



Detailed Full Report Actual and Potential Organ Donors 1 April 2016 - 31 March 2017

Eastern

Organ Donation Services Team



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- Appendix A.2 contains definitions of terms and abbreviations used throughout this report and summarises the main changes made to the PDA on 1 April 2013.
- 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/odt/potential-donor-audit/
- · Please refer any queries or requests for further information to your local Specialist Nurse Organ Donation (SN-OD)

Source

NHS Blood and Transplant: UK Transplant Registry (UKTR), Potential Donor Audit (PDA) and Referral Record. Issued May 2017 based on data reported at 8 May 2017.



1. Donor Outcomes

A summary of the number of donors, patients transplanted, average number of organs donated per donor and organs donated, obtained from the UK Transplant Registry

1.1 Donor outcomes

Between 1 April 2016 and 31 March 2017, the Eastern team had 131 deceased solid organ donors, resulting in 307 patients receiving a transplant. 428 organs were donated but 89 were not transplanted. Additional information is shown in Tables 1.1.1 and 1.1.2, along with comparison data for 2015/16. An additional chart showing figures for the previous ten periods has also been included for comparison. If you would like further information, please contact your local Specialist Nurse - Organ Donation (SN-OD).

Table 1.1.1Donors,1April 2		17 (1 April 2015 - 31		mparison)	
Donor type	Number of donors	Number of patients transplanted	Average numbe donated pe Eastern		
DBD DCD	57 (62) 74 (79)	162 (188) 145 (152)	3.6 (4.1) 3.0 (2.9)	3.8 (3.9) 2.8 (2.8)	
DBD and DCD	131 (141)	307 (340)	3.3 (3.4)	3.4 (3.4)	

Table 1.1.2 Organs transplanted by type,1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)												
Donor type	Kid	ney	Panc		nber of Liv	organs er	transpl Hea		y type Lui	ng	Sma	ll bowel
DBD DCD DBD and DCD	99 117 216	(101) (117) (218)	13 5 18	(21) (10) (31)	45 29 74	(51) (28) (79)	7 4 11	(17) (13) (30)	17 3 20	(29) (3) (32)	0 0 0	(4) (0) (4)

Figure 1.1.1 Number of donors and patients transplanted each year



Data in this section have been obtained from the UK Transplant Registry. Section 2 onwards reports on data obtained from the national Potential Donor Audit (PDA).



2. Key Rates on

Potential for Organ Donation

A summary of the key rates on the potential for organ donation, obtained from the national Potential Donor Audit (PDA)

2.1 Key rates

Two radar charts are displayed in Figure 2.1.1 showing specific percentage measures of potential donation activity in 2016/17 for the Eastern Team compared with national data for the UK, and compared with 2015/16 activity. This information is displayed in an alternative format as bar charts in Appendix A.1. The colour of the rate label indicates the Team performance as shown in the appropriate funnel plot using the gold, silver, bronze, amber, and red (GoSBAR) scheme.





Eastern, 2016/17 — UK, 2016/17 – – Eastern, 2015/16











2.2 Key numbers, rates and comparison with national targets

The percentages shown in Figure 2.1.1 are also shown in Table 2.2.1 along with the number of patients at each stage. A national comparison and a time period comparison are again provided. A comparison against national DBD and DCD targets has been applied by highlighting the key rates for your Team as gold, silver, bronze, amber, or red. See Appendix A.4 for ranges used. Note that caution should be applied when interpreting percentages based on small numbers.

Table 2.2.1 Key numbers, rates and comparison with national targets,1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)

		2016/17	DBD	2015	/16		2016/17	DCD	2015/1	6
	Target	Eastern	UK	Eastern	UK	Target	Eastern	UK	Eastern	υĸ
Patients meeting organ donation referral criteria ¹		112	1,775	131	1,747		657	6,204	667	6,500
Referral rate % Referred to SN-OD		B 97% 109	97%	97% 127	96%	В	84% 549	86%	91% 604	83%
Referred to SN-OD		109	1,728	127	1,684		549	5,308	604	5,402
Neurological death tested		84	1,522	106	1,477					
Testing rate %		A 75%	86%	81%	85%					
Eligible donors ²		84	1,444	104	1,404		444	4,237	496	4,205
Family approached		81	1,329	96	1,296	_	192	1,815	220	1,942
Approach rate %		S 96%	92%	92%	92%	в	43%	43%	44%	46%
Family approached and SN-OD involved		74	1,236	82	1,180	_	154	1,460	181	1,511
% of approaches where SN-OD involved		B 91%	93%	85%	91%	В	80%	80%	82%	78%
Consent ascertained		63	917	71	891	_	114	1,055	129	1,113
Consent rate %	72%	B 78%	69%	74%	69%	68% <mark>B</mark>	59%	58%	59%	57%
Expected consents based on ethnic mix		56		66			109		122	
Expected consent rate based on ethnic mix %		71%		71%			60%		59%	
Actual donors from each pathway		56	819	62	786		72	565	79	564
% of consented donors that became actual donors		89%	89%	87%	88%		63%	54%	61%	51%
Colour key - comparison with		G Gold		S Silver		В	Bronze			
funnel plot confidence limits		A Amber		R Red						

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 from 1 April 2016 to 31 March 2017 there was 1 eligible DBD donor and 6 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.



