

Detailed Report Actual and Potential Deceased Organ Donation 1 April 2017 - 31 March 2018

North West Organ Donation Services Team





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Further Information

- 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 2018 based on data meeting PDA criteria reported at 9 May 2018.



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 2017 and 31 March 2018, the North West Organ Donation Services Team facilitated 227 deceased solid organ donors, resulting in 564 patients receiving a transplant. Additional information is shown in Tables 1.1 and 1.2, along with comparison data for 2016/17. Figure 1.1 shows the number of donors and patients transplanted for the previous ten periods for comparison.

Table 1.1 Donors, patients transplanted and organs per donor,1 April 2017 - 31 March 2018 (1 April 2016 - 31 March 2017 for comparison)											
Donor type	Number of donors	Number of patients transplanted	Average number donated per North West	0							
DBD DCD DBD and DCD	149 (105) 78 (76) 227 (181)	419 (324) 145 (159) 564 (483)	3.5 (3.8) 2.6 (2.6) 3.2 (3.3)	3.7 (3.7) 2.8 (2.7) 3.3 (3.3)							

In addition to the 227 proceeding donors there were 87 additional consented donors that did not proceed, 20 where DBD organ donation was being facilitated and 67 where DCD organ donation was being facilitated.

Table 1.2 Organs transplanted by type,1 April 2017 - 31 March 2018 (1 April 2016 - 31 March 2017 for comparison)												
Donor type	Kidney	Num Pancreas	ber of organs Liver	by type Lung	Small bowel							
DBD DCD DBD and DCD	258 (191) 122 (136) 380 (327)	16 (17) 8 (7) 24 (24)	118 (84) 23 (26) 141 (110)	18 (23) 4 (0) 22 (23)	41 (36) 6 (6) 47 (42)	0 (2) 0 (0) 0 (2)						







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 North West 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 187 patients referred in 2017/18 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. 2 of these are included in Section 1 because they became a solid organ donor.

Goal: The agreed 2017/18 national targets for DBD and DCD consent rates are 73% and 67%, respectively.











Table 2.1 Key numbers, rates and comparison with national rates,1 April 2017 - 31 March 2018

		DBI Iorth	כ		DCI North	D		eceased lorth	donors
		Vest	UK	-	West	UK		Vest	UK
Patients meeting organ donation referral criteria ¹		285	1954		960	6281		1199	7978
Referred to Organ Donation Service		278	1929		848	5615		1086	7302
Referral rate %	B	98%	99%	В	88%	89%	В	91%	92%
Neurological death tested		238	1676						
Testing rate %	В	84%	86%						
Eligible donors ²		224	1582		656	4456		880	6038
Family approached		212	1471		222	1858		434	3329
Family approached and SNOD present		207	1394		202	1591		409	2985
% of approaches where SNOD present	s	98%	95%	S	91%	86%	G	94%	90%
Consent ascertained	_	170	1066	_	136	1115	_	306	2181
Consent rate %	S	80%	72%	В	61%	60%	S	71%	66%
Actual donors (PDA data)		149	955		75	613		224	1568
% of consented donors that became actual donors		88%	90%		55%	55%		73%	72%
¹ DBD - A patient with suspected neurological death DCD - A patient in whom imminent death is anticipat withdraw treatment has been made and death is antic				g as	sisted ven	tilation, a	clinica	al decisio	on to
² DBD - Death confirmed by neurological tests and no DCD - Imminent death anticipated and treatment withd					•			donatio	ı
Note that a patient that meets both the referral criteria for D will only be counted once in the deceased donors total)BD a	nd DCD o	organ dona	tion is	s featured i	n both the	DBD	and DCD	data but

Gold Silver Bronze Amber Red

Note that from 1 April 2017 to 31 March 2018 there were 2 eligible DBD donors and 2 eligible DCD donors for whom consent for donation was ascertained who are not included in this section because they were either over 80 years of age or did not die in a unit participating in the PDA.



