

Detailed Report Actual and Potential Deceased Organ Donation 1 April 2020 - 31 March 2021

Northern Ireland Organ Donation Services Team





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Further Information

- We acknowledge that the data presented includes the period most significantly impacted by COVID-19 and appreciate that the COVID-19 pandemic affected Trusts/Boards differently across the UK.
- Appendix A.1 contains definitions of terms and abbreviations used throughout this report and summarises the main changes made to the PDA over time.
- The latest Organ Donation and Transplantation Activity Report is available at
- https://www.organdonation.nhs.uk/supporting-my-decision/statistics-about-organ-donation/transplant-activity-report/
 - The latest PDA Annual Report is available at http://www.odt.nhs.uk/statistics-and-reports/potential-donor-audit/
- Please refer any queries or requests for further information to your local Specialist Nurse Organ Donation (SNOD)

Source

NHS Blood and Transplant: UK Transplant Registry (UKTR), Potential Donor Audit (PDA) and Referral Record. Issued May 2021 based on data meeting PDA criteria reported at 10 May 2021.



1. Donor Outcomes

A summary of the number of donors, patients transplanted, average number of organs donated per donor and organs donated.

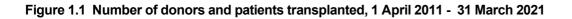
Data in this section is obtained from the UK Transplant Registry

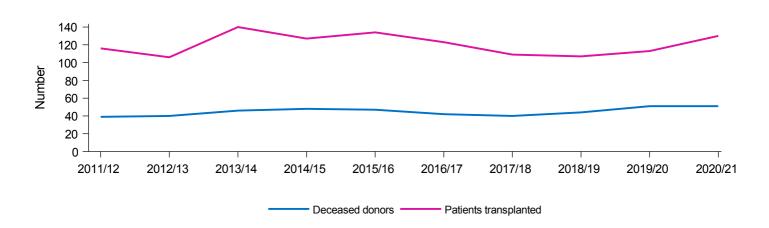
Between 1 April 2020 and 31 March 2021, the Northern Ireland Organ Donation Services Team facilitated 51 deceased solid organ donors, resulting in 130 patients receiving a transplant. Additional information is shown in Tables 1.1 and 1.2, along with comparison data for 2019/20. Figure 1.1 shows the number of donors and patients transplanted for the previous ten periods for comparison.

Table 1.1 Donors, pati 1 April 2020			onor, arch 2020 for com	oarison)
	Number of	Number of patients	Average number donated per Northern	
Donor type	donors	transplanted	Ireland	UK
DBD DCD DBD and DCD	36 (32) 15 (19) 51 (51)	100 (81) 30 (32) 130 (113)	3.3 (3.1) 2.9 (2.3) 3.2 (2.8)	3.3 (3.5) 2.7 (2.7) 3.1 (3.2)

In addition to the 51 proceeding donors there were 12 additional consented donors that did not proceed, 3 where DBD organ donation was being facilitated and 9 where DCD organ donation was being facilitated.

Table 1.2 Organs transplanted by type, 1 April 2020 - 31 March 2021 (1 April 2019 - 31 March 2020 for comparison)								
Donor type	Kidney	Numl Pancreas	ber of organs t Liver	transplanted b Heart	y type Lung	Small bowel		
DBD DCD DBD and DCD	60 (50) 25 (31) 85 (81)	3 (5) 0 (0) 3 (5)	28 (24) 2 (2) 30 (26)	8 (5) 2 (0) 10 (5)	6 (2) 2 (2) 8 (4)	0 (0) 0 (0) 0 (0)		







2. Key Rates in

Potential for Organ Donation

A summary of the key rates on the potential for organ donation

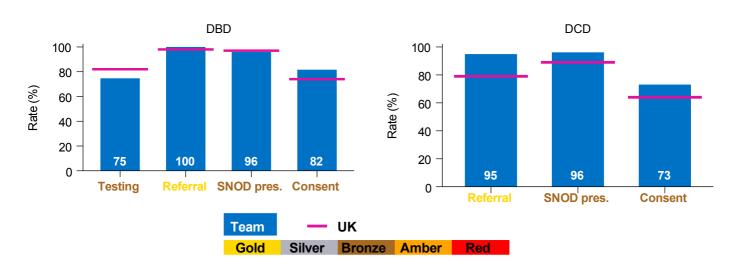
Data in this section is obtained from the National Potential Donor Audit (PDA)

This section presents specific percentage measures of potential donation activity for the Northern Ireland Organ Donation Services Team.

Performance in the team has been compared with UK performance in both Figure 2.1 and Table 2.1 using funnel plot boundaries and the Gold, Silver, Bronze, Amber, and Red (GoSBAR) colour scheme. When compared with UK performance, gold represents exceptional, silver represents good, bronze represents average, amber represents below average, and red represents poor performance. See Appendix A.3 for funnel plot ranges used.

It is acknowledged that the PDA does not capture all activity. In total there were 0 patients referred in 2020/21 who are not included in this section onwards because they were either over 80 years of age or did not die in a unit participating in the PDA. None of these are included in Section 1 because they did not become a solid organ donor.

Figure 2.1 Key rates on the potential for organ donation including UK comparison, 1 April 2020 - 31 March 2021





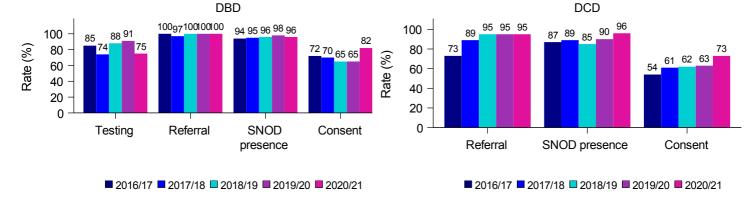




Table 2.1 Key numbers, rates and comparison with national rates, 1 April 2020 - 31 March 2021

		DBI orthern eland	o UK		DCI rthern eland	D UK	No	eceased rthern eland	donors UK
Patients meeting organ donation referral criteria ¹		79	1810		98	6027		169	7551
Referred to Organ Donation Service		79	1777		93	4770		164	6282
Referral rate %	G	100%	98%	G	95%	79%	G	97%	83%
Neurological death tested		59	1490						
Testing rate %	В	75%	82%						
Eligible donors ²		53	1353		61	2860		114	4207
Family approached		49	1210		26	1042		75	2248
Family approached and SNOD present		47	1168		25	925		72	2089
% of approaches where SNOD present	В	96%	97%	В	96%	89%	В	96%	93%
Consent ascertained		40	891		19	665		59	1553
Consent rate %	В	82%	74%	В	73%	64%	s	79%	69%
Actual donors (PDA data)		37	777		14	404		51	1180
% of consented donors that became actual donors		93%	87%		74%	61%		86%	76%