Stages Where Opportunities were Lost

Stages at which potential donors lost the opportunity to become actual donors

3.1 Overview of lost opportunities

Of the 112 potential DBD donors with suspected neurological death, 56 proceeded to donation and 56 did not proceed. Of the 444 eligible DCD donors, 72 proceeded to donation and 372 did not proceed.

Figure 3.1.1 gives an overview of the various stages where opportunities were lost. There are four charts showing DBD and DCD stages separately for the Eastern team and the UK, all of which contain a comparison with 2015/16. The number of potential donors is shown on the vertical axis for each chart and at each 'step' the proportion of potential donors lost at that stage is displayed. Caution should be applied when interpreting percentages based on small numbers. Further information is available for individual Trusts in Tables 4.1.1 and 4.1.2 in Section 4.

Figure 3.1.1 Stages at which potential donors lost the opportunity to become actual donors, 1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)





3.2 Neurological death testing

A funnel plot of neurological death testing rates is displayed in Figure 3.2.1. The goal is to ensure that neurological death tests are performed wherever possible. For information about how to interpret the funnel plots, please see Appendix A.4.





Table 3.2.1 shows the reasons why neurological death tests were not performed, if applicable, for your Team. Patients for whom the reason for not performing neurological tests is given as 'cardiac arrest despite resuscitation', 'brainstem reflexes returned', or 'neonates - less than 2 months post term' are now excluded from the calculation of the neurological death testing rate.

Table 3.2.1 Reasons given for neurological death tests not being performed, 1 April 2016 - 31 March 2017											
	Ν	%									
Family declined donation	4	14.3									
Family pressure not to test	1	3.6									
Treatment withdrawn	3	10.7									
Patient haemodynamically unstable	8	28.6									
Continuing effects of sedatives	3	10.7									
Inability to test all reflexes	1	3.6									
Clinical reason/Clinicians decision	5	17.9									
SN-OD advised that donor not suitable	1	3.6									
Other	2	7.1									
Total	28	100.0									
If 'other', please contact your local SN-OD for more information, if re	equired.										



3.3 Referral to Specialist Nurse - Organ Donation (SN-OD)

DBD and DCD donation.

Funnel plots of DBD and DCD referral rates are displayed in Figure 3.3.1. Every patient who meets the referral criteria should be identified and referred to the SN-OD, as per NICE CG135¹ and NHS Blood and Transplant (NHSBT) Best Practice Guidance on timely identification and referral of potential organ donors².



Figure 3.3.1 Funnel plots of referral rates, 1 April 2016 - 31 March 2017

Table 3.3.1 shows the reasons why patients were not referred to a SN-OD, if applicable, for your Team.

		DBD		DCD
	Ν	%	Ν	%
Not identified as a potential donor/organ donation not considered	2	66.7	52	48.1
Family declined donation following decision to withdraw treatment	-	-	1	0.9
Medical contraindications	-	-	15	13.9
Thought to be medically unsuitable	-	-	13	12.0
Pressure on ICU beds	-	-	1	0.9
Clinician assessed that patient was unlikely to become asystolic vithin 4 hours	-	-	1	0.9
Dther	1	33.3	25	23.1
Fotal	3	100.0	108	100.0



Early referral to the SN-OD is important to enable the opportunity for donation to be maximised. Early referral triggers should be in place to ensure all donors are identified to the SN-OD to allow the family the option of organ donation. For patients who were referred, Table 3.3.2 shows the timing of the first contact with the SN-OD by the clinical staff. All patients meeting the referral criteria should be referred as early as possible to enable attendance of the SN-OD to assess suitability for donation and ensure that a planned approach for consent to the family is made in line with NICE CG135¹ and NHSBT Best Practice Guidance on approaching the families of potential organ donors³.

Table 3.3.2 Timing of first contact with a SN-OD by clinical staff, for patients who were referred,1 April 2016 - 31 March 2017

		DBD		DCD
	N	%	N	%
Before sedation stopped	5	4.4	17	3.1
Absence of one or more cranial nerve reflexes and GCS of 4 or less not explained by sedation	55	48.7	24	4.4
No sedation or after sedation stopped, decision made to carry out BSD tests, before 1st set of tests	30	26.5	4	0.7
After 1st set and before 2nd set of BSD tests	1	0.9	-	0.0
After neurological death confirmation	-	0.0	1	0.2
Clinical decision to withdraw life-sustaining treatment has been made, before treatment withdrawn	21	18.6	491	89.4
After treatment withdrawn	1	0.9	12	2.2
Not reported	-	0.0	-	0.0
Total	113	100.0	549	100.0
		. .		

NB, 22 patients with suspected neurological death also went on to meet the referral criteria for DCD donation, and are therefore included twice.

