

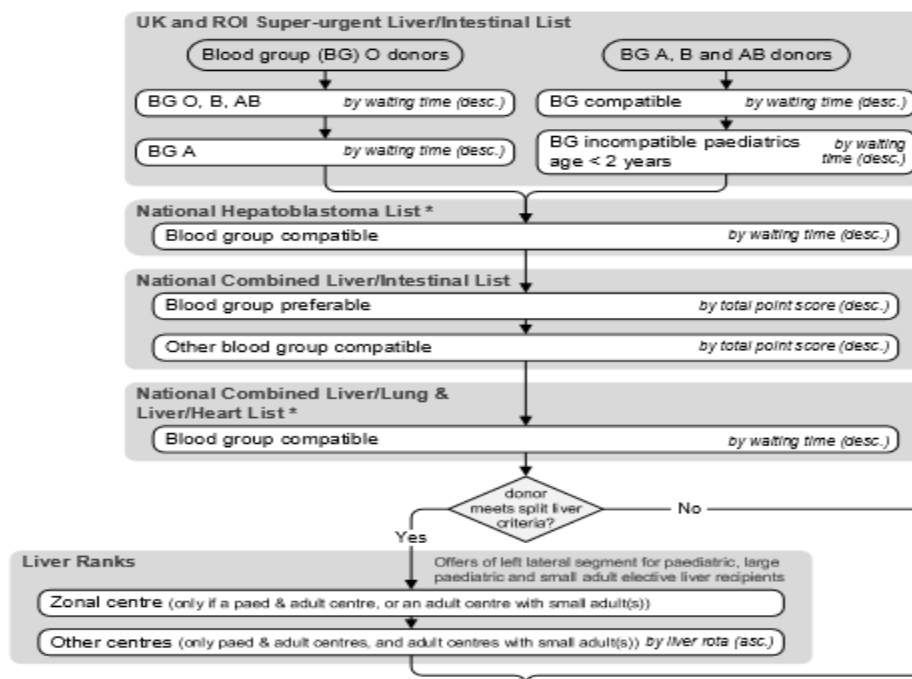
NHS BLOOD AND TRANSPLANT

LIVER ADVISORY GROUP

PAEDIATRIC OFFERING DATA

BACKGROUND

- The chart below shows the first stages of the liver offering sequence for adult donors after brain death (DBD). If the liver from DBD donors meeting split liver criteria is not accepted by higher tiers, ODT Hub Operations will offer the left lateral segment to UK centres with a paediatric or small adult patient registered in accordance with the liver allocation sequence as detailed in **Figure 1** and **section 6** of the Liver Allocation Policy (<https://nhsbtdbe.blob.core.windows.net/umbraco-assets-corp/28053/pol196.pdf>).



- Section 6.3** of the liver allocation policy states “The liver allocation sequence will be sequenced according to each centre’s transplant activity, based on a rolling 4-week period (not including the most immediate week to allow for transplants to be recorded on the UK Transplant Registry). The centre with the least number of transplants during this period will appear at the top of the sequence, down to the centre with the most number of transplants during this period”.
- This paper examines the number of paediatric registrations, offering sequence and transplants.

METHODS

4. Data was extracted from the UK Transplant Registry on all UK donors after brain death who met split liver criteria and the liver was offered for transplantation between 1 April 2019 and 30 September 2025.
5. The criteria used to determine whether livers should be offered for splitting was updated on 19th August 2025 to the following:
 - Donors after brain death
 - Aged less than 45 years at notification (ie 44 years and 364 days)
 - Weigh less than 90kg **OR** BMI less than 30 kg/m²
 - Latest ALT prior to offering of less than 200
 - Latest bilirubin prior to offering less than 30.
6. Data on all NHS Group 1 patients aged less than 17 registered on the UK elective liver transplant list between 1 April 2019 and 30 September 2025 were also extracted from the UK Transplant Registry on 28 October 2025. Super-urgent patients were excluded along with adult patients and patients requiring liver and intestinal.
7. Data on all paediatric patients currently active or suspended were also extracted from the UK Transplant Registry on 28 October 2025.

RESULTS

A. DBD DONOR MEETING SPLIT LIVER CRITERIA

8. There were 1013 UK donors after brain death (DBD) who met split liver criteria where the liver was offered for transplantation between 1 April 2019 and 30 September 2025. **Table 1** shows a 37% decrease in DBD donors meeting split liver criteria over time (186 in 2019/2020 and 118 in 2024/2025). There were 345 (34%) donors where the first transplant centre in the offering sequence was not the zonal centre and Leeds were the top non-zonal centre for 205 (59%).