¹ DBD - A patient with suspected neurological death

DCD - A patient in whom imminent death is anticipated, ie a patient receiving assisted ventilation, a clinical decision to withdraw treatment has been made and death is anticipated within 4 hours

² DBD - Death confirmed by neurological tests and no absolute contraindications to solid organ donation DCD - Imminent death anticipated and treatment withdrawn with no absolute contraindications to solid organ donation

Note that a patient that meets both the referral criteria for DBD and DCD organ donation is featured in both the DBD and DCD data but will only be counted once in the deceased donors total

Gold Silver Bronze Amber Red



3. Best quality of care

in organ donation

Key stages in best quality of care in organ donation

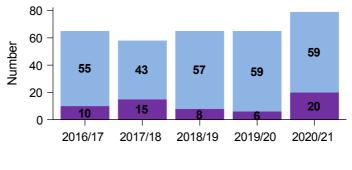
Data in this section is obtained from the National Potential Donor Audit (PDA)

This section provides information on the quality of care in the Northern Ireland Organ Donation Services Team at the key stages of organ donation. The ambition is that the team misses no opportunity to make a transplant happen and that opportunities are maximised at every stage.

3.1 Neurological death testing

Goal: neurological death tests are performed wherever possible.

Figure 3.1 Number of patients with suspected neurological death, 1 April 2016 - 31 March 2021



Patients not tested Patients tested

Table 3.1 Reasons given for neurological death tests not being performed,1 April 2020 - 31 March 2021

	Northern Ireland	UK
Biochemical/endocrine abnormality	-	19
Clinical reason/Clinician's decision	4	42
Continuing effects of sedatives	-	13
Family declined donation	-	24
Family pressure not to test	1	15
Hypothermia	-	1
Inability to test all reflexes	-	20
Medical contraindication to donation	-	11
Other	1	30
Patient had previously expressed a wish not to donate	-	5
Patient haemodynamically unstable	13	100
Pressure of ICU beds	-	8
SN-OD advised that donor not suitable	-	7
Treatment withdrawn	1	18
If 'other', please contact your local SNOD or CLOD for mor	re information, if requ	ired.

Table 3.1	Reasons given for neurological death tests not be 1 April 2020 - 31 March 2021	eing performed	l,
Unknown Total		Northern Ireland - 20	UK 7 320
lf 'other', p	please contact your local SNOD or CLOD for more info	mation, if requi	ired.



3.2 Referral to Organ Donation Service

Goal: Every patient who meets the referral criteria should be identified and referred to the Organ Donation Service, as per NICE CG135¹ and NHS Blood and Transplant (NHSBT) Best Practice Guidance on timely identification and referral of potential organ donors².

Aim: There should be no purple on the following charts.

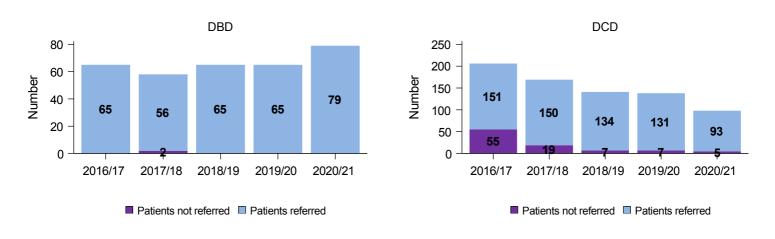


Figure 3.2 Number of patients meeting referral criteria, 1 April 2016 - 31 March 2021

Table 3.2Reasons given why patient not referred to SNOD,1 April 2020 - 31 March 2021

	DBD Northern Ireland) UK	DCI Northern Ireland	D UK
Clinician assessed that patient was unlikely to become asystolic within 4 hours	-	-	-	2
Coroner / Procurator Fiscal reason	_	_	_	1
Family declined donation following decision to remove treatment	-	-	-	10
Family declined donation prior to neurological testing	-	2	-	1
Medical contraindications	-	3	2	423
Not identified as potential donor/organ donation not considered	-	19	1	478
Other	-	3	1	86
Patient had previously expressed a wish not to donate	-	-	-	1
Pressure on ICU beds	-	-	-	17
Reluctance to approach family	-	-	-	1
Thought to be medically unsuitable	-	2	1	224
Thought to be outside age criteria	-	-	-	3
Uncontrolled death pre referral trigger	-	4	-	10
Total	-	33	5	1257
If 'other', please contact your local SNOD or CLOD for more infor	mation, if requ	ired.		



3.3 Contraindications

In 2020/21 there were 22 potential donors in the Northern Ireland Organ Donation Services team with an ACI reported, 5 DBD and 19 DCD donors. Please note, the number of potential DBD and DCD donors with an ACI reported may not equal the total stated as a patient can meet potential donor criteria for both DBD and DCD donation.



3.4 SNOD presence

Goal: A SNOD should be present during the formal family approach as per NICE CG135¹ and NHS Blood and Transplant (NHSBT) Best Practice Guidance.³

Aim: There should be no purple on the following charts.

In the UK, in 2020/21, when a SNOD was not present for the approach to the family to discuss organ donation, DBD and DCD consent rates were 43% and 23%, respectively, compared with DBD and DCD consent rates of 75% and 69%, respectively, when a SNOD was present.

Within the Trusts in the team, when a SNOD was not present for the approach to the family to discuss organ donation, DBD and DCD consent rates were 0% and 0%, respectively, compared with DBD and DCD consent rates of 85% and 76%, respectively, when a SNOD was present.

Every approach to those close to the patient should be planned with the multidisciplinary team (MDT), should involve the SNOD and should be clearly planned taking into account the known wishes of the patient. The NHS Organ Donor Register (ODR) should be checked in all cases of potential donation and this information must be discussed with the family as it represents the eligible donor's legal consent to donation.

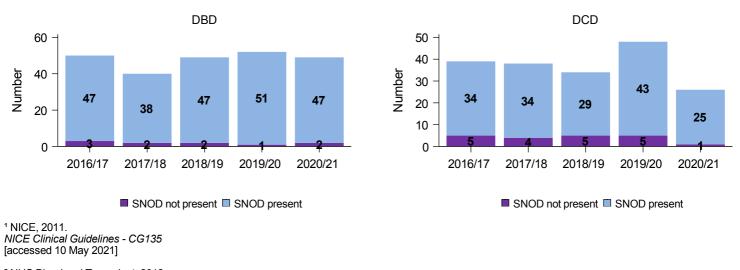


Figure 3.3 Number of families approached by SNOD presence, 1 April 2016 - 31 March 2021

² NHS Blood and Transplant, 2012. *Timely Identification and Referral of Potential Organ Donors - A Strategy for Implementation of Best Practice* [accessed 10 May 2021]

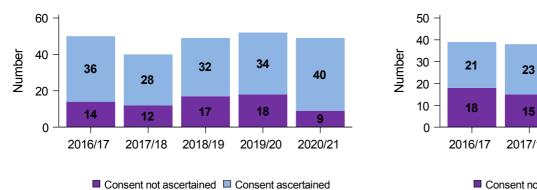
³ NHS Blood and Transplant, 2013. Approaching the Families of Potential Organ Donors – Best Practice Guidance [accessed 10 May 2021]

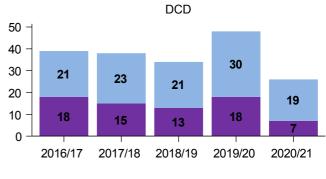


3.5 Consent

In 2020/21 the DBD and DCD consent rates in the team were 82% and 73%, respectively.

