

# NHS BLOOD AND TRANSPLANT

## LIVER ADVISORY GROUP

### PAEDIATRIC OFFERING DATA

#### LAY SUMMARY

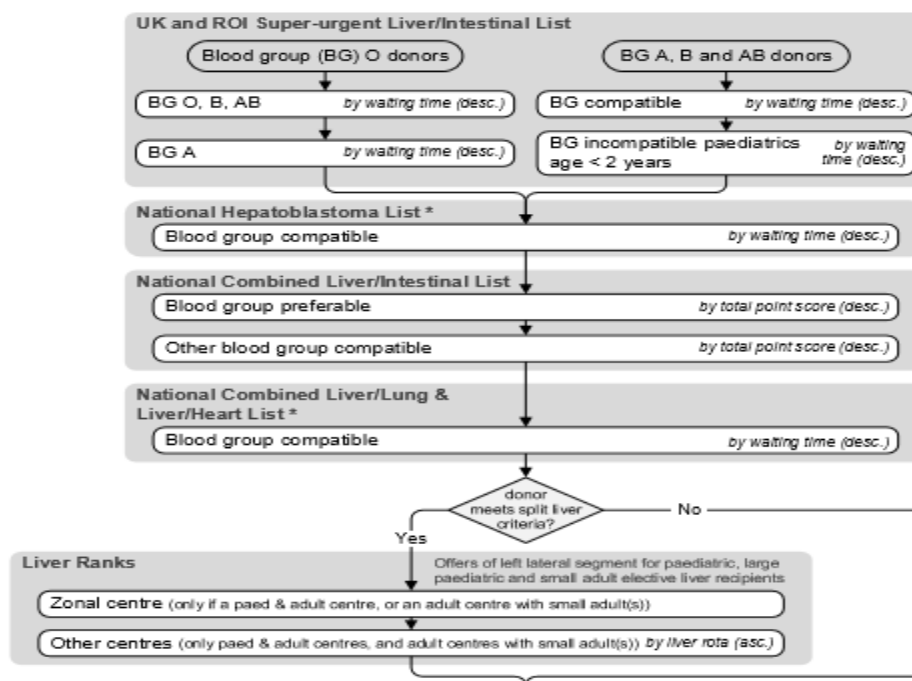
Patients aged less than 17 years at registration are classed as paediatric patients for liver transplantation. Livers from donors after brain death who meet the split liver criteria are offered to transplant centres for any paediatric or small adult (defined as aged 17 years or over and weighing less than 40kg) and not an individual patient. The offering sequence is dependent upon the combined adult and paediatric transplant activity rather than paediatric only activity which could be. This paper examines the offering sequence and utilisation as well as the number of paediatric registrations.

#### 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>).



2. **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”.
3. 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 31 March 2026.
5. The criteria used to determine whether livers should be offered for splitting was updated on 19<sup>th</sup> 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/m<sup>2</sup>
  - 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 31 March 2026 were also extracted from the UK Transplant Registry on 30 April 2026. 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 30 April 2026.

## RESULTS

## A. DBD DONOR MEETING SPLIT LIVER CRITERIA

8. There were 1077 UK donors after brain death (DBD) who met split liver criteria where the liver was offered for transplantation between 1 April 2019 and 31 March 2026. **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 371 (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 224 (60%).

| <b>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 31 March 2026, by donor zone and financial year</b> |                   |                   |                   |                   |                   |                   |                      |                       |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|-----------------------|--------------------|
|                                                                                                                                                                                                                                            | 19/20             | 20/21             | 21/22             | 22/23             | 23/24             | 24/25             | 1 Apr –<br>18 Aug 25 | 19 Aug –<br>31 Mar 26 | Total              |
| <b>Zonal</b>                                                                                                                                                                                                                               |                   |                   |                   |                   |                   |                   |                      |                       |                    |
| Leeds                                                                                                                                                                                                                                      | 32 (17%)          | 30 (17%)          | 30 (19%)          | 38 (25%)          | 32 (20%)          | 16 (14%)          | 13 (30%)             | 13 (17%)              | <b>204 (19%)</b>   |
| Kings College                                                                                                                                                                                                                              | 39 (21%)          | 40 (22%)          | 33 (21%)          | 37 (24%)          | 38 (24%)          | 41 (35%)          | 11 (25%)             | 21 (27%)              | <b>260 (24%)</b>   |
| Birmingham                                                                                                                                                                                                                                 | 37 (20%)          | 38 (21%)          | 34 (21%)          | 26 (17%)          | 31 (19%)          | 24 (20%)          | 7 (16%)              | 9 (12%)               | <b>206 (19%)</b>   |
| Newcastle                                                                                                                                                                                                                                  | 2 (1%)            | 0 (0%)            | 1 (1%)            | 3 (2%)            | 3 (2%)            | 4 (3%)            | 2 (5%)               | 0 (0%)                | <b>15 (1%)</b>     |
| Cambridge                                                                                                                                                                                                                                  | 0 (0%)            | 3 (2%)            | 0 (0%)            | 0 (0%)            | 3 (2%)            | 0 (0%)            | 0 (0%)               | 0 (0%)                | <b>6 (1%)</b>      |
| Royal Free                                                                                                                                                                                                                                 | 0 (0%)            | 0 (0%)            | 7 (4%)            | 1 (1%)            | 0 (0%)            | 0 (0%)            | 0 (0%)               | 1 (1%)                | <b>9 (1%)</b>      |
| Edinburgh                                                                                                                                                                                                                                  | 0 (0%)            | 3 (2%)            | 1 (1%)            | 0 (0%)            | 0 (0%)            | 1 (1%)            | 0 (0%)               | 1 (1%)                | <b>6 (1%)</b>      |
| <b>Total</b>                                                                                                                                                                                                                               | <b>110 (59%)</b>  | <b>114 (64%)</b>  | <b>106 (66%)</b>  | <b>105 (68%)</b>  | <b>107 (67%)</b>  | <b>86 (73%)</b>   | <b>33 (75%)</b>      | <b>45 (58%)</b>       | <b>706 (66%)</b>   |
| <b>Non-Zonal</b>                                                                                                                                                                                                                           |                   |                   |                   |                   |                   |                   |                      |                       |                    |
| Leeds                                                                                                                                                                                                                                      | 59 (32%)          | 41 (23%)          | 34 (21%)          | 25 (16%)          | 20 (13%)          | 15 (13%)          | 7 (16%)              | 23 (30%)              | <b>224 (21%)</b>   |
| Kings College                                                                                                                                                                                                                              | 6 (3%)            | 8 (4%)            | 3 (2%)            | 3 (2%)            | 2 (1%)            | 4 (3%)            | 0 (0%)               | 0 (0%)                | <b>26 (2%)</b>     |
| Birmingham                                                                                                                                                                                                                                 | 3 (2%)            | 10 (6%)           | 1 (1%)            | 0 (0%)            | 6 (4%)            | 0 (0%)            | 2 (5%)               | 1 (1%)                | <b>23 (2%)</b>     |
| Newcastle                                                                                                                                                                                                                                  | 0 (0%)            | 0 (0%)            | 3 (2%)            | 22 (14%)          | 23 (14%)          | 12 (10%)          | 2 (5%)               | 6 (8%)                | <b>68 (6%)</b>     |
| Cambridge                                                                                                                                                                                                                                  | 8 (4%)            | 4 (2%)            | 0 (0%)            | 0 (0%)            | 1 (1%)            | 0 (0%)            | 0 (0%)               | 0 (0%)                | <b>13 (1%)</b>     |
| Royal Free                                                                                                                                                                                                                                 | 0 (0%)            | 0 (0%)            | 11 (7%)           | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)               | 2 (3%)                | <b>13 (1%)</b>     |
| Edinburgh                                                                                                                                                                                                                                  | 0 (0%)            | 1 (1%)            | 2 (1%)            | 0 (0%)            | 0 (0%)            | 1 (1%)            | 0 (0%)               | 0 (0%)                | <b>4 (0%)</b>      |
| <b>Total</b>                                                                                                                                                                                                                               | <b>76 (41%)</b>   | <b>64 (36%)</b>   | <b>54 (34%)</b>   | <b>50 (32%)</b>   | <b>52 (33%)</b>   | <b>32 (27%)</b>   | <b>11 (25%)</b>      | <b>32 (42%)</b>       | <b>371 (34%)</b>   |
| <b>Overall Total</b>                                                                                                                                                                                                                       | <b>186 (100%)</b> | <b>178 (100%)</b> | <b>160 (100%)</b> | <b>155 (100%)</b> | <b>159 (100%)</b> | <b>118 (100%)</b> | <b>44 (100%)</b>     | <b>77 (100%)</b>      | <b>1077 (100%)</b> |

