

**NHS BLOOD AND TRANSPLANT  
RETRIEVAL ADVISORY GROUP**

**REPORTED ORGAN DAMAGE RATES, 22 JULY 2021 – 31 October 2022  
SUMMARY**

**BACKGROUND**

- 1 A fixed term working group was set up in 2019 to review and improve data collection for damage and improve reporting. As part of this, more robust definitions for organ damage grades were produced for data collected on the Retrieval Team Information (RTI) form and the HTA-B form to provide more objective damage recording, and these new grades went live on 22 July 2021 to both retrieval teams and recipient centres. This report presents results on the first twelve months of use of the new grades and compares team rates of non-damage across donor type and organs.

**RESULTS**

- 2 For DBD donors, rates of damage-free retrieval across organs were high, ranging from 87% for pancreas and lung to 98% for heart. Rates of damage-free retrieval for DCD donors were slightly lower, ranging from 84% for lung to 97% for heart. Across DBD and DCD donors, most damage reported was mild effect.
- 3 For DBD organs, the damage-free rate, when compared to national rates:
  - Kidneys – Cardiff had a significantly higher damage-free rate compared to national, with all other teams being in line with national rate.
  - Livers – Edinburgh and Leeds had a significantly higher damage-free rate compared to national. Manchester had significantly lower damage-free rates compared to the national rate, with all other teams being in line with national rate.
  - Pancreases – Cardiff had a significantly higher damage-free rate compared to the national rate, with all other teams being in line with the national rate.
  - Hearts – Birmingham, Glasgow, Manchester, and Papworth had significantly higher damage-free rates compared to the national rate, with all other teams being in line with the national rate.
  - Lungs – all teams were in line with the national rate of no damage.
- 4 For DCD organs, the damage-free rate, when compared to national rates:
  - Kidneys – Cambridge had a significantly higher damage-free rate compared to national, with all other teams being in line with national rate.
  - Livers – Edinburgh and Cambridge had a significantly higher damage-free rate compared to national, with all other teams being in line with national rate.
  - Pancreases - Cardiff, Edinburgh, Newcastle, and Oxford had significantly higher damage-free rates compared to the national rate. Manchester had significantly lower damage-free rates compared to the national rate with all other teams being in line with the national rate.

## NHS BLOOD AND TRANSPLANT RETRIEVAL ADVISORY GROUP

### REPORTED ORGAN DAMAGE RATES, 22 JULY 2021 – 31 October 2022

#### BACKGROUND

- 1 A fixed term working group was set up in 2019 to review and improve data collection for damage and improve reporting. As part of this, more robust definitions for organ damage grades were produced for data collected on the Retrieval Team Information (RTI) form and the HTA-B form to provide more objective damage recording. The new grades are shown below. The new grading system was released on 22 July 2021 to both retrieval teams and recipient centres, with work to follow on development of CUSUM monitoring for organ damage.

##### **RTI form**

10. *No Effect/No Damage. Surgical damage is absent or has no clinical effect.*
11. *Mild Effect. Damage is present but organ can be repaired for transplant.*
12. *Moderate Effect. Damage may contribute, with other significant factors, to a decision not to use the organ.*
13. *Severe Effect. Damage is severe and would be sufficient in isolation to result in decline for transplantation. The organ could have been used if no damage was present.*

##### **HTA-B form**

10. *No Effect/No Damage. Surgical damage was absent or had no clinical effect.*
11. *Mild Effect. Damage was present but organ was repaired for transplant.*
12. *Moderate Effect. Damage contributed, along with other serious concerns, to the decision not to use the organ.*
13. *Severe Effect. Damage was the primary factor in the decision to decline for transplantation. The organ would have been used if no damage was present.*
14. *Not performed (organ not inspected for damage).*

- 2 This report presents results of analyses of data reported on the damage of organs retrieved by National Organ Retrieval Service retrieval teams in the first twelve months of the new grading system, from 22 July 2021 to 31 October 2022. Data were extracted from the UK Transplant Registry on 7 December 2022. Data are presented separately for donors after brain death (DBD) and donors after circulatory death (DCD).

#### COHORT

- 3 Organs retrieved for the purpose of transplantation by a NORS team from UK deceased donors between 22 July 2021 and 31 October 2022 were considered, with small bowel retrievals excluded. The damage information primarily used is as reported by the recipient centre on the HTA-B form, using the definitions above. Where damage is completed on the HTA-B form for a lung pair/en-bloc kidney/heart-lung block this damage is counted as a single organ as only one recipient would receive these organs. This applies to 8 en-bloc kidneys, 126 lung pairs, and 2 heart-lung blocks in the period, which are counted as one kidney or lung respectively throughout the report. Any organs transplanted overseas are excluded (1 heart donor, 7 lung donors, and 7 liver donors).

Unless stated otherwise, organs with HTA-B damage reported as Not Performed or has not been reported, have been excluded from analysis.

- 4 At time of data extraction, there were a number of organs with HTA-B damage information, and is shown in **Table 1** by organ.

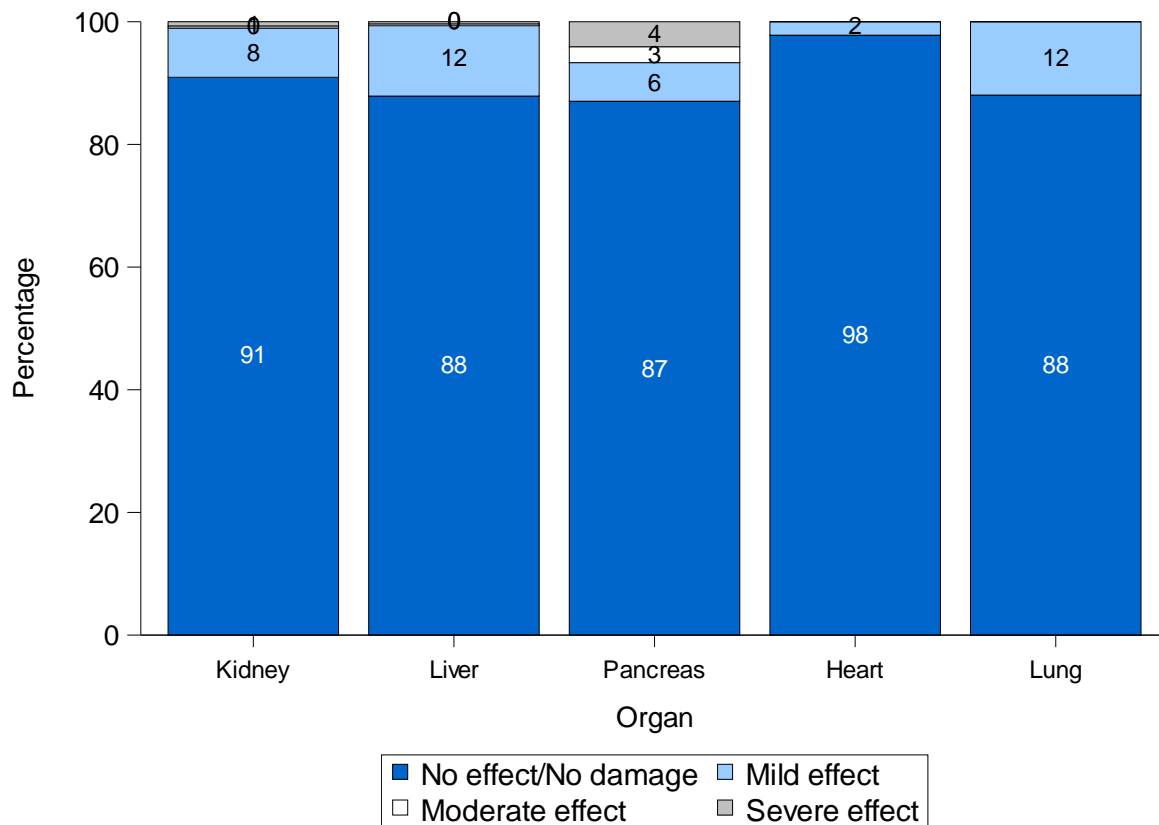
Organ	Damage information expected and not reported	
	N	%
Kidney	64	2
Liver	33	2
Pancreas	13	3
Heart	3	1
Lung	3	2