¹ NICE, 2011. *NICE Clinical Guidelines - CG135* [online]. Available at: https://www.nice.org.uk/guidance/cg135 [accessed 8 May 2017]

² NHS Blood and Transplant, 2012. *Timely Identification and Referral of Potential Organ Donors - A Strategy for Implementation of Best Practice* [online]. Available at: http://www.odt.nhs.uk/pdf/timely-identification-and-referral-potential-donors.pdf> [accessed 8 May 2017]

³ NHS Blood and Transplant, 2013. *Approaching the Families of Potential Organ Donors – Best Practice Guidance* [online]. Available at:



3.4 Contraindications

Table 3.4.1 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 your Team.

Table 3.4.1 Primary absolute medical contraindications to solid organ donation, 1 April 2016 - 31 March 2017 DBD DCD Any cancer with evidence of spread outside affected organ (including lymph nodes) 53 _ within 3 years Melanoma (except completely excised Stage 1 cancers) 1 -Active haematological malignancy (myeloma, lymphoma, leukaemia) 14 _ TB: active and untreated _ 1 HIV disease (but not HIV infection) 1 _ No transplantable organ in accordance with organ specific contraindications 9 _ Total 79



3.5 Family approach

Funnel plots of DBD and DCD family approach rates are displayed in Figure 3.5.1. All families of eligible donors should be formally approached for a decision about organ donation.



Figure 3.5.1 Funnel plots of approach rates, 1 April 2016 - 31 March 2017

Table 3.5.1 shows the reasons why patients were not formally approached to discuss organ donation, if applicable, for your Team.

	I	DBD	I	DCD
	Ν	%	Ν	%
Family stated that they would not support donation before they were formally approached	-	-	2	0.8
Family untraceable	-	-	4	1.6
Family considered too upset to approach	-	-	1	0.4
Coroner / Procurator Fiscal refused permission	1	33.3	-	-
Patient's general medical condition	2	66.7	119	47.2
Other medical reason	-	-	22	8.7
Resource failure	-	-	1	0.4
Patient outside age criteria	-	-	2	0.8
Other	-	-	40	15.9
Not identified as a potential donor / organ donation not considered	-	-	61	24.2
Total	3	100.0	252	100.0



3.6 Proportion of approaches involving a SN-OD

In the UK, in 2016/17, when a SN-OD was not involved in the approach to the family for a decision about organ donation, DBD and DCD consent rates were 39% and 25%, respectively, compared with DBD and DCD consent rates of 71% and 66%, respectively, when a SN-OD was involved. NICE CG135¹ and NHSBT Best Practice Guidance on approaching the families of potential organ donors³ reinforces that every approach to those close to the patient should be planned with the multidisciplinary team (MDT), should involve the SN-OD and should be clearly planned taking into account the known wishes of the patient. The 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.

Funnel plots of DBD and DCD SN-OD involvement rates are displayed in Figure 3.6.1. A SN-OD should be actively involved in the formal approach to the family and an approach plan made and followed.







3.7 Consent

Funnel plots of DBD and DCD consent rates are displayed in Figure 3.7.1. The 2016/17 national targets of 72% and 68% for DBD and DCD, respectively, are also shown, for information.

Figure 3.7.1 Funnel plot of consent rates, 1 April 2016 - 31 March 2017



Table 3.7.1 shows the reasons why families did not support donation, if applicable, for your Team.

		DBD		DCD
	Ν	%	Ν	%
Patient previously expressed a wish not to donate	4	22.2	17	21.8
amily were not sure whether the patient would have agreed to donation	1	5.6		11.5
amily did not believe in donation	3	16.7	2	2.6
amily felt it was against their religious/cultural beliefs	1	5.6	1	1.3
amily were divided over the decision	1	5.6	2	2.6
amily felt the patient had suffered enough	2	11.1	12	15.4
amily did not want surgery to the body	1	5.6	9	11.5
amily wanted to stay with the patient after death	-	-	1	1.3
amily felt the length of time for donation process was too long	-	-	15	19.2
amily felt the body needs to be buried whole (unrelated to religious or ultural reasons)	1	5.6	3	3.8
trong refusal - probing not appropriate	4	22.2	4	5.1
ther	-		3	3.8
otal	18	100.0	78	100.0



3.8 Reasons why solid organ donation did not occur

Table 3.8.1 shows the reasons why solid organ donation did not occur, if applicable, for your Team.

		DBD	DCD		
	Ν	%	Ν	%	
Family changed mind	1	14.3	-		
Coroner/ Procurator Fiscal refusal	1	14.3	3	7.1	
Organs deemed medically unsuitable by recipient centres	2	28.6	15	35.7	
Organs deemed medically unsuitable on surgical inspection	1	14.3	1	2.4	
Prolonged time to asystole	-	-	21	50.0	
Positive virology	2	28.6	1	2.4	
Other	-	-	1	2.4	
Total	7	100.0	42	100.0	



4. PDA data by Trust

A summary of key numbers and rates from the PDA by Trust

4.1 Key numbers and rates by Trust

Tables 4.1.1 and 4.1.2 show the key numbers and rates for patients who met the DBD and/or DCD referral criteria, respectively. Caution should be applied when interpreting percentages based on small numbers.