Table 1 First transplant centre in offering sequence for UK DBD donors who met split liver criteria and whose liver was <u>offered</u> for transplantation between 1 April 2019 and 30 September 2025, by donor zone and financial year									
	19/20	20/21	21/22	22/23	23/24	24/25	1 Apr – 18 Aug 25	19 Aug – 30 Sep 25	Total
Zonal									
Leeds	32 (17%)	30 (17%)	30 (19%)	38 (25%)	32 (20%)	16 (14%)	13 (30%)	2 (15%)	193 (19%)
Kings College	39 (21%)	40 (22%)	33 (21%)	37 (24%)	38 (24%)	41 (35%)	11 (25%)	2 (15%)	241 (24%)
Birmingham	37 (20%)	38 (21%)	34 (21%)	26 (17%)	31 (19%)	24 (20%)	7 (16%)	3 (23%)	200 (20%)
Newcastle	2 (1%)	0 (0%)	1 (1%)	3 (2%)	3 (2%)	4 (3%)	2 (5%)	0 (0%)	15 (1%)
Cambridge	0 (0%)	3 (2%)	0 (0%)	0 (0%)	3 (2%)	0 (0%)	0 (0%)	0 (0%)	6 (1%)
Royal Free	0 (0%)	0 (0%)	7 (4%)	1 (1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	8 (1%)
Edinburgh	0 (0%)	3 (2%)	1 (1%)	0 (0%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)	5 (0%)
Total	110 (59%)	114 (64%)	106 (66%)	105 (68%)	107 (67%)	86 (73%)	33 (75%)	7 (54%)	668 (66%)
Non-Zonal									
Leeds	59 (32%)	41 (23%)	34 (21%)	25 (16%)	20 (13%)	15 (13%)	7 (16%)	4 (31%)	205 (20%)
Kings College	6 (3%)	8 (4%)	3 (2%)	3 (2%)	2 (1%)	4 (3%)	0 (0%)	0 (0%)	26 (3%)
Birmingham	3 (2%)	10 (6%)	1 (1%)	0 (0%)	6 (4%)	0 (0%)	2 (5%)	0 (0%)	22 (2%)
Newcastle	0 (0%)	0 (0%)	3 (2%)	22 (14%)	23 (14%)	12 (10%)	2 (5%)	2 (15%)	64 (6%)
Cambridge	8 (4%)	4 (2%)	0 (0%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)	0 (0%)	13 (1%)
Royal Free	0 (0%)	0 (0%)	11 (7%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	11 (1%)
Edinburgh	0 (0%)	1 (1%)	2 (1%)	0 (0%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)	4 (0%)
Total	76 (41%)	64 (36%)	54 (34%)	50 (32%)	52 (33%)	32 (27%)	11 (25%)	6 (46%)	345 (34%)
Overall Total	186 (100%)	178 (100%)	160 (100%)	155 (100%)	159 (100%)	118 (100%)	44 (100%)	13 (100%)	1013 (100%)

9. **Table 2** shows that the median paediatric centre position for donors not in the Kings College and Birmingham zones was 3rd for both centres whilst the median position for Leeds was 2nd.

Table 2 Paediatric centre position in offering sequence for UK DBD donors who met split liver criteria and whose liver was offered for transplantation between 1 April 2019 and 30 September 2025, by hospital and financial year

	19/20	20/21	21/22	22/23	23/24	24/25	1 Apr – 18 Aug 25	19 Aug – 30 Sep 25	Total
Leeds									
Zone	32 (17%)	30 (17%)	30 (19%)	38 (25%)	32 (20%)	16 (14%)	13 (30%)	2 (15%)	193 (19%)
Top non-zone	59 (32%)	41 (23%)	34 (21%)	25 (16%)	20 (13%)	15 (13%)	7 (16%)	4 (31%)	205 (20%)
2	84 (45%)	76 (43%)	66 (41%)	59 (38%)	60 (38%)	45 (38%)	12 (27%)	5 (38%)	407 (40%)
3	10 (5%)	23 (13%)	25 (16%)	25 (16%)	39 (25%)	33 (28%)	12 (27%)	2 (15%)	169 (17%)
4	0 (0%)	4 (2%)	5 (3%)	5 (3%)	5 (3%)	8 (7%)	0 (0%)	0 (0%)	27 (3%)
5	0 (0%)	1 (1%)	0 (0%)	2 (1%)	3 (2%)	0 (0%)	0 (0%)	0 (0%)	6 (1%)
6	1 (1%)	3 (2%)	0 (0%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)	6 (1%)
7	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Total	186 (100%)	178 (100%)	160 (100%)	155 (100%)	159 (100%)	118 (100%)	44 (100%)	13 (100%)	1013 (100%)
Median (IQR; range) position for non-zonal	2 (1, 2; 1, 6)	2 (1, 2; 1, 6)	2 (1, 2; 1, 4)	2 (2, 3; 1, 6)	2 (2, 3; 1, 5)	2 (2, 3; 1, 6)	2 (2, 3; 1, 3)	2 (1, 2; 1, 3)	2 (1.5, 3; 1, 6)
Kings College									
Zone	39 (21%)	40 (22%)	33 (21%)	37 (24%)	38 (24%)	41 (35%)	11 (25%)	2 (15%)	241 (24%)
Top non-zone	6 (3%)	8 (4%)	3 (2%)	3 (2%)	2 (1%)	4 (3%)	0 (0%)	0 (0%)	26 (3%)
2	52 (28%)	21 (12%)	20 (13%)	28 (18%)	18 (11%)	11 (9%)	2 (5%)	0 (0%)	152 (15%)
3	79 (42%)	92 (52%)	61 (38%)	60 (39%)	36 (23%)	38 (32%)	16 (36%)	7 (54%)	389 (38%)
4	8 (4%)	14 (8%)	36 (23%)	26 (17%)	57 (36%)	23 (19%)	12 (27%)	4 (31%)	180 (18%)
5	1 (1%)	0 (0%)	6 (4%)	0 (0%)	7 (4%)	0 (0%)	3 (7%)	0 (0%)	17 (2%)
6	1 (1%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	2 (0%)
7	0 (0%)	3 (2%)	0 (0%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)	6 (1%)
Total	186 (100%)	178 (100%)	160 (100%)	155 (100%)	159 (100%)	118 (100%)	44 (100%)	13 (100%)	1013 (100%)
Median (IQR; range) position for non-zonal	3 (2, 3; 1, 6)	3 (3, 3; 1, 7)	3 (3, 4; 1, 6)	3 (2, 3; 1, 7)	4 (3, 4; 1, 7)	3 (3, 4; 1, 7)	3 (3, 4; 2, 5)	3 (3, 4; 3, 4)	3 (3, 4; 1, 7)
Birmingham									
Zone	37 (20%)	38 (21%)	34 (21%)	26 (17%)	31 (19%)	24 (20%)	7 (16%)	3 (23%)	200 (20%)
Top non-zone	3 (2%)	10 (6%)	1 (1%)	0 (0%)	6 (4%)	0 (0%)	2 (5%)	0 (0%)	22 (2%)
2	42 (23%)	54 (30%)	32 (20%)	19 (12%)	15 (9%)	16 (14%)	15 (34%)	6 (46%)	199 (20%)
3	96 (52%)	57 (32%)	60 (38%)	67 (43%)	63 (40%)	42 (36%)	13 (30%)	4 (31%)	402 (40%)
4	5 (3%)	18 (10%)	31 (19%)	41 (26%)	26 (16%)	30 (25%)	5 (11%)	0 (0%)	156 (15%)
5	0 (0%)	0 (0%)	1 (1%)	0 (0%)	17 (11%)	4 (3%)	2 (5%)	0 (0%)	24 (2%)
6	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)	2 (0%)
7	3 (2%)	1 (1%)	1 (1%)	2 (1%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)	8 (1%)
Total	186 (100%)	178 (100%)	160 (100%)	155 (100%)	159 (100%)	118 (100%)	44 (100%)	13 (100%)	1013 (100%)
Median (IQR; range) position for non-zonal	3 (2, 3; 1, 7)	3 (2, 3; 1, 7)	3 (2, 4; 1, 7)	3 (3, 4; 2, 7)	3 (3, 4; 1, 6)	3 (3, 4; 2, 7)	3 (2, 3; 1, 5)	2 (2, 3; 2, 3)	3 (2, 3; 1, 7)