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

**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 31 March 2026, by hospital and financial year**

|                                            | 19/20             | 20/21             | 21/22             | 22/23             | 23/24             | 24/25             | 1 Apr –<br>18 Aug 25 | 19 Aug –<br>31 Mar 26 | Total              |
|--------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|-----------------------|--------------------|
| <b>Leeds</b>                               |                   |                   |                   |                   |                   |                   |                      |                       |                    |
| Zone                                       | 32 (17%)          | 30 (17%)          | 30 (19%)          | 38 (25%)          | 32 (20%)          | 16 (14%)          | 13 (30%)             | 13 (17%)              | <b>204 (19%)</b>   |
| Top non-zone                               | 59 (32%)          | 41 (23%)          | 34 (21%)          | 25 (16%)          | 20 (13%)          | 15 (13%)          | 7 (16%)              | 23 (30%)              | <b>224 (21%)</b>   |
| 2                                          | 84 (45%)          | 76 (43%)          | 66 (41%)          | 59 (38%)          | 60 (38%)          | 45 (38%)          | 12 (27%)             | 32 (42%)              | <b>434 (40%)</b>   |
| 3                                          | 10 (5%)           | 23 (13%)          | 25 (16%)          | 25 (16%)          | 39 (25%)          | 33 (28%)          | 12 (27%)             | 9 (12%)               | <b>176 (16%)</b>   |
| 4                                          | 0 (0%)            | 4 (2%)            | 5 (3%)            | 5 (3%)            | 5 (3%)            | 8 (7%)            | 0 (0%)               | 0 (0%)                | <b>27 (3%)</b>     |
| 5                                          | 0 (0%)            | 1 (1%)            | 0 (0%)            | 2 (1%)            | 3 (2%)            | 0 (0%)            | 0 (0%)               | 0 (0%)                | <b>6 (1%)</b>      |
| 6                                          | 1 (1%)            | 3 (2%)            | 0 (0%)            | 1 (1%)            | 0 (0%)            | 1 (1%)            | 0 (0%)               | 0 (0%)                | <b>6 (1%)</b>      |
| 7                                          | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)               | 0 (0%)                | <b>0 (0%)</b>      |
| <b>Total</b>                               | <b>186 (100%)</b> | <b>178 (100%)</b> | <b>160 (100%)</b> | <b>155 (100%)</b> | <b>159 (100%)</b> | <b>118 (100%)</b> | <b>44 (100%)</b>     | <b>77 (100%)</b>      | <b>1077 (100%)</b> |
| 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, 2; 1, 6)     |
| <b>Kings College</b>                       |                   |                   |                   |                   |                   |                   |                      |                       |                    |
| Zone                                       | 39 (21%)          | 40 (22%)          | 33 (21%)          | 37 (24%)          | 38 (24%)          | 41 (35%)          | 11 (25%)             | 21 (27%)              | 260 (24%)          |
| Top non-zone                               | 6 (3%)            | 8 (4%)            | 3 (2%)            | 3 (2%)            | 2 (1%)            | 4 (3%)            | 0 (0%)               | 0 (0%)                | 26 (2%)            |
| 2                                          | 52 (28%)          | 21 (12%)          | 20 (13%)          | 28 (18%)          | 18 (11%)          | 11 (9%)           | 2 (5%)               | 5 (6%)                | 157 (15%)          |
| 3                                          | 79 (42%)          | 92 (52%)          | 61 (38%)          | 60 (39%)          | 36 (23%)          | 38 (32%)          | 16 (36%)             | 30 (39%)              | 412 (38%)          |
| 4                                          | 8 (4%)            | 14 (8%)           | 36 (23%)          | 26 (17%)          | 57 (36%)          | 23 (19%)          | 12 (27%)             | 18 (23%)              | 194 (18%)          |
| 5                                          | 1 (1%)            | 0 (0%)            | 6 (4%)            | 0 (0%)            | 7 (4%)            | 0 (0%)            | 3 (7%)               | 1 (1%)                | 18 (2%)            |
| 6                                          | 1 (1%)            | 0 (0%)            | 1 (1%)            | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)               | 1 (1%)                | 3 (0%)             |
| 7                                          | 0 (0%)            | 3 (2%)            | 0 (0%)            | 1 (1%)            | 1 (1%)            | 1 (1%)            | 0 (0%)               | 1 (1%)                | 7 (1%)             |
| <b>Total</b>                               | <b>186 (100%)</b> | <b>178 (100%)</b> | <b>160 (100%)</b> | <b>155 (100%)</b> | <b>159 (100%)</b> | <b>118 (100%)</b> | <b>44 (100%)</b>     | <b>77 (100%)</b>      | <b>1077 (100%)</b> |
| 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; 2, 7)        | 3 (3, 4; 1, 7)     |
| <b>Birmingham</b>                          |                   |                   |                   |                   |                   |                   |                      |                       |                    |
| Zone                                       | 37 (20%)          | 38 (21%)          | 34 (21%)          | 26 (17%)          | 31 (19%)          | 24 (20%)          | 7 (16%)              | 9 (12%)               | 206 (19%)          |
| Top non-zone                               | 3 (2%)            | 10 (6%)           | 1 (1%)            | 0 (0%)            | 6 (4%)            | 0 (0%)            | 2 (5%)               | 1 (1%)                | 23 (2%)            |
| 2                                          | 42 (23%)          | 54 (30%)          | 32 (20%)          | 19 (12%)          | 15 (9%)           | 16 (14%)          | 15 (34%)             | 24 (31%)              | 217 (20%)          |
| 3                                          | 96 (52%)          | 57 (32%)          | 60 (38%)          | 67 (43%)          | 63 (40%)          | 42 (36%)          | 13 (30%)             | 35 (45%)              | 433 (40%)          |
| 4                                          | 5 (3%)            | 18 (10%)          | 31 (19%)          | 41 (26%)          | 26 (16%)          | 30 (25%)          | 5 (11%)              | 5 (6%)                | 161 (15%)          |
| 5                                          | 0 (0%)            | 0 (0%)            | 1 (1%)            | 0 (0%)            | 17 (11%)          | 4 (3%)            | 2 (5%)               | 1 (1%)                | 25 (2%)            |
| 6                                          | 0 (0%)            | 0 (0%)            | 0 (0%)            | 0 (0%)            | 1 (1%)            | 1 (1%)            | 0 (0%)               | 1 (1%)                | 3 (0%)             |
| 7                                          | 3 (2%)            | 1 (1%)            | 1 (1%)            | 2 (1%)            | 0 (0%)            | 1 (1%)            | 0 (0%)               | 1 (1%)                | 9 (1%)             |
| <b>Total</b>                               | <b>186 (100%)</b> | <b>178 (100%)</b> | <b>160 (100%)</b> | <b>155 (100%)</b> | <b>159 (100%)</b> | <b>118 (100%)</b> | <b>44 (100%)</b>     | <b>77 (100%)</b>      | <b>1077 (100%)</b> |
| 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)       | 3 (2, 3; 1, 7)        | 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 17% and 30%. **Table 3A** shows the reasons non retrieval while **Table 3B** shows the reasons livers retrieved were not transplanted.