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 North West 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 2013 - 31 March 2018

Patients not tested Patients tested

Table 3.1 Reasons given for neurological death tests not being performed,1 April 2017 - 31 March 2018

Biochemical/endocrine abnormality Clinical reason/Clinicians decision Continuing effects of sedatives Family declined donation Family pressure not to test Hypothermia Inability to test all reflexes Medical contraindication to donation Other Patient had previously expressed a wish not to donate Patient haemodynamically unstable Pressure on ICU beds	North West 6 9 3 4 5 - 2 - 6 1 7 -	UK 26 64 17 18 21 12 6 8 2 69 3
SN-OD advised that donor not suitable	-	9
Treatment withdrawn Unknown Total	4 - 47	9 3 278



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 2013 - 31 March 2018

Table 3.2 Reasons given why patient not referred to SNOD,1 April 2017 - 31 March 2018

	DB North	D	DC North	D
	West	UK	West	UK
Clinician assessed that patient was unlikely to become asystolic within 4 hours	-	-	3	7
Coroner/Procurator Fiscal Reason	1	1	2	3
Family declined donation after neurological testing	-	2	-	-
Family declined donation following decision to withdraw treatment	-	-	2	24
Family declined donation prior to neurological testing	-	2	-	3
Medical contraindications	-	1	10	110
Neurological death not confirmed	-	1	-	-
Not identified as a potential donor/organ donation not considered	3	10	46	320
Other	2	5	26	76
Patient had previously expressed a wish not to donate	-	-	-	2
Pressure on ICU beds	-	-	-	7
Reluctance to approach family	-	2	1	8
Thought to be medically unsuitable	1	1	22	106
Total	7	25	112	666



3.3 Contraindications

Table 3.3 shows the primary absolute medical contraindications to solid organ donation, if applicable, for potential DBD donors confirmed dead by neurological death tests and potential DCD donors in the team.

Table 3.3 Primary absolute medical contraindications to solid organ donation,1 April 2017 - 31 March 2018

	DBI North	D	DC North	D
	West	UK	West	υĸ
Active (not in remission) haematological malignancy (myeloma, lymphoma, leukaemia)	1	15	22	212
All secondary intracerebral tumours	-	-	-	2
Any active cancer with evidence of spread outside affected organ within 3 years of donation	5	41	92	605
Choriocarcinoma	-	-	-	1
Definite, probable or possible case of human TSE, including CJD and vCJD	-	-	-	2
HIV disease (but not HIV infection)	-	2	2	14
Human TSE, CJD or vCJD; blood relatives with CJD; other infectious neurodegenerative diseases	-	-	2 2	6
Melanoma (except completely excised Stage 1 cancers)	1	4	2	9
No transplantable organ in accordance with organ specific contraindications	6	19	82	306
Other neurodegenerative diseases associated with infectious agents	-	-	-	1
Primary intra-cerebral lymphoma	-	-	-	3
TB: active and untreated	-	3	-	17
Total	13	84	202	1178
If 'other', please contact your local SNOD or CLOD for more information, if	required.			



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 2017/18, when a SNOD was not present for the approach to the family to discuss organ donation, DBD and DCD consent rates were 36% and 18%, respectively, compared with DBD and DCD consent rates of 74% and 67%, respectively, when a SNOD was present.

Within the Trust/Health Boards 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 60% and 10%, respectively, compared with DBD and DCD consent rates of 81% and 66%, 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 2013 - 31 March 2018

¹ NICE, 2011. NICE Clinical Guidelines - CG135 [accessed 9 May 2018]

² NHS Blood and Transplant, 2012. Timely Identification and Referral of Potential Organ Donors - A Strategy for Implementation of Best Practice [accessed 9 May 2018]

³ NHS Blood and Transplant, 2013. Approaching the Families of Potential Organ Donors – Best Practice Guidance [accessed 9 May 2018]



3.5 Consent

Goal: The agreed 2017/18 national targets for DBD and DCD consent rates are 73% and 67%, respectively.

In 2017/18 the DBD and DCD consent rates in the team were 80% and 61%, respectively.





Table 3.4 Reasons given why consent was not ascertained,1 April 2017 - 31 March 2018

	DB North	D	DC North	D
	West	UK	West	UK
Families concerned about organ allocation	-	-	-	1
Family concerned donation may delay the funeral	-	2	-	1
Family concerned that organs may not be transplanted	-	2	1	11
Family did not believe in donation	1	13	-	29
Family did not want surgery to the body	8	52	7	72
Family felt it was against their religious/cultural beliefs	6	44	4	25
Family felt the body needs to be buried whole (unrelated to	3	39	1	24
religious or cultural reasons)				
Family felt the length of time for donation process was too long	3	23	25	128
Family felt the patient had suffered enough	1	15	5	57
Family had difficulty understanding/accepting neurological testing	-	3	-	-
Family wanted to stay with the patient after death	-	-	1	9
Family were divided over the decision	3	21	3	26
Family were not sure whether the patient would have agreed to	8	65	11	103
donation				
Other	-	24	10	79
Patient previously expressed a wish not to donate	8	91	17	162
Strong refusal - probing not appropriate	1	11	1	16
Total	42	405	86	743
If 'other', please contact your local SNOD or CLOD for more inform	nation, if req	uired.		



