



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

London 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

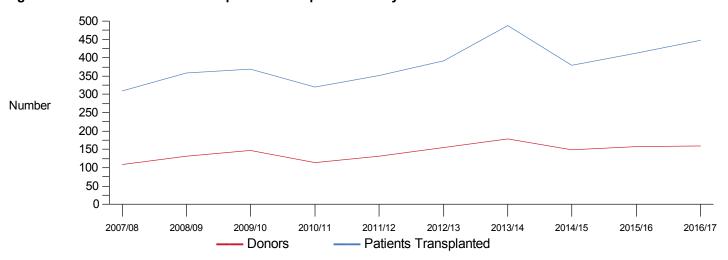
1.1 Donor outcomes

Between 1 April 2016 and 31 March 2017, the London team had 160 deceased solid organ donors, resulting in 448 patients receiving a transplant. 558 organs were donated but 72 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 1.1.1 Donors, patients transplanted and organs per donor, 1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)											
Donor type	Number of donors	Number of patients transplanted	Average number of organs donated per donor London UK								
DBD DCD DBD and DCD	110 (108) 50 (49) 160 (157)	342 (311) 106 (101) 448 (412)	3.7 (3.8) 3.8 (3.9) 2.9 (3.1) 2.8 (2.8) 3.5 (3.6) 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	onor type Kidney				f organs ⁄er	transpl Hea		y type Lui	ng	Sma	ll bowel	
DBD DCD DBD and DCD	86 `(7	79) 22 79) 7 58) 29	(22) (8) (30)	90 18 108	(90) (16) (106)	29 4 33	(27) (2) (29)	41 2 43	(36) (10) (46)	1 0 1	(1) (0) (1)	

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).



Key Rates onPotential 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 London 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.

Figure 2.1.1 Key rates on the potential for organ donation, 1 April 2016 - 31 March 2017 (1 April 2015 - 31 March 2016 for comparison)

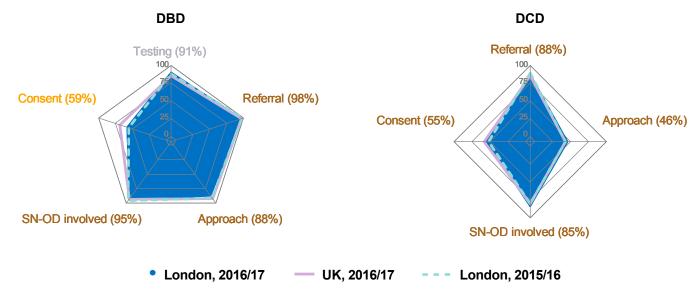
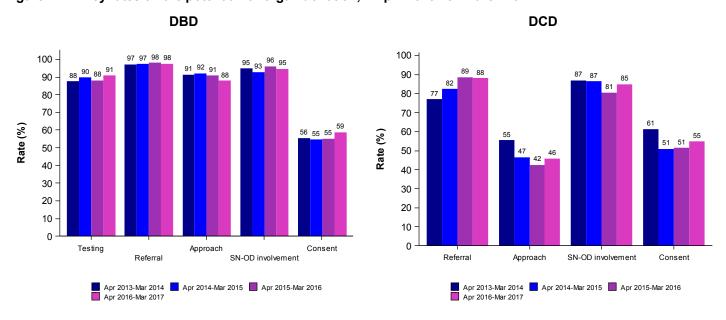


Figure 2.1.2 Key rates on the potential for organ donation, 1 April 2013 - 31 March 2017





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	46		2016/17	DCD	2015/1	
	Target	London	UK	London	UK	Target	London	UK	London	UK
Patients meeting organ donation referral criteria ¹		284	1,775	304	1,747		529	6,204	624	6,500
Referral rate % Referred to SN-OD		B 98% 277	97% 1,728	98% 298	96% 1,684	Ē	88% 466	86% 5,308	89% 553	83% 5,402
Neurological death tested Testing rate %		258 S 91%	1,522 86%	268 88%	1,477 85%					
Eligible donors²		234	1,444	253	1,404		362	4,237	412	4,205
Family approached Approach rate %		206 B 88%	1,329 92%	230 91%	1,296 92%	E	166 3 46%	1,815 <i>4</i> 3%	175 42%	1,942 <i>4</i> 6%
Family approached and SN-OD involved % of approaches where SN-OD involved		195 B 95%	1,236 93%	221 96%	1,180 91%	Ē	141 85%	1,460 <i>80%</i>	141 81%	1,511 78%
Consent ascertained Consent rate %	72%	121 A 59%	917 69%	127 55%	891 69%	68% E	91 3 55%	1,055 <i>5</i> 8%	90 51%	1,113 <i>57</i> %
Expected consents based on ethnic mix Expected consent rate based on ethnic mix %		124 61%		139 <i>61%</i>			88 55%		94 54%	
Actual donors from each pathway % of consented donors that became actual donors		107 88%	819 89%	109 86%	786 88%		50 55%	565 54%	46 51%	564 51%
Colour key - comparison with funnel plot confidence limits		G Gold A Amber		S Silver R Red			B Bronze			