| <b>Table 3</b>                             | <b>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 31 March 2026, by financial year</b> |              |              |              |              |              |                              |                               |                  |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|------------------------------|-------------------------------|------------------|
|                                            | <b>19/20</b>                                                                                                                                                                            | <b>20/21</b> | <b>21/22</b> | <b>22/23</b> | <b>23/24</b> | <b>24/25</b> | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>     |
| <b>Offered</b>                             | <b>186</b>                                                                                                                                                                              | <b>178</b>   | <b>160</b>   | <b>155</b>   | <b>159</b>   | <b>118</b>   | <b>44</b>                    | <b>77</b>                     | <b>1077</b>      |
| Retrieved (% offered)                      | 163 (88%)                                                                                                                                                                               | 161 (90%)    | 147 (92%)    | 145 (94%)    | 142 (89%)    | 108 (92%)    | 43 (98%)                     | 74 (96%)                      | <b>983 (91%)</b> |
| Transplanted (% retrieved)                 | 156 (96%)                                                                                                                                                                               | 149 (93%)    | 140 (95%)    | 134 (92%)    | 132 (93%)    | 104 (96%)    | 37 (86%)                     | 73 (99%)                      | <b>925 (94%)</b> |
| <b>Type of transplant (% transplanted)</b> |                                                                                                                                                                                         |              |              |              |              |              |                              |                               |                  |
| Adult whole liver only                     | 103 (66%)                                                                                                                                                                               | 94 (63%)     | 78 (56%)     | 79 (59%)     | 93 (70%)     | 56 (54%)     | 19 (51%)                     | 45 (62%)                      | <b>567 (61%)</b> |
| Adult whole intestinal                     | 1 (1%)                                                                                                                                                                                  | 0 (0%)       | 5 (4%)       | 5 (4%)       | 1 (1%)       | 1 (1%)       | 0 (0%)                       | 3 (4%)                        | <b>16 (2%)</b>   |
| Adult whole SLK                            | 2 (1%)                                                                                                                                                                                  | 1 (1%)       | 0 (0%)       | 1 (1%)       | 0 (0%)       | 0 (0%)       | 1 (3%)                       | 0 (0%)                        | <b>5 (1%)</b>    |
| Adult whole liver/cardiothoracic           | 0 (0%)                                                                                                                                                                                  | 2 (1%)       | 2 (1%)       | 1 (1%)       | 0 (0%)       | 0 (0%)       | 0 (0%)                       | 1 (1%)                        | <b>6 (1%)</b>    |
| Adult reduced liver only                   | 3 (2%)                                                                                                                                                                                  | 1 (1%)       | 2 (1%)       | 3 (2%)       | 1 (1%)       | 1 (1%)       | 0 (0%)                       | 0 (0%)                        | <b>11 (1%)</b>   |
| Paed whole liver only                      | 7 (4%)                                                                                                                                                                                  | 7 (5%)       | 11 (8%)      | 8 (6%)       | 6 (5%)       | 8 (8%)       | 1 (3%)                       | 1 (1%)                        | <b>49 (5%)</b>   |
| Paed reduced liver only                    | 9 (6%)                                                                                                                                                                                  | 13 (9%)      | 12 (9%)      | 9 (7%)       | 9 (7%)       | 11 (11%)     | 4 (11%)                      | 5 (7%)                        | <b>72 (8%)</b>   |
| Paed reduced intestinal                    | 0 (0%)                                                                                                                                                                                  | 1 (1%)       | 0 (0%)       | 0 (0%)       | 0 (0%)       | 1 (1%)       | 1 (3%)                       | 0 (0%)                        | <b>3 (0%)</b>    |
| Paed reduced SLK                           | 0 (0%)                                                                                                                                                                                  | 0 (0%)       | 1 (1%)       | 1 (1%)       | 0 (0%)       | 0 (0%)       | 0 (0%)                       | 0 (0%)                        | <b>2 (0%)</b>    |
| Split                                      | 31 (20%)                                                                                                                                                                                | 30 (20%)     | 29 (21%)     | 27 (20%)     | 22 (17%)     | 26 (25%)     | 11 (30%)                     | 18 (25%)                      | <b>194 (21%)</b> |