Figure 3.4 Number of families approached, 1 April 2016 - 31 March 2021





Consent not ascertained Consent ascertained

Table 3.3 Reasons given why consent was not ascertained,1 April 2020 - 31 March 2021				
	DBI Northern	-	DCI Northern	-
	Ireland	UK	Ireland	UK
Family believe patient's treatment may have been limited to facilitate organ donation	-	1	-	-
Family concerned donation may delay the funeral	-	1	-	-
Family concerned other people may disapprove/be offended	-	3	-	2
Family concerned that organs may not be transplantable	-	1	-	1
Family did not believe in donation	1	10	-	13
Family did not want surgery to the body	1	29	1	35
Family divided over the decision	-	13	-	16
Family felt it was against their religious/cultural beliefs	1	38	-	13
Family felt patient had suffered enough	-	16	-	34
Family felt that the body should be buried whole (unrelated to religious/cultural reasons)	-	12	-	9
Family felt the length of time for the donation process was too	2	9	2	48
long		•		
Family had difficulty understanding/accepting neurological testing	-	2	-	-
Family wanted to stay with the patient after death	-	1	-	2
Family were not sure whether the patient would have agreed to donation	-	35	1	36
Other	_	22	1	34
Patient had previously expressed a wish not to donate	4	112	2	108
Patient had registered a decision to Opt Out	-	6	-	13
Strong refusal - probing not appropriate	-	8	-	11
Total	9	319	7	375
If 'other', please contact your local SNOD or CLOD for more inform	nation, if requ	ired.		



3.6 Solid organ donation

Goal: NHSBT is committed to supporting transplant units to ensure as many organs as possible are safely transplanted.

	DBI	כ	DCE	כ
	Northern Ireland	UK	Northern Ireland	
Clinical - Absolute contraindication to organ donation	ireiano	8		UK 3
Clinical - Considered high risk donor	-	5	_	3 2 1
Clinical - DCD clinical exclusion	-	-	-	1
Clinical - No transplantable organ	-	8	-	13
Clinical - Organs deemed medically unsuitable by recipient	1	35	1	73
entres				
Clinical - Organs deemed medically unsuitable on surgical	1	15	-	1
nspection				
Clinical - Other	-	8	-	3 3
Clinical - Outside of donation criteria at referral	-	-	-	3
Clinical - PTA post WLST	-	-	3	109
Clinical - Patient actively dying	-	4 2	-	5 1
Clinical - Patient asystolic	-	2 6	-	7
Clinical - Patient expected to die before donation could take blace attendance not required	I	0	-	1
Clinical - Patient's general medical condition	_	2	1	4
Clinical - Positive virology	_	4	-	1
Consent / Auth - Coroner/Procurator fiscal refusal	-	10	-	12
Consent / Auth - Family placed conditions on donation	-	1	-	-
Consent / Auth - NOK withdraw consent / authorisation	-	1	-	11
ogistical - No critical care bed available	-	-	-	1
ogistical - Other	-	5	-	10
otal	3	114	5	26



4. Comparative Data

A comparison of performance in your team with national data

Data in this section is obtained from the National Potential Donor Audit (PDA)

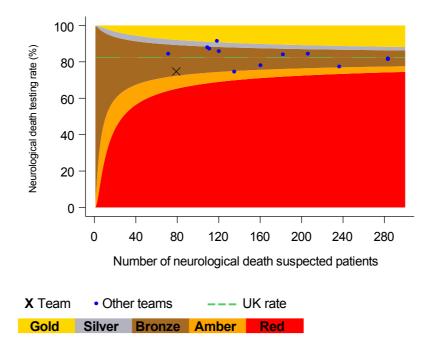
This section compares the quality of care in the key areas of organ donation in the Northern Ireland Organ Donation Services team with the UK rate using funnel plots. The UK rate is shown as a green dashed line and the funnel shape is formed by the 95% and 99.8% confidence limits around the UK rate. The confidence limits reflect the level of precision of the UK rate relative to the number of observations. Performance in the team is indicated by a black cross. The Gold, Silver, Bronze, Amber, and Red colour scheme is used to indicate whether performance in the team, when compared to UK performance, is exceptional (gold), good (silver), average (bronze), below average (amber) or poor (red).

It is important to note that the differences in patient mix have not been accounted for in these plots. Further to these, separate funnel plots for DBD and DCD rates are presented in Section 8.

4.1 Neurological death testing

Goal: neurological death tests are performed wherever possible.

Figure 4.1 Funnel plot of neurological death testing rate, 1 April 2020 - 31 March 2021



When compared with UK performance, the performance within the Trusts in the team was average (bronze) for neurological death testing.



4.2 Referral to Organ Donation Service

Goal: Every patient who meets the referral criteria should be identified and referred to NHSBT's Organ Donation Service, as per NICE CG135¹ and NHS Blood and Transplant (NHSBT) Best Practice Guidance on timely identification and referral of potential organ donors².

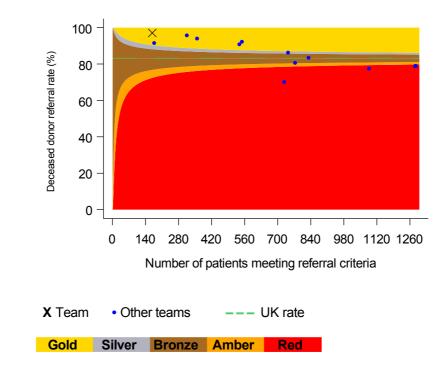


Figure 4.2 Funnel plot of deceased donor referral rate, 1 April 2020 - 31 March 2021

When compared with UK performance, the performance within the Trusts in the team was exceptional (gold) for referral of potential organ donors to NHS Blood and Transplant's Organ Donation Service.