¹ DBD - A patient with suspected neurological death

Note that from 1 April 2016 to 31 March 2017 there were 3 eligible DBD donors and 1 eligible DCD donor 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.

From 1 April 2016 to 31 March 2017 there were 3 eligible DCD donors for whom consent for donation was ascertained who are not included in this section because they were facilitated in a neonatal ICU.

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



3. Stages WhereOpportunities were Lost

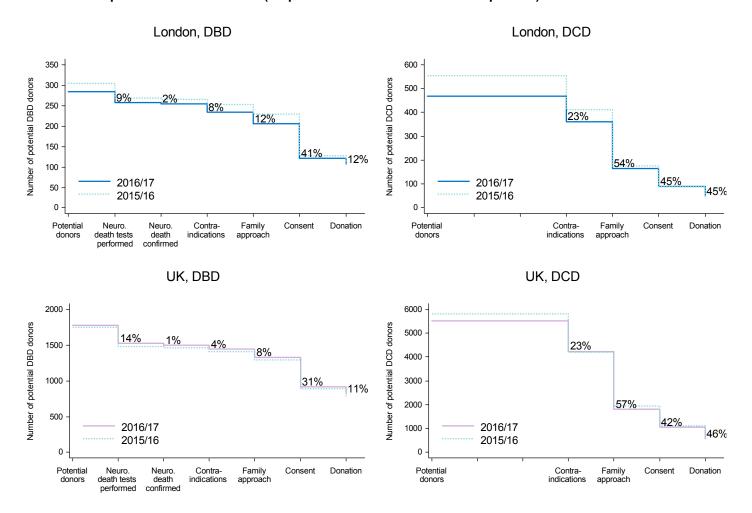
Stages at which potential donors lost the opportunity to become actual donors

3.1 Overview of lost opportunities

Of the 284 potential DBD donors with suspected neurological death, 107 proceeded to donation and 177 did not proceed. Of the 362 eligible DCD donors, 50 proceeded to donation and 312 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 London 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.

Figure 3.2.1 Funnel plot of neurological death testing rates, 1 April 2016 - 31 March 2017

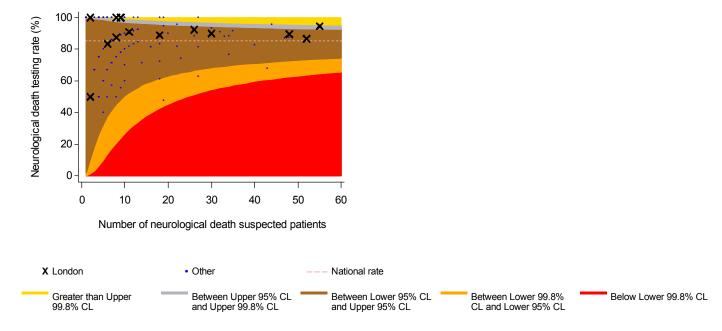


Table 3.2.1 shows the reasons why neurological death tests were not performed, if applicable, for your Team. Patients for whom the reason for not performing neurological tests is given as 'cardiac arrest despite resuscitation', 'brainstem reflexes returned', or 'neonates - less than 2 months post term' 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										
	N	%								
Family declined donation	2	7.7								
Patient haemodynamically unstable	6	23.1								
Biochemical/endocrine abnormality	4	15.4								
Inability to test all reflexes	3	11.5								
Clinical reason/Clinicians decision	8	30.8								
SN-OD advised that donor not suitable	1	3.8								
Other	1	3.8								
Unknown	1	3.8								
Total	26	100.0								
If 'other', please contact your local SN-OD for more information	ion, if required.									



