



Blood and Transplant

Commissioning Performance Report

Reporting period: June 2018

Data extraction date: 31 August 2018



Publication date: <Enter when narrative complete>

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1. EXECUTIVE SUMMARY

Key achievements

Challenges

Major risks and issues

KEY ACTIONS				
Action	Owner	Due Date	Status	Rank

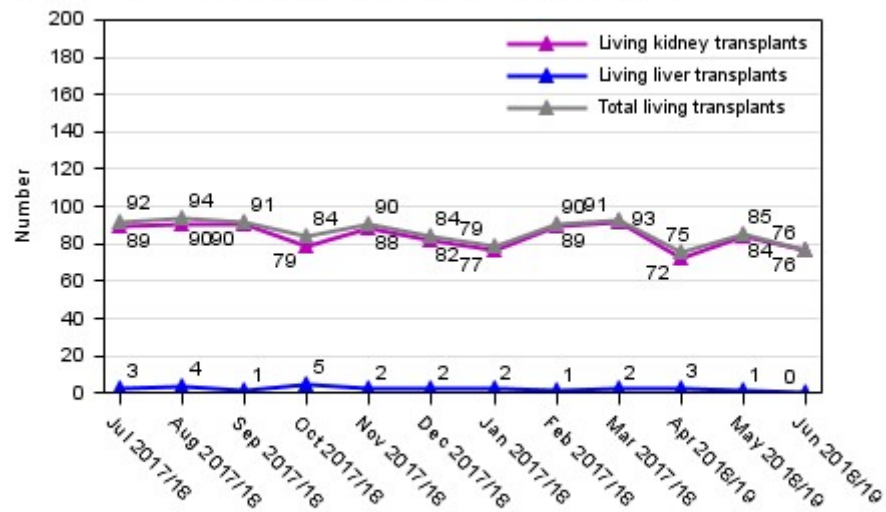
2. COMMISSIONING Key Performance Measures – LIVING DONATION

2.1. Objective 1 - Number of living donors

Table 2.1: Number of living donor transplants by organ type

	Jul 2017/18	Aug 2017/18	Sep 2017/18	Oct 2017/18	Nov 2017/18	Dec 2017/18	Jan 2017/18	Feb 2017/18	Mar 2017/18	Apr 2018/19	May 2018/19	Jun 2018/19	YTD 2018/19 (Apr-Jun)
Number of living donor kidney transplants	89	90	90	79	88	82	77	89	91	72	84	76	232
Number of living donor liver transplants	3	4	1	5	2	2	2	1	2	3	1	0	4
Total number of living donor transplants	92	94	91	84	90	84	79	90	93	75	85	76	236

Fig. 2.1 Number of living donor transplants by type of organ



2.2. Objective 2 – Number of pre-emptive living donor kidney transplants

Table 2.2: Number of pre-emptive living donor kidney transplants

	Jul 2017/18	Aug 2017/18	Sep 2017/18	Oct 2017/18	Nov 2017/18	Dec 2017/18	Jan 2017/18	Feb 2017/18	Mar 2017/18	Apr 2018/19	May 2018/19	Jun 2018/19	YTD 2018/19 (Apr-Jun)
Number of living donor kidney transplants	89	90	90	79	88	82	77	89	91	71	83	76	230
Number with reported dialysis status	88	89	90	78	86	81	77	85	88	68	78	63	209
Number of pre-emptive living donor kidney transplants	34	37	39	26	39	26	36	29	28	23	35	22	80
Percentage of pre-emptive living donor kidney transplants	38.6	41.6	43.3	33.3	45.3	32.1	46.8	34.1	31.8	33.8	44.9	34.9	38.3

2.3. Objective 3 – UK Living Kidney Donor Sharing Schemes

Table 2.3: UK living kidney donor sharing schemes

Date represents run date of living donor kidney matching run					
	Apr 2017/18	Jul 2017/18	Oct 2017/18	Jan 2017/18	Apr 2018/19
Number of paired donation transplants identified	75	67	78	69	82
Number of paired donation transplants proceeding	39	34	48	41	52
Proportion of paired donation transplants proceeding	52	50.7	61.5	59.4	63.4
Number of paired donation transplants proceeding within 8 weeks	19	15	28	26	37
Proportion of paired donation transplants proceeding within 8 weeks	48.7	44.1	58.3	63.4	71.2