10. **Table 3** shows that 91% of the livers offered for splitting were retrieved while 94% of those retrieved were ultimately transplanted. The proportion split resulting in two transplants ranged between 8.3% and 29.7%. **Table 3A** shows the reasons non retrieval while **Table 3B** shows the reasons livers retrieved were not transplanted.

Table 3	Offering outcome for UK DBD donors who met split liver criteria and whose liver was <u>offered</u> for transplantation between 1 April 2019 and 30 September 2025, by financial year								
	19/20	20/21	21/22	22/23	23/24	24/25	1 Apr – 18 Aug 25 44	19 Aug – 30 Sep 25 13	Total
Offered	186	178	160	155	159	118			1013
Retrieved (% offered)	163 (88%)	161 (90%)	147 (92%)	145 (94%)	142 (89%)	108 (92%)	43 (98%)	12 (92%)	921 (91%)
Transplanted (% retrieved)	156 (96%)	149 (93%)	140 (95%)	134 (92%)	132 (93%)	104 (96%)	37 (86%)	12 (100%)	864 (94%)
Type of transplant (% transplanted)									
Adult whole liver only	103 (66%)	94 (63.1%)	78 (55.7%)	79 (59.0%)	93 (70.5%)	56 (53.8%)	19 (51%)	11 (92%)	533 (62%)
Adult whole intestinal	1 (0.6%)	0 (0%)	5 (3.6%)	5 (3.7%)	1 (0.8%)	1 (1.0%)	0 (0%)	0 (0%)	13 (2%)
Adult whole SLK	2 (1.3%)	1 (0.7%)	0 (0%)	1 (0.7%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)	5 (1%)
Adult whole liver/cardiothoracic	0	2 (1.3%)	2 (1.4%)	1 (0.7%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	5 (1%)
Adult reduced liver only	3 (1.9%)	1 (0.7%)	2 (1.4%)	3 (2.2%)	1 (0.8%)	1 (1.0%)	0 (0%)	0 (0%)	11 (1%)
Paed whole liver only	7 (4.5%)	7 (4.7%)	11 (7.9%)	8 (6.0%)	6 (4.5%)	8 (7.7%)	1 (3%)	0 (0%)	48 (6%)
Paed reduced liver only	9 (5.8%)	13 (8.7%)	12 (8.6%)	9 (6.7%)	9 (6.8%)	11 (10.6%)	4 (11%)	0 (0%)	67 (8%)
Paed reduced intestinal	0 (0%)	1 (0.7%)	0 (0%)	0 (0%)	0 (0%)	1 (1.0%)	1 (3%)	0 (0%)	3 (0%)
Paed reduced SLK	0 (0%)	0 (0%)	1 (0.7%)	1 (0.7%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	3 (0%)
Split	31 (19.9%)	30 (20.1%)	29 (20.7%)	27 (20.1%)	22 (16.7%)	26 (25%)	11 (29.7%)	1 (8.3%)	177 (20%)

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B. DCD DONORS

11. There were 119 UK donors after circulatory death (DCD) either aged less than 16 years or weighing 40kg or under where the liver was offered for transplantation between 1 April 2019 and 30 September 2025. Twenty of the 119 paediatric DCD donors were aged less than 12 months at donation and weighed less than 10kg and were excluded from the rest of the analysis as the liver would have been offered for hepatocytes. An additional donor was excluded as the liver was fast-tracked as the blood group was unknown due to multiple transfusions.
12. **Table 4** shows the number of paediatric DCD donors ranged between 10 and 20 per full financial year. Thirtty-one percent (N=30) were in the Kings zone, while 27% (N=26) were in the Birmingham zone and 15% (N=15) were in the Leeds zone.