4.3 SNOD presence

Goal: A SNOD should be present during the formal family approach as per NICE CG135¹ and NHS Blood and Transplant (NHSBT) Best Practice Guidance.³

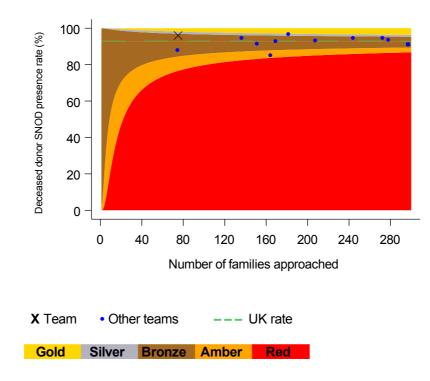


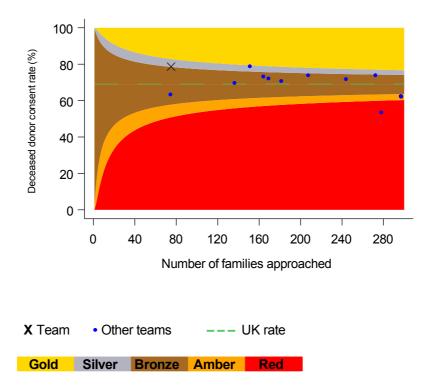
Figure 4.3 Funnel plot of SNOD presence rate, 1 April 2020 - 31 March 2021

When compared with UK performance, the performance within the Trusts in the team was average (bronze) for Specialist Nurse presence when approaching families to discuss organ donation.



4.4 Consent

Figure 4.4 Funnel plot of consent rate, 1 April 2020 - 31 March 2021



When compared with UK performance, the consent rate within the Trusts in the team was good (silver).



5. PDA data by hospital and unit

A summary of key numbers and rates from the PDA by hospital and unit where patient died

Data in this section is obtained from the National Potential Donor Audit (PDA)

Tables 5.1 and 5.2 show the key numbers and rates for patients who met the DBD and/or DCD referral criteria, respectively. Percentages have been excluded where numbers are less than 10.

Table 5.1 Patients who met the DBD referral criteria - key numbers and rates,1 April 2020 - 31 March 2021

Patients where neurological death was suspected	Patients tested	Neurological death testing rate (%)	Patients referred	DBD referral rate (%)	Patients confirmed dead by neurological testing	Eligible DBD donors	Eligible DBD donors whose family were approached	Approaches where SNOD involved	SNOD presence rate (%)	Consent ascertained	Consent rate (%)	Actual DBD and DCD donors from eligible DBD donors
Belfast Health	and Social	Care Trust										
35	26	74	35	100	26	24	24	24	100	21	88	20
Northern Healt	th and Socia	l Care Trust										
13	9	69	13	100	9	8	6	6	-	5	-	4
South Eastern	Health and	Social Care Tru	ust									
3	3	-	3	-	3	3	3	2	-	1	-	1
Southern Heal	th and Socia	al Care Trust										
14	9	64	14	100	9	8	7	7	-	6	-	5
Western Healt	h and Socia	l Care Trust										
14	12	86	14	100	12	10	9	8	-	7	-	7

Table 5.2 Patients who met the DCD referral criteria - key numbers and rates, 1 April 2020 - 31 March 2021

Patients for whom imminent death was anticipated	Patients referred	DCD referral rate (%)	Patients for whom treatment was withdrawn	Eligible DCD donors	Eligible DCD donors whose family were approached	Approaches where SNOD involved	SNOD presence rate (%)	Consent ascertained	Consent rate (%)	Actual DCD donors from eligible DBD donors
Belfast Health ar	nd Social Ca	re Trust								
44	43	98	42	35	17	16	94	11	65	7
Northern Health	and Social C	Care Trust								
16	15	94	16	4	0	0	-	0	-	0
South Eastern H	ealth and Sc	cial Care Trust								
5	5	-	5	5	2	2	-	2	-	2
Southern Health	and Social (Care Trust								
25	24	96	18	13	5	5	-	4	-	4
Western Health	and Social C	are Trust								
8	6	-	7	4	2	2	-	2	-	1

Tables 5.1 and 5.2 show the hospital where the patient died. However, it is acknowledged that there are some occasions where a patient is referred in an Emergency Department but moves to a critical care unit. In total for the team in 2020/21 there were 2 such patients. For more information regarding the Emergency Department please see Section 7.



6. Paediatric ICU data

A summary of key numbers for paediatric ICUs

Data in this section is obtained from the National Potential Donor Audit (PDA)

End of life care guidance and practice for paediatric patients does differ and care of the family unit as a whole is a core key principle. Paediatric Intensive Care Units (PICU) systems should never prevent families being offered the opportunity to donate if this is a possibility.

This section provides information on the quality of care for patients that died in PICUs in the Northern Ireland Organ Donation Services team at the key stages of organ donation. The ambition is that your PICU misses no opportunity to make a transplant happen and that opportunities are maximised at every stage.

6.1 Key numbers for PICUs

Table 6.1 PICU key numbers comparison with national rates,1 April 2020 - 31 March 2021

	DBI Northern)	DCI Northern)	Deceased Northern	donors
	Ireland	UK	Ireland	UK	Ireland	UK
Patients meeting organ donation referral criteria ¹	1	72	7	188	8	235
Referred to Organ Donation Service	1	71	7	159	8	205
Referral rate %		99%		85%		87%
Neurological death tested	1	45				
Testing rate %		63%				
Eligible donors ²	1	43	7	150	8	192
Family approached	1	30	0	44	1	74
Family approached and SNOD present	1	25	0	34	1	59
% of approaches where SNOD present		83%		77%		80%
Consent ascertained	1	15	0	21	1	36
Consent rate %		50%		48%		49%
Actual donors (PDA data)	1	13	0	17	1	30
% of consented donors that became actual donors		87%		81%		83%

¹ DBD - A patient with suspected neurological death

DCD - A patient in whom imminent death is anticipated, ie a patient receiving assisted ventilation, a clinical decision to withdraw treatment has been made and death is anticipated within 4 hours

² DBD - Death confirmed by neurological tests and no absolute contraindications to solid organ donation DCD - Imminent death anticipated and treatment withdrawn with no absolute contraindications to solid organ donation

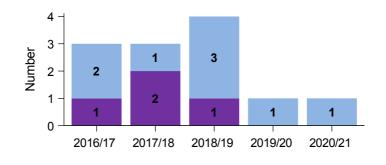
Note that a patient that meets both the referral criteria for DBD and DCD organ donation is featured in both the DBD and DCD data but will only be counted once in the deceased donors total



6.2 Neurological death testing in PICUs

Goal: neurological death tests are performed wherever possible.

Figure 6.1 Number of patients with suspected neurological death in PICUs, 1 April 2016 - 31 March 2021



Patients not tested Patients tested

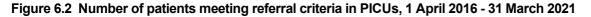
Table 6.2 Reasons given for neurological death tests noPICUs,1 April 2020 - 31 March 2021	ot being performe	d in
Dischemical/andopring chaptermolity	Northern Ireland	υĸ
Biochemical/endocrine abnormality Clinical reason/Clinician's decision	-	4
Continuing effects of sedatives	-	2
Family declined donation	-	4
Family pressure not to test	-	5 2
Inability to test all reflexes	-	2
Medical contraindication to donation	-	1
Other	-	4
Patient haemodynamically unstable	-	2
SN-OD advised that donor not suitable	-	1
Treatment withdrawn	-	1
Total	-	27
If 'other', please contact your local SNOD or CLOD for more	information, if requ	iired.