3. COMMISSIONING Key Performance Measures – NATIONAL ORGAN RETRIEVAL SERVICE

3.1. Objective 4 – Increase the number of organs retrieved and transplanted from deceased donors

Table 4.1: Number of organs (DBD) retrieved by NORS teams

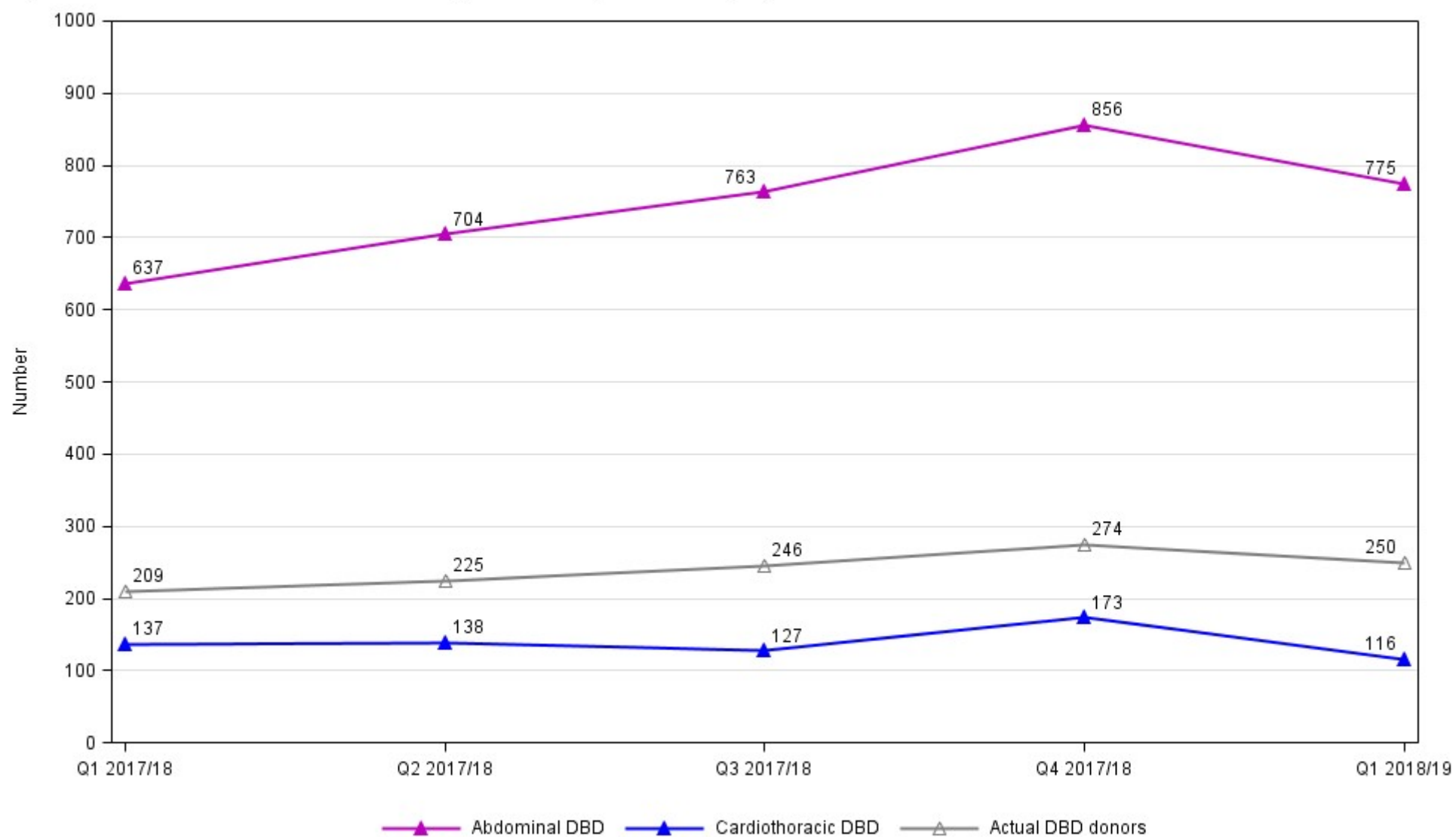
Retrieval team	Number of organs (kidneys, livers, pancreases, hearts and lungs) retrieved					
	Q1 2017/18	Q2 2017/18	Q3 2017/18	Q4 2017/18	Q1 2018/19	YTD 2018/19 (Apr-Jun)
Abdominal						
Birmingham	70	81	86	126	88	88
Cambridge	73	120	105	139	119	119
Cardiff	29	15	22	27	26	26
Edinburgh	53	40	75	67	88	88
King's College	134	141	162	142	148	148
Leeds	72	58	53	59	39	39
Manchester	68	52	72	66	61	61
Newcastle	41	81	71	95	75	75
Oxford	63	54	63	59	84	84
Royal Free	34	62	54	76	47	47
Mean per team on call	91	101	109	122	111	111
TOTAL	637	704	763	856	775	775
Cardiothoracic						
Birmingham	23	15	24	28	16	16
Edinburgh	2	0	0	0	0	2
Glasgow	13	6	13	9	4	4
Harefield	32	28	32	35	27	27
Manchester	27	28	17	34	18	18
Newcastle	21	23	17	24	22	22
Papworth	21	38	24	43	27	27
Mean per team on call	46	46	42	58	38	38
TOTAL	137	138	127	173	116	116