| <b>Table 3A</b>                            | <b>Reasons for non-retrieval of livers from UK DBD donors who met split liver criteria whose liver was offered for transplantation between 1 April 2019 and 31 March 2026, by financial year</b> |                  |                  |                  |                  |                  |                              |                               |                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------------------|-------------------------------|------------------|
|                                            | <b>19/20</b>                                                                                                                                                                                     | <b>20/21</b>     | <b>21/22</b>     | <b>22/23</b>     | <b>23/24</b>     | <b>24/25</b>     | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>     |
| Donor unsuitable - past history            | 7 (30%)                                                                                                                                                                                          | 5 (29%)          | 5 (38%)          | 5 (50%)          | 3 (18%)          | 3 (30%)          | 1 (100%)                     | 2 (67%)                       | <b>31 (33%)</b>  |
| Poor function                              | 2 (9%)                                                                                                                                                                                           | 6 (35%)          | 2 (15%)          | 1 (10%)          | 2 (12%)          | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>13 (14%)</b>  |
| Donor unsuitable - virology                | 5 (22%)                                                                                                                                                                                          | 0 (0%)           | 0 (0%)           | 2 (20%)          | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>8 (9%)</b>    |
| No suitable recipients                     | 1 (4%)                                                                                                                                                                                           | 0 (0%)           | 4 (31%)          | 0 (0%)           | 0 (0%)           | 2 (20%)          | 0 (0%)                       | 0 (0%)                        | <b>7 (7%)</b>    |
| Other, please specify                      | 1 (4%)                                                                                                                                                                                           | 4 (24%)          | 1 (8%)           | 0 (0%)           | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>7 (7%)</b>    |
| Permission refused by coroner              | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 1 (8%)           | 0 (0%)           | 1 (6%)           | 1 (10%)          | 0 (0%)                       | 0 (0%)                        | <b>3 (3%)</b>    |
| Steatosis (Fatty organ) - organ unsuitable | 3 (13%)                                                                                                                                                                                          | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>3 (3%)</b>    |
| Organ/tissue unsuitable for transplant     | 0 (0%)                                                                                                                                                                                           | 1 (6%)           | 0 (0%)           | 1 (10%)          | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>3 (3%)</b>    |
| Poor function - initial assessment         | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (6%)           | 2 (20%)          | 0 (0%)                       | 0 (0%)                        | <b>3 (3%)</b>    |
| Donor unstable                             | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 2 (12%)          | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>2 (2%)</b>    |
| Donor unsuitable - Tumour, please specify  | 1 (4%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)                       | 1 (33%)                       | <b>2 (2%)</b>    |
| Organ damaged                              | 1 (4%)                                                                                                                                                                                           | 1 (6%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>2 (2%)</b>    |
| Family permission refused                  | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Offer withdrawn                            | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Donor unsuitable - size                    | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Donor arrested                             | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 1 (10%)          | 0 (0%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Infection                                  | 1 (4%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Anatomical anomaly, please specify         | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| No beds                                    | 1 (4%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Organ damage (pre-mortem), please specify  | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (10%)          | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Other, please specify - centre reason      | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (10%)          | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| Other, please specify - organ unsuitable   | 0 (0%)                                                                                                                                                                                           | 0 (0%)           | 0 (0%)           | 0 (0%)           | 1 (6%)           | 0 (0%)           | 0 (0%)                       | 0 (0%)                        | <b>1 (1%)</b>    |
| <b>Total</b>                               | <b>23 (100%)</b>                                                                                                                                                                                 | <b>17 (100%)</b> | <b>13 (100%)</b> | <b>10 (100%)</b> | <b>17 (100%)</b> | <b>10 (100%)</b> | <b>1 (100%)</b>              | <b>3 (100%)</b>               | <b>94 (100%)</b> |

| <b>Table 3B</b>                              | <b>Reasons livers from UK DBD donors who met split liver criteria were retrieved but not transplanted between 1 April 2019 and 31 March 2026, by financial year</b> |                  |                 |                  |                  |                 |                              |                               |                  |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|------------------|------------------|-----------------|------------------------------|-------------------------------|------------------|
|                                              | <b>19/20</b>                                                                                                                                                        | <b>20/21</b>     | <b>21/22</b>    | <b>22/23</b>     | <b>23/24</b>     | <b>24/25</b>    | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>     |
| Steatosis (Fatty organ) - organ unsuitable   | 2 (29%)                                                                                                                                                             | 3 (25%)          | 3 (43%)         | 4 (36%)          | 2 (20%)          | 0 (0%)          | 3 (50%)                      | 1 (100%)                      | 18 (31%)         |
| Other, please specify                        | 3 (43%)                                                                                                                                                             | 3 (25%)          | 0 (0%)          | 3 (27%)          | 3 (30%)          | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 12 (21%)         |
| Poor function                                | 0 (0%)                                                                                                                                                              | 0 (0%)           | 1 (14%)         | 1 (9%)           | 2 (20%)          | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 4 (7%)           |
| Organ damaged                                | 0 (0%)                                                                                                                                                              | 2 (17%)          | 0 (0%)          | 1 (9%)           | 1 (10%)          | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 4 (7%)           |
| Used for research after declined by centres  | 2 (29%)                                                                                                                                                             | 1 (8%)           | 1 (14%)         | 0 (0%)           | 0 (0%)           | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 4 (7%)           |
| Anatomical anomaly, please specify           | 0 (0%)                                                                                                                                                              | 0 (0%)           | 1 (14%)         | 0 (0%)           | 2 (20%)          | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 3 (5%)           |
| Other, please specify - organ unsuitable     | 0 (0%)                                                                                                                                                              | 0 (0%)           | 0 (0%)          | 0 (0%)           | 0 (0%)           | 1 (25%)         | 2 (33%)                      | 0 (0%)                        | 3 (5%)           |
| Organ/tissue unsuitable for transplant       | 0 (0%)                                                                                                                                                              | 1 (8%)           | 0 (0%)          | 1 (9%)           | 0 (0%)           | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 2 (3%)           |
| Donor unsuitable - past history              | 0 (0%)                                                                                                                                                              | 1 (8%)           | 0 (0%)          | 0 (0%)           | 0 (0%)           | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| Donor unsuitable - size                      | 0 (0%)                                                                                                                                                              | 0 (0%)           | 1 (14%)         | 0 (0%)           | 0 (0%)           | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| Donor unsuitable - Tumour, please specify    | 0 (0%)                                                                                                                                                              | 0 (0%)           | 0 (0%)          | 1 (9%)           | 0 (0%)           | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| Recipient refused                            | 0 (0%)                                                                                                                                                              | 1 (8%)           | 0 (0%)          | 0 (0%)           | 0 (0%)           | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| Organ damage (pre-mortem), please specify    | 0 (0%)                                                                                                                                                              | 0 (0%)           | 0 (0%)          | 0 (0%)           | 0 (0%)           | 0 (0%)          | 1 (17%)                      | 0 (0%)                        | 1 (2%)           |
| Poor function following machine perfusion    | 0 (0%)                                                                                                                                                              | 0 (0%)           | 0 (0%)          | 0 (0%)           | 0 (0%)           | 1 (25%)         | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| Other, please specify - donor unsuitable     | 0 (0%)                                                                                                                                                              | 0 (0%)           | 0 (0%)          | 0 (0%)           | 0 (0%)           | 1 (25%)         | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| Other, please specify - research/disposed of | 0 (0%)                                                                                                                                                              | 0 (0%)           | 0 (0%)          | 0 (0%)           | 0 (0%)           | 1 (25%)         | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| <b>Total</b>                                 | <b>7 (100%)</b>                                                                                                                                                     | <b>12 (100%)</b> | <b>7 (100%)</b> | <b>11 (100%)</b> | <b>10 (100%)</b> | <b>4 (100%)</b> | <b>6 (100%)</b>              | <b>1 (100%)</b>               | <b>58 (100%)</b> |

## B. DCD DONORS

11. There were 129 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 31 March 2026. Twenty of the 129 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. Thirty percent (N=32) were in the Kings zone, while 27% (N=29) were in the Birmingham zone and 18% (N=19) were in the Leeds zone. Twenty eight donors were in an adult only transplant centre zone.