6.3 Referral to Organ Donation Service in PICUs

Goal: Every patient who meets the referral criteria should be identified and referred to the Organ Donation Service, as per NICE CG135¹ and NHS Blood and Transplant (NHSBT) Best Practice Guidance on timely identification and referral of potential organ donors².

Aim: There should be no purple on the following charts.



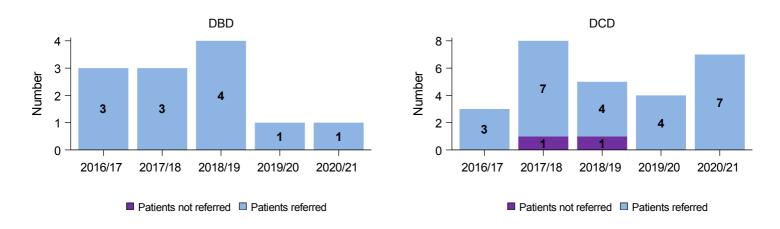


Table 6.3 Reasons given why patient not referred to Organ Donation Service in PICUs, 1 April 2020 - 31 March 2021

hern and UK - 1 	Northerr Ireland - - - -	UK 1 2 - 2
 · 1	- - -	- 2
 - 1 	- - -	- 2
- 1 	- -	_
	-	_
		-
	-	8
	-	2
	-	14
- 1	-	29
	-	23
	· 1 if required.	if required.



6.4 Contraindications in PICUs

Following the introduction of the new PDA, data on contraindications is currently not available at this time. Table 6.4 will be incorporated in the full year reports.

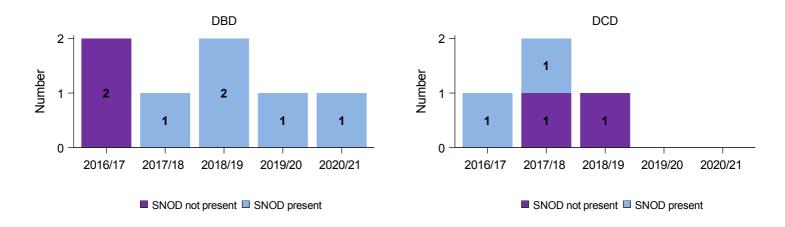


6.5 SNOD presence for patients in PICUs

Goal: A SNOD should be present during the formal family approach as per NICE CG135¹ and NHS Blood and Transplant (NHSBT) Best Practice Guidance.³

Aim: There should be no purple on the following charts.

Figure 6.3 Number of families of PICU patients approached by SNOD presence, 1 April 2016 - 31 March 2021





6.6 Consent for patients in PICUs

In 2020/21 less than 10 families of eligible donors, facilitated in the PICU, were approached to discuss organ donation in the team therefore consent rates are not presented.

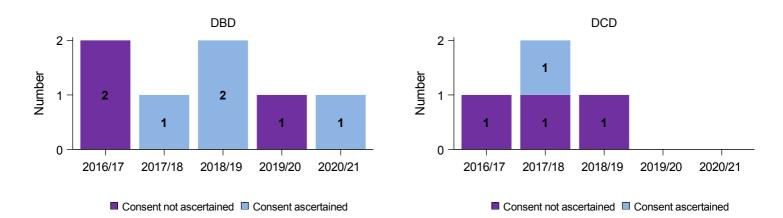


Figure 6.4 Number of families of PICU patients approached, 1 April 2016 - 31 March 2021

Table 6.5 Reasons given why consent was not ascertained for PICU patients, 1 April 2020 - 31 March 2021

	DBD		DCE)
	Northern Ireland	UK	Northern Ireland	UK
Family did not want surgery to the body	-	3	-	5
Family divided over the decision	-	-	-	1
Family felt it was against their religious/cultural beliefs	-	2	-	2
Family felt patient had suffered enough	-	1	-	4
Family felt that the body should be buried whole (unrelated to	-	2	-	-
religious/cultural reasons)				
Family felt the length of time for the donation process was too	-	2	-	4
long				
Family had difficulty understanding/accepting neurological testing	-	1	-	-
Family wanted to stay with the patient after death	-	-	-	1
Other	-	3	-	5
Patient had previously expressed a wish not to donate	-	-	-	1
Patient had registered a decision to Opt Out	-	1	-	-
Total	-	15	-	23
If 'other', please contact your local SNOD or CLOD for more inform	mation, if requ	ired.		



6.7 Solid organ donation in PICUs

Goal: NHSBT is committed to supporting transplant units to ensure as many organs as possible are safely transplanted.

1 April 2020 - 31 March 2021				
	DBD Northern Ireland	UK	DCD Northern Ireland) UK
Clinical - Organs deemed medically unsuitable by recipient centres	-	1	-	2
Clinical - Patient's general medical condition	-	-	-	1
Clinical - Positive virology	-	1	-	-
Consent / Auth - NOK withdraw consent / authorisation	-	-	-	1
Total	-	2	-	4



7. Emergency Department data

A summary of key numbers for Emergency Departments

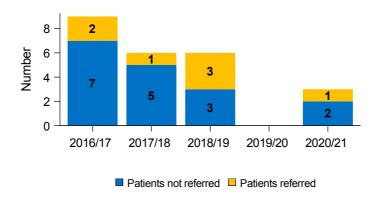
Data in this section is obtained from the National Potential Donor Audit (PDA)

Most patients who go on to become organ donors start their journey in the emergency department (ED). Deceased donation is important, not just for those people waiting on the transplant list, but also because many people in the UK have expressed a decision in life to become organ donors after their death. The overarching principle of the NHSBT Organ donation and Emergency Department strategy ⁴ is that best quality of care in organ donation should be followed irrespective of the location of the patient within the hospital at the time of death.

7.1 Referral to Organ Donation Service

Goal: No one dies in your ED meeting referral criteria and is not referred to NHSBT's Organ Donation Service. Aim: There should be no blue on the following chart.

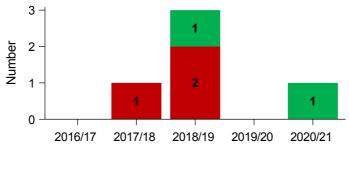




7.2 Organ donation discussions

Goal: No family is approached in ED regarding organ donation without a SNOD present. Aim: There should be no red on the following chart.