3.6 Solid organ donation

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Goal: NHSBT is committed to supporting transplant units to ensure as many organs as possible are safely transplanted. The strategy for achieving this, including steps to minimising warm ischaemic injury in proceeding DCD donors, is set out in NHSBT Taking Organ Utilisation to 2020⁴.

	DB North	D	DC North	D
	West	UK	West	UM
Cardiac Arrest	-	-	-	6
Coroner/Procurator Fiscal refusal	4	19	1	15
amily changed mind	-	4	3	25
amily placed conditions on donation	-	1	-	-
General instability	3	17	11	36
ogistic reasons	1	1	-	1
Organs deemed medically unsuitable by recipient centres	8	40	9	14
Organs deemed medically unsuitable on surgical inspection	2	17	2	8
Dther	2	3	10	35
Positive virology	1	9	1	9
Prolonged time to asystole	-	-	24	22
Total Total	21	111	61	502

 $^{\rm 4}$ NHS Blood and Transplant, 2017.

Taking Organ Utilisation to 2020 [accessed 9 May 2018]



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 North West 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 2017 - 31 March 2018



When compared with UK performance, the performance within the Trust/Health Boards 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 2017 - 31 March 2018

When compared with UK performance, the performance within the Trust/Health Boards in the team was average (bronze) 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 2017 - 31 March 2018

When compared with UK performance, the performance within the Trust/Health Boards in the team was exceptional (gold) for Specialist Nurse presence when approaching families to discuss organ donation.



4.4 Consent

Goal: The agreed 2017/18 national targets for DBD and DCD consent rates are 73% and 67%, respectively.

Figure 4.4 Funnel plot of consent rate, 1 April 2017 - 31 March 2018



When compared with UK performance, the consent rate within the Trust/Health Boards 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 2017 - 31 March 2018

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
Aintree Univers 13	ity Hospital 8	s NHS Foundation 62	on Trust 13	100	8	8	8	8	-	8	-	6
Alder Hey Child 8	dren's NHS 2	Foundation Trus -	t 7	-	2	2	2	2	-	2	-	1
Betsi Cadwalad 24	dr University 22	r Health Board 92	24	100	22	18	18	18	100	13	72	10
Blackpool Teac 6	hing Hospit 5	tals NHS Founda -	ation Trust 5	-	5	4	4	4	-	4	-	4
Bolton NHS Fo 8	undation Tr 8	ust -	8	-	8	8	7	7	-	7	-	7
Countess Of C 6	hester Hosj 6	oital NHS Found	ation Trust 6	-	6	5	5	5	-	4	-	4
East Cheshire	NHS Trust 0	-	0	-	0	0	0	0	-	0	-	0
East Lancashin 14	e Hospitals 13	NHS Trust 93	14	100	13	12	12	12	100	9	75	9
Isle of Man 2	2	-	1	-	2	2	1	1	-	0	-	0
Lancashire Tea 29	aching Hosp 25	itals NHS Found 86	dation Trus 29	t 100	25	24	23	23	100	17	74	14
Liverpool Heart 1	and Chest	Hospital NHS Fo	oundation 1	Trust -	1	1	1	1	-	1	-	1
Manchester Ur 24	niversity NH 20	IS Foundation Tr 83	ust 23	96	20	20	16	15	94	12	75	10
Mid Cheshire F 7	lospitals NF 5	IS Foundation Ti -	rust 7	-	5	5	5	5	-	4	-	3
Pennine Acute	Hospitals N 15	IHS Trust 83	18	100	15	14	14	13	93	13	93	11
Royal Liverpoo 11	l and Broad	green University 64	Hospitals 10	NHS Trust 91	7	6	6	5	-	4	-	3
Salford Royal N 41	VHS Founda 36	ation Trust 88	41	100	36	35	33	33	100	25	76	24
Southport and	Ormskirk H 1	ospital NHS Trus -	st 2	-	1	1	1	1	-	1	-	1
St Helens and 1	Knowsley H 13	ospitals NHS Tri 93		100	13	13	. 11	10	91	8	73	8