Patients where neurological	Patients	Neurological	Patients where neurological death was suspected that were	DBD	Patients confirmed dead by	Eligible DBD donors (Death confirmed by neurological tests and no absolute	Eligible DBD donors whose	DBD	Querrat	DBD	Actual DBE and DCD donors from eligible	DBD SN-OE
death was suspected	that were tested	death testing rate (%)	referred to SN-OD	referral rate (%)	neurological testing	contra- indications)	family were approached	approach rate (%)	Consent ascertained	consent rate (%)	DBD donors	involvement rate (%)
1 April 2016 t	o 31 March	2017										
			tals NHS Foun									
6	3	50	5	83	3	3	3	100	3	100	3	100
Bedford Hosp			0	100	0	0	0	400		50	4	400
3	2	67	3	100	2	2	2	100	1	50	1	100
Cambridge Ur 43	niversity Ho 29	spitals NHS Fo 67	oundation Trusi 43	t 100	29	29	28	97	19	68	17	93
Colchester Ho 3	ospital Unive 3	ersity NHS Fou 100	Indation Trust 3	100	3	3	3	100	3	100	3	100
East and Nort 4	h Hertfordsh 4	nire NHS Trust 100	4	100	4	4	4	100	4	100	4	100
Hinchingbrook 1	e Health Ca 1	are NHS Trust 100	1	100	1	1	1	100	1	100	1	100
lpswich Hospi	tal NHS Tru	st										
5	5	100	5	100	5	5	5	100	5	100	4	100
James Paget 3	University F 2	Hospitals NHS 67	Foundation Tri 3	ust 100	2	2	1	50	1	100	1	100
Kettering Gen	eral Hospita	l NHS Founda	tion Trust									
4	4	100	4	100	4	4	3	75	2	67	1	100
Luton and Dur 6	nstable Univ 5	ersity Hospital 83	NHS Foundat	<i>ion Trust</i> 100	5	5	5	100	3	60	3	100
Mid Essex Ho 3	ospital Servi 2	ces NHS Trus 67	t 3	100	2	2	2	100	2	100	2	50
Norfolk and N 9	orwich Univ	ersity Hospital 89	s NHS Founda 9	tion Trust 100	8	8	8	100	7	88	6	63
Papworth Hos 2	pital NHS F 1	oundation Trus 50	2	100	1	1	1	100	1	100	0	100
Peterborough 5	and Stamfo 2	rd Hospitals N 40	HS Foundation 3	n Trust 60	2	2	2	100	2	100	2	100
Southend Univ 7	versity Hosp 7	oital NHS Four 100	dation Trust 7	100	7	7	7	100	5	71	4	100
The Princess	Alexandra 4	Hospital NHS T	Frust									
2	Alexanura r 1	50 50	2	100	1	1	1	100	0	0	0	0



Table 4.1.1Patients who met the DBD referral criteria - key numbers and rates,1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)

Patients where neurological death was suspected 1	that were dea	wi neuro deat susp urological that th testing refer	rred to re	DBD eferral ite (%) 100	Patients confirmed dead by neurological testing 1	Eligible DBD donors (Death confirmed by neurological tests and no absolute contra- indications)	Eligible DBD donors whose family were approached 1	DBD approach rate (%) 100	Consent ascertained 1	DBD consent rate (%) 100	Actual DBD and DCD donors from eligible DBD donors 1	DBD SN-OD involvement rate (%) 100
West Hertford 1	lshire Hospitals I 1	NHS Trust 100	1	100	1	1	1	100	1	100	1	100
West Suffolk	NHS Foundation 3	Trust 75	4	100	3	3	3	100	2	67	2	100
1 April 2015 t	o 31 March 201	6 (for comparis	on purpose	es)								
Basildon and 8	Thurrock Univers 8	sity Hospitals N 100	HS Foundat 8	ion Trust 100	8	8	7	88	4	57	4	71
Bedford Hosp 0	ital NHS Trust 0	-	0	-	0	0	0	-	0	-	0	-
Cambridge Ui 38	niversity Hospita 27	ls NHS Foundat 71	tion Trust 36	95	27	27	25	93	17	68	16	76
Colchester Ho 3	ospital University 1	NHS Foundatio	on Trust 2	67	1	1	1	100	1	100	1	100
East and Nort 4	th Hertfordshire I 4	NHS Trust 100	4	100	4	4	3	75	3	100	2	100
Hinchingbrook 2	ke Health Care N 2	IHS Trust 100	2	100	2	2	2	100	2	100	1	100
Ipswich Hospi 3	ital NHS Trust 1	33	3	100	1	1	1	100	1	100	1	100
James Paget 2	University Hosp 0	itals NHS Found 0	dation Trust 2	100	0	0	0	-	0	-	0	-
Kettering Gen 14	eral Hospital NH 12	S Foundation Ti 86	rust 14	100	12	12	11	92	10	91	10	100
Luton and Dui 10	nstable Universit <u></u> 8	y Hospital NHS 80	Foundation 10	<i>Trust</i> 100	8	7	7	100	5	71	4	100
Mid Essex Ho	ospital Services I 10	NHS Trust 91	11	100	10	10	7	70	4	57	4	57
Norfolk and N 15	lorwich University 15	/ Hospitals NHS 100	S Foundation 15	n <i>Trust</i> 100	15	15	15	100	10	67	9	87
Papworth Hos 1	pital NHS Found 1	lation Trust 100	1	100	1	1	1	100	1	100	0	100
Peterborough 1	and Stamford H	ospitals NHS Fo 100	oundation Tr 0	ust 0	0	0	0	-	0	-	0	-
Southend Uni 6	versity Hospital I 5	NHS Foundation 83	n Trust 6	100	5	5	5	100	5	100	3	100
The Princess 2	Alexandra Hosp 1	ital NHS Trust 50	2	100	1	1	1	100	1	100	1	0
The Queen El	lizabeth Hospital, 2	King's Lynn NF 100	IS Foundation 2	on Trust 100	2	2	2	100	1	50	1	100
West Hertford 8	lshire Hospitals I 7	NHS Trust 88	8	100	7	7	7	100	5	71	4	100
West Suffolk	NHS Foundation	Trust 100	1	100	1	1	1	100	1	100	1	100