Figure 7.2 Number of families approached in ED by SNOD presence, 1 April 2016 - 31 March 2021



SNOD not present SNOD present

^a NHS Blood and Transplant, 2016. Organ Donation and the Emergency Department [accessed 10 May 2021]



8. Additional data and figures

Key numbers and rates on the potential for organ donation

Data in this section is obtained from the National Potential Donor Audit (PDA)

8.1 Trust/Board Level Benchmarking

Trust/Board levels were reallocated in July 2018 using the average number of donors in 2016/17 and 2017/18, Table 8.1 shows the criteria used and how many Trusts/Boards belong to each level.

Table 8.1 Trust/Board level categories				
		Number of Trusts Boards in each level		
Level 1	12 or more (\geq 12) proceeding donors per year	35		
Level 2	6 or more but less than 12 (\geq 6 to <12) proceeding donors per year	45		
Level 3	More than 3 but less than 6 (>3 to <6) proceeding donors per year	47		
Level 4	3 or less (\leq 3) proceeding donors per year	41		

Tables 8.2 and 8.3 show the national DBD and DCD key numbers and rates for the UK by Trust/Board level, to aid in comparison with equivalent Trusts/Boards. Note that percentages have been excluded where numbers are less than 10.

Table	e 8.2 Natio 1 Ap		BD key nur) - 31 Marc			te by Trus	t/Boar	d level,					
	Patients where neurological death was suspected	Patients tested	Neurological death testing rate (%)	Patients referred	DBD referral rate (%)	Patients confirmed dead by neurological testing	Eligible DBD donors	Eligible DBD donors whose family were approached	Approaches where SNOD present	SNOD presence rate (%)	Consent ascertained	Consent rate (%)	Actual DBD and DCD donors from eligible DBD donors
Level 1	979	818	84	968	99	813	751	677	651	96	479	71	424
Level 2	420	339	81	407	97	330	299	268	260	97	205	76	168
Level 3	283	228	81	276	98	227	206	181	178	98	140	77	125
Level 4	128	105	82	126	98	104	97	84	79	94	67	80	60

Table 8.3 National DCD key numbers and rate by Trust/Board level,1 April 2020 - 31 March 2021

	Patients for whom imminent death was anticipated	Patients referred	DCD referral rate (%)	Patients for whom treatment was withdrawn	donors	Eligible DCD donors whose family were approached	Approaches where SNOD present	SNOD presence rate (%)	Consent ascertained	Consent rate (%)	Actual DCD donors from eligible DCD donors
Level 1	2552	2143	84	2350	1366	606	537	89	399	66	252
Level 2	2001	1487	74	1843	852	238	214	90	143	60	84
Level 3	990	785	79	923	407	128	112	88	76	59	45
Level 4	484	355	73	444	235	70	62	89	47	67	23



8.2 Comparative data for DBD and DCD deceased donors

Funnel plots are presented in Section 4 showing performance in the team against the UK rate for deceased organ donation. The following funnel plots present data for DBD and DCD donors separately.

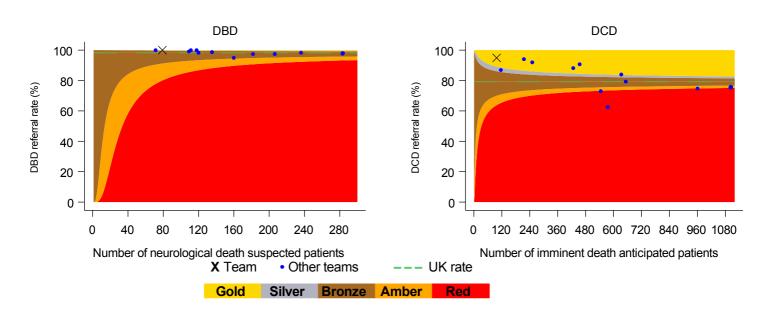
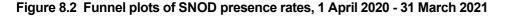
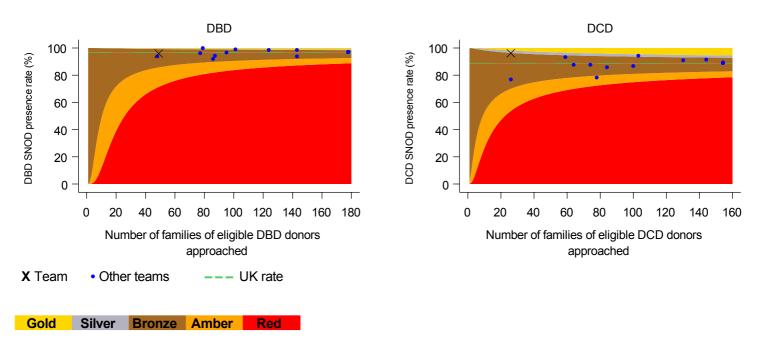


Figure 8.1 Funnel plots of referral rates, 1 April 2020 - 31 March 2021

When compared with UK performance, the performance within the Trusts in the team was exceptional (gold) for referral of potential DBD organ donors and exceptional (gold) for referral of potential DCD organ donors to NHS Blood and Transplant's Organ Donation Service.

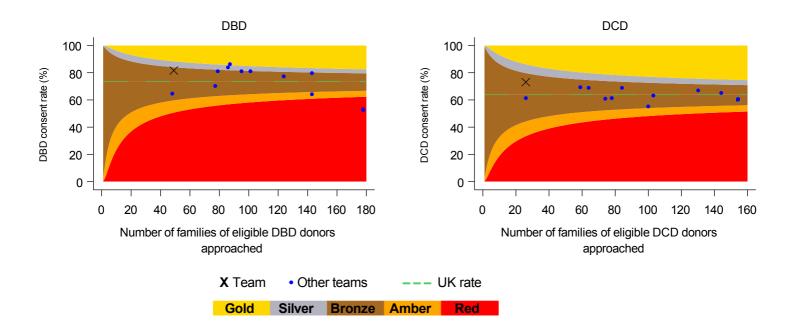




When compared with UK performance, the performance within the Trusts in the team was average (bronze) and average (bronze) for Specialist Nurse presence in approaches to families of eligible DBD and DCD donors, respectively.



Figure 8.3 Funnel plots of consent rates, 1 April 2020 - 31 March 2021



When compared with UK performance, the consent rate within the Trusts in the team was average (bronze) and average (bronze) for DBD and DCD donors, respectively.



