

NHS BLOOD AND TRANSPLANT

BOWEL ADVISORY GROUP

SUMMARY OF REGISTRATIONS AND TRANSPLANT ACTIVITY

SUMMARY

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 ANALYSIS

- 2 Data on 21 registrations for an intestinal transplant between 1 February 2014 and 31 January 2015 were analysed. Of these registrations, 17 (81%) resulted in a transplant, 3 (14%) resulted in suspension, none resulted in removal and 1 (5%) remained active as at 11 February 2015.
- 3 Median waiting time to intestinal transplant was approximately 5 months for elective registrations between 1 April 2010 and 30 September 2013, calculated as at 11 February 2015. There was some moderate evidence that the median waiting time for patients requiring a bowel only, patients requiring a liver, bowel and pancreas, and patients requiring a bowel and pancreas transplantation is statistically significantly different (log-rank test, $p=0.048$).
- 4 Ten patients were awaiting an intestinal transplant as at 11 February 2015; 3 paediatric and 7 adult. One patient had some degree of sensitisation, as indicated by the reporting of unacceptable HLA specificities. Four of these patients have been on the transplant list for more than two years; however at least two of them have spent some of this time suspended from the list. There were no patients active or suspended on the super-urgent intestinal transplant list as at 11 February 2015.
- 5 Twenty six intestinal transplants were performed between 1 February 2014 and 31 January 2015, only one more than the number performed in the previous year, 1 February 2013 to 31 January 2014. Ten (38%) of these transplants were performed in paediatric patients in the recent time period, compared with 2 (8%) in the previous year.

BAG IS ASKED TO NOTE

- 6 The data and analyses presented in this paper are for information and to identify any issues that warrant more detailed investigation or discussion.
- 7 Members are asked to confirm whether it is acceptable or not to exclude from this report elements that are also included in the Intestine Transplantation Annual Report such as median waiting time to transplant and transplant activity by transplant type.

Elisa Allen
Statistics and Clinical Studies

February 2015

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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 elective and super-urgent registrations for an intestinal transplant between 1 February 2014 and 31 January 2015 are provided as well as a summary of the intestinal transplant activity between 1 February 2013 and 31 January 2015.
- 3 The Kaplan-Meier method was used to estimate median waiting time to intestinal transplantation for elective registrations between 1 April 2010 and 30 September 2013. Any periods of suspension from the transplant list were included in the calculation of a patient's waiting time.

RESULTS

REGISTRATION ACTIVITY

- 4 In the period between 1 February 2014 and 31 January 2015, there were 21 registrations for an intestinal transplant. The outcome of these registrations for paediatric and adult patients, as at 11 February 2015, broken down by transplant centre, is shown in **Table 1**. Note that none of the patients registered in this time period had been removed or died on the list at time of analysis.

Table 1 Outcome of intestinal transplant registrations in the UK between 1 February 2014 and 31 January 2015, by patient age group and transplant centre

Transplant centre	Outcome of registrations as at 11 February 2015								No. regns N
	Transplanted		Suspended		Removed		Active		
	N	%	N	%	N	%	N	%	
Paediatric recipients									
Birmingham	4	66	1	17	0	0	1	17	6
King's College	0	0	0	0	0	0	0	0	0
Total	4	66	1	17	0	0	1	17	6
Adult recipients									
Cambridge	10	91	1	9	0	0	0	0	11
Oxford	3	75	1	25	0	0	0	0	4
Total	13	87	2	13	0	0	0	0	15
TOTAL	17	81	3	14	0	0	1	5	21

Note: None of the patients registered in this time period had been removed or died at time of analysis
Percentages have been rounded to the nearest whole number

- 5 Of the 21 registrations for an intestinal transplant between 1 February 2014 and 31 January 2015, 17 (81%) resulted in a transplant as at 11 February 2015. A breakdown of these transplants by transplant centre and type is shown in **Table 2** for paediatric and adult recipients.