Table 5.1 Patients who met the DBD referral criteria - key numbers and rates,1 April 2017 - 31 March 2018

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
Stockport NHS		n Trust	_			_						
3	2	-	2	-	2	2	2	1	-	1	-	1
Tameside Hos	pital NHS F	oundation Trus	t									
10	8	80	9	90	8	8	8	8	-	7	-	4
The Walton Ce	entre NHS F	oundation Trus	t									
27	25	93	. 27	100	24	23	22	22	100	18	82	17
I Iniversity Hos	nitals of Mr	orecambe Bay I	HS Found	ation Trust								
5	4	- -	5	-	3	3	3	3	-	3	-	3
Warrington an	d Halton Ho	spitals NHS Fo	undation Tr	ust								
2	2	- -	2	-	2	2	2	2	-	2	-	2
Wirrol I Inivoro	ity Toophing	g Hospital NHS	Foundation	Truct								
8	7	vospilai iv	8	-	7	7	7	7	-	7	-	6
	A.C											
vvrignungton, 1	vvigan and L	eigh NHS Four	idation Trus	T						0		0

Table 5.2 Patients who met the DCD referral criteria - key numbers and rates,1 April 2017 - 31 March 2018

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
/ Hospitals 1 50	NHS Foundatior 83	n Trust 56	47	12	10	83	6	50	2
en's NHS Fo	oundation Trust								
19	61	25	20	7	3	-	3	-	2
University H 74	lealth Board 96	76	45	14	13	93	8	57	3
ing Hospital									
24	96	25	18	8	8	-	6	-	3
ndation Trus 33	t 87	36	30	11	10	91	8	73	4
ester Hospita 25	al NHS Foundat 81	<i>ion Trust</i> 31	24	1	1	-	1	-	1
HS Trust									
7	-	8	5	2	2	-	1	-	1
Hospitals N 31	HS Trust 97	29	25	12	11	92	7	58	5
1	-	4	2	0	0	-	0	-	0
hing Hospita 82	als NHS Founda 98	tion Trust 71	57	23	22	96	14	61	9
			20	4	4		3	_	1
			23	4	4	-	5	-	1
rersity NHS 71	Foundation Trus 90	st 76	70	21	21	100	13	62	7
		st 24	13	6	6	_	2	_	0
	referred / Hospitals 1 50 en's NHS Fo 19 University H 74 ing Hospitals 24 ind Hospitals 24 ind ation Trus 23 ester Hospitals 1 Hospitals N 31 1 hing Hospitals 82 nd Chest Ho 39 rersity NHS 71	referred rate (%) r Hospitals NHS Foundation 50 83 en's NHS Foundation Trust 19 61 University Health Board 74 96 ing Hospitals NHS Foundati 24 96 ndation Trust 33 87 ester Hospital NHS Foundat HS Trust 7 - Hospitals NHS Trust 31 97 1 - hing Hospitals NHS Foundati 82 98 Ind Chest Hospital NHS Foundation Trust 39 100 rersity NHS Foundation Trust 71 90	Patients referredDCD referral rate (%)treatment was withdrawn/ HospitalsNHS Foundation 83Trust 56508356en'sNHS Foundation 6125UniversityHealth 9676ingHospitalsNHS Foundation 74Trust 96249625indation 3387338736esterHospitalsNHS Foundation 74249625indation 249625indation 258131HS Trust 7-8HospitalsNHS Foundation 77291-4hing 829871ind ChestHospitalsNHS Foundation 71ind 903232rersityNHS Foundation 7176spitalsNHS Foundation 7076	Patients referredDCD referral rate (%)treatment was treatment was withdrawnEligible DCD donors/ Hospitals NHS Foundation Trust 50835647en's NHS Foundation Trust 19612520University Health Board 74967645ring Hospitals NHS Foundation Trust 24962518addition Trust 24962518addition Trust 25813124MS Trust 319729251-42hing Hospitals NHS Foundation Trust 25813124MS Trust 319729251-42hing Hospitals NHS Foundation Trust 31987157nd Chest Hospital NHS Foundation Trust 391003229rersity NHS Foundation Trust 397670spitals NHS Foundation Trust 71907670	Patients referredDCD referral rate (%)treatment was withdrawnEligible DCD donorsdonors family were approached// Hospitals 5083564712en's S NHS Foundation Trust 196125207University 7496764514ing Hospitals 249625188addition 3387363011ester 40749625188addition 3387363011ester 4074972925121-420hing Hospitals 258131241HS Trust 7-8521-420hing Hospitals 31972925121-420hing Hospitals 8298715723nd Chest Hospital 3910032294ersity 7190767021spitals 8Foundation Trust 7190767021	Patients 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Table 5.2 Patients who met the DCD referral criteria - key numbers and rates,1 April 2017 - 31 March 2018