**RESULTS**

**Reported grades of damage**

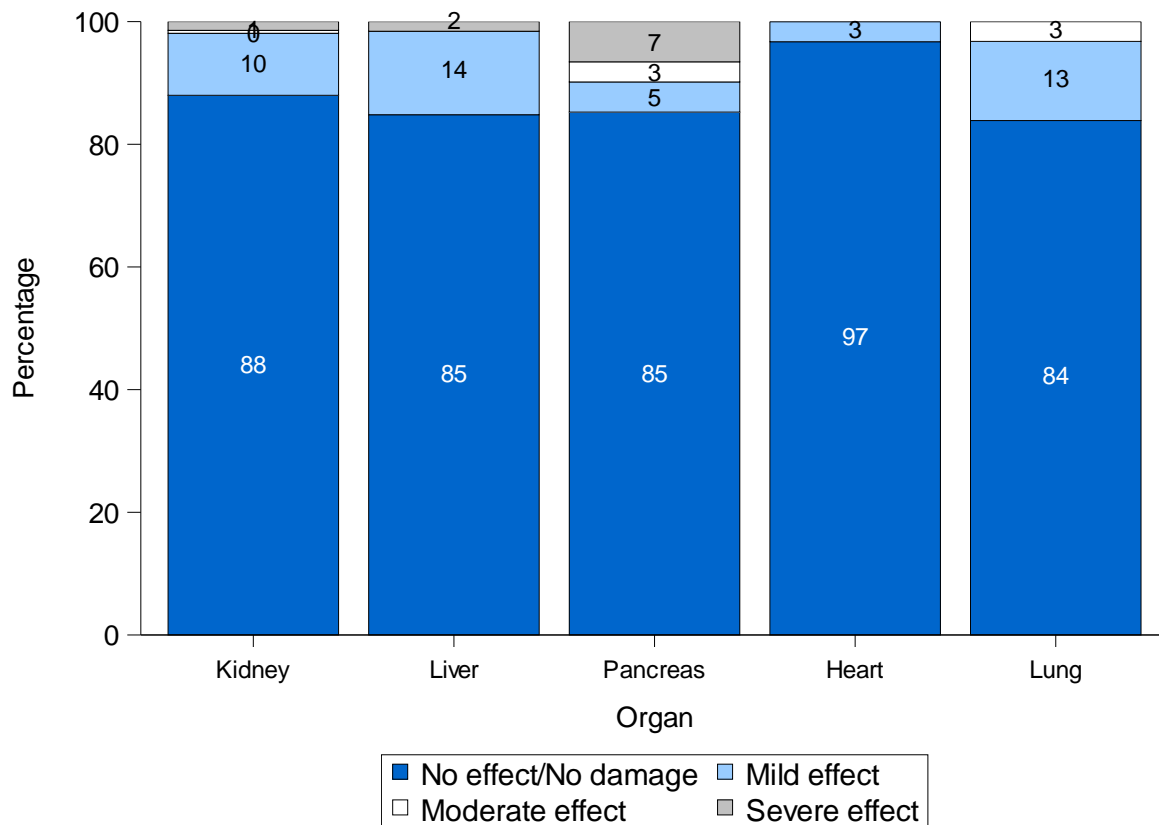
- 5 **Figure 1** shows the distribution of reported grades of damage for DBD organs retrieved in the time period. 91% of kidneys, 88% of livers, 87% of pancreases, 98% of hearts, and 88% of lungs retrieved had no effect/no damage reported by the recipient centre. Across all organs, most damage reported was mild effect.

**Figure 1 Reported DBD organ damage rates, 22 July 2021 – 31 October 2022**



6 **Figure 2** shows the distribution of reported grades of damage for DCD organs retrieved in the time period. 88% of kidneys, 85% of livers, 85% of pancreases, 97% of hearts, and 84% of lungs retrieved had no effect/no damage reported by the recipient centre. For most organs, the damage reported was mild effect. 7% of DCD pancreases had severe effect damage reported.

**Figure 2 Reported DCD organ damage rates, 22 July 2021 – 31 October 2022**



7 **Tables 2** and **3** provide a breakdown of reported organ damage grades for abdominal organs by retrieval team and organ type for DBD and DCD donors respectively. The rates presented are out of the number of organs retrieved, of that type, and includes those where the organ was not inspected for damage (“Not performed”) and where damage has not been reported. **Tables 4** and **5** show similar information for cardiothoracic organs.