Table 2 Number of intestinal transplants in the UK, by recipient age group, transplant centre and type, that resulted from registrations between 1 February 2014 and 31 January 2015					
Transplant centre	Transplant type				Total
	BO	MV	MMV	LBP	
Paediatric recipients					
Birmingham	2	0	0	2	4
King's College	0	0	0	0	0
Total	2	0	0	2	4
Adult recipients					
Cambridge	0	7	3	0	10
Oxford	3	0	0	0	3
Total	3	7	3	0	13
TOTAL	5	7	3	2	17
Note: BO=Bowel only, MV=Multivisceral, MMV=Modified multivisceral, LBP=Liver, bowel and pancreas BO comprises all intestinal transplants that did not include a liver or pancreas					

- 7 **Table 3** shows the median waiting time to intestinal transplantation by registration type for elective patients registered between 1 April 2010 and 30 September 2013, calculated as at 11 February 2015 (including re-registrations). The overall median waiting time was 154 days (95% CI: 54 - 254 days). There was a borderline statistically significant difference between the median waiting times of the different types of registration (log-rank test, $p=0.048$).
- 8 For comparison, the median waiting time to elective liver only transplantation, as reported in the 2013/14 Organ Donation and Transplantation Activity Report, is 145 days for adults (95% CI: 134 - 156 days) and 72 days for paediatric patients (95% CI: 53 - 91 days) (based on 2391 and 208 registrations, respectively, between 1 April 2009 and 31 March 2012).

Table 3 Median waiting time to intestinal transplant for elective patients registered between 1 April 2010 and 30 September 2013 in the UK, as at 11 February 2015

Registration type	No. regns	Waiting time (days)	
		Median	95% Confidence interval
Bowel only ¹	24	124	21 – 227
Liver, bowel and pancreas ¹	38	272	68 – 476
Bowel and pancreas ¹	18	209	0 – 517
Total	80	154	54 - 254

¹ May also include any of: stomach, spleen, abdominal wall, colon, kidney

Note: Any periods of suspension are included in the calculation of a patient's waiting time

TRANSPLANT LIST

- 9 As at 11 February 2015, there were 10 patients who were active or suspended on the elective intestinal transplant list. Unacceptable HLA specificities were reported via the intestinal transplant recipient registration form in one case.
- 10 Four of these 10 patients have been on the transplant list for more than two years; however at least two of them have spent some of this time suspended from the list.
- 11 There were no patients active or suspended on the super-urgent intestinal transplant list as at 11 February 2015.

TRANSPLANT ACTIVITY

- 12 Between 1 February 2014 and 31 January 2015 26 intestinal transplants were performed compared with 25 transplants in the previous year, 1 February 2013 to 31 January 2014.
- 13 A summary of these transplants for paediatric and adult patients, broken down by transplant centre and type is shown in **Table 5**, for each of the two time periods. Ten (38%) transplants were performed in paediatric patients between 1 February 2014 and 31 January 2015, compared with 2 (8%) in the previous year.

Table 5 Intestinal transplants in the UK between 1 February 2014 and 31 January 2015 (1 February 2013 and 31 January 2014), by recipient age group, transplant centre and type

Transplant centre	Transplant type									
	BO		LBP		MV		MMV		Total	
	N	N	N	N	N	N	N	N	N	N
Paediatric recipients										
Birmingham	2	(1)	3	(0)	0	(1)	0	(0)	5	(2)
King's College	1	(0)	1	(0)	3	(0)	0	(0)	5	(0)
Total	3	(1)	4	(0)	3	(1)	0	(0)	10	(2)
Adult recipients										
Cambridge	0	(5)	0	(1)	8	(9)	3	(2)	11	(17)
Oxford	4	(4)	0	(0)	0	(0)	1	(2)	5	(6)
Total	4	(9)	0	(1)	8	(9)	4	(4)	16	(23)
TOTAL	7	(10)	4	(1)	11	(10)	4	(4)	26	(25)

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

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