Table 4	First transplant centre in offering sequence for paediatric¹ UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 30 September 2025, by donor zone and financial year								
	19/20	20/21	21/22	22/23	23/24	24/25	1 Apr – 18 Aug 25	19 Aug – 30 Sep 25	Total
Zonal									
Leeds	3 (18%)	2 (13%)	3 (15%)	2 (13%)	3 (30%)	1 (7%)	1 (17%)	0 (0%)	15 (15%)
Kings College	4 (24%)	3 (20%)	11 (55%)	7 (47%)	1 (10%)	2 (14%)	2 (33%)	0 (0%)	30 (31%)
Birmingham	5 (29%)	4 (27%)	2 (10%)	4 (27%)	4 (40%)	5 (36%)	2 (33%)	0 (0%)	26 (27%)
Newcastle	2 (12%)	0 (0%)	1 (5%)	0 (0%)	0 (0%)	1 (7%)	0 (0%)	1 (100%)	5 (5%)
Cambridge	2 (12%)	5 (33%)	2 (10%)	0 (0%)	0 (0%)	2 (14%)	1 (17%)	0 (0%)	12 (12%)
Royal Free	1 (6%)	1 (7%)	0 (0%)	0 (0%)	1 (10%)	2 (14%)	0 (0%)	0 (0%)	5 (5%)
Edinburgh	0 (0%)	0 (0%)	1 (5%)	2 (13%)	1 (10%)	1 (7%)	0 (0%)	0 (0%)	5 (5%)
Overall Total	17 (100%)	15 (100%)	20 (100%)	15 (100%)	10 (100%)	14 (100%)	6 (100%)	1 (100%)	98 (100%)

¹ Donors aged less than 12 months and weighing less than 10kg excluded

13. **Table 5** shows that 49% of the livers offered were retrieved while 92% of those retrieved were ultimately transplanted. All but one of the 41 livers transplanted were transplanted into elective patients and 28 (64%) were transplanted into adult recipients. **Table 6A** shows the reasons non retrieval while **Table 6B** shows the reasons livers retrieved were not transplanted.

14. **Table 5A** shows the offering outcome for donors not in Birmingham, Kings College or Leeds zones.

Table 5 Offering outcome for paediatric¹ UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 30 September 2025, by financial year									
	19/20	20/21	21/22	22/23	23/24	24/25	1 Apr – 18 Aug 25	19 Aug – 30 Sep 25	Total
Offered	17	15	20	15	10	14	6	1	98
Retrieved (% offered)	4 (24%)	11 (73%)	9 (45%)	11 (73%)	4 (40%)	6 (43%)	3 (50%)	0 (0%)	48 (49%)
Transplanted (% retrieved)	3 (75%)	10 (91%)	8 (89%)	10 (91%)	4 (100%)	6 (100%)	3 (100%)	0 (0%)	44 (92%)
Type of transplant (% transplanted)									
Adult whole LO	3 (100%)	8 (80%)	6 (75%)	4 (40%)	1 (25%)	3 (50%)	3 (100%)	0 (0%)	28 (64%)
Paed whole LO	0 (0%)	1 (10%)	2 (25%)	6 (60%)	3 (75%)	2 (33%)	0 (0%)	0 (0%)	14 (32%)
Paed reduced LO	0 (0%)	1 (10%)	0 (0%)	0 (0%)	0 (0%)	1 (17%)	0 (0%)	0 (0%)	2 (4%)

¹ Donors aged less than 12 months and weighing less than 10kg excluded

Table 5A Offering outcome for paediatric¹ UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 30 September 2025 and not in Birmingham, Kings College or Leeds zone, by financial year									
	19/20	20/21	21/22	22/23	23/24	24/25	1 Apr – 18 Aug 25	19 Aug – 30 Sep 25	Total
Offered	5	6	4	2	2	6	1	1	27
Retrieved (% offered)	0 (0%)	3 (50%)	2 (50%)	2 (100%)	2 (100%)	3 (50%)	0 (0%)	0 (0%)	12 (44%)
Transplanted (% retrieved)	0 (0%)	2 (67%)	2 (100%)	2 (100%)	2 (100%)	3 (100%)	0 (0%)	0 (0%)	11 (92%)
Type of transplant (% transplanted)									
Adult whole LO	0 (0%)	2 (100%)	1 (50%)	2 (100%)	1 (50%)	2 (67%)	0 (0%)	0 (0%)	8 (73%)
Paed whole LO	0 (0%)	0 (0%)	1 (50%)	0 (0%)	1 (50%)	0 (0%)	0 (0%)	0 (0%)	2 (18%)
Paed reduced LO	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (33%)	0 (0%)	0 (0%)	1 (9%)