Table 2 DBD organs retrieved and damage grade reported for abdominal teams, by donor type, 22 July 2021 - 31 October 2022								
Team	No. retrieved	No effect/ no damage	Damage grade (% of retrieved)				Not performed	Not reported
			Mild effect	Moderate effect	Severe effect			
<b>Kidney</b>								
Birmingham	214	175 (82%)	22 (10%)	0 (0%)	3 (1%)	7 (3%)	7 (3%)	
Cambridge	189	163 (86%)	19 (10%)	2 (1%)	0 (0%)	2 (1%)	3 (2%)	
Cardiff	90	84 (93%)	3 (3%)	0 (0%)	1 (1%)	1 (1%)	1 (1%)	
Edinburgh	122	108 (89%)	10 (8%)	0 (0%)	0 (0%)	2 (2%)	2 (2%)	
King's College	316	279 (88%)	22 (7%)	1 (0%)	2 (1%)	2 (1%)	10 (3%)	
Leeds	197	168 (85%)	21 (11%)	0 (0%)	1 (1%)	7 (4%)	0 (0%)	
Manchester	180	162 (90%)	8 (4%)	0 (0%)	2 (1%)	3 (2%)	5 (3%)	
Newcastle	180	160 (89%)	13 (7%)	0 (0%)	0 (0%)	4 (2%)	3 (2%)	
Oxford	157	133 (85%)	12 (8%)	3 (2%)	3 (2%)	3 (2%)	3 (2%)	
Royal Free	184	164 (89%)	11 (6%)	0 (0%)	0 (0%)	6 (3%)	3 (2%)	
<b>Total</b>	<b>1829</b>	<b>1596 (87%)</b>	<b>141 (8%)</b>	<b>6 (0%)</b>	<b>12 (1%)</b>	<b>37 (2%)</b>	<b>37 (2%)</b>	
<b>Liver</b>								
Birmingham	104	92 (88%)	9 (9%)	0 (0%)	0 (0%)	1 (1%)	2 (2%)	
Cambridge	91	80 (88%)	10 (11%)	0 (0%)	0 (0%)	0 (0%)	1 (1%)	
Cardiff	45	37 (82%)	6 (13%)	0 (0%)	1 (2%)	0 (0%)	1 (2%)	
Edinburgh	59	52 (88%)	3 (5%)	0 (0%)	0 (0%)	0 (0%)	4 (7%)	
King's College	157	135 (86%)	18 (11%)	1 (1%)	0 (0%)	1 (1%)	2 (1%)	
Leeds	93	84 (90%)	5 (5%)	0 (0%)	1 (1%)	1 (1%)	2 (2%)	
Manchester	84	62 (74%)	16 (19%)	0 (0%)	1 (1%)	4 (5%)	1 (1%)	
Newcastle	88	71 (81%)	9 (10%)	0 (0%)	0 (0%)	6 (7%)	2 (2%)	
Oxford	77	64 (83%)	11 (14%)	0 (0%)	0 (0%)	0 (0%)	2 (3%)	
Royal Free	98	77 (79%)	13 (13%)	0 (0%)	0 (0%)	4 (4%)	4 (4%)	
<b>Total</b>	<b>896</b>	<b>754 (84%)</b>	<b>100 (11%)</b>	<b>1 (0%)</b>	<b>3 (0%)</b>	<b>17 (2%)</b>	<b>21 (2%)</b>	
<b>Pancreas</b>								
Birmingham	37	29 (78%)	2 (5%)	0 (0%)	3 (8%)	2 (5%)	1 (3%)	
Cambridge	43	38 (88%)	2 (5%)	0 (0%)	1 (2%)	1 (2%)	1 (2%)	
Cardiff	10	9 (90%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (10%)	
Edinburgh	13	11 (85%)	0 (0%)	0 (0%)	1 (8%)	0 (0%)	1 (8%)	
King's College	45	35 (78%)	2 (4%)	3 (7%)	2 (4%)	2 (4%)	1 (2%)	
Leeds	33	27 (82%)	2 (6%)	0 (0%)	1 (3%)	2 (6%)	1 (3%)	
Manchester	32	23 (72%)	4 (13%)	1 (3%)	1 (3%)	3 (9%)	0 (0%)	
Newcastle	27	20 (74%)	1 (4%)	0 (0%)	2 (7%)	2 (7%)	2 (7%)	
Oxford	25	21 (84%)	2 (8%)	0 (0%)	0 (0%)	1 (4%)	1 (4%)	
Royal Free	30	22 (73%)	2 (7%)	3 (10%)	0 (0%)	3 (10%)	0 (0%)	
<b>Total</b>	<b>295</b>	<b>235 (80%)</b>	<b>17 (6%)</b>	<b>7 (2%)</b>	<b>11 (4%)</b>	<b>16 (5%)</b>	<b>9 (3%)</b>	

**Table 3 DCD organs retrieved and damage grade reported for abdominal teams, by donor type, 22 July 2021 - 31 October 2022**

Team	No. retrieved	No effect/ no damage	Damage grade (% of retrieved)				Not performed	Not reported
			Mild effect	Moderate effect	Severe effect			
<b>Kidney</b>								
Birmingham	154	134 (87%)	15 (10%)	0 (0%)	3 (2%)	1 (1%)	1 (1%)	
Cambridge	274	240 (88%)	19 (7%)	1 (0%)	2 (1%)	7 (3%)	5 (2%)	
Cardiff	63	50 (79%)	9 (14%)	0 (0%)	2 (3%)	2 (3%)	0 (0%)	
Edinburgh	118	97 (82%)	14 (12%)	0 (0%)	1 (1%)	3 (3%)	3 (3%)	
King's College	221	193 (87%)	19 (9%)	2 (1%)	2 (1%)	4 (2%)	1 (0%)	
Leeds	138	120 (87%)	9 (7%)	0 (0%)	4 (3%)	2 (1%)	3 (2%)	
Manchester	150	118 (79%)	18 (12%)	3 (2%)	3 (2%)	2 (1%)	6 (4%)	
Newcastle	111	93 (84%)	10 (9%)	0 (0%)	2 (2%)	3 (3%)	3 (3%)	
Oxford	155	125 (81%)	23 (15%)	1 (1%)	1 (1%)	2 (1%)	3 (2%)	
Royal Free	145	126 (87%)	13 (9%)	0 (0%)	1 (1%)	3 (2%)	2 (1%)	
<b>Total</b>	<b>1529</b>	<b>1296 (85%)</b>	<b>149 (10%)</b>	<b>7 (0%)</b>	<b>21 (1%)</b>	<b>29 (2%)</b>	<b>27 (2%)</b>	
<b>Liver</b>								
Birmingham	50	40 (80%)	7 (14%)	0 (0%)	0 (0%)	2 (4%)	1 (2%)	
Cambridge	89	77 (87%)	6 (7%)	0 (0%)	0 (0%)	2 (2%)	4 (4%)	
Cardiff	18	8 (44%)	3 (17%)	0 (0%)	2 (11%)	3 (17%)	2 (11%)	
Edinburgh	44	38 (86%)	2 (5%)	0 (0%)	0 (0%)	4 (9%)	0 (0%)	
King's College	60	46 (77%)	9 (15%)	0 (0%)	0 (0%)	3 (5%)	2 (3%)	
Leeds	35	28 (80%)	6 (17%)	0 (0%)	0 (0%)	0 (0%)	1 (3%)	
Manchester	32	22 (69%)	4 (13%)	0 (0%)	1 (3%)	5 (16%)	0 (0%)	
Newcastle	23	14 (61%)	7 (30%)	0 (0%)	0 (0%)	2 (9%)	0 (0%)	
Oxford	35	27 (77%)	5 (14%)	0 (0%)	0 (0%)	2 (6%)	1 (3%)	
Royal Free	40	24 (60%)	3 (8%)	0 (0%)	3 (8%)	9 (23%)	1 (3%)	
<b>Total</b>	<b>426</b>	<b>324 (76%)</b>	<b>52 (12%)</b>	<b>0 (0%)</b>	<b>6 (1%)</b>	<b>32 (8%)</b>	<b>12 (3%)</b>	
<b>Pancreas</b>								
Birmingham	23	18 (78%)	0 (0%)	0 (0%)	1 (4%)	3 (13%)	1 (4%)	
Cambridge	26	21 (81%)	0 (0%)	1 (4%)	1 (4%)	2 (8%)	1 (4%)	
Cardiff	3	2 (67%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (33%)	
Edinburgh	12	11 (92%)	0 (0%)	0 (0%)	0 (0%)	1 (8%)	0 (0%)	
King's College	20	15 (75%)	3 (15%)	0 (0%)	2 (10%)	0 (0%)	0 (0%)	
Leeds	12	7 (58%)	1 (8%)	0 (0%)	2 (17%)	2 (17%)	0 (0%)	
Manchester	13	7 (54%)	2 (15%)	3 (23%)	1 (8%)	0 (0%)	0 (0%)	
Newcastle	7	7 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	
Oxford	12	11 (92%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (8%)	
Royal Free	6	5 (83%)	0 (0%)	0 (0%)	1 (17%)	0 (0%)	0 (0%)	
<b>Total</b>	<b>134</b>	<b>104 (78%)</b>	<b>6 (4%)</b>	<b>4 (3%)</b>	<b>8 (6%)</b>	<b>8 (6%)</b>	<b>4 (3%)</b>	