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

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

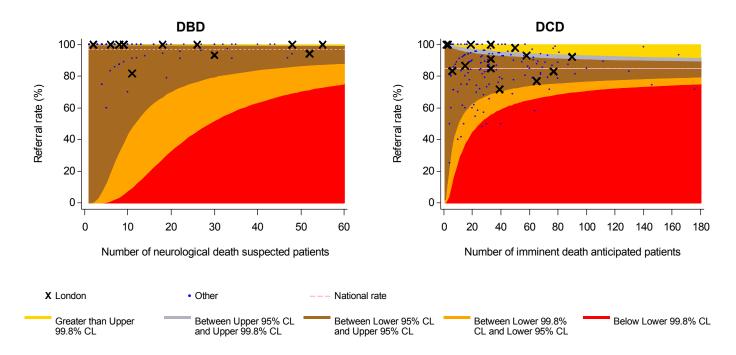


Table 3.3.1 shows the reasons why patients were not referred to a SN-OD, if applicable, for your Team.

Table 3.3.1 Reasons given why patient not referred, 1 April 2016 - 31 March 2017										
	ı	DBD	CD							
	N	%	N	%						
Not identified as a potential donor/organ donation not considered Family declined donation following decision to withdraw treatment	2	28.6	37 4	58.7 6.3						
Reluctance to approach family Medical contraindications	1 3	14.3 42.9	- 6	9.5						
Thought to be medically unsuitable Other	1	14.3	11 5	17.5 7.9						
Total	7	100.0	63	100.0						

If 'other' or 'medical contraindications', please contact your local SN-OD for more information, if required. Please note that patients may appear in this table more than once if they met the referral criteria for both DBD and DCD donation.



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

	N I	DBD %	DCD N %		
	11	70	14	70	
Before sedation stopped	17	6.0	17	3.6	
Absence of one or more cranial nerve reflexes and GCS of 4 or less not explained by sedation	164	58.2	70	15.0	
No sedation or after sedation stopped, decision made to carry out BSD tests, before 1st set of tests	83	29.4	4	0.9	
After 1st set and before 2nd set of BSD tests	1	0.4	-	0.0	
After neurological death confirmation	1	0.4	-	0.0	
Clinical decision to withdraw life-sustaining treatment has been made, before treatment withdrawn	16	5.7	368	79.0	
After treatment withdrawn	-	0.0	7	1.5	
Not reported	-	0.0	-	0.0	
Total	282	100.0	466	100.0	

NB, 25 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:

http://www.odt.nhs.uk/pdf/family approach best practice guide.pdf> [accessed 8 May 2017]



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) within 3 years	10	74								
Melanoma (except completely excised Stage 1 cancers)	1	_								
Active haematological malignancy (myeloma, lymphoma, leukaemia)	5	16								
TB: active and untreated	1	1								
HIV disease (but not HIV infection)	2	3								
No transplantable organ in accordance with organ specific contraindications	1	12								
Total	20	106								



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

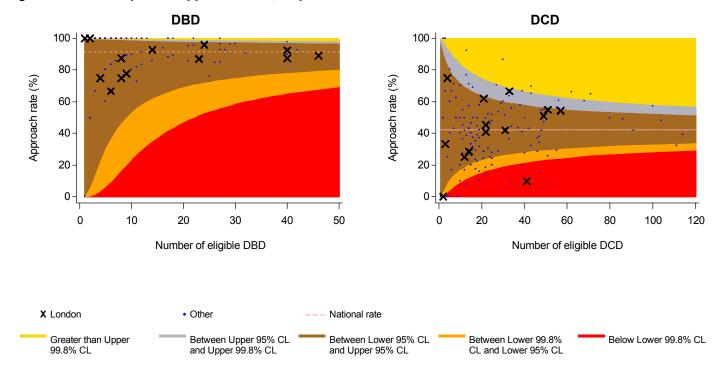


Table 3.5.1 shows the reasons why patients were not formally approached to discuss organ donation, if applicable, for your Team.