Appendices

Appendix A.1 Definitions

Potential Donor Audit Definitions

Potential Donor Audit inclusion criteria	1 October 2009 – 31 March 2010 All deaths in critical care in patients aged 75 and under, excluding cardiothoracic intensive care units 1 April 2010 – 31 March 2013 All deaths in critical and emergency care in patients aged 75 and under, excluding cardiothoracic intensive care units 1 April 2013 onwards All deaths in critical and emergency care in patients aged 80 and under
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Donors after brain death (DBD) definitions

Suspected Neurological Death	A patient who meets all of the following criteria: Apnoea, coma from known aetiology and unresponsive, ventilated, fixed pupils. Excluding those not tested due to reasons 'cardiac arrest despite resuscitation', 'brainstem reflexes returned', 'neonates – less than 2 months post term'.
Potential DBD donor	A patient who meets all four criteria for neurological death testing excluding those not tested due to reasons 'cardiac arrest despite resuscitation', 'brainstem reflexes returned', 'neonates – less than 2 months post term' (ie suspected neurological death, as defined above).
DBD referral criteria	A patient with suspected neurological death
Discussed with Specialist Nurse – Organ Donation	A patient with suspected neurological death discussed with the Specialist Nurse – Organ Donation (SNOD)
Neurological death tested	Neurological death tests were performed
Eligible DBD donor	A patient confirmed dead by neurological death tests, with no absolute medical contraindications to solid organ donation
Absolute contraindications	Absolute medical contraindications to organ donation are listed here: https://nhsbtdbe.blob.core.windows.net/umbraco-assets-corp/6455/ contraindications_to_organ_donation.pdf
Family approached for formal organ donation discussion	Family of eligible DBD asked to support patient's expressed or deemed consent/authorisation, informed of a nominated/appointed representative, asked to make a decision on donation on behalf of their relative, or informed of a patient's opt-out decision via the ODR.
Consent/authorisation ascertained	Family supported expressed or deemed consent/authorisation , nominated/appointed representative gave consent, or where applicable family gave consent/authorisation
Actual donors: DBD	Neurological death confirmed patients who became actual DBD as reported through the PDA
Actual donors: DCD	Neurological death confirmed patients who became actual DCD as reported through the PDA
Neurological death testing rate	Percentage of patients for whom neurological death was suspected who were tested
Referral rate	Percentage of patients for whom neurological death was suspected who were discussed with the SNOD
Consent/authorisation rate	Percentage of families or nominated/appointed representatives approached for formal organ donation discussion where consent/authorisation was ascertained



SNOD presence rate

Percentage of formal organ donation discussions with families or nominated/appointed representatives where a SNOD was present

Consent/authorisation rate where SNOD was present

Percentage of formal organ donation discussions with families or nominated/appointed representatives where a SNOD was present where consent/authorisation was ascertained

Donors after circulatory death (DCD) definitions

Imminent death anticipated	A patient, not confirmed dead using neurological criteria, receiving assisted ventilation, a clinical decision to withdraw treatment has been made and death is anticipated within a time frame to allow donation to occur, as determined at time of assessment
DCD referral criteria	A patient in whom imminent death is anticipated (as defined above)
Discussed with Specialist Nurse – Organ Donation	Patients for whom imminent death was anticipated who were discussed with the SNOD
Potential DCD donor	A patient who had treatment withdrawn and death was anticipated within four hours
Eligible DCD donor	A patient who had treatment withdrawn and death was anticipated within four hours, with no absolute medical contraindications to solid organ donation
Absolute contraindications	Absolute medical contraindications to organ donation are listed here: https://nhsbtdbe.blob.core.windows.net/umbraco-assets-corp/6455/ contraindications_to_organ_donation.pdf
Family approached for formal organ donation discussion	Family of eligible DCD asked to: support the patient's expressed or deemed consent/authorisation decision, informed of a nominated/appointed representative, make a decision themselves on donation, or informed of a patient's opt-out decision via the Organ Donor Register
Consent/authorisation rate	Percentage of families or nominated/appointed representatives approached for formal organ donation discussion where consent/authorisation was ascertained
SNOD presence rate	Percentage of formal organ donation discussions with families or nominated/appointed representatives where a SNOD was present
Consent/authorisation rate where SNOD was present	Percentage of formal organ donation discussions with families or nominated/appointed representatives where a SNOD was present where consent/authorisation was ascertained

UK Transplant Registry (UKTR) definitions

Donor type	Type of donor: Donation after brain death (DBD) or donation after circulatory death (DCD)
Number of actual donors	Total number of donors reported to the UKTR
Number of patients transplanted	Total number of patients transplanted from these donors
Organs per donor	Number of organs donated divided by the number of donors.
Number of organs transplanted	Total number of organs transplanted by organ type



Appendix A.2 Data Description

This report provides a summary of data relating to potential and actual organ donors as recorded by NHS Blood and Transplant via the Potential Donor Audit (PDA), the accompanying Referral Record, and the UK Transplant Registry (UKTR) for the specified Trust, Board, Organ Donation Services Team, or nation.

This report is provided for information and to facilitate case based discussion about organ donation by the Organ Donation Committees and Trusts/Boards.

As part of the PDA, patients over 80 years of age and those who did not die on a critical care unit or emergency department are not audited nationally and are therefore excluded from the majority of this report. Data from neonatal intensive care units (ICU) have also been excluded from this report. In addition, some information may be outstanding due to late reporting and difficulties obtaining patient notes. Donations not captured by the PDA will still be included in the data supplied from the accompanying Referral Record or from the UKTR, as appropriate.



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Appendix A.3 Table and Figure Description

For the purposes of this report please note that Trust/Board is equivalent to team.

1 Donor outcomes	
Table 1.1	The number of actual donors, the resulting number of patients transplanted and the average number of organs donated per donor have been obtained from the UK Transplant Registry (UKTR) for your Trust/Board. Results have been displayed separately for donors after brain death (DBD) and donors after circulatory death (DCD).
Table 1.2	The number of organs transplanted by type from donors at your Trust/Board has been obtained from the UKTR. Further information can be obtained from your local Specialist Nurse – Organ Donation (SNOD), specifically regarding organs that were not transplanted. Results have been displayed separately for DBD and DCD.
Figure 1.1	The number of actual donors and the resulting number of patients transplanted obtained from the UKTR for your Trust/Board for the past 10 equivalent time periods are presented on a line chart.

Figure 2.1	Key percentage measures of DBD and DCD potential donation activity for your Trust/Board are presented in a bar chart, using data from the Potential Donor Audit (PDA). The comparative UK rate, for the same time period, is illustrated by the pink line. The key rates labels are coloured using the gold, silver, bronze, amber, and red (GoSBAR) colour scheme to show the performance of your Trust/Board, relative to the UK rate, as reflected in the funnel plots (see description for Figure 4.1 below.
Figure 2.2	Trends in the key percentage measures of DBD and DCD potential donation activity for your Trust/Board are presented for the past five equivalent time periods, using data from the PDA.
Table 2.1	A summary of DBD, DCD and deceased donor data and key numbers have been obtained from the PDA. A UK comparison is also provided. Note that caution should be applied when interpreting percentages based on small numbers. Appendix A.1 gives a fuller explanation of terms used. The key rates are highlighted using the gold, silver, bronze, amber, and red (GoSBAR) colour scheme to show the performance of your Trust/Board, relative to the UK rate, as reflected in the funnel plots (see description for Figure 4.1 below).