| <b>Table 4</b>       | <b>First transplant centre in offering sequence for paediatric<sup>1</sup> UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 31 March 2026, by donor zone and financial year</b> |                  |                  |                  |                  |                  |                              |                               |                   |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------------------|-------------------------------|-------------------|
|                      | <b>19/20</b>                                                                                                                                                                                                             | <b>20/21</b>     | <b>21/22</b>     | <b>22/23</b>     | <b>23/24</b>     | <b>24/25</b>     | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>      |
| <b>Zonal</b>         |                                                                                                                                                                                                                          |                  |                  |                  |                  |                  |                              |                               |                   |
| Leeds                | 3 (18%)                                                                                                                                                                                                                  | 2 (13%)          | 3 (15%)          | 2 (13%)          | 3 (30%)          | 1 (7%)           | 1 (17%)                      | 4 (40%)                       | 19 (18%)          |
| Kings College        | 4 (24%)                                                                                                                                                                                                                  | 4 (25%)          | 11 (55%)         | 7 (47%)          | 1 (10%)          | 2 (14%)          | 2 (33%)                      | 1 (10%)                       | 32 (30%)          |
| Birmingham           | 5 (29%)                                                                                                                                                                                                                  | 4 (25%)          | 2 (10%)          | 4 (27%)          | 4 (40%)          | 5 (36%)          | 2 (33%)                      | 3 (30%)                       | 29 (27%)          |
| Newcastle            | 2 (12%)                                                                                                                                                                                                                  | 0 (0%)           | 1 (5%)           | 0 (0%)           | 0 (0%)           | 1 (7%)           | 0 (0%)                       | 2 (20%)                       | 6 (6%)            |
| Cambridge            | 2 (12%)                                                                                                                                                                                                                  | 5 (31%)          | 2 (10%)          | 0 (0%)           | 0 (0%)           | 2 (14%)          | 1 (17%)                      | 0 (0%)                        | 12 (11%)          |
| Royal Free           | 1 (6%)                                                                                                                                                                                                                   | 1 (6%)           | 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%)            |
| <b>Overall Total</b> | <b>17 (100%)</b>                                                                                                                                                                                                         | <b>16 (100%)</b> | <b>20 (100%)</b> | <b>15 (100%)</b> | <b>10 (100%)</b> | <b>14 (100%)</b> | <b>6 (100%)</b>              | <b>10 (100%)</b>              | <b>108 (100%)</b> |

<sup>1</sup> Donors aged less than 12 months and weighing less than 10kg excluded

13. **Table 5** shows that 52% of the livers offered were retrieved while 91% of those retrieved were ultimately transplanted. 31 (61%) 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.

| <b>Table 5</b>                             | <b>Offering outcome for paediatric<sup>1</sup> UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 31 March 2026, by financial year</b> |              |              |              |              |              |                              |                               |                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|------------------------------|-------------------------------|-----------------|
|                                            | <b>19/20</b>                                                                                                                                                                  | <b>20/21</b> | <b>21/22</b> | <b>22/23</b> | <b>23/24</b> | <b>24/25</b> | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>    |
| <b>Offered</b>                             | <b>17</b>                                                                                                                                                                     | <b>16</b>    | <b>20</b>    | <b>15</b>    | <b>10</b>    | <b>14</b>    | <b>6</b>                     | <b>10</b>                     | <b>108</b>      |
| Retrieved (% offered)                      | 4 (24%)                                                                                                                                                                       | 11 (69%)     | 9 (45%)      | 11 (73%)     | 4 (40%)      | 6 (43%)      | 3 (50%)                      | 8 (80%)                       | <b>56 (52%)</b> |
| Transplanted (% retrieved)                 | 3 (75%)                                                                                                                                                                       | 10 (91%)     | 8 (89%)      | 10 (91%)     | 4 (100%)     | 6 (100%)     | 3 (100%)                     | 7 (88%)                       | <b>51 (91%)</b> |
| <b>Type of transplant (% transplanted)</b> |                                                                                                                                                                               |              |              |              |              |              |                              |                               |                 |
| Adult whole LO                             | 3 (100%)                                                                                                                                                                      | 8 (80%)      | 6 (75%)      | 4 (40%)      | 1 (25%)      | 3 (50%)      | 3 (100%)                     | 3 (43%)                       | <b>31 (61%)</b> |
| Paed whole LO                              | 0 (0%)                                                                                                                                                                        | 1 (10%)      | 2 (25%)      | 6 (60%)      | 3 (75%)      | 2 (33%)      | 0 (0%)                       | 3 (43%)                       | <b>17 (33%)</b> |
| Paed reduced LO                            | 0 (0%)                                                                                                                                                                        | 1 (10%)      | 0 (0%)       | 0 (0%)       | 0 (0%)       | 1 (17%)      | 0 (0%)                       | 1 (14%)                       | <b>3 (6%)</b>   |

<sup>1</sup> Donors aged less than 12 months and weighing less than 10kg excluded

| <b>Table 5A</b>                            | <b>Offering outcome for paediatric<sup>1</sup> UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 31 March 2026 and not in Birmingham, Kings College or Leeds zone, by financial year</b> |              |              |              |              |              |                              |                               |                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|------------------------------|-------------------------------|-----------------|
|                                            | <b>19/20</b>                                                                                                                                                                                                                     | <b>20/21</b> | <b>21/22</b> | <b>22/23</b> | <b>23/24</b> | <b>24/25</b> | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>    |
| <b>Offered</b>                             | <b>5</b>                                                                                                                                                                                                                         | <b>6</b>     | <b>4</b>     | <b>2</b>     | <b>2</b>     | <b>6</b>     | <b>1</b>                     | <b>2</b>                      | <b>28</b>       |
| Retrieved (% offered)                      | 0 (0%)                                                                                                                                                                                                                           | 3 (50%)      | 2 (50%)      | 2 (100%)     | 2 (100%)     | 3 (50%)      | 0 (0%)                       | 1 (50%)                       | <b>13 (46%)</b> |
| Transplanted (% retrieved)                 | 0 (0%)                                                                                                                                                                                                                           | 2 (67%)      | 2 (100%)     | 2 (100%)     | 2 (100%)     | 3 (100%)     | 0 (0%)                       | 1 (100%)                      | <b>12 (92%)</b> |
| <b>Type of transplant (% transplanted)</b> |                                                                                                                                                                                                                                  |              |              |              |              |              |                              |                               |                 |
| Adult whole LO                             | 0 (0%)                                                                                                                                                                                                                           | 2 (100%)     | 1 (50%)      | 2 (100%)     | 1 (50%)      | 2 (67%)      | 0 (0%)                       | 1 (100%)                      | <b>9 (75%)</b>  |
| Paed whole LO                              | 0 (0%)                                                                                                                                                                                                                           | 0 (0%)       | 1 (50%)      | 0 (0%)       | 1 (50%)      | 0 (0%)       | 0 (0%)                       | 0 (0%)                        | <b>2 (17%)</b>  |
| Paed reduced LO                            | 0 (0%)                                                                                                                                                                                                                           | 0 (0%)       | 0 (0%)       | 0 (0%)       | 0 (0%)       | 1 (33%)      | 0 (0%)                       | 0 (0%)                        | <b>1 (8%)</b>   |