**Table 4 DBD organs retrieved and damage grade reported for cardiothoracic teams, by donor type, 22 July 2021 - 31 October 2022**

Team	No. retrieved	No effect/ no damage	Damage grade (% of retrieved)				
			Mild effect	Moderate effect	Severe effect	Not performed	Not reported
<b>Heart</b>							
Birmingham	32	32 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Glasgow	23	23 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Harefield	41	37 (90%)	3 (7%)	0 (0%)	0 (0%)	0 (0%)	1 (2%)
Manchester	33	33 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Newcastle	26	25 (96%)	1 (4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Papworth	28	28 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
<b>Total</b>	<b>183</b>	<b>178 (97%)</b>	<b>4 (2%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>1 (1%)</b>
<b>Lung</b>							
Birmingham	27	24 (89%)	3 (11%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Glasgow	14	12 (86%)	1 (7%)	0 (0%)	0 (0%)	1 (7%)	0 (0%)
Harefield	18	13 (72%)	3 (17%)	0 (0%)	0 (0%)	1 (6%)	1 (6%)
Manchester	17	16 (94%)	1 (6%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Newcastle	8	6 (75%)	2 (25%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Papworth	12	10 (83%)	1 (8%)	0 (0%)	0 (0%)	1 (8%)	0 (0%)
<b>Total</b>	<b>96</b>	<b>81 (84%)</b>	<b>11 (11%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>3 (3%)</b>	<b>1 (1%)</b>

**Table 5 DCD organs retrieved and damage grade reported for cardiothoracic teams, by donor type, 22 July 2021 - 31 October 2022**

Team	No. retrieved	No effect/ no damage	Damage grade (% of retrieved)				
			Mild effect	Moderate effect	Severe effect	Not performed	Not reported
<b>Heart</b>							
Birmingham	0	-	-	-	-	-	-
Glasgow	7	7 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Harefield <sup>1</sup>	29	27 (93%)	0 (0%)	0 (0%)	0 (0%)	1 (3%)	1 (3%)
Manchester	0	-	-	-	-	-	-
Newcastle	0	-	-	-	-	-	-
Papworth	29	25 (86%)	2 (7%)	0 (0%)	0 (0%)	1 (3%)	1 (3%)
<b>Total</b>	<b>65</b>	<b>59 (91%)</b>	<b>2 (3%)</b>	<b>0 (0%)</b>	<b>0 (0%)</b>	<b>2 (3%)</b>	<b>2 (3%)</b>
<b>Lung</b>							
Birmingham	8	8 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Glasgow	3	1 (33%)	0 (0%)	1 (33%)	0 (0%)	1 (33%)	0 (0%)
Harefield	9	6 (67%)	0 (0%)	0 (0%)	0 (0%)	1 (11%)	2 (22%)
Manchester	6	3 (50%)	3 (50%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Newcastle	2	1 (50%)	0 (0%)	0 (0%)	0 (0%)	1 (50%)	0 (0%)
Papworth	10	7 (70%)	1 (10%)	0 (0%)	0 (0%)	2 (20%)	0 (0%)
<b>Total</b>	<b>38</b>	<b>26 (68%)</b>	<b>4 (11%)</b>	<b>1 (3%)</b>	<b>0 (0%)</b>	<b>5 (13%)</b>	<b>2 (5%)</b>

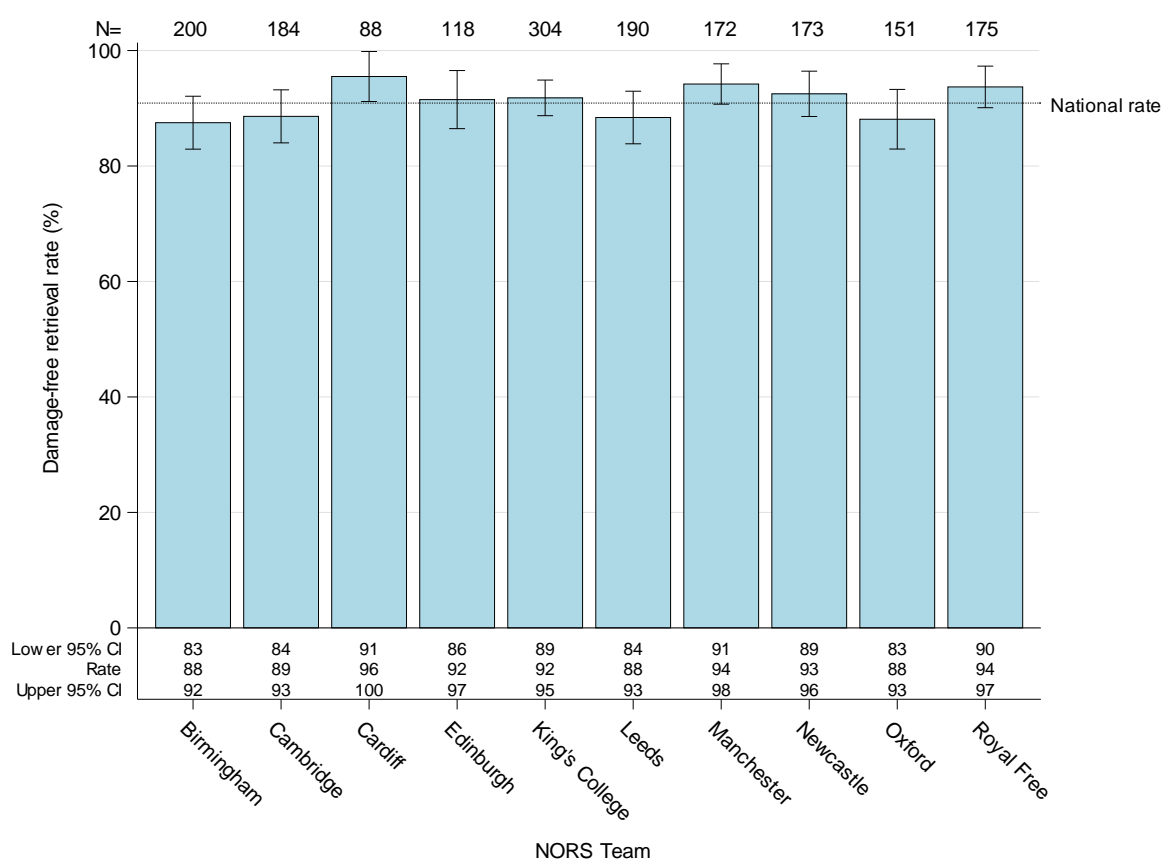
<sup>1</sup> Includes hybrid DCD heart team activity

## Comparison of damage rates

- 8 This section compares the rates of damage-free retrievals for teams against the national rate and across teams, by donor type and organ. The figures show the comparison to the national rate, where the rate of each team is presented with a 95% confidence interval, and the number of retrievals considered along the top. If the confidence interval does not contain the national rate, then the team has a damage rate which is significantly different to the national rate. To compare across teams, a Chi-square test was used to compare the incidence of no damage for each donor type and organ. Rates for DCD heart and DCD lung retrievals are not presented due to low numbers.

