

Overview of Organ Donation and Transplantation

A summary of organ donation and transplantation activity in the UK during the financial year from 1 April 2021 to 31 March 2022

2.1 Summary of activity

Many patients became suspended from the active transplant list as transplant centres reacted to the COVID-19 pandemic in March 2020 and 2021. There were 2,013 more active patients at 31 March 2022 than at the end of the previous financial year. The change in donor and transplant numbers (1 April 2012 to 31 March 2022) and the number of patients registered on the transplant lists at 31 March each year are shown in **Figure 2.1**. There were 468 more deceased donor transplants in 2021-2022 than in the previous year, representing a 16% increase. There was an 18% increase in the number of deceased donors.

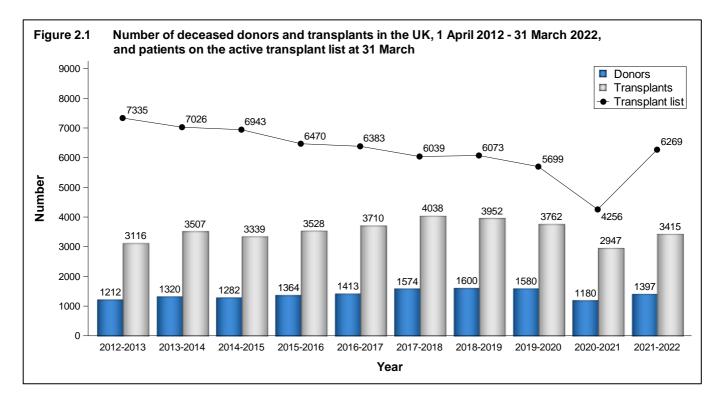




Figure 2.2 shows the number of deceased and living donors for 2012-2022. The numbers of deceased donors after brain death (DBD) and deceased donors after circulatory death (DCD) have both increased over the decade. In 2021-2022, the numbers of DBD and DCD donors increased compared to the previous year, to 785 and 612 respectively. The number of living donors has fallen, from a peak of 1,150 donors in 2013-2014 to 909 in 2021-2022, which nevertheless represents a 102% increase compared with 2020-2021.

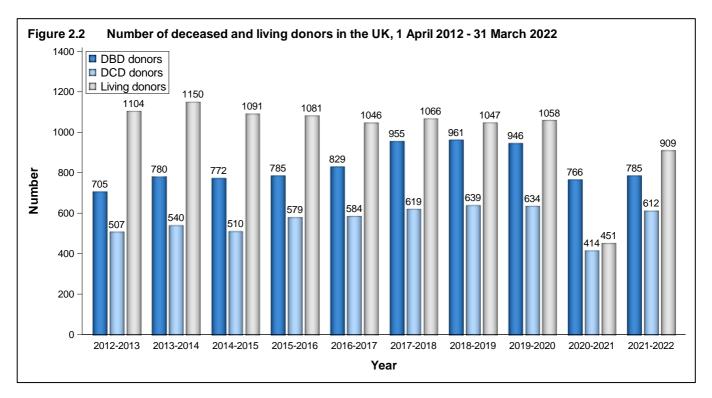
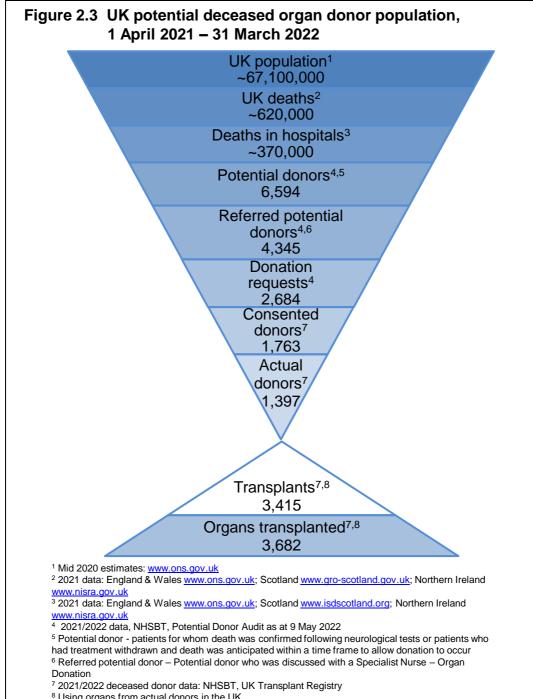


Figure 2.3 shows the potential deceased organ donor population in the UK. Not everyone can be a deceased organ donor and this figure highlights the small proportion of deaths in the UK that represent potential donors. *Please note that the information presented comes from several different sources. The NHSBT Potential Donor Audit collects information on most, but not all, actual donors and the potential for donation could therefore be slightly underestimated. The quoted numbers of transplants and organs transplanted are those achieved using organs from deceased actual donors in the UK, some of which may have been performed overseas, and does not reflect the number of deceased donor transplants in the UK, which may have used organs from overseas donors.*





⁸ Using organs from actual donors in the UK



Table 2.1 shows the number of deceased donors and transplants in 2021-2022 and patients on the transplant list at 31 March 2022 for each country in the UK and overall.

