# **Intestinal Activity**

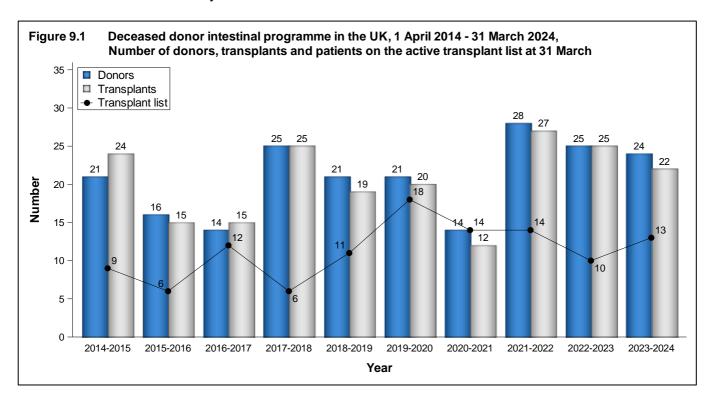
## **Key messages**

- There were 13 patients on the active intestinal transplant list at 31 March 2024 in total
- There were 31 registrations for an intestinal transplant during 2023-2024
- 22 intestinal transplants were carried out in 2023-2024 (25 in the previous year)
- On average, patients wait 6 months for a transplant

#### 9.1 Overview

Patients waiting for an intestinal transplant are prioritised according to a points system based on a range of clinical factors including donor-recipient age matching, loss of intravenous line access, liver failure, diagnosis of malignancy, in-hospital status, additional organs required, sensitisation and waiting time. A score is calculated for every potentially suitable patient on the national active transplant list and donor organs are allocated preferentially to the patient with the most points.

A summary of activity for deceased donor intestinal transplants and the transplant list at year end for the last ten years is shown in **Figure 9.1**. The number of patients registered on the active transplant list for an intestinal transplant has increased to 13. The number of donors and transplants has slightly decreased over the last three years.



### 9.2 Transplant list

In 2023-2024, there were 31 registrations for an intestinal transplant corresponding to 31 patients. The outcome of these registrations for paediatric (aged <18 years) and adult patients, as at 31 March 2024, broken down by transplant centre, can be found in **Table 9.1**. Overall, 8 (26%) were active/suspended on 31 March 2024, 20 (65%) resulted in a transplant, and 3 (10%) died or were removed. Note that removals due to condition deterioration are included in the removal group.

Table 9.1	Outcome of	f intestina	al registr	ations in	the UK,	1 April 2	023 and	31 Marc	h 2024
Transplant centre	Outcome of registrations as at 31 March 2024 Transplanted Died Removed <sup>1</sup> Active/Susp N % N % N %							TOTAL	
Adult									
Cambridge Oxford	10 5	71 100	0 0	0 0	0 0	0 0	4 0	29 0	14 5
TOTAL	15	79	0	0	0	0	4	21	19
Paediatric									
Birmingham King's College	2 3	40 43	0 1	0 14	1 1	20 14	2 2	40 29	5 7
TOTAL	5	42	1	8	2	17	4	33	12
<sup>1</sup> Includes remova	als due to cor	ndition dete	eriorated						

**Table 9.2** shows the active intestinal transplant list in the UK at 31 March 2024 and 2023 by country/NHS region of patient's residence. At 31 March 2024, the overall transplant list rate was 0.2 pmp and ranged from 0.0 to 0.6 pmp across NHS regions, although these numbers are very small, so these are not meaningful differences.

Table 9.2 Active intestinal transplant list at 31 March by Country/NHS region of patient residence									
Country/ NHS region of residence	Intesti 202	ant list (p 202							
North East and Yorkshire North West Midlands East of England London South East South West	2 2 0 4 0 2	(0.2) (0.3) (0.0) (0.6) (0.0) (0.2)	3 0 1 1 1 2 0	(0.4) (0.0) (0.1) (0.2) (0.1) (0.2)					
England Isle of Man Channel Islands	10 0 0	(0.2) (0.0) (0.0)	8 0 0	(0.1) (0.0) (0.0)					
Wales	0	(0.0)	0	(0.0)					
Scotland	1	(0.2)	2	(0.4)					
Northern Ireland	0	(0.0)	0	(0.0)					
TOTAL <sup>1</sup>	13	(0.2)	10	(0.1)					
<sup>1</sup> Includes 2 patients in 2024 residing overseas									

**Table 9.3** shows median waiting time to elective intestinal transplant by registration type. On average, patients wait 175 days for a transplant with patients requiring a liver on the transplant list for slightly longer than patients who do not require a liver. Note that these waiting times are not adjusted for other relevant factors which may be influential.