3 Best quality of care in organ d	onation
Figure 3.1	A stacked bar chart displays the number of patients with suspected neurological death who were tested and the number who were not tested in your Trust/Board for the past five equivalent time periods.
Table 3.1	The reasons given for neurological death tests not being performed in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.
Figure 3.2	Stacked bar charts display the number of DBD and DCD patients meeting referral criteria who were referred to the Organ Donation Service and the number who were not referred in your Trust/Board for the past five equivalent time periods.
Table 3.2	The reasons given for not referring patients to the Organ Donation Service in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.
Table 3.3	The primary absolute medical contraindications to solid organ donation for DBD and DCD patients have been obtained from the PDA, if applicable. A UK comparison is also provided.
Figure 3.3	Stacked bar charts display the number of families of DBD and DCD patients approached where a SNOD was present and the number approached where a SNOD was not present in your Trust/Board for the past five equivalent time periods.



Figure 3.4	Stacked bar charts display the number of families of DBD and DCD patients approached where consent/authorisation for organ donation was ascertained and the number approached where consent/authorisation was not ascertained in your Trust/Board for the past five equivalent time periods.
Table 3.4	The reasons why consent/authorisation was not ascertained for solid organ donation in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.
Table 3.5	The reasons why solid organ donation did not occur in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.

4 Comparative data	
Figure 4.1	A funnel plot of the neurological death testing rate is displayed using data obtained from the PDA. Each Trust/Board, of the same level, is represented on the plot as a blue dot, although one dot may represent more than one Trust/Board. The UK rate is shown on the plot as a green horizontal dashed line, together with 95% and 99.8% confidence limits for this rate. These limits form a 'funnel', which is shaded using the gold, silver, bronze, amber, and red (GoSBAR) colour scheme. Graphs obtained in this way are known as funnel plots. If a Trust/Board lies within the 95% limits, shaded bronze, then that Trust/Board has a rate that is statistically consistent with the UK rate (average performance). If a Trust/Board lies outside the 95% confidence limits, shaded silver (good performance) or amber (below average performance), this serves as an alert that the Trust/Board may have a rate that is significantly different from the UK rate. When a Trust/Board lies above the upper 99.8% limit, shaded gold, this indicates a rate that is significantly higher than the UK rate (exceptional performance), while a Trust/Board that lies below the lower limit, shaded red, has a rate that is significantly lower than the UK rate (poor performance). It is important to note that differences in patient mix have not been accounted for in these plots. Your Trust/Board is shown on the plot as the large black cross. If there is no large black cross on the plot, your Trust/Board did not report any patients of the type presented. The funnel plots can also be used to identify the maximum rates currently being achieved by Trusts/Boards with similar donor potential.
Figure 4.2	A funnel plot of the deceased donor referral rate is displayed using data obtained from the PDA. See description for Figure 4.1 above.
Figure 4.3	A funnel plot of the deceased donor SNOD presence rate is displayed using data obtained from the PDA. See description for Figure 4.1 above.
Figure 4.4	A funnel plot of the deceased donor consent/authorisation rate is displayed using data obtained from the PDA. See description for Figure 4.1 above.

5 PDA data by hospital and unit	
Table 5.1	DBD key numbers and rates by unit where the patient died have been obtained from the PDA. Percentages have been excluded where numbers are less than 10.
Table 5.2	DCD key numbers and rates by unit where the patient died have been obtained from the PDA. Percentages have been excluded where numbers are less than 10.



6 Paediatric ICU data	
Table 6.1	A summary of DBD, DCD and deceased donor data and key numbers for paediatric ICUs have been obtained from the PDA. A UK comparison is also provided. Note that caution should be applied when interpreting percentages based on small numbers. Appendix A.1 gives a fuller explanation of terms used.
Figure 6.1	A stacked bar chart displays the number of paediatric ICU patients with suspected neurological death who were tested and the number who were not tested in your Trust/Board for the past five equivalent time periods.
Table 6.2	The reasons given for neurological death tests not being performed for paediatric ICU patients in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.
Figure 6.2	Stacked bar charts display the number of DBD and DCD paediatric ICU patients meeting referral criteria who were referred to the Organ Donation Service and the number who were not referred in your Trust/Board for the past five equivalent time periods.
Table 6.3	The reasons given for not referring paediatric ICU patients to the Organ Donation Service in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.
Table 6.4	The primary absolute medical contraindications to solid organ donation for DBD and DCD paediatric ICU patients have been obtained from the PDA, if applicable. A UK comparison is also provided.
Figure 6.3	Stacked bar charts display the number of families of DBD and DCD paediatric ICU patients approached where a SNOD was present and the number approached where a SNOD was not present in your Trust/Board for the past five equivalent time periods.
Figure 6.4	Stacked bar charts display the number of families of DBD and DCD paediatric ICU patients approached where consent/authorisation for organ donation was ascertained and the number approached where consent/authorisation was not ascertained in your Trust/Board for the past five equivalent time periods.
Table 6.5	The reasons why consent/authorisation was not ascertained for solid organ donation in paediatric ICU patients in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.
Table 6.6	The reasons why solid organ donation did not occur in paediatric ICU patients in your Trust/Board, have been obtained from the PDA, if applicable. A UK comparison is also provided.

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7 Emergency department data	
Figure 7.1	Stacked bar charts display the number of patients that died in the emergency department (ED) who met the referral criteria and were referred to the Organ Donation Service and the number who were not referred in your Trust/Board for the past five equivalent time periods.
Figure 7.2	Stacked bar charts display the number of families of patients in ED approached where a SNOD was present and the number approached where a SNOD was not present in your Trust/Board for the past five equivalent time periods.

8 Additional data and figures	
Table 8.1	A summary of deceased donor, transplant, transplant list and ODR opt-in registration data for your region have been obtained from the UKTR. Your region has been defined as per former Strategic Health Authority. A UK comparison is also provided.
Table 8.2	Trust/board level categories and the relevant expected number of proceeding donors per year are provided for information.
Table 8.3	National DBD key numbers and rates for level 1, 2, 3 and 4 Trusts/Boards are displayed alongside your local data to aid comparison with equivalent Trusts/Boards. Percentages have been excluded where numbers are less than 10.



Table 8.4	National DCD key numbers and rates for level 1, 2, 3 and 4 Trusts/Boards are displayed alongside your local data to aid comparison with equivalent Trusts/Boards. Percentages have been excluded where numbers are less than 10.
Figure 8.1	A funnel plot of the DBD and DCD referral rates are displayed using data obtained from the PDA. See description for Figure 4.1 above.
Figure 8.2	A funnel plot of the DBD and DCD SNOD presence rates are displayed using data obtained from the PDA. See description for Figure 4.1 above.
Figure 8.3	A funnel plot of the DBD and DCD consent/authorisation rates are displayed using data obtained from the PDA. See description for Figure 4.1 above.