	ı	DBD	DCD		
	N	%	N	%	
Family stated that they would not support donation before they were formally approached	-	-	7	3.6	
Family untraceable	1	3.6	4	2.0	
Family considered too upset to approach	3	10.7	-	-	
Coroner / Procurator Fiscal refused permission	7	25.0	2	1.0	
Patient's general medical condition	8	28.6	80	40.8	
Other medical reason	8 3 3	10.7	52	26.5	
Other	3	10.7	14	7.1	
Not identified as a potential donor / organ donation not considered	2	7.1	36	18.4	
Patient had previously expressed a wish not to donate	1	3.6	1	0.5	
Total	28	100.0	196	100.0	

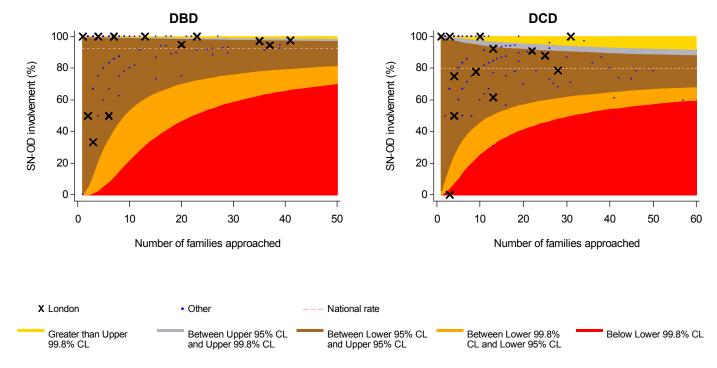


3.6 Proportion of approaches involving a SN-OD

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.

Figure 3.6.1 Funnel plots of SN-OD involvement rates, 1 April 2016 - 31 March 2017





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

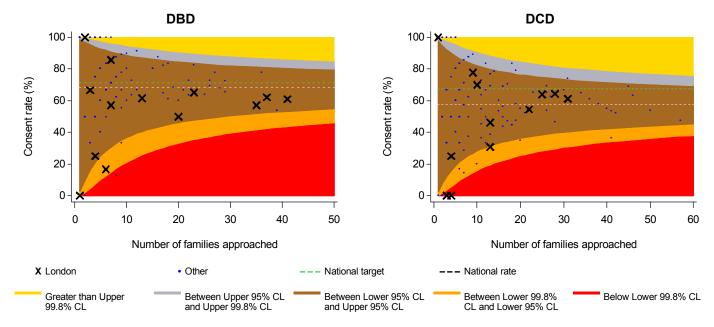


Table 3.7.1 shows the reasons why families did not support donation, if applicable, for your Team.

	I	DBD		DCD		
	N	%	N	%		
Patient previously expressed a wish not to donate	15	17.6	14	18.7		
amily were not sure whether the patient would have agreed to donation	10	11.8	8	10.7		
Family did not believe in donation	3	3.5	2	2.7		
Family felt it was against their religious/cultural beliefs	20	23.5	10	13.3		
Family were divided over the decision	5	5.9	5	6.7		
Family felt the patient had suffered enough	5 3	3.5	5 2	2.7		
amily did not want surgery to the body	14	16.5	10	13.3		
amily felt the length of time for donation process was too long	2	2.4	11	14.7		
amily felt the body needs to be buried whole (unrelated to religious or ultural reasons)	3	3.5	4	5.3		
amily concerned that organs may not be transplanted	1	1.2	_			
Strong refusal - probing not appropriate	6	7.1	3	4.0		
Other	3	3.5	6	8.0		
Fotal	85	100.0	75	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 DC					
	N	%	N	%		
Family changed mind	3	21.4	1	2.4		
Coroner/ Procurator Fiscal refusal	1	7.1	-	-		
Organs deemed medically unsuitable by recipient centres	6	42.9	10	24.4		
Organs deemed medically unsuitable on surgical inspection	-	-	1	2.4		
Prolonged time to asystole	_	_	19	46.3		
Cardiac arrest	1	7.1	2	4.9		
General instability	1	7.1	2	4.9		
Positive virology	1	7.1	1	2.4		
Other	1	7.1	5	12.2		
Total	14	100.0	41	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.