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
Pennine Acute	Hospitals NH 69	IS Trust 97	64	49	17	15	88	8	47	2
Boyal Liverneed	l and Broadar	oon University I	Hospitals NHS 7	-ru ot						
84	68	81	64	55	10	5	50	2	20	1
Salford Royal N	IHS Foundati	on Trust								
55	55	100	43	36	28	27	96	19	68	14
Southport and C	Ormskirk Hos	spital NHS Trust								
6	4	-	5	5	1	1	-	0	-	0
St Helens and F 54	Knowsley Hos 44	spitals NHS Trus 81	st 47	34	9	9	-	8	-	6
Stockport NHS			12	11	F	-		-		
12	10	83	12	11	5	5	-	5	-	4
Tameside Hosp 20	oital NHS Fou 14	Indation Trust 70	18	15	5	5	-	4	-	1
The Walton Cer	ntre NHS Fou	undation Trust								
25	25	100	24	20	12	12	100	8	67	5
University Hosp 27	pitals of More 23	cambe Bay NH 85	S Foundation Tr 24	ust 13	5	4	-	3	-	1
Warrington and	Halton Hosp	itals NHS Found	dation Trust							
34	32	94	30	14	0	0	-	0	-	0
Wirral Universit	ty Teaching H 10	lospital NHS Fo 59	undation Trust 16	5	1	1	-	0	-	0
				č	•			· ·		· ·
Wrightington, W	Vigan and Lei 13	gh NHS Founda 65	tion Trust 18	14	8	7	-	7	-	3

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 2017/18 there were 72 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 North West 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 2017 - 31 March 2018

	DBD	DCD		Deceased donors		
	North West	UK	North West	UK	North West	UK
Patients meeting organ donation referral criteria ¹	13	79	37	192	42	244
Referred to Organ Donation Service	11	74	23	158	28	207
Referral rate %		94%		82%		85%
Neurological death tested	5	53				
Testing rate %		67%				
Eligible donors ²	5	48	26	150	31	198
Family approached	4	38	8	67	12	105
Family approached and SNOD present	4	28	4	46	8	74
% of approaches where SNOD present		74%		69%		70%
Consent ascertained	3	23	4	22	7	45
Consent rate %		61%		33%		43%
Actual donors (PDA data)	2	21	3	13	5	34
% of consented donors that became actual donors		91%		59%		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



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 2013 - 31 March 2018



Patients not tested Patients tested

Table 6.2 Reasons given for neurological death tePICUs,1 April 2017 - 31 March 2018	sts not being performe	ed in
	North West	UK
Biochemical/endocrine abnormality	3	4
Clinical reason/Clinicians decision	1	6
Continuing effects of sedatives	2	4
Family declined donation	1	1
Family pressure not to test	-	1
Medical contraindication to donation	-	1
Other	-	2
Patient haemodynamically unstable	1	5
SN-OD advised that donor not suitable	-	1
Unknown	-	1
Total	8	26



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.



Figure 6.2 Number of patients meeting referral criteria in PICUs, 1 April 2013 - 31 March 2018

Table 6.3 Reasons given why patient not referred to Organ Donation Service in PICUs,1 April 2017 - 31 March 2018

	DB North	D	DCD North		
	West	UK	West	UK	
Coroner/Procurator Fiscal Reason	1	1	1	1	
Family declined donation after neurological testing	-	2	-	-	
Family declined donation following decision to withdraw treatment	-	-	1	2	
Medical contraindications	-	-	-	3	
Neurological death not confirmed	-	1	-	-	
Not identified as a potential donor/organ donation not considered	-	-	1	12	
Other	1	1	10	12	
Thought to be medically unsuitable	-	-	1	4	
Total	2	5	14	34	



6.4 Contraindications in PICUs

Table 6.4 shows the primary absolute medical contraindications to solid organ donation in PICUs, if applicable, for potential DBD donors confirmed dead by neurological death tests and potential DCD donors in the team.