Table 4.1.2Patients who met the DCD referral criteria - key numbers and rates,1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)

Patients for whom imminent death was anticipated	Patients for whom imminent death was anticipated that were referred to SN-OD	DCD referral rate (%)	Patients for whom treatment was withdrawn	Eligible DCD donors (Imminent death anticipated and treatment withdrawn with no absolute contra- indications)	Eligible DCD donors whose family were approached	DCD approach rate (%)	Consent ascertained	DCD consent rate (%)	Actual DCD donors from eligible DCD donors	DCD SN-OD involvement rate (%)
1 April 2016 to	31 March 2017									
Basildon and T 29	hurrock Universi 24	ity Hospitals NF 83	IS Foundation 7 26	rust 25	12	48	10	83	3	100
Bedford Hospit 24	al NHS Trust 24	100	18	18	7	39	5	71	4	100
Cambridge Un 176	iversity Hospitals 126	NHS Foundati 72	on Trust 141	104	50	48	27	54	20	78
Colchester Ho 23	spital University 23	NHS Foundation 100	n Trust 20	18	8	44	5	63	4	50
East and North 41	Hertfordshire Ni 41	HS Trust 100	35	31	16	52	11	69	9	88
	e Health Care NF 12		13	10	4	40	2	50	2	100
Ipswich Hospita	al NHS Trust									
	21 Jniversity Hospit			17	6	35	4	67	3	100
43 Kettering Gene	43 ral Hospital NHS	100 S Foundation Tri	29 Jst	25	13	52	9	69	6	85
25	21	84	21	15	7	47	2	29	0	71
Luton and Dun 16	stable University 16	Hospital NHS 1 100	<i>−oundation Trus</i> 13	13	10	77	7	70	5	100
Mid Essex Hos 5	spital Services N 5	IHS Trust 100	3	2	2	100	1	50	0	100
Norfolk and No 49	rwich University 44	Hospitals NHS 90	Foundation True 40	st 39	26	67	17	65	9	73
Papworth Hosp 68	ital NHS Founda 55	ation Trust 81	57	51	4	8	1	25	0	50
Peterborough a 18	and Stamford Ho 16	spitals NHS Fo 89	undation Trust 13	12	6	50	4	67	3	83
Southend Univ 5	ersity Hospital N 3	HS Foundation 60	Trust 4	4	3	75	1	33	0	67
The Princess A 10	Alexandra Hospit 10	al NHS Trust 100	8	8	4	50	1	25	0	50
The Queen Eli. 23	zabeth Hospital, I 16	King's Lynn NH 70	S Foundation Ti 20	rust 17	4	24	2	50	1	50
ĺ	hire Hospitals N 28		26	23	7	30	4	57	3	71
	IHS Foundation 7		18	12	3	25	1	33	0	100
	21 31 March 2016			12	5	23	I		0	100
Basildon and T 45	hurrock Universi 40	ity Hospitals NF 89	IS Foundation 7 42	rust 36	12	33	6	50	2	75
Bedford Hospit 24	al NHS Trust 22	92	18	14	3	21	2	67	2	100
	iversity Hospitals				5	21	L	07	-	100



Table 4.1.2Patients who met the DCD referral criteria - key numbers and rates,1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)