Table 4.1		ents who pril 2016 -								1		
Patients where neurological death was suspected	Patients that were tested	Neurological death testing rate (%)	Patients where neurological death was suspected that were referred to SN-OD	DBD referral rate (%)	Patients confirmed dead by neurological testing	Eligible DBD donors (Death confirmed by neurological tests and no absolute contra- indications)	Eligible DBD donors whose family were approached	DBD approach rate (%)	Consent ascertained	DBD consent rate (%)	Actual DBE and DCD donors from eligible DBD donors	DBD SN-OD involvement rate (%)
1 April 2016 to	31 March	2017										
Barking, Havel 30	ring and Re 27	edbridge Univer 90	rsity Hospitals 28	NHS Trust 93	27	24	23	96	15	65	14	100
Barts Health N 52	IHS Trust 45	87	49	94	43	40	35	88	20	57	19	97
Chelsea and V 9	Vestminstei 9	r Hospital NHS 100	Foundation Ti 9	rust 100	9	9	7	78	6	86	6	100
Great Ormond 8	Street Hos	spital For Childr 100	ren NHS Found 8	dation Trust 100	8	8	6	75	1	17	1	50
Guy's and St 7	Thomas' Ni 5	HS Foundation 83	Trust 6	100	5	4	3	75	2	67	2	33
Homerton Univ 2	versity Hos 1	pital NHS Four 50	ndation Trust 2	100	1	1	1	100	0	0	0	100
Imperial Colleg 48	ge Healthca 43	re NHS Trust 90	48	100	43	40	37	93	23	62	18	95
King's College 55	Hospital N 52	HS Foundation 95	Trust 55	100	51	46	41	89	25	61	22	98
London North	West Healt 9	hcare NHS Tru 100	ust 9	100	9	8	7	88	4	57	3	100
North Middlese 8	ex Universi 7	ty Hospital NH: 88	S Trust 8	100	7	6	4	67	1	25	1	100
Royal Brompto 11	n & Harefi 10	eld NHS Found 91	lation Trust 9	82	10	9	7	78	4	57	4	100
Royal Free Loi 18	ndon NHS 16	Foundation Tru 89	st 18	100	15	14	13	93	8	62	6	100
Royal National 0	Orthopaed	lic Hospital NH -	S Trust	-	0	0	0	-	0	-	0	-
The Hillingdon 0	Hospitals I	NHS Foundation	n Trust 0	-	0	0	0	-	0	-	0	-
The Whittington	n Hospital . 2	NHS Trust 100	2	100	2	2	2	100	2	100	2	50
University Coli 26	lege Londo 24	n Hospitals NH 92	S Foundation 26	Trust 100	24	23	20	87	10	50	9	95
1 April 2015 to	31 March	2016 (for com	parison purp	oses)								



Table 4.1.1 Patients 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	Patients that were tested	Neurological	Patients where neurological death was suspected that were referred to SN-OD	DBD referral rate (%)	Patients confirmed dead by neurological testing	Eligible DBD donors (Death confirmed by neurological tests and no absolute contra- indications)	Eligible DBD donors whose family were approached	DBD approach rate (%)	Consent ascertained	DBD consent rate (%)	Actual DBE and DCD donors from eligible DBD donors	DBD SN-OD involvement rate (%)
Barking, Havel	ring and Re 31	dbridge Univers 94	ity Hospitals i 33	NHS Trust 100	31	31	29	94	12	41	8	97
Barts Health N 72	IHS Trust 63	88	70	97	62	60	58	97	28	48	26	98
Chelsea and V	Vestminster 3	Hospital NHS I 100	Foundation Tr 3	ust 100	3	3	3	100	1	33	1	67
Great Ormond 5	Street Hos	pital For Childre 60	n NHS Found 4	lation Trust 80	3	3	2	67	0	0	0	100
Guy's and St 1	Thomas' NF 12	IS Foundation T 100	rust 12	100	12	11	10	91	7	70	5	90
Homerton Univ	versity Hos _l 1	oital NHS Found 100	lation Trust 1	100	1	1	1	100	1	100	1	100
Imperial Colleg 40	ge Healthca 33	re NHS Trust 83	40	100	33	30	26	87	15	58	11	96
King's College 58	Hospital NI 54	HS Foundation 7 93	Trust 56	97	53	51	44	86	25	57	20	95
London North 12	West Healtl 9	ncare NHS Trus 75	t 12	100	9	8	8	100	5	63	5	100
North Middlese	ex Universit 7	y Hospital NHS 100	Trust 7	100	7	6	6	100	3	50	3	100
Royal Brompto 4	on & Harefie 4	eld NHS Founda 100	tion Trust 4	100	4	4	4	100	3	75	3	75
Royal Free Loi 15	ndon NHS I 8	Foundation Trus 53	t 14	93	8	8	7	88	5	71	5	100
Royal National 0	Orthopaed	ic Hospital NHS -	Trust 0	-	0	0	0	-	0	-	0	-
The Hillingdon 2	Hospitals N 2	IHS Foundation 100	Trust 2	100	2	2	2	100	1	50	1	100
The Whittington	n Hospital I 1	NHS Trust 100	1	100	1	1	0	0	0	-	0	-
University Coll 39	lege Londor 37	Hospitals NHS 95	Foundation 7	Trust 100	37	34	30	88	21	70	20	97