Table 6.4 Primary absolute medical contraindications to solid organ donation in PICUs,1 April 2017 - 31 March 2018

	DBI North	C	DC North	D
	West	UK	West	UK
Active (not in remission) haematological malignancy (myeloma, lymphoma, leukaemia)	-	1	1	6
All secondary intracerebral tumours	-	-	-	1
Any active cancer with evidence of spread outside affected organ within 3 years of donation	-	1	-	7
No transplantable organ in accordance with organ specific contraindications	-	-	4	9
Total	-	2	5	23
If 'other', please contact your local SNOD or CLOD for more i	nformation, if r	equired.		



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 2013 - 31 March 2018





6.6 Consent for patients in PICUs

Goal: The agreed 2017/18 combined adult and paediatric national targets for DBD and DCD consent rates are 73% and 67%, respectively.

In 2017/18 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 2013 - 31 March 2018

Table 6.5 Reasons given why consent was not ascertained for PICU patients, 1 April 2017 - 31 March 2018

	DB	D	DCD North		
	North				
	West	UK	West	U	
Families concerned about organ allocation	-	-	-	1	
Family did not want surgery to the body	-	1	-	12	
Family felt it was against their religious/cultural beliefs	1	3	-	1	
Family felt the body needs to be buried whole (unrelated to	-	-	-	3	
religious or cultural reasons)					
Family felt the length of time for donation process was too long	-	1	-	4	
Family felt the patient had suffered enough	-	2	-	10	
Family wanted to stay with the patient after death	-	-	-	1	
Family were divided over the decision	-	1	-	1	
Other	-	5	4	12	
Strong refusal - probing not appropriate	-	2	-	-	
Total	1	15	4	4	



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6.7 Solid organ donation in PICUs

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Goal: NHSBT is committed to supporting transplant units to ensure as many organs as possible are safely transplanted. The strategy for achieving this, including steps to minimising warm ischaemic injury in proceeding DCD donors, is set out in NHSBT Taking Organ Utilisation to 2020

	DB North	D	DC North	D
	West	UK	West	UK
Coroner/Procurator Fiscal refusal	1	1	_	2
Family changed mind	-	-	-	3
ogistic reasons	-	-	-	1
Drgans deemed medically unsuitable by recipient centres	-	-	1	1
Positive virology	-	1	-	-
Prolonged time to asystole	-	-	-	2
Total	1	2	1	9



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 ⁵ 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.



Figure 7.1 Number of patients meeting referral criteria that died in the ED, 1 April 2013 - 31 March 2018

Patients not referred Patients referred

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.





SNOD not present SNOD present

⁵ NHS Blood and Transplant, 2016.

Organ Donation and the Emergency Department [accessed 9 May 2018]



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 2016 using the average number of donors in 2014/15 and 2015/16, 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 proceeding donors per year	33
Level 2	5-12 proceeding donors per year	45
Level 3	3-5 proceeding donors per year	47
Level 4	<3 proceeding donors per year	46

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 nui ' - 31 Marc			e 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	1012	893	88	1002	99	878	843	791	753	95	560	71	510
Level 2	416	352	85	413	99	341	328	302	283	94	220	73	192
Level 3	322	272	84	320	99	265	255	240	230	96	184	77	165
Level 4	204	159	78	194	95	157	156	138	128	93	102	74	88

Table 8.3 National DCD key numbers and rate by Trust/Board level,1 April 2017 - 31 March 2018

	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 DBD donors
Level 1	2612	2372	91	2384	1906	978	841	86	596	61	349
Level 2	1510	1342	89	1355	1060	394	342	87	233	59	122
Level 3	1407	1253	89	1233	980	326	274	84	199	61	100
Level 4	752	648	86	668	510	160	134	84	87	54	42



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 2017 - 31 March 2018

When compared with UK performance, the performance within the Trust/Health Boards in the team was average (bronze) for referral of potential DBD organ donors and average (bronze) for referral of potential DCD organ donors to NHS Blood and Transplant's Organ Donation Service.



Figure 8.2 Funnel plots of SNOD presence rates, 1 April 2017 - 31 March 2018

When compared with UK performance, the performance within the Trust/Health Boards in the team was good (silver) and good (silver) 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 2017 - 31 March 2018



When compared with UK performance, the consent rate within the Trust/Health Boards in the team was good (silver) 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
All deaths in critical and emergency care in patients aged 80 and under		1 April 2013 onwards

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

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Consent/authorisation rate where SNOD was present

Percentage of formal organ donation discussions with families or nominated/appointed representatives where a 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.



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.

2 Key rates in potential for org	an donation
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	donation
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.

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.

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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.