## DBD

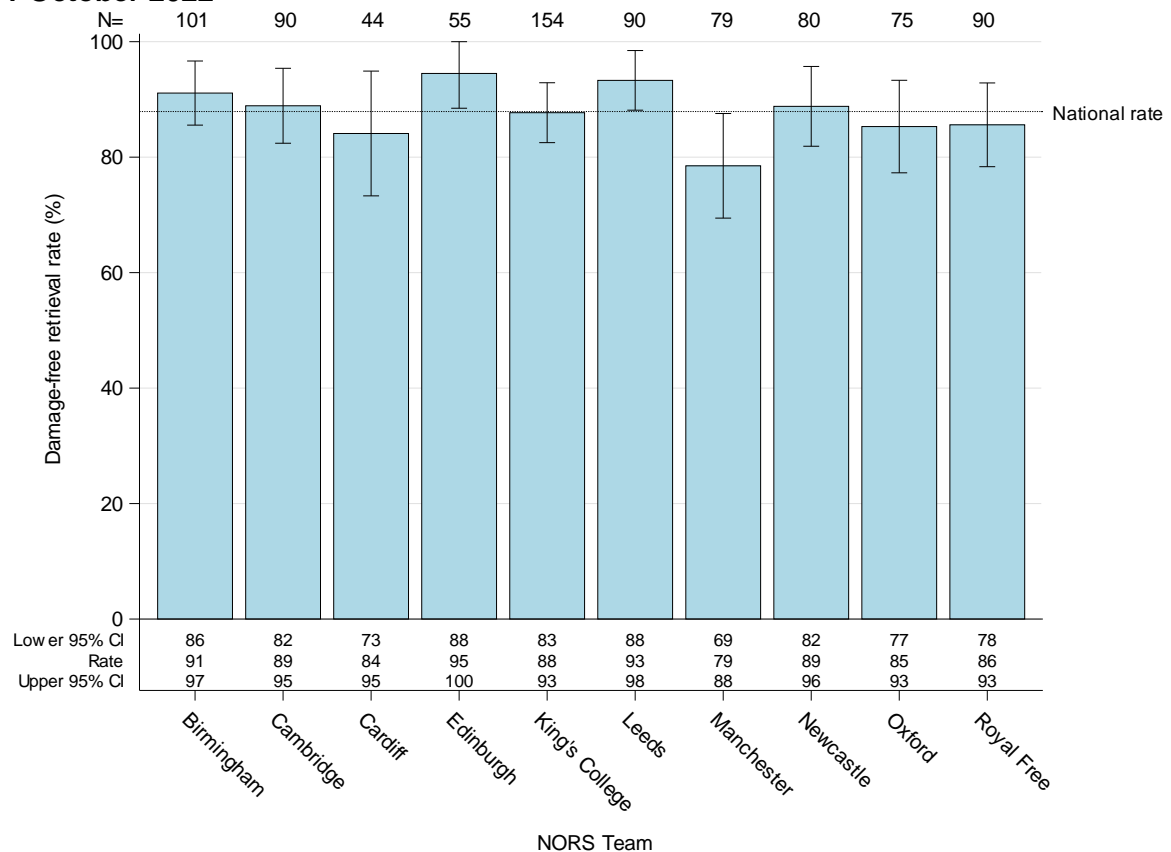
**Figure 3 Damage-free retrieval rates for DBD kidney retrievals, by team, 22 July 2021 – 31 October 2022**



- 9 From **Figure 3**, all teams are in line with the national rate for damage-free retrievals for DBD kidneys, apart from Cardiff who has a significantly higher rate of damage-free retrievals compared to the national rate. When compared across teams, there was no significant difference ( $p=0.126$ ).