Table 2.1Deceased donors and transplants 1 April 2021 - 31 March 2022, and transplant lists as at 31 March 2022, by Country of residence										
			Co	ountry of	residen	ce ¹	Nor	thern	TO	TAL ²
	Enc	land	\\/s	ales	Sco	tland	-	land	10	
Organ	N	(pmp)	N	(pmp)	N	(pmp)	N	(pmp)	Ν	(pmp)
Kidney	4000	(40.0)	50	(40.7)	70	(40.0)	54		4004	(40.0)
Deceased donors	1089	(19.3)	53	(16.7)	76	(13.9)	51	(26.8)	1331	(19.8)
Transplants Transplant list	1958 4360	(34.6) (77.1)	91 163	(28.7) (51.4)	146 413	(26.7) (75.5)	59 70	(31.1) (36.8)	2263 5023	(33.7) (74.9)
Pancreas										
Deceased donors	278	(4.9)	15	(4.7)	12	(2.2)	10	(5.3)	334	(5.0)
Transplants	122	(2.2)	10	(3.2)	17	(3.1)	4	(2.1)	153	(2.3)
Transplant list	224	(4.0)	11	(3.5)	38	(6.9)	2	(1.1)	278	(4.1)
Heart	450		0	(4.0)	40	(4.0)	0	(4.0)	405	
Deceased donors Transplants ³	156 137	(2.8) (2.4)	6 5	(1.9) (1.6)	10 25	(1.8) (4.6)	3 9	(1.6) (4.7)	185 179	(2.8) (2.7)
Transplant list ³	275	(2.4) (4.9)	11	(3.5)	25 24	(4.6)	9 16	(4.7) (8.4)	328	(2.7) (4.9)
Lung										
Deceased donors	106	(1.9)	4	(1.3)	7	(1.3)	1	(0.5)	125	(1.9)
Transplants	97	(1.7)	3	(0.9)	4	(0.7)	4	(2.1)	109	(1.6)
Transplant list	218	(3.9)	14	(4.4)	26	(4.8)	8	(4.2)	267	(4.0)
Liver	000		45	(1 4 0)	<u></u>		20	(00 5)	4047	(45.0)
Deceased donors Transplants	822 688	(14.5) (12.2)	45 28	(14.2) (8.8)	63 69	(11.5) (12.6)	39 24	(20.5) (12.6)	1017 823	(15.2) (12.3)
Transplant list	531	(9.4)	37	(11.7)	39	(7.1)	28	(12.0) (14.7)	644	(12.3) (9.6)
Intestinal										
Deceased donors	23	(0.4)	5	(1.6)	0	(0.0)	0	(0.0)	28	(0.4)
Transplants	21	(0.4)	0	(0.0)	4	(0.7)	2	(1.1)	27	(0.4)
Transplant list	11	(0.2)	0	(0.0)	3	(0.5)	0	(0.0)	14	(0.2)
Total ⁴	4400	(00.4)		(4.0.0)	04	(4.4.0)		(00.4)	4007	
Deceased donors Transplants	1138 2903	(20.1) (51.3)	57 129	(18.0) (40.7)	81 256	(14.8)	54 100	(28.4) (52.6)	1397 3415	(20.8)
Transplants	2903 5384	(95.2)	226	(40.7) (71.3)	256 508	(46.8) (92.9)	100	(52.6) (64.2)	3415 6269	(50.9) (93.5)
rianopiant not	5504	(33.2)	220	(11.5)	500	(32.3)	122	(04.2)	0203	(33.5)

¹ Country of residence of donor given for deceased donor numbers, and residence of recipient given for transplant and waiting list numbers

² Includes patients resident in Channel Islands, Isle of Man, overseas and in the Republic of Ireland

³ Excludes heart-lung recipients

⁴ Organ numbers do not add up to total due to multi-organ donors and patients waiting for a multi-organ transplant



2.2 Transplant list

At 31 March 2022, 6,269 patients were registered for an organ transplant in the UK on the active transplant list. A further 3,990 patients were temporarily suspended from the active national transplant list because they were unfit or otherwise unavailable for transplant. Details of numbers of patients on each of the organ transplant lists are given in **Table 2.2** for 31 March 2021 and 2022. Between these dates the total number increased by 2013 (47%). This is mostly due to increases in the kidney and liver transplant lists, where non-urgent patients have been reactivated after being suspended during the height of the pandemic.

Table 2.2Active transplant lists in the UK at 31 March 2021 and 2022				
	2021 ²	2022	% Change	
Kidney & pancreas patients	3537	5022	+42	
Kidney	3365	4744	+41	
Kidney & pancreas	143	243	+70	
Kidney & pancreas islets	11	8	-	
Pancreas	10	9	-	
Pancreas islets	8	18	-	
Cardiothoracic patients	582	587	+1	
Heart	312	320	+3	
Heart-lung	10	9	-	
Lung(s)	260	258	-1	
Liver patients	115	612	+432	
Intestinal patients	14	14	0	
Other multi-organ patients ¹	8	34	-	
ALL PATIENTS	4256	6269	+47	
Percentages not reported when fewer than 10 in either year ¹ Includes patients waiting for kidney and liver transplants (6 in 2021, 26 in 2022), kidney and heart transplants (2 in 2022), liver and heart transplants (1 in 2021, 6 in 2022), liver and lung transplants (1 in 2021) ² Numbers on the waiting list do not accurately reflect the need for an organ transplant due to the pandemic				

During 2021-2022, 429 patients died whilst active/suspended on the transplant list or within one year of removal from the list. For comparison, in 2020-2021, 525 patients died. This information for 2021-2022 is shown by organ and age group in **Table 2.3**.