¹ Donors aged less than 12 months and weighing less than 10kg excluded

Table 6A	Reasons for non-retrieval of livers from paediatric UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 30 September 2025, by financial year								
	19/20	20/21	21/22	22/23	23/24	24/25	1 Apr – 18 Aug 25	19 Aug – 30 Sep 25	Total
No suitable recipients	5 (38%)	2 (50%)	5 (45%)	1 (25%)	2 (33%)	1 (13%)	1 (33%)	1 (100%)	18 (36%)
Donor unsuitable - past history	5 (38%)	0 (0%)	3 (27%)	2 (50%)	1 (17%)	3 (38%)	1 (33%)	0 (0%)	15 (30%)
Donor unsuitable - age	2 (15%)	0 (0%)	1 (9%)	0 (0%)	1 (17%)	1 (13%)	0 (0%)	0 (0%)	5 (10%)
Other, please specify	1 (8%)	0 (0%)	1 (9%)	0 (0%)	1 (17%)	0 (0%)	0 (0%)	0 (0%)	3 (6%)
Prolonged time to asystole	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	2 (25%)	1 (33%)	0 (0%)	3 (6%)
Donor unsuitable - size	0 (0%)	0 (0%)	0 (0%)	1 (25%)	1 (17%)	0 (0%)	0 (0%)	0 (0%)	2 (4%)
Family permission refused	0 (0%)	1 (25%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (2%)
Poor function	0 (0%)	1 (25%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (2%)
No response to fast track/group offer	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (13%)	0 (0%)	0 (0%)	1 (2%)
Donor unsuitable - virology	0 (0%)	0 (0%)	1 (9%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (2%)
Total	13 (100%)	4 (100%)	11 (100%)	4 (100%)	6 (100%)	8 (100%)	3 (100%)	1 (100%)	50 (100%)

Table 6B **Reasons for not transplanting livers retrieved from paediatric UK DCD donors between 1 April 2019 and 30 September 2025, by financial year**

	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	Total
Organ damaged	0	0	1 (100%)	0	0	0	1 (25%)
Taken for hepatocytes	1 (100%)	1 (100%)	0	1 (100%)	0	0	3 (7%)
Total	1 (100%)	1 (100%)	1 (100%)	1 (100%)	0 (-)	0 (-)	4 (100%)

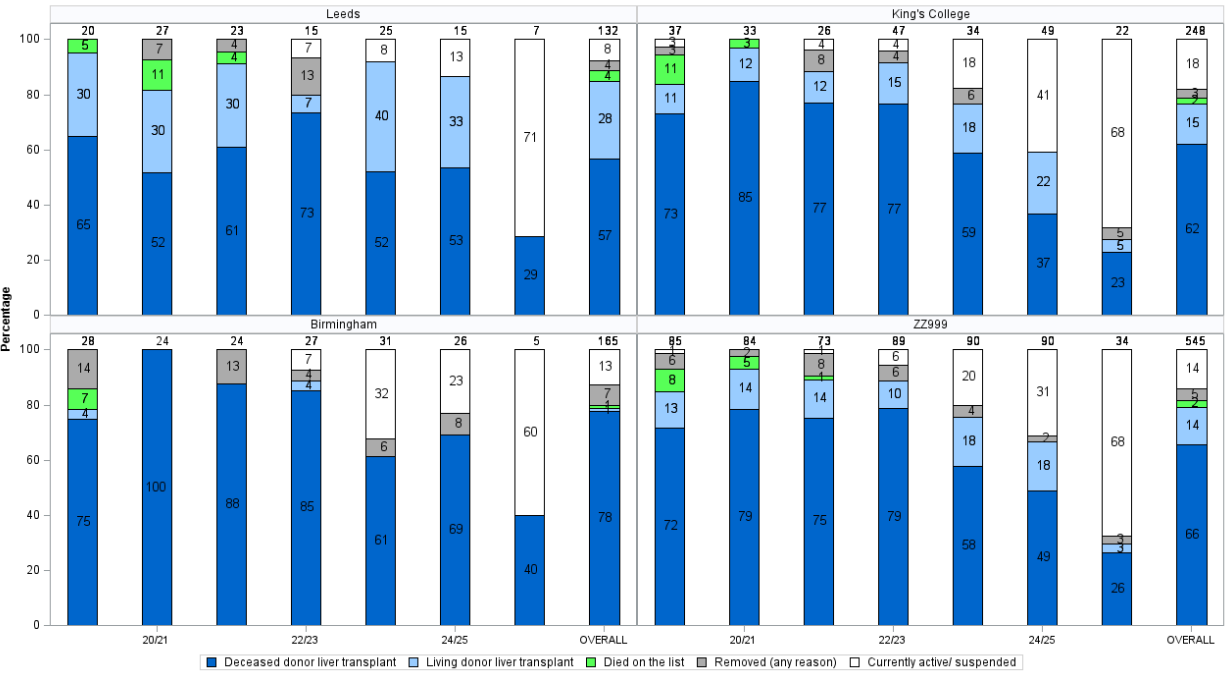
REGISTRATIONS

15. There were 545 paediatric elective registrations at the three UK adult and paediatric transplant centres between 1 April 2019 and 30 September 2025. There were three additional paediatric registrations at Newcastle during the time period. **Table 7** shows the registration financial year and registration outcome as at 27 October 2025 by transplant centre. There was a statistically association between transplant centre and the registration outcome both presented below (Chi-squared p -value<0.0001 (categories as below)) and when combining deceased and living donor transplant (Fishers exact p =0.0282).