<sup>1</sup> Donors aged less than 12 months and weighing less than 10kg excluded

| <b>Table 6A</b>                       | <b>Reasons for non-retrieval of livers from paediatric UK DCD donors whose liver was <u>offered</u> for transplantation between 1 April 2019 and 31 March 2026, by financial year</b> |                 |                  |                 |                 |                 |                              |                               |                  |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------------------|-------------------------------|------------------|
|                                       | <b>19/20</b>                                                                                                                                                                          | <b>20/21</b>    | <b>21/22</b>     | <b>22/23</b>    | <b>23/24</b>    | <b>24/25</b>    | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>     |
| No suitable recipients                | 5 (38%)                                                                                                                                                                               | 2 (40%)         | 5 (45%)          | 1 (25%)         | 2 (33%)         | 1 (13%)         | 1 (33%)                      | 1 (50%)                       | 18 (35%)         |
| Donor unsuitable - past history       | 5 (38%)                                                                                                                                                                               | 0 (0%)          | 3 (27%)          | 2 (50%)         | 1 (17%)         | 3 (38%)         | 1 (33%)                      | 0 (0%)                        | 15 (29%)         |
| Donor unsuitable - age                | 2 (15%)                                                                                                                                                                               | 0 (0%)          | 1 (9%)           | 0 (0%)          | 1 (17%)         | 1 (13%)         | 0 (0%)                       | 0 (0%)                        | 5 (10%)          |
| Donor unsuitable - size               | 0 (0%)                                                                                                                                                                                | 1 (20%)         | 0 (0%)           | 1 (25%)         | 1 (17%)         | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 3 (6%)           |
| 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%)           |
| Family permission refused             | 0 (0%)                                                                                                                                                                                | 1 (20%)         | 0 (0%)           | 0 (0%)          | 0 (0%)          | 0 (0%)          | 0 (0%)                       | 0 (0%)                        | 1 (2%)           |
| Poor function                         | 0 (0%)                                                                                                                                                                                | 1 (20%)         | 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%)           |
| Poor function - initial assessment    | 0 (0%)                                                                                                                                                                                | 0 (0%)          | 0 (0%)           | 0 (0%)          | 0 (0%)          | 0 (0%)          | 0 (0%)                       | 1 (50%)                       | 1 (2%)           |
| <b>Total</b>                          | <b>13 (100%)</b>                                                                                                                                                                      | <b>5 (100%)</b> | <b>11 (100%)</b> | <b>4 (100%)</b> | <b>6 (100%)</b> | <b>8 (100%)</b> | <b>3 (100%)</b>              | <b>2 (100%)</b>               | <b>52 (100%)</b> |

| <b>Table 6B</b>                              | <b>Reasons for not transplanting livers retrieved from paediatric UK DCD donors between 1 April 2019 and 31 March 2026, by financial year</b> |                 |                 |                 |               |               |                              |                               |                 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|---------------|---------------|------------------------------|-------------------------------|-----------------|
|                                              | <b>19/20</b>                                                                                                                                  | <b>20/21</b>    | <b>21/22</b>    | <b>22/23</b>    | <b>23/24</b>  | <b>24/25</b>  | <b>1 Apr –<br/>18 Aug 25</b> | <b>19 Aug –<br/>31 Mar 26</b> | <b>Total</b>    |
| Taken for hepatocytes                        | 1 (100%)                                                                                                                                      | 1 (100%)        | 0 (0%)          | 1 (100%)        | 0 (0%)        | 0 (0%)        | 0 (0%)                       | 0 (0%)                        | 3 (60%)         |
| Organ damaged                                | 0 (0%)                                                                                                                                        | 0 (0%)          | 1 (100%)        | 0 (0%)          | 0 (0%)        | 0 (0%)        | 0 (0%)                       | 0 (0%)                        | 1 (20%)         |
| Other, please specify - research/disposed of | 0 (0%)                                                                                                                                        | 0 (0%)          | 0 (0%)          | 0 (0%)          | 0 (0%)        | 0 (0%)        | 0 (0%)                       | 1 (100%)                      | 1 (20%)         |
| <b>Total</b>                                 | <b>1 (100%)</b>                                                                                                                               | <b>1 (100%)</b> | <b>1 (100%)</b> | <b>1 (100%)</b> | <b>0 (0%)</b> | <b>0 (0%)</b> | <b>0 (0%)</b>                | <b>1 (100%)</b>               | <b>5 (100%)</b> |

## REGISTRATIONS

15. There were 582 paediatric elective registrations at the three UK adult and paediatric transplant centres between 1 April 2019 and 31 March 2026. There were three additional paediatric registrations at Newcastle during the time period. **Table 7** shows the registration financial year and registration outcome as at 30 April 2026 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)) but not when combining deceased and living donor transplant (Fishers exact  $p$ =0.12).

16. Forty one patients were from Republic of Ireland and 38 of the 41 were registered at Kings College and 3 were registered at Birmingham.

**Table 7** Number of UK NHS Group 1 paediatric elective liver registrations, 1 April 2019 to 31 March 2026

|                                                            | Transplant centre  |                             |                         |                     |                |
|------------------------------------------------------------|--------------------|-----------------------------|-------------------------|---------------------|----------------|
| N (% at each centre (row %))                               | Leeds<br>143 (25%) | King's College<br>265 (46%) | Birmingham<br>174 (30%) | Total<br>582 (100%) | Newcastle<br>3 |
| <b>Registration year (% for each centre (column %))</b>    |                    |                             |                         |                     |                |
| 2019/2020                                                  | 20 (14%)           | 37 (14%)                    | 28 (16%)                | 85 (15%)            | 0 (0%)         |
| 2020/2021                                                  | 27 (19%)           | 33 (12%)                    | 24 (14%)                | 84 (14%)            | 0 (0%)         |
| 2021/2022                                                  | 23 (16%)           | 26 (10%)                    | 24 (14%)                | 73 (13%)            | 2 (67%)        |
| 2022/2023                                                  | 15 (10%)           | 47 (18%)                    | 27 (16%)                | 89 (15%)            | 0 (0%)         |
| 2023/2024                                                  | 25 (17%)           | 34 (13%)                    | 30 (17%)                | 89 (15%)            | 0 (0%)         |
| 2024/2025                                                  | 15 (10%)           | 49 (18%)                    | 26 (15%)                | 90 (15%)            | 0 (0%)         |
| 2025/2026                                                  | 18 (13%)           | 39 (15%)                    | 15 (9%)                 | 72 (12%)            | 1 (33%)        |
| <b>Registration outcome (% for each centre (column %))</b> |                    |                             |                         |                     |                |
| Deceased donor liver transplant                            | 82 (57%)           | 172 (65%)                   | 137 (79%)               | 391 (67%)           | 1 (33%)        |
| Living donor liver transplant                              | 41 (29%)           | 41 (15%)                    | 3 (2%)                  | 85 (15%)            | 0 (0%)         |
| Died on the list                                           | 5 (3%)             | 5 (2%)                      | 2 (1%)                  | 12 (2%)             | 1 (33%)        |
| Removed (any reason)                                       | 5 (3%)             | 9 (3%)                      | 12 (7%)                 | 26 (4%)             | 1 (33%)        |
| Currently active/ suspended as at 30 April 2026            | 10 (7%)            | 38 (14%)                    | 20 (11%)                | 68 (12%)            | 0 (0%)         |