Patients for whom imminem death was anticipated 166	Patients for whom imminent death was anticipated that were referred to SN-OD 151	DCD referral rate (%) 91	Patients for whom treatment was withdrawn 146	Eligible DCD donors (Imminent death anticipated and treatment withdrawn with no absolute contra- indications) 118	Eligible DCD donors whose family were approached 67	DCD approach rate (%) 57	Consent ascertained 41	DCD consent rate (%) 61	Actual DCD donors from eligible DCD donors 32	DCD SN-OD involvement rate (%) 75
Colchester Ho	spital University I 31	NHS Foundatio	on Trust 31	28	10	36	5	50	3	70
30	31	82	31	28	10	30	5	50	3	70
East and North 45	h Hertfordshire NI 45	HS Trust 100	37	33	18	55	11	61	5	100
			57	55	10	55		01	5	100
Hinchingbrook 15	e Health Care NF 13	IS Trust 87	15	12	6	50	2	33	1	83
		07	10	12	0	50	2		'	00
Ipswich Hospit 20	al NHS Trust 19	95	19	16	6	38	4	67	4	83
				10	5	55	+	07	Ŧ	
James Paget 46	University Hospita 46	als NHS Found 100	dation Trust 36	34	15	44	10	67	6	93
Kettering Gene 27	eral Hospital NHS 22	Foundation Ti 81	rust 20	16	5	31	2	40	0	60
Luton and Dun 34	stable University 31	Hospital NHS 91	Foundation Trus 30	st 24	13	54	6	46	1	85
Mid Essex Ho 11	spital Services Ni 8	HS Trust 73	9	9	4	44	3	75	1	75
Norfolk and No	orwich University	Hospitals NHS	Eoundation Tru	ist						
53	51	96	48	42	20	48	15	75	10	100
Papworth Hosp 38	oital NHS Founda 33	tion Trust 87	34	34	12	35	6	50	3	92
										-
Peterborough 15	and Stamford Hos 12	spitals NHS Fo 80	oundation Trust 11	10	5	50	3	60	2	100
Southend Univ 8	ersity Hospital Ni 6	HS Foundatior 75	n Trust 6	6	3	50	1	33	0	33
The Princess 7	Alexandra Hospita 11	al NHS Trust 92	8	6	0	0	0	-	0	-
The Queen Eli 15	zabeth Hospital, F 15	King's Lynn NF 100	IS Foundation T 15	rust 13	7	54	5	71	3	86
West Hertfords 38	shire Hospitals N 31	HS Trust 82	34	31	6	19	4	67	2	83
West Suffolk I 17	NHS Foundation 1 17	Trust 100	16	14	8	57	3	38	2	63

Tables 4.1.1 and 4.1.2 show the unit 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 Eastern team in 2016/17 there were 56 such patients.

It is acknowledged that the PDA does not capture all activity. In total there were 123 patients referred in 2016/17 who are not included in Section 2 onwards because they were either over 80 years of age or did not die in a unit participating in the PDA. 1 of these is included in Section 1 because they became a solid organ donor.



5. Paediatric ICU data

A summary of key rates from the PDA for Paediatric ICUs

5.1 PICU data

The UK average rates for paediatric ICUs are displayed on the radar charts along with the rates achieved by the paediatric ICUs covered by your Team. A comparison is also provided for the equivalent period last year. Caution should be applied when interpreting percentages based on small numbers. Note that neonatal ICUs have not been included.











Appendices

Appendix A.1 Bar charts of key rates

Figure A.1.1 shows the same information as the radar charts in Section 2 but in an alternative format. The bars show the latest rates for your Team. Purple lines have been superimposed to provide a comparison with the UK and turquoise dashed lines show the rates achieved by your Team in the equivalent period last year. The colour of the rate label indicates the Team performance as shown in the appropriate funnel plot using the gold, silver, bronze, amber, and red (GoSBAR) scheme.



Figure A.1.1 DBD and DCD key rates







Appendix A.2 Definitions

Data excluded	Patients who did not die on a critical care unit or an emergency department and patients aged over 80 years are excluded.				
Donors after brain death (DBD)					
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 (SN-OD)				
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: http://www.odt.nhs.uk/pdf/contraindications_to_organ_donation.pdf				
Family approached for formal organ donation discussion	Family of eligible DBD 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 op-out decision view the Organ Donor Register				
Consent / authorisation ascertained	Family supported expressed or deemed consent/authorisation, nominated/appointed representative gave consent, or where applicable the 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 SN-OD				
Approach rate	Percentage of eligible DBD families or nominated/appointed representatives approached for formal organ donation discussion				
Consent / authorisation rate	Percentage of families or nominated/appointed representatives approached for forma organ donation discussion where consent/authorisation was ascertained				
Expected consent / authorisation rate	Consent / authorisation rate adjusted for ethnicity case mix (white or BAME (black, asian and minority ethnic)), based on those patients whose family or nominated/appointed representative were approached to discuss organ donation where consent/authorisation was ascertained and patient ethnicity was known				
SN-OD involvement rate	Percentage of family or nominated/appointed representative approaches where a SN-OD was involved				
SN-OD consent / authorisation rate	Percentage of families or nominated/appointed representatives approached for formal organ donation discussion by a SN-OD where consented / authorisation for organ donation was ascertained				