Table 9.3 Median waiting time to intestinal transplant in the UK, for patients registered 1 April 2019 - 31 March 2023, by registration type									
Registration type	Number of patients	Wa	iting time (days)						
	registered	Median	95% Confidence interval						
Bowel only <sup>1</sup>	15	176	33 - 319						
Liver, bowel and pancreas <sup>1</sup>	56	179	74 - 284						
Bowel and pancreas <sup>1</sup>	41	160	92 - 228						
TOTAL	112	175	140 - 210						
<sup>1</sup> May also include any of: stomach, spleen, abdominal wall, kidney									

### 9.3 Donor and organ supply

The rates per million population (pmp) for intestinal donors are shown in **Table 9.4** by donor country/NHS region of residence. The overall DBD intestinal donor rate was 0.4 pmp and ranged from 0.1 to 0.9 pmp across NHS regions. Of the 772 DBD solid organ donors, 24 (3%) donated their small bowel. The majority of DBD solid organ donors are not offered to intestinal patients because they are outside of the age and weight criteria for bowel donation. The next most common reason for non-offering is lack of consent for bowel donation. Of those donors with consent for bowel donation, the most common reason for non-offering is no suitable recipient on the transplant list followed by donor history. Of those donors that are offered, a large number are not accepted, most commonly, due to donor virology, donor history and unsuitable size.

Table 9.4 Intestinal donation rates for deceased donors after brain death, in the UK, 1 April 2023 - 31 March 2024, by Country/ NHS region										
Country/ NHS region of residence		an donors mp)		al donors mp)	% of solid organ donors	Organs used				
North East and Yorkshire North West Midlands East of England London South East South West	112 70 92 66 70 115 72	(13.6) (9.3) (8.4) (10.3) (7.9) (12.3) (12.5)	4 1 5 6 2 4 2	(0.5) (0.1) (0.5) (0.9) (0.2) (0.4) (0.3)	3.6 1.4 5.4 9.1 2.9 3.5 2.8	4 0 5 5 2 4 2				
England Isle of Man Channel Islands	597 1 0	(10.5) (12.5) (0.0)	24 0 0	(0.4) (0.0) (0.0)	4 0 0	22 0 0				
Wales Scotland	38 60	(12.1) (11.0)	0	(0.0) (0.0)	0	0				
Northern Ireland TOTAL <sup>1</sup>	34 772	(17.8) (11.4)	0 24	(0.0) (0.4)	0 3.1	0 22				
<sup>1</sup> Includes 42 donors with unknown	own UK postco	de								

### 9.4 Transplants

**Table 9.5** shows intestinal transplant activity by transplant centre and transplant type for financial years 2022-2023 and 2023-2024. In 2023-2024, there were a total of 22 transplants, 17 adult and 5 paediatric transplants.

At 31 March 2024 there were approximately 180 recipients with a functioning intestinal transplant (or multi-organ including intestine) being followed-up as reported to the UK Transplant Registry.

Table 9.5 Intestinal transplants in the UK, by age group, centre and type, 1 April 2023 - 31 March 2024 (2022 - 2023)												
Transplant centre	В	Ю	LE	3P		Γransp IV		pe MV	L	.В	то	TAL
Adult												
Cambridge Oxford	0 3	(1) (3)	0 0	(1) (0)	3 0	(9) (0)	9 2	(7) (0)	0 0	(0) (0)	12 5	(18) (3)
TOTAL	3	(4)	0	(1)	3	(9)	11	(7)	0	(0)	17	(21)
Paediatric Birmingham King's College	0 1	(0) (1)	0	(0) (0)	1 2	(2) (1)	1	(0) (0)	0	(0) (0)	2 3	(2) (2)
TOTAL	1	(1)	0	(0)	3	(3)	1	(0)	0	(0)	5	(4)

BO = Bowel only (may also include stomach/spleen/abdominal wall/kidney/colon)

LBP = Liver, bowel and pancreas

MV = Multivisceral - liver, bowel and pancreas plus stomach/spleen/abdominal wall/kidney/colon

MMV = Modified multivisceral - bowel and pancreas plus stomach/spleen/abdominal wall/kidney/colon

LB = Liver and bowel

## 9.5 Demographic characteristics

The age group, sex, ethnicity and blood group of intestinal donors, transplant recipients and transplant list patients are shown in **Table 9.6**.

Table 9.6 Demographic characteristics of deceased intestinal donors and transplant recipients, 1 April 2023 - 31 March 2024, and transplant list patients at 31 March									
		Donors			splant pients	Active transplant list patients			
		Ν	(%)	N	(%)	N	(%)		
Age (years)	0-17 18-34 35-49 50-59 60-69 mean (SD)	11 4 7 2 0 27	(46) (17) (29) (8) (0) (17)	5 5 4 5 3 37	(23) (23) (18) (23) (14) (21)	8 3 0 2 0 18	(62) (23) (0) (15) (0) (19)		
Sex	Male Female	4 20	(17) (83)	14 8	(64) (36)	3 10	(23) (77)		
Ethnicity	White Asian Black Other Unknown	21 1 1 0 1	(91) (4) (4) (0)	19 1 0 2 0	(86) (5) (0) (9)	12 0 1 0 0	(92) (0) (8) (0)		
Blood group	O A B AB	18 4 2 0	(75) (17) (8) (0)	9 10 3 0	(41) (45) (14) (0)	7 4 1 1	(54) (31) (8) (8)		
Graft number	First graft Re-graft	-	- -	20 2	(91) (9)	11 2	(85) (15)		
TOTAL		24	(100)	22	(100)	13	(100)		