17. **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 31 March 2026**

|                                                          | Transplant centre  |                             |                         |                     |                |
|----------------------------------------------------------|--------------------|-----------------------------|-------------------------|---------------------|----------------|
| N (% at each centre (row %))                             | Leeds<br>143 (25%) | King's College<br>265 (46%) | Birmingham<br>174 (30%) | Total<br>582 (100%) | Newcastle<br>3 |
| <b>Primary indication (% for each centre (column %))</b> |                    |                             |                         |                     |                |
| Biliary atresia                                          | 36 (25%)           | 87 (33%)                    | 48 (28%)                | 171 (29%)           | 0 (0%)         |
| Hepatoblastoma                                           | 29 (20%)           | 48 (18%)                    | 40 (23%)                | 117 (20%)           | 0 (0%)         |
| Other                                                    | 7 (5%)             | 30 (11%)                    | 16 (9%)                 | 53 (9%)             | 2 (67%)        |
| Other metabolic liver disease                            | 7 (5%)             | 21 (8%)                     | 9 (5%)                  | 37 (6%)             | 0 (0%)         |
| Progressive familial intrahepatic cholestasis            | 10 (7%)            | 14 (5%)                     | 8 (5%)                  | 32 (5%)             | 0 (0%)         |
| Urea cycle disorder                                      | 1 (1%)             | 14 (5%)                     | 4 (2%)                  | 19 (3%)             | 0 (0%)         |
| Autoimmune chronic active liver disease                  | 7 (5%)             | 4 (2%)                      | 5 (3%)                  | 16 (3%)             | 1 (33%)        |
| Alpha-1-antitrypsin deficiency                           | 7 (5%)             | 3 (1%)                      | 5 (3%)                  | 15 (3%)             | 0 (0%)         |
| Primary sclerosing cholangitis                           | 6 (4%)             | 1 (0%)                      | 7 (4%)                  | 14 (2%)             | 0 (0%)         |
| Alagilles syndrome                                       | 3 (2%)             | 4 (2%)                      | 6 (3%)                  | 13 (2%)             | 0 (0%)         |
| Biliary complications                                    | 8 (6%)             | 3 (1%)                      | 1 (1%)                  | 12 (2%)             | 0 (0%)         |
| Paediatric cholestatic liver disease                     | 6 (4%)             | 5 (2%)                      | 1 (1%)                  | 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%)         |
| Cystic fibrosis                                          | 0 (0%)             | 5 (2%)                      | 1 (1%)                  | 6 (1%)              | 0 (0%)         |
| Chronic rejection                                        | 4 (3%)             | 1 (0%)                      | 0 (0%)                  | 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%)         |
| Wilsens 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%)         |
| Benign liver tumour                                      | 1 (1%)             | 0 (0%)                      | 0 (0%)                  | 1 (0%)              | 0 (0%)         |
| Congenital biliary disease                               | 1 (1%)             | 0 (0%)                      | 0 (0%)                  | 1 (0%)              | 0 (0%)         |
| Early graft dysfunction                                  | 0 (0%)             | 1 (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%)         |
| Porphyria                                                | 0 (0%)             | 1 (0%)                      | 0 (0%)                  | 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%)         |

18. **Table 8** shows the demographics for patients who either died on the list or were removed due to any reason. An additional six patients registered prior to 1 April 2019 were removed from the list during the period.

**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 31 March 2026 as at 30 April 2026**

|                                                     | Transplant centre          |                            |                           |                             |                    |
|-----------------------------------------------------|----------------------------|----------------------------|---------------------------|-----------------------------|--------------------|
| N (% at each centre)                                | Leeds<br>10 (26%)          | King's College<br>14 (37%) | Birmingham<br>14 (37%)    | Total<br>38 (100%)          | Newc.<br>2         |
| <b>Registration year (% for each centre)</b>        |                            |                            |                           |                             |                    |
| 2019/2020                                           | 1 (10%)                    | 5 (36%)                    | 6 (43%)                   | 12 (32%)                    | 0 (0%)             |
| 2020/2021                                           | 5 (50%)                    | 1 (7%)                     | 0 (0%)                    | 6 (16%)                     | 0 (0%)             |
| 2021/2022                                           | 2 (20%)                    | 2 (14%)                    | 3 (21%)                   | 7 (18%)                     | 2 (100%)           |
| 2022/2023                                           | 2 (20%)                    | 2 (14%)                    | 1 (7%)                    | 5 (13%)                     | 0 (0%)             |
| 2023/2024                                           | 0 (0%)                     | 2 (14%)                    | 2 (14%)                   | 4 (11%)                     | 0 (0%)             |
| 2024/2025                                           | 0 (0%)                     | 0 (0%)                     | 2 (14%)                   | 2 (5%)                      | 0 (0%)             |
| 2025/2026                                           | 0 (0%)                     | 2 (14%)                    | 0 (0%)                    | 2 (5%)                      | 0 (0%)             |
| <b>Registration outcome</b>                         |                            |                            |                           |                             |                    |
| Died on list                                        | 5 (50%)                    | 5 (36%)                    | 2 (14%)                   | 12 (32%)                    | 1 (50%)            |
| Registered on super-urgent list                     | 1 (10%)                    | 0 (0%)                     | 0 (0%)                    | 1 (3%)                      | 0 (0%)             |
| Removed (reason not reported)                       | 0 (0%)                     | 1 (7%)                     | 1 (7%)                    | 2 (5%)                      | 0 (0%)             |
| Removed due to condition deterioration              | 0 (0%)                     | 1 (7%)                     | 4 (29%)                   | 5 (13%)                     | 0 (0%)             |
| Removed due to condition improved                   | 4 (40%)                    | 2 (14%)                    | 4 (29%)                   | 10 (26%)                    | 1 (50%)            |
| Removed due to other reason                         | 0 (0%)                     | 3 (21%)                    | 3 (21%)                   | 6 (16%)                     | 0 (0%)             |
| Removed due to patient/parent request               | 0 (0%)                     | 2 (14%)                    | 0 (0%)                    | 2 (5%)                      | 0 (0%)             |
| <b>Primary indication</b>                           |                            |                            |                           |                             |                    |
| Autoimmune chronic active liver disease             | 1 (10%)                    | 0 (0%)                     | 1 (7%)                    | 2 (5%)                      | 0 (0%)             |
| Biliary atresia                                     | 6 (60%)                    | 6 (43%)                    | 4 (29%)                   | 16 (42%)                    | 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%)             |
| Cystic fibrosis                                     | 0 (0%)                     | 1 (7%)                     | 1 (7%)                    | 2 (5%)                      | 0 (0%)             |
| Hepatic artery thrombosis                           | 0 (0%)                     | 1 (7%)                     | 0 (0%)                    | 1 (3%)                      | 0 (0%)             |
| Hepatoblastoma                                      | 0 (0%)                     | 3 (21%)                    | 2 (14%)                   | 5 (13%)                     | 0 (0%)             |
| Maple syrup urine disease                           | 0 (0%)                     | 1 (7%)                     | 0 (0%)                    | 1 (3%)                      | 0 (0%)             |
| Other                                               | 0 (0%)                     | 1 (7%)                     | 3 (21%)                   | 4 (11%)                     | 2 (100%)           |
| Primary sclerosing cholangitis                      | 1 (10%)                    | 0 (0%)                     | 0 (0%)                    | 1 (3%)                      | 0 (0%)             |
| Progressive familial intrahepatic cholestasis       | 0 (0%)                     | 1 (7%)                     | 1 (7%)                    | 2 (5%)                      | 0 (0%)             |
| Wilson's disease                                    | 0 (0%)                     | 0 (0%)                     | 1 (7%)                    | 1 (3%)                      | 0 (0%)             |
| <b>Age at registration (Median (IQR; range))</b>    | 0 (0, 15; 0, 16)           | 0.5 (0, 3; 0, 14)          | 3 (0, 12; 0, 16)          | 1.5 (0, 9; 0, 16)           | 15                 |
| <b>Weight at registration (Median (IQR; range))</b> | 7.35 (6.1, 64.6; 4.5, 102) | 7.65 (5.6, 13.8; 5, 37.5)  | 13 (7.1, 40.5; 4.2, 60.9) | 10.75 (6.1, 36.6; 4.2, 102) | 55.95 (44.4, 67.5) |
| <b>Total time on the list (Median (IQR; range))</b> | 83 (19, 109; 1, 1478)      | 177 (71, 329; 11, 890)     | 122 (55, 222; 2, 351)     | 106 (55, 242; 1, 1478)      | 666 (8, 1324)      |
| <b>Days active on list (Median (IQR; range))</b>    | 59.5 (13, 90; 1, 1257)     | 159 (48, 242; 11, 890)     | 55.5 (32, 175; 2, 276)    | 68 (31, 222; 1, 1257)       | 666 (8, 1324)      |
| <b>Days suspended (Median (IQR; range))</b>         | 33.5 (17, 96; 1, 221)      | 42 (36, 165; 5, 272)       | 56.5 (49, 91; 11, 147)    | 52 (31, 94; 1, 272)         | -                  |