Table 7 Number of UK NHS Group 1 paediatric elective liver registrations, 1 April 2019 to 30 September 2025

	Transplant centre				
	Leeds	King's College	Birmingham	Total	Newcastle
N (% at each centre (row %))	132 (24%)	248 (46%)	165 (30%)	545 (100%)	3
Registration year (% for each centre (column %))					
2019/2020	20 (15%)	37 (15%)	28 (17%)	85 (16%)	0 (0%)
2020/2021	27 (20%)	33 (13%)	24 (15%)	84 (15%)	0 (0%)
2021/2022	23 (17%)	26 (10%)	24 (15%)	73 (13%)	2 (67%)
2022/2023	15 (11%)	47 (19%)	27 (16%)	89 (16%)	0 (0%)
2023/2024	25 (19%)	34 (14%)	31 (19%)	90 (17%)	0 (0%)
2024/2025	15 (11%)	49 (20%)	26 (16%)	90 (17%)	0 (0%)
1 April – 30 Sept 2025	7 (5%)	22 (9%)	5 (3%)	34 (6%)	1 (33%)
Registration outcome (% for each centre (column %))					
Deceased donor liver transplant	75 (57%)	154 (62%)	128 (78%)	357 (66%)	0 (0%)
Living donor liver transplant	37 (28%)	36 (15%)	2 (1%)	75 (14%)	0 (0%)
Died on the list	5 (4%)	5 (2%)	2 (1%)	12 (2%)	1 (33%)
Removed (any reason)	5 (4%)	8 (3%)	12 (7%)	25 (5%)	1 (33%)
Currently active/ suspended as at 27 October 2025	10 (8%)	45 (18%)	21 (13%)	76 (14%)	1 (33%)

Figure 1 Registration outcome by transplant unit and time period, 1 April 2019 to 30 September 2025



16. **Table 7A** shows the primary liver indication by transplant centre.

Table 7A Number of UK NHS Group 1 paediatric elective liver registrations, 1 April 2019 to 30 September 2025

N (% at each centre (row %))	Transplant centre				Newcastle 3
	Leeds 132 (24%)	King's College 248 (46%)	Birmingham 165 (30%)	Total 545 (100%)	
Primary indication (% for each centre (column %))					
Biliary atresia	33 (25%)	81 (33%)	46 (28%)	160 (29%)	0 (0%)
Hepatoblastoma/ prioritised paed	28 (21%)	43 (17%)	39 (24%)	110 (20%)	0 (0%)
Other	6 (5%)	29 (12%)	14 (8%)	49 (9%)	2 (67%)
Other metabolic liver disease	6 (5%)	20 (8%)	8 (5%)	34 (6%)	0 (0%)
Progressive familial intrahepatic cholestasis	10 (8%)	14 (6%)	8 (5%)	32 (6%)	0 (0%)
Urea cycle disorder	1 (1%)	13 (5%)	2 (1%)	16 (3%)	0 (0%)
Autoimmune chronic active liver disease	7 (5%)	3 (1%)	5 (3%)	15 (3%)	1 (33%)
Alagilles syndrome	3 (2%)	4 (2%)	6 (4%)	13 (2%)	0 (0%)
Paediatric cholestatic liver disease	6 (5%)	6 (2%)	1 (1%)	13 (2%)	0 (0%)
Alpha-1-antitrypsin deficiency	5 (4%)	3 (1%)	4 (2%)	12 (2%)	0 (0%)
Biliary complications	8 (6%)	3 (1%)	1 (1%)	12 (2%)	0 (0%)
Primary sclerosing cholangitis	4 (3%)	1 (0%)	7 (4%)	12 (2%)	0 (0%)
Cryptogenic cirrhosis	3 (2%)	4 (2%)	3 (2%)	10 (2%)	0 (0%)
Maple syrup urine disease	1 (1%)	5 (2%)	3 (2%)	9 (2%)	0 (0%)
Chronic rejection	4 (3%)	1 (0%)	0 (0%)	5 (1%)	0 (0%)
Cystic fibrosis	0 (0%)	4 (2%)	1 (1%)	5 (1%)	0 (0%)
Glycogen storage disease	0 (0%)	4 (2%)	1 (1%)	5 (1%)	0 (0%)
Congenital hepatic fibrosis	1 (1%)	1 (0%)	2 (1%)	4 (1%)	0 (0%)
Crigler-Najjar syndrome	0 (0%)	4 (2%)	0 (0%)	4 (1%)	0 (0%)
Hepatic artery thrombosis	0 (0%)	1 (0%)	3 (2%)	4 (1%)	0 (0%)
Wilsos disease	0 (0%)	0 (0%)	4 (2%)	4 (1%)	0 (0%)
Budd-Chiari syndrome	0 (0%)	1 (0%)	1 (1%)	2 (0%)	0 (0%)
Mitochondrial disease	1 (1%)	1 (0%)	0 (0%)	2 (0%)	0 (0%)
Neonatal sclerosing cholangitis	1 (1%)	1 (0%)	0 (0%)	2 (0%)	0 (0%)
Primary biliary cirrhosis	1 (1%)	0 (0%)	1 (1%)	2 (0%)	0 (0%)
Acute vascular occlusion - artery and venous	1 (1%)	0 (0%)	0 (0%)	1 (0%)	0 (0%)
Congenital biliary disease	1 (1%)	0 (0%)	0 (0%)	1 (0%)	0 (0%)
Hepatocellular carcinoma - cirrhotic	0 (0%)	0 (0%)	1 (1%)	1 (0%)	0 (0%)
Hepatocellular carcinoma - non-cirrhotic	0 (0%)	0 (0%)	1 (1%)	1 (0%)	0 (0%)
Not reported	0 (0%)	1 (0%)	0 (0%)	1 (0%)	0 (0%)
Other primary hepatic malignancy	0 (0%)	0 (0%)	1 (1%)	1 (0%)	0 (0%)
Primary oxalosis	0 (0%)	0 (0%)	1 (1%)	1 (0%)	0 (0%)
Secondary biliary cirrhosis	0 (0%)	0 (0%)	1 (1%)	1 (0%)	0 (0%)
Tyrosinaemia	1 (1%)	0 (0%)	0 (0%)	1 (0%)	0 (0%)

17. **Table 8** shows the demographics for patients who either died on the list or were removed due to any reason. Four patients have been removed since the last report in April 2025.