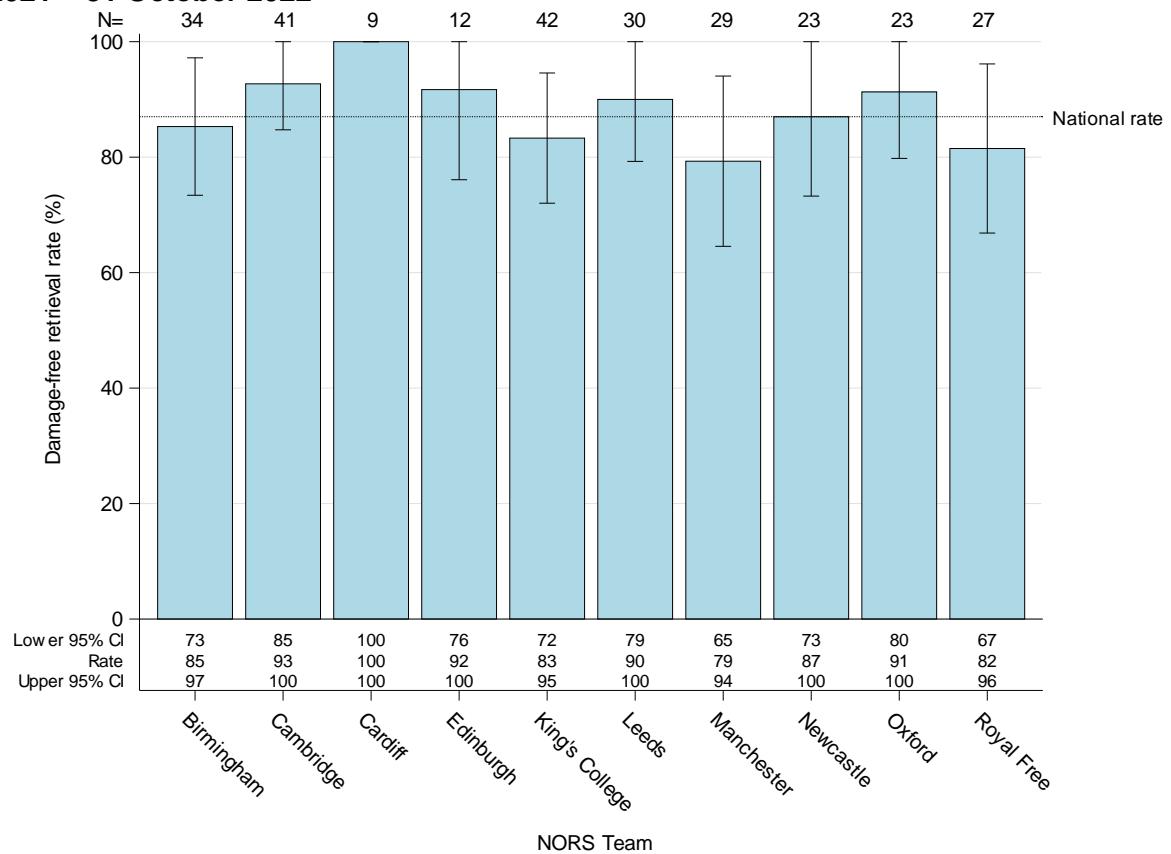


**Figure 4 Damage-free retrieval rates for DBD liver retrievals, by team, 22 July 2021 – 31 October 2022**



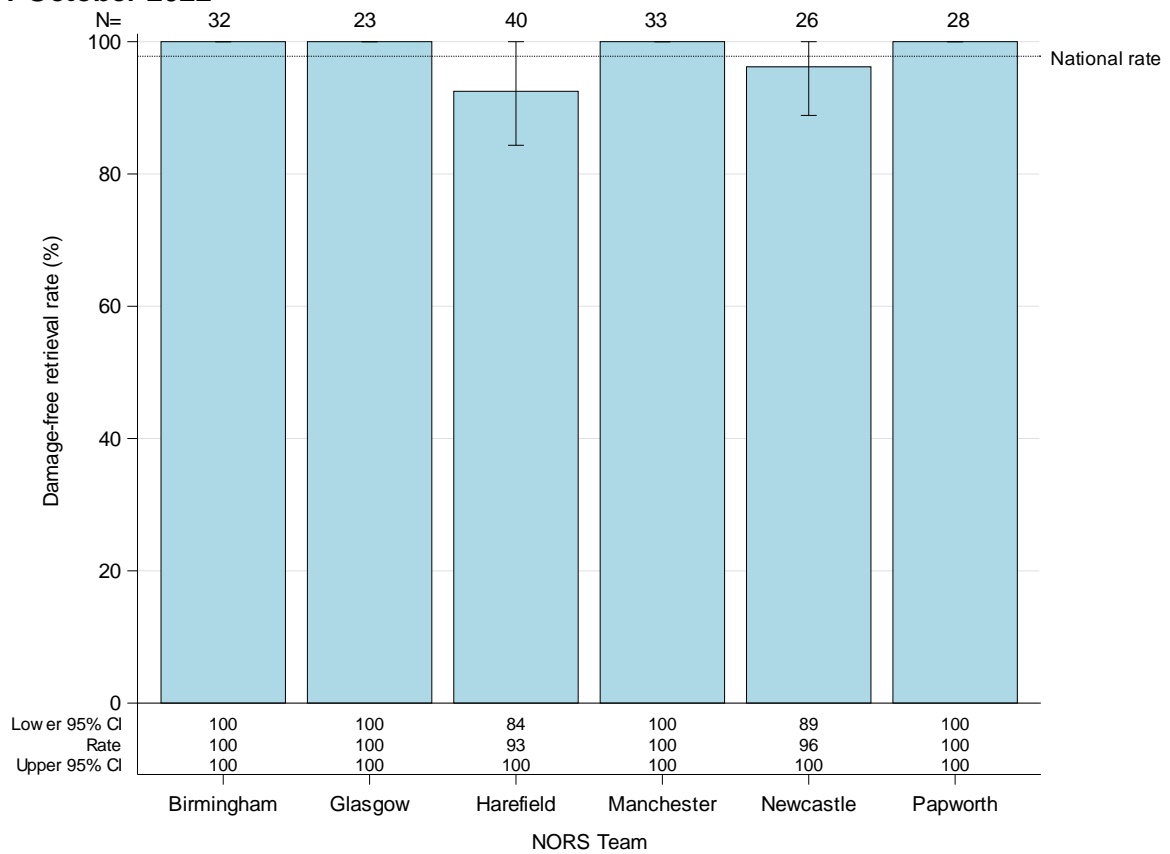
10 From **Figure 4**, all teams are in line with the national rate of no damage for DBD livers apart from Edinburgh and Leeds who have a significantly higher rate of damage-free retrievals compared to the national rate and Manchester who has a significantly lower rate of damage-free retrievals compared to the national rate. When compared across teams, there was no significant difference ( $p= 0.122$ ).

**Figure 5 Damage-free retrieval rates for DBD pancreas retrievals, by team, 22 July 2021 – 31 October 2022**



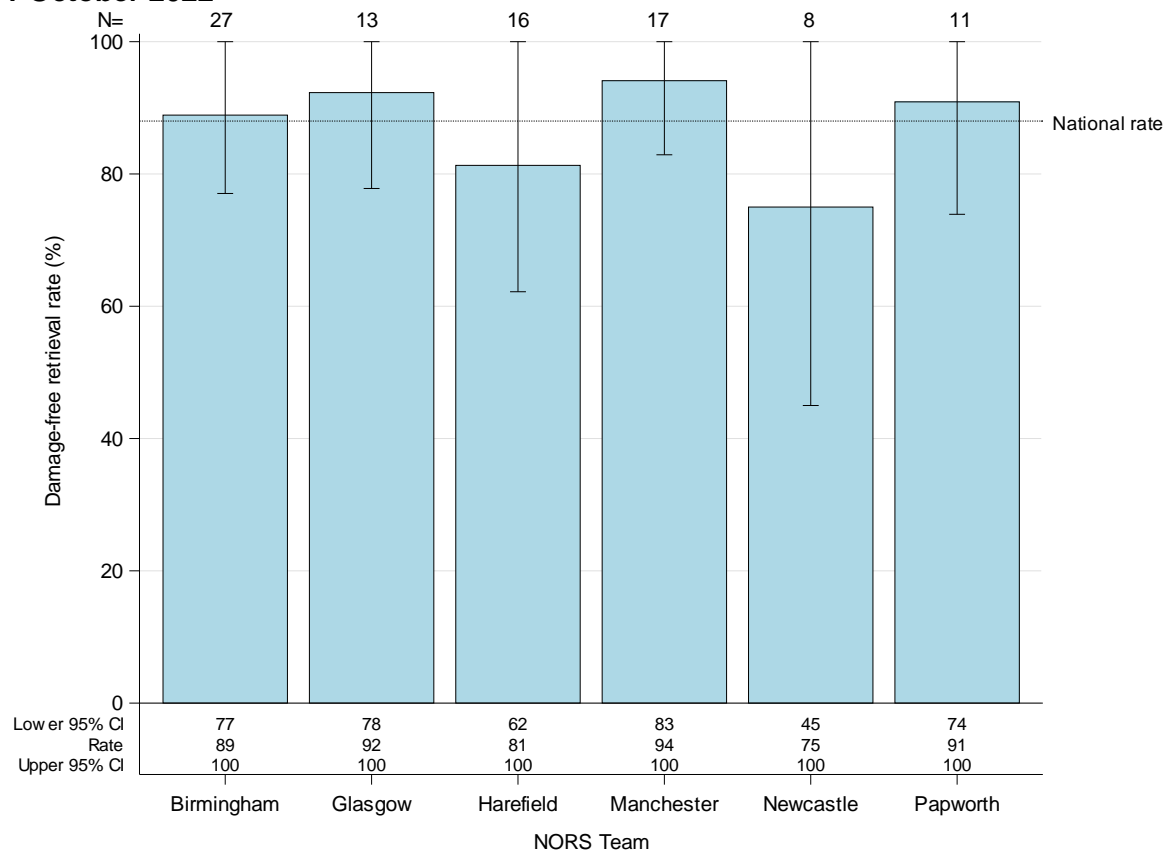
11 From **Figure 5**, all teams are in line with the national rate of no damage for DBD pancreases, apart from Cardiff who has a significantly higher rate of damage-free retrievals than the national rate. When compared across teams, there was no significant difference ( $p= 0.719$ ).