**PATIENTS CURRENTLY ACTIVE OR SUSPENDED**

19. There were 80 patients aged less than 17 years at registration either active or suspended on 30 April 2026 at the three UK paediatric transplant centres. **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. 23 (29%) of the 80 patients are dual-listed as large paediatric patients.

**Table 9 Demographics of paediatric patients currently active or suspended as at 30 April 2026**

|                                                       | Transplant centre       |                            |                            |                             |
|-------------------------------------------------------|-------------------------|----------------------------|----------------------------|-----------------------------|
| N (% at each centre)                                  | Leeds<br>10 (13%)       | King's College<br>45 (56%) | Birmingham<br>25 (31%)     | Total<br>80 (100%)          |
| <b>Status as at 30 April 2026 (% for each centre)</b> |                         |                            |                            |                             |
| Active                                                | 9 (90%)                 | 39 (87%)                   | 18 (72%)                   | 66 (83%)                    |
| Suspended                                             | 1 (10%)                 | 6 (13%)                    | 7 (28%)                    | 14 (18%)                    |
| <b>Primary indication</b>                             |                         |                            |                            |                             |
| Alagilles syndrome                                    | 0 (0%)                  | 0 (0%)                     | 2 (8%)                     | 2 (3%)                      |
| Alpha-1-antitrypsin deficiency                        | 0 (0%)                  | 1 (2%)                     | 1 (4%)                     | 2 (3%)                      |
| Autoimmune chronic active liver disease               | 1 (10%)                 | 1 (2%)                     | 1 (4%)                     | 3 (4%)                      |
| Benign liver tumour                                   | 1 (10%)                 | 0 (0%)                     | 0 (0%)                     | 1 (1%)                      |
| Biliary atresia                                       | 2 (20%)                 | 13 (29%)                   | 4 (16%)                    | 19 (24%)                    |
| Biliary complications                                 | 1 (10%)                 | 1 (2%)                     | 1 (4%)                     | 3 (4%)                      |
| Chronic rejection                                     | 1 (10%)                 | 0 (0%)                     | 0 (0%)                     | 1 (1%)                      |
| Congenital hepatic fibrosis                           | 0 (0%)                  | 0 (0%)                     | 1 (4%)                     | 1 (1%)                      |
| Crigler-Najjar syndrome                               | 0 (0%)                  | 2 (4%)                     | 0 (0%)                     | 2 (3%)                      |
| Cystic fibrosis                                       | 0 (0%)                  | 2 (4%)                     | 0 (0%)                     | 2 (3%)                      |
| Glycogen storage disease                              | 0 (0%)                  | 2 (4%)                     | 0 (0%)                     | 2 (3%)                      |
| Maple syrup urine disease                             | 1 (10%)                 | 2 (4%)                     | 1 (4%)                     | 4 (5%)                      |
| Other                                                 | 1 (10%)                 | 4 (9%)                     | 5 (20%)                    | 10 (13%)                    |
| Other metabolic liver disease                         | 1 (10%)                 | 7 (16%)                    | 5 (20%)                    | 13 (16%)                    |
| Primary sclerosing cholangitis                        | 1 (10%)                 | 1 (2%)                     | 0 (0%)                     | 2 (3%)                      |
| Progressive familial intrahepatic cholestasis         | 0 (0%)                  | 2 (4%)                     | 1 (4%)                     | 3 (4%)                      |
| Tyrosinaemia                                          | 0 (0%)                  | 0 (0%)                     | 1 (4%)                     | 1 (1%)                      |
| Urea cycle disorder                                   | 0 (0%)                  | 7 (16%)                    | 2 (8%)                     | 9 (11%)                     |
| <b>Graft number</b>                                   |                         |                            |                            |                             |
| First graft                                           | 8 (80%)                 | 41 (91%)                   | 23 (92%)                   | 72 (90%)                    |
| Second                                                | 2 (20%)                 | 3 (7%)                     | 2 (8%)                     | 7 (9%)                      |
| Third                                                 | 0 (0%)                  | 1 (2%)                     | 0 (0%)                     | 1 (1%)                      |
| <b>Organs required</b>                                |                         |                            |                            |                             |
| Liver only                                            | 10 (100%)               | 42 (93%)                   | 20 (80%)                   | 72 (90%)                    |
| SLK                                                   | 0 (0%)                  | 3 (7%)                     | 5 (20%)                    | 8 (10%)                     |
| <b>Age (Median (IQR; range))</b>                      |                         |                            |                            |                             |
| Age at registration                                   | 3.5 (1, 12; 0, 15)      | 6 (2, 12; 0, 16)           | 4 (1, 9; 0, 16)            | 5 (1, 12; 0, 16)            |
| Current age                                           | 5.5 (2, 13; 0, 16)      | 8 (3, 12; 0, 29)           | 5 (3, 10; 0, 18)           | 6 (3, 12.5; 0, 29)          |
| <b>Weight at registration (median (IQR; range))</b>   |                         |                            |                            |                             |
|                                                       | 14.5 (10.8, 58; 5, 72)  | 18.4 (11.6, 41.7; 5.3, 62) | 15.7 (11.6, 27.2; 6.6, 92) | 16.35 (11.55, 42.1; 5, 92)  |
| <b>Total time on the list (median (IQR; range))</b>   |                         |                            |                            |                             |
|                                                       | 319 (62, 548; 57, 1315) | 432 (159, 588; 8, 4765)    | 439 (120, 789; 12, 1370)   | 405.5 (134, 655.5; 8, 4765) |

|                                               |                          |                         |                         |                             |
|-----------------------------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|
| <b>Days active on list (Med (IQR; range))</b> | 319 (62, 548; 57, 987)   | 387 (135, 568; 8, 4704) | 357 (120, 735; 0, 1302) | 367.5 (128, 633.5; 0, 4704) |
| <b>Days suspended (Med (IQR; range))</b>      | 181.5 (35, 328; 35, 328) | 61 (14, 210; 7, 658)    | 37 (18, 135; 5, 270)    | 38.5 (17, 191; 5, 658)      |

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