Table 8 Demographics of UK paediatric elective liver registrations where the patient died or was removed from the list due to any reason, 1 April 2019 to 30 September 2025 as at 27 October 2025

	Transplant centre				
N (% at each centre)	Leeds 10 (27%)	King's College 13 (35%)	Birmingham 14 (38%)	Total 37 (100%)	Newc. 2
Registration year (% for each centre)					
2019/2020	1 (10%)	5 (38%)	6 (43%)	12 (32%)	0 (0%)
2020/2021	5 (50%)	1 (8%)	0 (0%)	6 (16%)	0 (0%)
2021/2022	2 (20%)	2 (15%)	3 (21%)	7 (19%)	2 (100%)
2022/2023	2 (20%)	2 (15%)	1 (7%)	5 (14%)	0 (0%)
2023/2024	0 (0%)	2 (15%)	2 (14%)	4 (11%)	0 (0%)
2024/2025	0 (0%)	0 (0%)	2 (14%)	2 (5%)	0 (0%)
1 April – 30 Sept 2025	0 (0%)	1 (8%)	0 (0%)	1 (3%)	0 (0%)
Registration outcome					
Died on list	5 (50%)	5 (38%)	2 (14%)	12 (32%)	1 (50%)
Removed due to condition improved	4 (40%)	2 (15%)	4 (29%)	10 (27%)	1 (50%)
Removed due to other reason	0 (0%)	3 (23%)	3 (21%)	6 (16%)	0 (0%)
Removed due to condition deterioration	0 (0%)	0 (0%)	4 (29%)	4 (11%)	0 (0%)
Removed (reason not reported)	0 (0%)	1 (8%)	1 (7%)	2 (5%)	0 (0%)
Removed due to patient/parent request	0 (0%)	2 (15%)	0 (0%)	2 (5%)	0 (0%)
Registered on super-urgent list	1 (10%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)
Primary indication					
Biliary atresia	6 (60%)	6 (46%)	4 (29%)	16 (43%)	0 (0%)
Hepatoblastoma/ prioritised paed	0 (0%)	2 (15%)	2 (14%)	4 (11%)	0 (0%)
Other	0 (0%)	1 (8%)	3 (21%)	4 (11%)	2 (100%)
Autoimmune chronic active liver disease	1 (10%)	0 (0%)	1 (7%)	2 (5%)	0 (0%)
Cystic fibrosis	0 (0%)	1 (8%)	1 (7%)	2 (5%)	0 (0%)
Progressive familial intrahepatic cholestasis	0 (0%)	1 (8%)	1 (7%)	2 (5%)	0 (0%)
Biliary complications	1 (10%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)
Chronic rejection	1 (10%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)
Congenital hepatic fibrosis	0 (0%)	0 (0%)	1 (7%)	1 (3%)	0 (0%)
Hepatic artery thrombosis	0 (0%)	1 (8%)	0 (0%)	1 (3%)	0 (0%)
Maple syrup urine disease	0 (0%)	1 (8%)	0 (0%)	1 (3%)	0 (0%)
Primary sclerosing cholangitis	1 (10%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)
Wilsons disease	0 (0%)	0 (0%)	1 (7%)	1 (3%)	0 (0%)
Age at registration (Median (IQR; range))	0 (0, 15; 0, 16)	0 (0, 3; 0, 14)	3 (0, 12; 0, 16)	1 (0, 8; 0, 16)	15
Weight at registration (Median (IQR; range))	7.35 (6.1, 64.6; 4.5, 102)	7.4 (5.6, 11.4; 5, 37.5)	13 (7.1, 40.5; 4.2, 60.9)	10.7 (6.1, 22.5; 4.2, 102)	55.95 (44.4, 67.5)
Total time on the list (Median (IQR; range))	83 (19, 109; 1, 1478)	194 (73, 329; 11, 890)	122 (55, 222; 2, 351)	109 (60, 242; 1, 1478)	666 (8, 1324)
Days active on list (Median (IQR; range))	59.5 (13, 90; 1, 1257)	160 (73, 242; 11, 890)	55.5 (32, 175; 2, 276)	73 (31, 222; 1, 1257)	666 (8, 1324)
Days suspended (Median (IQR; range))	33.5 (17, 96; 1, 221)	42 (36, 165; 5, 272)	56.5 (49, 91; 11, 147)	52 (31, 94; 1, 272)	-

18. Four of the 39 patients were removed since 1 April 2025
- a. 15 year old registered at Newcastle in December 2021 with “Cirrhosis secondary to cardiac congestion and congenital Hepatic fibrosis” as primary indication and removed in August 2025 due to condition improved.
 - b. 6 year old registered at Leeds in November 2022 for a retransplant and removed in June 2025 due to condition improved
 - c. 3 year old registered at Kings College in February 2023 with Progressive familial intrahepatic cholestasis as primary indication and removed in July 2025 due to condition improved.
 - d. Less than 12 month old registered at Kings College in April 2025 as a prioritised paediatric patient transferred to the super-urgent tier in August 2025 but sadly died two days later.