**Figure 6 Damage-free retrieval rates for DBD heart retrievals, by team, 22 July 2021 – 31 October 2022**



12 From **Figure 6**, several teams had rates of damage-free retrieval that were significantly higher than the national rate of no damage for DBD hearts. When compared across teams, there was no significant difference ( $p= 0.147$ ).

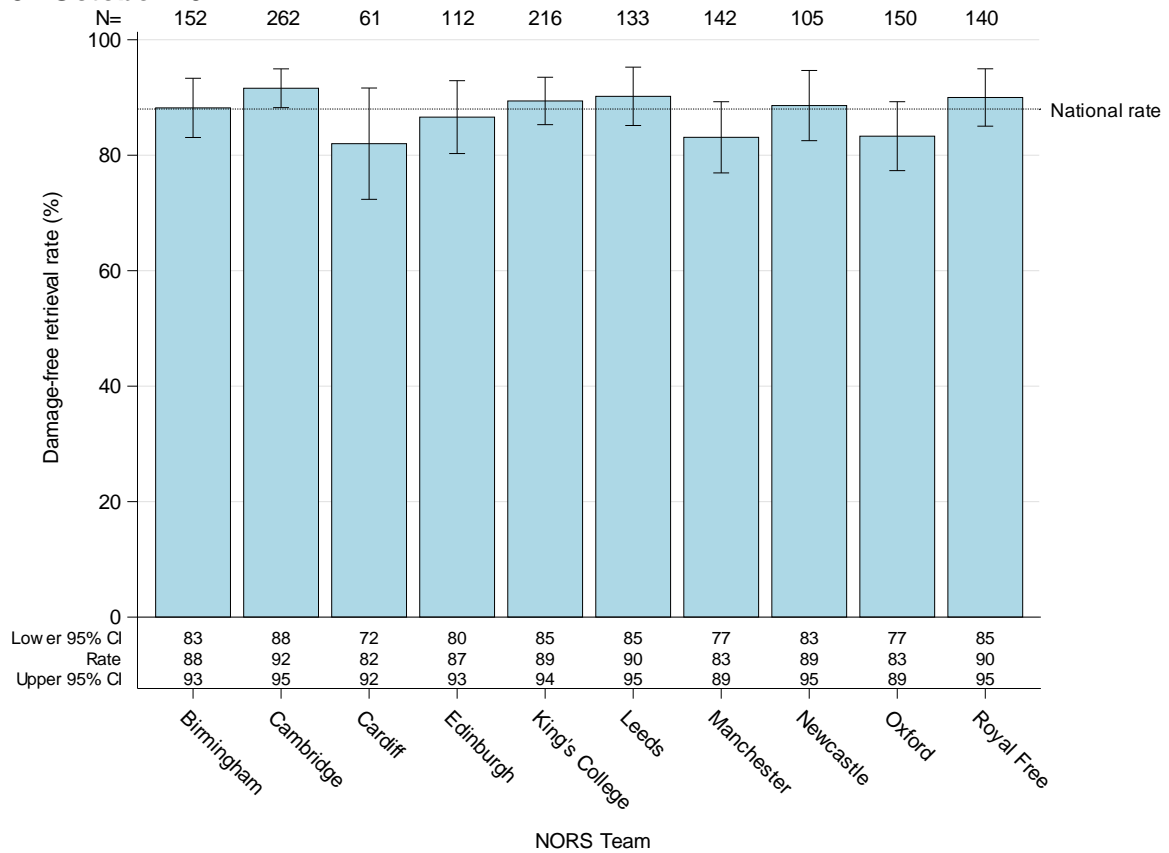
**Figure 7 Damage-free retrieval rates for DBD lung retrievals, by team, 22 July 2021 – 31 October 2022**



13 From **Figure 7**, all teams are in line with the national rate of no damage for DBD lungs. When compared across teams, there was no significant difference (0.712).