Table 2.3Number of patient deaths on transplant lists in the UK, 1 April 2020 and 31 March 2022					
	2020-2021		2021-2022	2	
	Total	Total	Adult	Paediatric	
Kidney & pancreas patients	363	287	286	1	
Kidney	337	268	267	1	
Kidney & pancreas	24	16	16	0	
Kidney & pancreas islets	0	0	0	0	
Pancreas	2	1	1	0	
Pancreas islets	0	2	2	0	
Cardiothoracic patients	79	67	61	6	
Heart	28	22	17	5	
Heart-lung	2	1	0	1	
Lung(s)	49	44	44	0	
Liver patients	70	67	65	2	
Intestinal patients	3	2	2	0	
Other multi-organ patients ¹	10	6	5	1	
ALL PATIENTS	525	429	419	10	
¹ Includes patients waiting for kidney and heart transplants (1 in 2020/21), kidney and liver transplants (1 in 2020/21, 2 adult in 2021/22), liver and heart transplants (1 in 2020/21, 1 paediatric in 2021/22) and liver and lung transplant (7 in 2020/21, 3 adult in 2021/22)					

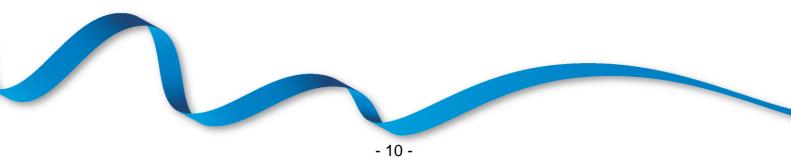
2.3 Transplants

As services started to return to more normal levels there was a 27% increase in the total number of organ transplants (from deceased and living donors) last year: 4,324 transplants were performed in 2021-2022 compared with 3,398 in 2020-2021 (**Table 2.4**). All multi-organ transplants are identified separately as are transplants from living donors.

The total number of kidney transplants increased in 2021-2022; kidney only transplants from donors after circulatory death increased by 41%, while the number of living donor kidney transplants increased by 106%. The number of heart transplants increased by 11%, the number of lung and heart-lung transplants increased by 20%, the number of liver transplants increased by 11%, and the number of pancreas transplants (including pancreas only, intestinal, kidney/pancreas and pancreas islets) increased by 54%.



Table 2.4 Transplants performed in the UK, 1 April 2021 - 31 March 2022				
Transplant	2020-2021	2021-2022	% Change	
DBD kidney DCD kidney Living donor kidney	1171 665 429	1191 936 884	+2 +41 +106	
DBD kidney and pancreas DCD kidney and pancreas Kidney and pancreas islets DBD pancreas DCD pancreas Pancreas Islets	62 21 5 3 0 10	85 35 7 9 2 15	+37 +67 - - +50	
DBD heart DCD heart Heart-lung DBD single lung DCD single lung DBD bilateral lung DCD bilateral lung	137 22 2 4 3 65 16	131 44 3 12 2 69 22	-4 +100 - - +6 +38	
DBD liver DCD liver DBD liver lobe DCD liver lobe Living donor liver lobe	518 120 100 1 22	529 194 90 0 25	+2 +62 -10 - +14	
Bowel only ¹ Liver, bowel & pancreas Multivisceral Modified multivisceral	2 0 5 5	9 1 10 7	- - -	
Kidney & liver Heart & kidney Heart & liver Lung & liver	7 0 2 1	7 2 2 1	- - -	
TOTAL ORGAN TRANSPLANTS	3398	4324	+27	
Total kidney transplants ² Total pancreas transplants ² Total cardiothoracic transplants Total liver transplants ² Total intestinal transplants	2360 111 252 776 12	3149 171 288 859 27	+33 +54 +14 +11 +125	
Percentage not reported when fewer than 10 ¹ Including a kidney (2 in 2021-2022) ² Includes intestinal transplants) in either year			



The total approximate number of patients with a functioning transplant on 31 March 2022 is 58,900 (**Table 2.5**). This reflects information held on the UK Transplant Registry database and excludes those patients who are known to be lost to follow-up.

Table 2.5	Number of transplants reported as functioning at 31 March 2022		
	Functioning transplants ¹		
Kidney Pancreas Cardiothoracie Liver Intestinal	43100 2200 4100 11400 170		
ALL PATIENT	S 58900		
¹ Approximate number of patients with a functioning transplant being followed up Multi-organ transplants (excluding intestinal transplants) are counted in each organ. Excludes those patients known to be lost to follow-up			