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

Eligible DCD donors (Imminent death Patients for anticipated and whom imminent treatment withdrawn with Eligible DCD Actual DCD Patients for Patients for death was whom imminent anticipated that whom no absolute donors whose donors from DCD SN-OD DCD referral DCD approach DCD consent death was were referred treatment was contrafamily were Consent eligible DCD involvement to SN-OD anticipated rate (%) withdrawn indications) approached rate (%) ascertained rate (%) donors rate (%) 1 April 2016 to 31 March 2017 Barking, Havering and Redbridge University Hospitals NHS Trust Barts Health NHS Trust Chelsea and Westminster Hospital NHS Foundation Trust Great Ormond Street Hospital For Children NHS Foundation Trust Guy's and St Thomas' NHS Foundation Trust Homerton University Hospital NHS Foundation Trust Imperial College Healthcare NHS Trust King's College Hospital NHS Foundation Trust London North West Healthcare NHS Trust North Middlesex University Hospital NHS Trust Royal Brompton & Harefield NHS Foundation Trust Royal Free London NHS Foundation Trust Royal National Orthopaedic Hospital NHS Trust The Hillingdon Hospitals NHS Foundation Trust The Whittington Hospital NHS Trust Λ n University College London Hospitals NHS Foundation Trust 1 April 2015 to 31 March 2016 (for comparison purposes) Barking, Havering and Redbridge University Hospitals NHS Trust Barts Health NHS Trust Chelsea and Westminster Hospital NHS Foundation Trust Great Ormond Street Hospital For Children NHS Foundation Trust Guy's and St Thomas' NHS Foundation Trust Homerton University Hospital NHS Foundation Trust



Table 4.1.2 Patients 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 imminer death was anticipated 8	Patients for whom imminent death was t anticipated that were referred to SN-OD 8	DCD referral rate (%)	Patients for whom treatment was withdrawn 5	Eligible DCD donors (Imminent death anticipated and treatment withdrawn with no absolute contra- indications)	Eligible DCD donors whose family were approached 2	DCD approach rate (%) 50	Consent ascertained 2	DCD consent rate (%)	Actual DCD donors from eligible DCD donors 1	DCD SN-OD involvement rate (%) 100
Imperial College Healthcare NHS Trust										
56	49	88	51	46	24	52	16	67	10	88
King's College 91	e Hospital NHS Fo 83	oundation Trust 91	79	54	31	57	18	58	9	100
London North 44	West Healthcare 41	NHS Trust 93	37	27	10	37	6	60	3	90
North Middles 17	ex University Ho	spital NHS Tru: 88	s <i>t</i> 16	12	4	33	2	50	0	75
Royal Brompto 36	on & Harefield NI 36	HS Foundation 100	Trust 27	23	8	35	6	75	4	75
Royal Free Lo	ndon NHS Found 74	dation Trust 79	85	68	16	24	3	19	0	56
Royal Nationa 0	l Orthopaedic Ho 0	ospital NHS Tru -	st 0	0	0	-	0	-	0	-
The Hillingdor	Hospitals NHS I 8	Foundation Trus 100	st 8	8	4	50	3	75	2	75
The Whittingto	on Hospital NHS 8	Trust 80	9	6	1	17	1	100	1	100
University Co. 26	llege London Hos 24	pitals NHS Fou 92	indation Trust 24	12	5	42	1	20	0	80

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 London team in 2016/17 there were 32 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. 3 of these are 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.