PATIENTS CURRENTLY ACTIVE OR SUSPENDED

19. There were 81 patients aged less than 17 years at registration either active or suspended on 28 October 2025 at the three UK paediatric transplant centres. There was also one additional patient active at Newcastle. **Table 9** summarises the demographics of the patients at each transplant centre.
20. Seven patients (one at Leeds, two at Birmingham and four at Kings College) have been on the transplant list for three or more years with the longest patient registered in 2013.
21. 25 (30%) of the 82 patients are dual-listed as large paediatric patients.

Table 9 Demographics of paediatric patients currently active or suspended as at 28 October 2025

N (% at each centre)	Transplant centre				Newc. 1
	Leeds 12 (15%)	King's College 48 (59%)	Birmingham 21 (26%)	Total 81 (100%)	
Status as at 27 October 2025 (% for each centre)					
Active	10 (83%)	46 (96%)	20 (95%)	76 (94%)	1 (100%)
Suspended	2 (17%)	2 (4%)	1 (5%)	5 (6%)	0 (0%)
Primary indication					
Biliary atresia	3 (25%)	14 (29%)	3 (14%)	20 (25%)	0 (0%)
Other metabolic liver disease	3 (25%)	7 (15%)	5 (24%)	15 (19%)	0 (0%)
Urea cycle disorder	0 (0%)	6 (13%)	0 (0%)	6 (7%)	0 (0%)
Maple syrup urine disease	1 (8%)	2 (4%)	2 (10%)	5 (6%)	0 (0%)
Progressive familial intrahepatic cholestasis	0 (0%)	4 (8%)	1 (5%)	5 (6%)	0 (0%)
Alagilles syndrome	0 (0%)	0 (0%)	3 (14%)	3 (4%)	0 (0%)
Biliary complications	1 (8%)	1 (2%)	1 (5%)	3 (4%)	0 (0%)
Crigler-Najjar syndrome	0 (0%)	3 (6%)	0 (0%)	3 (4%)	0 (0%)
Alpha-1-antitrypsin deficiency	0 (0%)	1 (2%)	1 (5%)	2 (2%)	0 (0%)
Autoimmune chronic active liver disease	1 (8%)	0 (0%)	1 (5%)	2 (2%)	1 (100%)
Congenital hepatic fibrosis	0 (0%)	1 (2%)	1 (5%)	2 (2%)	0 (0%)
Glycogen storage disease	0 (0%)	2 (4%)	0 (0%)	2 (2%)	0 (0%)
Chronic rejection	1 (8%)	0 (0%)	0 (0%)	1 (1%)	0 (0%)
Cystic fibrosis	0 (0%)	1 (2%)	0 (0%)	1 (1%)	0 (0%)
Hepatoblastoma/ prioritised paed	1 (8%)	0 (0%)	0 (0%)	1 (1%)	0 (0%)
Other	1 (8%)	4 (8%)	3 (14%)	8 (10%)	0 (0%)
Paediatric cholestatic liver disease	0 (0%)	1 (2%)	0 (0%)	1 (1%)	0 (0%)
Porphyria	0 (0%)	1 (2%)	0 (0%)	1 (1%)	0 (0%)
Graft number					
First graft	10 (83%)	44 (92%)	19 (90%)	73 (90%)	1 (100%)
Second	2 (17%)	3 (6%)	2 (10%)	7 (9%)	0 (0%)
Third	0 (0%)	1 (2%)	0 (0%)	1 (1%)	0 (0%)
Organs required					
Liver only	12 (100%)	45 (94%)	18 (86%)	75 (93%)	1 (100%)
SLK	0 (0%)	3 (6%)	3 (14%)	6 (7%)	0 (0%)
Age (Median (IQR; range))					
Age at registration	1.5 (1, 9.5; 0, 15)	5.5 (1, 11.5; 0, 16)	4 (1, 11; 1, 15)	5 (1, 11; 0, 16)	16
Current age	4 (1.5, 10; 0, 15)	6.5 (2.5, 12; 0, 28)	5 (3, 13; 2, 17)	6 (2, 12; 0, 28)	17
Weight at registration (median (IQR; range))					
	12.25 (10.75, 27; 5, 72)	17.5 (10.6, 41.35; 6, 67.8)	15.4 (11.6, 41.2; 8.2, 92)	16.3 (11.1, 41; 5, 92)	68.7
Total time on the list (median (IQR; range))					
	136 (43, 487.5; 7, 1132)	324.5 (141, 503.5; 4, 4582)	592 (294, 749; 109, 1187)	362 (145, 613; 4, 4582)	124
Days active on list (Med (IQR; range))					
	136 (29.5, 480.5; 7, 987)	295.5 (141, 489; 4, 4521)	545 (259, 673; 109, 1187)	328 (145, 606; 4, 4521)	124 (
Days suspended (Med (IQR; range))					
	31 (20.5, 90; 14, 145)	121.5 (38.5, 375.5; 16, 565)	36 (18, 103; 3, 204)	42 (18, 145; 3, 565)	-

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October 2025

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