSPLANT

## BOWEL ADVISORY GROUP

### SUMMARY OF REGISTRATIONS AND TRANSPLANT ACTIVITY

#### INTRODUCTION

- 1 This paper provides information on recent registrations for an intestinal transplant and a summary of recent transplant activity in the UK. Median waiting time to transplant is also provided.

#### DATA AND METHODS

- 2 Data on registrations for an intestinal transplant between 1 April 2011 and 27 February 2012 are provided as well as a summary of the intestinal transplant activity between 1 April 2010 and 27 February 2012.
- 3 The Kaplan-Meier estimation method was used to estimate median waiting time to intestinal transplantation for registrations between 1 April 2008 and 31 December 2011.

#### REGISTRATION ACTIVITY

- 4 In the period between 1 April 2011 and 27 February 2012, there were 23 registrations for an intestinal transplant. The outcome of these registrations for paediatric and adult patients, as at 27 February 2012, broken down by transplant centre can be found in **Table 1**. Note that no patients registered in this time period were removed at time of analysis.

**Table 1 Outcome of intestinal transplant registrations in the UK between 1 April 2011 and 27 February 2012, by patient age group (at registration) and transplant centre**

Transplant centre	Outcome of registrations as at 27 February 2012								No. regns
	Transplanted		Died		Suspended		Active		
	N	%	N	%	N	%	N	%	
Paediatric recipients									
Birmingham	2	29	1	14	0	0	4	57	7
King's College	0	0	0	0	0	0	1	100	1
Total	2	25	1	13	0	0	5	63	8
Adult recipients									
Cambridge	7	58	1	8	1	8	3	25	12
Oxford	3	100	0	0	0	0	0	0	3
Total	10	67	1	7	1	7	3	20	15
TOTAL	12	52	2	9	1	4	8	35	23

Note: No patients registered in this time period were removed at time of analysis.  
Percentages have been rounded to the nearest whole number and are based on small numbers.

- 5 Of the 23 registrations for an intestinal transplant between 1 April 2011 and 27 February 2012, 12 (52%) resulted in a transplant, as at 27 February 2012. A breakdown of these transplants by transplant centre and type can be found in **Table 2** for paediatric and adult recipients.

**Table 2 Intestinal transplants in the UK by recipient age group (at transplant), transplant centre and type, that resulted from registrations between 1 April 2011 and 27 February 2012**

Transplant centre	Transplant type				Total
	BO	MV	MMV	LBP	
	N	N	N	N	
Paediatric recipients					
Birmingham	2	0	0	0	2
King's College	0	0	0	0	0
Total	2	0	0	0	2
Adult recipients					
Cambridge	1	4	1	1	7
Oxford	3	0	0	0	3
Total	4	4	1	1	10
TOTAL	6	4	1	1	12

Note: BO=Bowel only, MV=Multivisceral, MMV=Modified multivisceral, LBP=Liver, bowel and pancreas  
BO comprises all transplants not including a liver or a pancreas

- 6 **Table 3** shows the median waiting time to intestinal transplant by registration type for patients registered between 1 April 2008 and 31 December 2011, calculated as at 27 February 2012. There is a significant difference between median waiting time for bowel only registrations, registrations for transplants that include a liver and registrations for transplants that do not include a liver ( $p=0.02$ ).

**Table 3 Median waiting time to intestinal transplant for patients registered between 1 April 2008 and 31 December 2011 in the UK, as at 27 February 2012**

Registration type	Number of patients registered	Waiting time (days)	
		Median	95% Confidence interval
Bowel only	36	171	94 - 248
Including a liver	41	252	38 - 466
Not including a liver	23	66	39 - 93
<b>Total</b>	<b>100</b>	<b>171</b>	<b>125 - 217</b>

Note: Waiting times are calculated excluding known suspension periods, and for BO registration may be up to a week longer

## TRANSPLANT LIST

- 7 A description of the 15 patients actively waiting/suspended on the intestinal transplant list as at 27 February 2012 is presented in **Table 4**, for each transplant centre.

**Table 4 Patients on the intestinal transplant list in the UK as at 27 February 2012**

Organs required	Age (years)	Weight (kg)	BMI (kg/m <sup>2</sup> )	Blood group	Disease	Waiting times (days)
<b>Birmingham</b>						
Bowel					Microvillous inclusion disease	
Liver, bowel, pancreas					Volvulus	
Liver, bowel, pancreas					Gastroschisis	
Liver, bowel, stomach, colon					Chronic rejection	
<b>Cambridge</b>						
Bowel, stomach, spleen <sup>1,2</sup>					Budd-Chiari Syndrome	
Bowel, pancreas, kidney, stomach					Pancreatitis leading to enterectomy and PN requirement	
Bowel, pancreas, stomach, abdominal wall					Visceral neuropathy/myopathy	
Liver, bowel, pancreas, kidney, stomach <sup>1</sup>					Acute rejection	
Liver, bowel, pancreas, stomach, fascia, colon					Primary vascular disease	
<b>King's College</b>						
Bowel					Microvillous inclusion disease	
<b>Oxford</b>						
Bowel, kidney <sup>1</sup>					Crohn's disease	
Bowel, abdominal wall					Ulcerative colitis	
Bowel, pancreas, kidney, stomach					Type 1 diabetes, associated enteropathy and gastropathy requiring TPN on a long-term basis	
Bowel, pancreas, stomach, spleen, abdominal wall, right colon					Visceral neuropathy/myopathy	
Bowel, pancreas, stomach, spleen, abdominal wall, right colon <sup>1</sup>					Visceral myopathy of gut	

<sup>1</sup> Patient currently suspended

<sup>2</sup> Registration prior to 1 April 2008

Note: Waiting times are calculated excluding suspension periods, and for BO registrations may be up to a week longer  
Age, weight, height and disease are given as recorded at the time of registration

## TRANSPLANT ACTIVITY

- 8 Between 1 April 2011 and 27 February 2012, 21 intestinal transplants were performed. 19 intestinal transplants were performed in the earlier time period of 1 April 2010 to 31 March 2011.
- 9 A summary of these transplants, for paediatric and adult patients, broken down by transplant centre and type can be found in **Table 5**, for each of the two time periods.

**Table 5 Intestinal transplants in the UK between 1 April 2011 and 27 February 2012, by recipient age group (at transplant), transplant centre and type (1 April 2010 to 31 March 2011)**

Transplant centre	Transplant type											
	BO		LBP		LO		MV		MMV		Total	
	N	N	N	N	N	N	N	N	N	N	N	N
Paediatric recipients												
Birmingham	3	(4)	2	(2)	0	(1)	0	(0)	0	(1)	5	(8)
King's College	2	(3)	0	(0)	0	(0)	0	(0)	0	(0)	2	(3)
Total	5	(7)	2	(2)	0	(1)	0	(0)	0	(1)	7	(11)
Adult recipients												
Cambridge	1	(2)	1	(0)	0	(0)	6	(2)	1	(2)	9	(6)
Oxford	5	(2)	0	(0)	0	(0)	0	(0)	0	(0)	5	(2)
Total	6	(4)	1	(0)	0	(0)	6	(2)	1	(2)	14	(8)
TOTAL	11	(11)	3	(2)	0	(1)	6	(2)	1	(3)	21	(19)

Note: BO=Bowel only, LBP=Liver, bowel and pancreas, LO= liver only, MV=Multivisceral, MMV=Modified multivisceral, BO comprises all transplants not including a liver or a pancreas

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