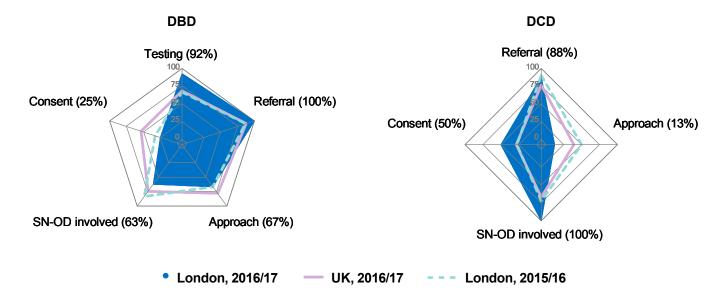
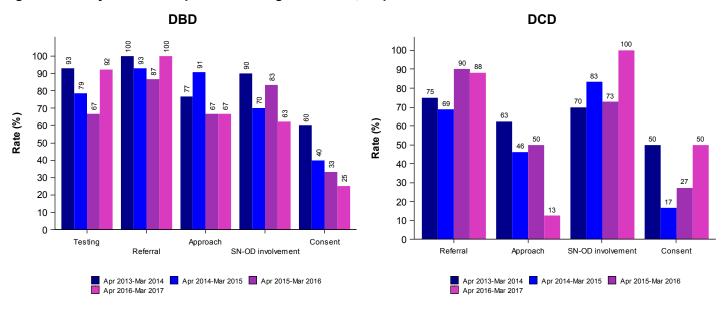


Figure 5.1.2 Key rates on the potential for organ donation, 1 April 2013 - 31 March 2017





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

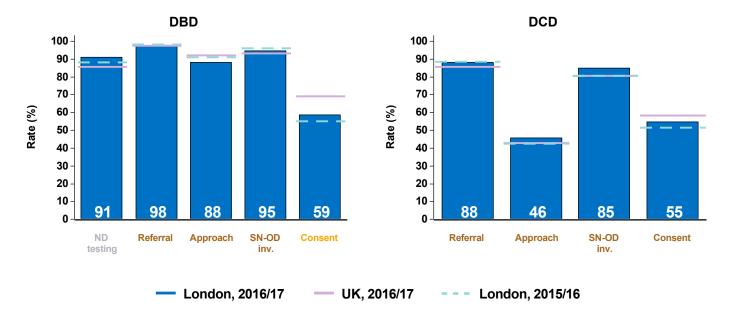
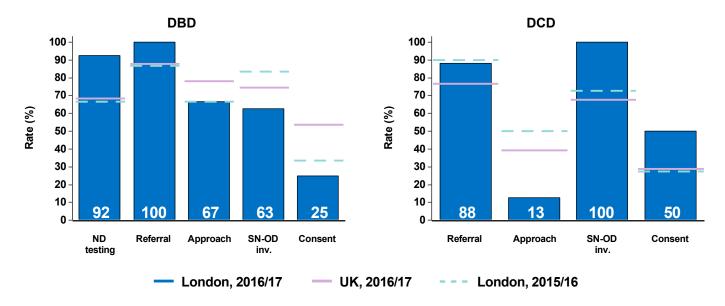


Figure A.1.2 DBD and DCD key rates for paediatric ICUs





Appendix A.2 Definitions

POTENTIAL DONOR AUDIT / REFERRAL RECORD

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 A patient with suspected neurological death discussed with the Specialist

Nurse – Organ Donation 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 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 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 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



Donors after circulatory death (DCD)

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 Patients for whom imminent death was anticipated who were discussed with the

Nurse – Organ Donation 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 de

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

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 London 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 outcomes

Table 1.1.1

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 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 numbers, rates and comparison with national targets

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 lost opportunities

Figure 3.1.1

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 Neurological death testing

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 Specialist Nurse - Organ Donation

Funnel plots of DBD and DCD referral rates are displayed using data obtained from the PDA. See Figure 3.3.1

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. Table 3.3.1 Table 3.3.2 For patients who were referred, the timings of the first contact with the SN-OD by clinical staff have been

obtained from the PDA

3.4 Contraindications

Table 3.4.1 The primary absolute medical contraindications to solid organ donation have been obtained from the PDA, if

applicable.

3.5 Family approach

Funnel plots of DBD and DCD approach rates are displayed using data obtained from the PDA. See Figure 3.5.1

description for Figure 3.2.1 above.

Table 3.5.1 The reasons why families were not formally approached for a decision about solid organ donation have been obtained from the PDA, if applicable.

3.6 Proportion of approaches involving a SN-OD Figure 3.6.1 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 The reasons why families did not give consent/authorisation for solid organ donation have been obtained

from the PDA, if applicable.

3.8 Reasons why solid organ donation did not occur

Table 3.8.1 The reasons why solid organ donation did not occur have been obtained from the PDA, if applicable.

4.1 Key numbers 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. Table 4.1.1

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.

DCD key numbers and rates by unit where the patient died have been obtained from the PDA. See Table 4.1.2

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

be applied when interpreting percentages based on small numbers and comparing time periods.

Figure A.1.2 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.