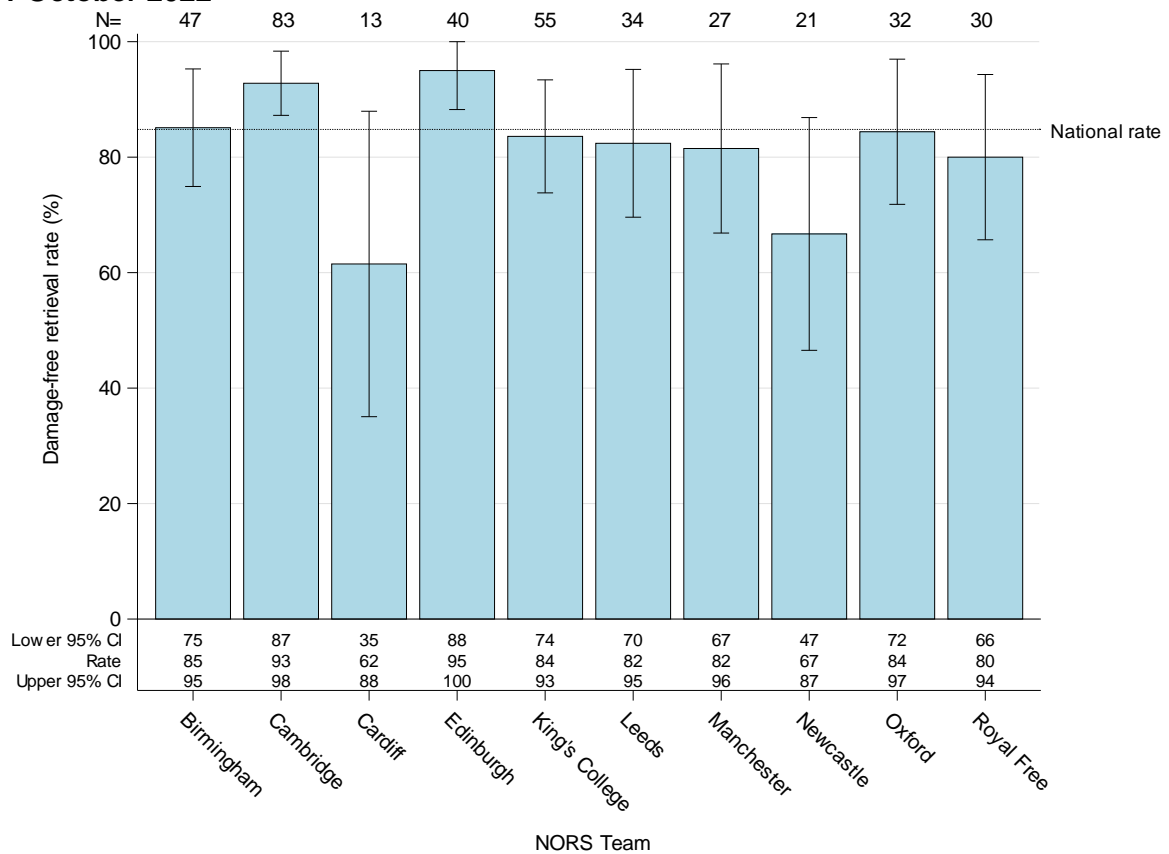
DCD

**Figure 8 Damage-free retrieval rates for DCD kidney retrievals, by team, 22 July 2021 – 31 October 2022**



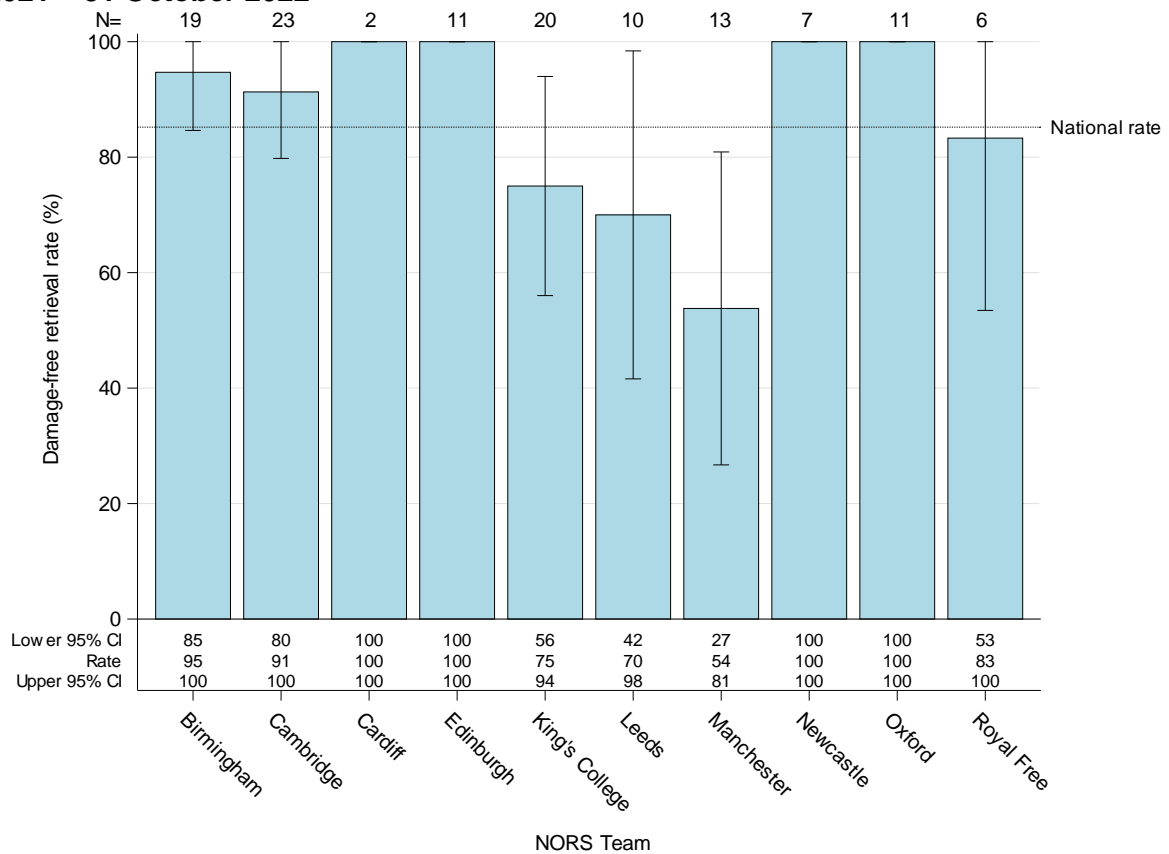
14 From **Figure 8**, all teams are in line with the national rate of no damage for DCD kidneys, apart from Cambridge who has a significantly higher rate of damage-free retrievals than the national rate. When compared across teams, there was no significant difference (p= 0.145).

**Figure 9 Damage-free retrieval rates for DCD liver retrievals, by team, 22 July 2021 – 31 October 2022**



15 From **Figure 9**, all teams are in line with the national rate of no damage for DCD livers, apart from Edinburgh and Cambridge who have a significantly higher rate of damage-free retrievals than the national rate. When compared across teams, there was evidence of a significant difference across teams ( $p= 0.024$ ).

**Figure 10 Damage-free retrieval rates for DCD pancreas retrievals, by team, 22 July 2021 – 31 October 2022**



16 From **Figure 10**, several teams have rates of damage-free retrievals significantly higher than the national rate apart from Manchester who have a significantly lower rate of damage-free retrievals than the national rate, however this is based on small numbers. When compared across teams, there was evidence of a significant difference across teams ( $p= 0.0121$ ).

## Comparing HTA-B and RTI damage grades

17 **Table 6** shows the grade of damage reported by the receiving surgeon on the HTA-B form against the grade reported by the retrieval surgeon on the RTI form, by organ. Generally, when no effect/no damage is reported on the HTA-B form, this is in agreement with the RTI form. Values coloured green are those where either the grade of damage was in agreement between the two forms, or the receiving surgeon reported a lower grade of damage than that by the retrieval team.

**Table 6 Organ damage as reported by retrieving surgeon against damage reported by receiving surgeon, 22 July 2021 - 31 October 2022**

Damage reported by retrieving surgeon	Damage reported by receiving surgeon									
	No effect/ No damage		Mild effect		Moderate effect		Severe effect		Not reported <sup>1</sup>	
	N	%	N	%	N	%	N	%	N	%
<b>Kidney</b>										
No effect/No damage	2760	95.4	202	69.7	13	100	24	72.7	114	87.7
Mild effect	106	3.7	68	23.4	-	-	5	15.2	12	9.2
Moderate effect	11	0.4	16	5.5	-	-	3	9.1	1	0.8
Severe effect	1	0	1	0.3	-	-	1	3	-	-
Not reported	14	0.5	3	1	-	-	-	-	3	2.3
<b>Liver</b>										
No effect/No damage	997	92.5	79	52	-	-	5	55.6	69	84.1
Mild effect	67	6.2	69	45.4	1	100	4	44.4	11	13.4
Moderate effect	7	0.6	3	2	-	-	-	-	2	2.4
Severe effect	-	-	-	-	-	-	-	-	-	-
Not reported	7	0.6	1	0.7	-	-	-	-	-	-
<b>Pancreas</b>										
No effect/No damage	315	92.9	14	60.9	10	90.9	17	89.5	34	91.9
Mild effect	12	3.5	8	34.8	1	9.1	1	5.3	2	5.4
Moderate effect	5	1.5	1	4.3	-	-	-	-	1	2.7
Severe effect	2	0.6	-	-	-	-	-	-	-	-
Not reported	5	1.5	-	-	-	-	1	5.3	-	-
<b>Heart</b>										
No effect/No damage	227	95.8	5	83.3	-	-	-	-	4	80
Mild effect	3	1.3	1	16.7	-	-	-	-	1	20
Moderate effect	-	-	-	-	-	-	-	-	-	-
Severe effect	-	-	-	-	-	-	-	-	-	-
Not reported	7	3	-	-	-	-	-	-	-	-
<b>Lung</b>										
No effect/No damage	104	97.2	13	86.7	1	100	-	-	10	90.9
Mild effect	-	-	2	13.3	-	-	-	-	-	-
Moderate effect	-	-	-	-	-	-	-	-	-	-
Severe effect	-	-	-	-	-	-	-	-	-	-
Not reported	3	2.8	-	-	-	-	-	-	1	9.1

<sup>1</sup>Not reported includes those recorded as Not performed on the HTA-B form