Donors after circulatory death (DCI)
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 4 hours
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 SN-OD
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: http://www.odt.nhs.uk/pdf/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 op-out decision via the Organ Donor Register
Consent / authorisation ascertained	Family supported expressed or deemed consent/authorisation, nominated/appointed representative gave consent, or where applicable the family gave consent/authorisation
Actual DCD	DCD patients who became actual DCD as reported through the PDA
Referral rate	Percentage of patients for whom imminent death was anticipated who were discussed with the SN-OD
Approach rate	Percentage of eligible DCD families or nominated/appointed representatives approached for formal organ donation discussion
Consent / authorisation rate	Percentage of families or nominated/appointed representatives approached for formal organ donation discussion where consent/authorisation was ascertained
Expected consent / authorisation rate	Consent / authorisation rate adjusted for ethnicity case mix (white or BAME (black, asian and minority ethnic)), based on those patients whose family or nominated/appointed representative were approached to discuss organ donation where consent/authorisation was ascertained and patient ethnicity was known
SN-OD involvement rate	Percentage of family or nominated/appointed representative approaches where a SN-OD was involved
SN-OD consent / authorisation rate	Percentage of families or nominated/appointed representatives approached for formal organ donation discussion by a SN-OD where consented / authorisation for organ donation was ascertained
UK Transplant Registry (UKTR)	
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 number of donors. The maximum number of solid organs that can be donated are 7 for a DBD and 6 for a DCD.
Number of organs transplanted	Total number of organs transplanted by organ type

On 1 April 2013 significant changes were made to the PDA. The main changes that should be borne in mind, especially when making comparisons across time periods, are as follows:

- Upper age limit increased from 75 to 80 years.
- Cardiothoracic ICUs included.
- Changes to imminent death definition to be clear that death was anticipated within four hours.
- Contraindications brought in line with current practice.
- Terminology changes, eg 'potential donor' changed to 'eligible donor', for consistency with World Health Organisation definitions.



Appendix A.3 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 for the Eastern Team. The report covers the time period 1 April 2016 to 31 March 2017 and data from 1 April 2015 to 31 March 2016 are also provided in certain sections for comparison purposes.

As part of the PDA, patients aged over 80 years of age and those who did not die on a critical care unit or an emergency department are not audited nationally and are therefore excluded from the majority of this report. Data from neonatal Intensive Care Units have also been excluded from this report. In addition, some information from this time period 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 UK Transplant Registry, as appropriate.

Some percentages in this report were calculated using small numbers and should therefore be interpreted with caution.

Please refer any queries or requests for further information to your local Specialist Nurse - Organ Donation (SN-OD)



Appendix A.4 Table and figure description

Each table and figure displayed throughout the report is described below to aid interpretation.

1.1 Donor outc Table 1.1.1	omes 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 Team. Results have been displayed separately for donors after brain death (DBD) and donors after circulatory death (DCD).
Table 1.1.2	The number of organs transplanted by type from donors within your Team has been obtained from the UKTR. Further information can be obtained from your local Specialist Nurse – Organ Donation (SN-OD), specifically regarding organs that were not transplanted. Results have been displayed separately for DBD and DCD.
Figure 1.1.1	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.
2.1 Key rates Figure 2.1.1	Radar charts are displayed showing specific percentage measures of potential donation activity for your Team compared with national data for the UK, and compared with an equivalent time period from the previous financial year, using data from the Potential Donor Audit (PDA). The DBD charts show the percentage of patients tested for neurological death, and all four charts also show the referral rates, approach rates, proportion of approaches involving a SN-OD and observed consent/authorisation rates. Appendix A.2 gives a fuller explanation of terms used. The blue shaded area represents your Team, and the national rates are superimposed as a solid purple line for comparison. The equivalent period from the previous year is superimposed as a dashed turquoise line. The fuller the blue shaded area the better. Note that 0% and 'not applicable (N/A)' rates appear the same. The rates have therefore been displayed on the spokes of the radar charts. The rates are coloured using the gold, silver, bronze, amber, and red (GoSBAR) colour scheme to show the performance of one Trust/Board as reflected in the plots (see description in figure 3.2.1 below) Note that caution should be applied when interpreting percentages based on small numbers and when comparing time periods.
Figure 2.1.2	Specific percentage measures of DBD and DCD potential donation activity for your Trust/Board are presented for the last three years, using data from the PDA. Appendix A.4 gives a fuller explanation of the terms used.
2.2 Key numbe Table 2.2.1	A summary of DBD and DCD data and key rates have been obtained from the PDA. A national comparison and a time period comparison are provided. Note that caution should be applied when interpreting percentages based on small numbers and comparing time periods. Appendix A.2 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 the Trust/Board as reflected in the funnel plots (see description for figure 3.2.1 below) National consent rate targets specific to the financial year are displayed throughout Section 3.
3.1 Overview of Figure 3.1.1	of lost opportunities The stages at which potential donors lose the opportunity to become actual donors have been obtained from the PDA. There are four charts showing the DBD and DCD stages separately for your Team and the UK, all of which contain a comparison against an equivalent period from the previous financial year. The number of potential donors is shown on the vertical axis for each chart and at each 'step' the proportion of potential donors lost at that stage is displayed. Caution should be applied when interpreting percentages based on small numbers and comparing time periods.
3.2 Neurologica Figure 3.2.1	A funnel plot of the neurological death testing rate is displayed using data obtained from the PDA. Each Trust/Board is represented on the plot as a blue dot, although one dot may represent more than one Trust/Board. Trusts/Boards within your Team are shown on the plot as large black crosses. The national rate is shown on the plot as a pink horizontal dashed line, together with 95% and 99.8% confidence limits for this rate. These limits form a 'funnel', shaded using a 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 national rate. If a Trust/Board lies outside the 95% confidence limits, shaded silver or amber, this serves as an alert that the Trust/Board may have a rate that is significantly different from the national rate. When a Trust/Board lies above the upper 99.8% limit, shaded gold, this indicates a rate that is significantly higher than the national rate, while a Trust/Board that lies below the lower limit, shaded red, has a rate that is significantly lower than the national rate. It is important to note that differences in patient mix have not been accounted for in these plots. The funnel plots can also be used to identify the maximum rates currently being achieved by Trusts/Boards with similar donor potential.
Table 3.2.1	The reasons given for neurological death tests not being performed have been obtained from the PDA, if applicable.



3.3 Referral to S Figure 3.3.1 Table 3.3.1 Table 3.3.2	Specialist Nurse - Organ Donation Funnel plots of DBD and DCD referral rates are displayed using data obtained from the PDA. See description for Figure 3.2.1 above. The reasons for not referring the patient to the SN-OD have been obtained from the PDA, if applicable. For patients who were referred, the timings of the first contact with the SN-OD by clinical staff have been obtained from the PDA.		
	oblained from the FDA.		
3.4 Contraindica Table 3.4.1	tions The primary absolute medical contraindications to solid organ donation have been obtained from the PDA, if applicable.		
3.5 Family appr Figure 3.5.1	Funnel plots of DBD and DCD approach rates are displayed using data obtained from the PDA. See		
Table 3.5.1	description for Figure 3.2.1 above. The reasons why families were not formally approached for a decision about solid organ donation have obtained from the PDA, if applicable.		
3.6 Proportion o Figure 3.6.1	of approaches involving a SN-OD Funnel plots of DBD and DCD SN-OD involvement rates are displayed using data obtained from the PDA. See description for Figure 3.2.1 above.		
3.7 Consent Figure 3.7.1	Funnel plots of DBD and DCD consent/authorisation rates are displayed using data obtained from the PDA. See description for Figure 3.2.1 above. In addition the national consent/authorisation target rate is shown in		
Table 3.7.1	green. The reasons why families did not give consent/authorisation for solid organ donation have been obtained from the PDA, if applicable.		
3.8 Reasons wh Table 3.8.1	y solid organ donation did not occur The reasons why solid organ donation did not occur have been obtained from the PDA, if applicable.		
4.1 Key number Table 4.1.1	s and rates by Trusts/Boards within your Team DBD key numbers and rates by Trusts/Boards covered by your Team have been obtained from the PDA. Data for the current time period are included, along with an equivalent comparison period from the previous year.		
	If the Trusts/Boards are not equivalent for the two time periods, this is due to Trust/Board changes, and/or there were no patients for whom neurological death was suspected or imminent death was anticipated in one of the time periods.		
	Caution should be applied when interpreting percentages based on small numbers and comparing time periods.		
Table 4.1.2	DCD key numbers and rates by unit where the patient died have been obtained from the PDA. See description for Table 4.1.1 above.		
5.1 PICU data			
Figure 5.1.1	Radar charts have been used to display the DBD and DCD key rates from the PDA for paediatric ICUs. The UK average rates for paediatric ICUs are displayed along with the rates achieved by paediatric ICUs covered by your Team. A comparison is also provided for the equivalent period from the previous year. See description for Figure 2.1.1 above.		
	Caution should be applied when interpreting percentages based on small numbers and comparing time periods.		
Figure 5.1.2	Specific percentage measures of DBD and DCD potential paediatric donation activity for your Team are presented for the last three years, using data from the PDA.		
	Appendix A.4 gives a fuller explanation of the terms used. Note that caution should be applied when interpreting percentages based on small numbers and comparing time periods.		
Appendix A.1 Bar charts of key rates			
Figure A.1.1	Bar charts have been used to display the DBD and DCD key rates from the PDA. This is an alternative way		
	of displaying the information in Figure 2.1.1. The percentages for your Team in the latest time period are displayed on each bar. Note that caution should		
Figure A.1.2	be applied when interpreting percentages based on small numbers and comparing time periods. Bar charts have been used to display DBD and DCD key rates for paediatric data. See description for Figure		
	A.1.1 above. Note that caution should be applied when interpreting percentages based on small numbers.		