Table 4.2: Number of organs (DCD) retrieved by NORS teams

Retrieval team	Number of organs (kidneys, livers, pancreases, hearts and lungs) retrieved					
	Q1 2017/18	Q2 2017/18	Q3 2017/18	Q4 2017/18	Q1 2018/19	YTD 2018/19 (Apr-Jun)
Abdominal						
Birmingham	59	52	59	35	50	50
Cambridge	78	59	55	77	42	42
Cardiff	25	15	14	16	20	20
Edinburgh	27	16	29	39	20	20
King's College	54	67	75	74	65	65
Leeds	37	48	49	39	32	32
Manchester	28	25	24	39	39	39
Newcastle	62	28	27	45	38	38
Oxford	22	12	48	32	38	38
Royal Free	29	21	25	33	25	25
Mean per team on call	60	49	58	61	53	53
TOTAL	421	343	405	429	369	369
Cardiothoracic						
Birmingham	4	4	2	8	0	0
Glasgow	2	2	0	0	0	2
Harefield	4	4	5	4	13	13
Manchester	7	5	4	3	8	8
Newcastle	10	2	2	3	2	2
Papworth	7	12	9	10	1	1
Mean per team on call	11	9	7	9	9	0
TOTAL	34	27	22	28	26	26

Objective 4 – Increase the number of organs retrieved and transplanted from deceased donors (continued)

Fig. 4.1 Number of abdominal and cardiothoracic organs retrieved by NORS teams (DBD)



3.2 Objective 5 – Minimise organ retrieval damage

Table 5.1: Retrieval damage reported for abdominal and cardiothoracic organs (DBD and DCD) retrieved by NORS teams

Damage reported by receiving surgeon through the HTA B form													
	Jul 2017/18	Aug 2017/18	Sep 2017/18	Oct 2017/18	Nov 2017/18	Dec 2017/18	Jan 2017/18	Feb 2017/18	Mar 2017/18	Apr 2018/19	May 2018/19	Jun 2018/19	YTD 2018/19 (Apr-Jun)
No. organs retrieved with moderate/severe damage reported	19	15	18	24	28	24	42	24	33	36	35	21	92
No. organs not tx'd due to damage	1	4	1	4	5	5	8	3	8	8	4	9	21
No. organs not tx'd due to damage as a % of those with mod/sev damage reported	5.3	26.7	5.6	16.7	17.9	20.8	19	12.5	24.2	22.2	11.4	42.9	22.8
No. organs not tx'd due to damage as a % of all organs retrieved*	0.3	1	0.3	1	1.2	1.3	1.6	0.8	1.8	1.8	1	2.8	1.8

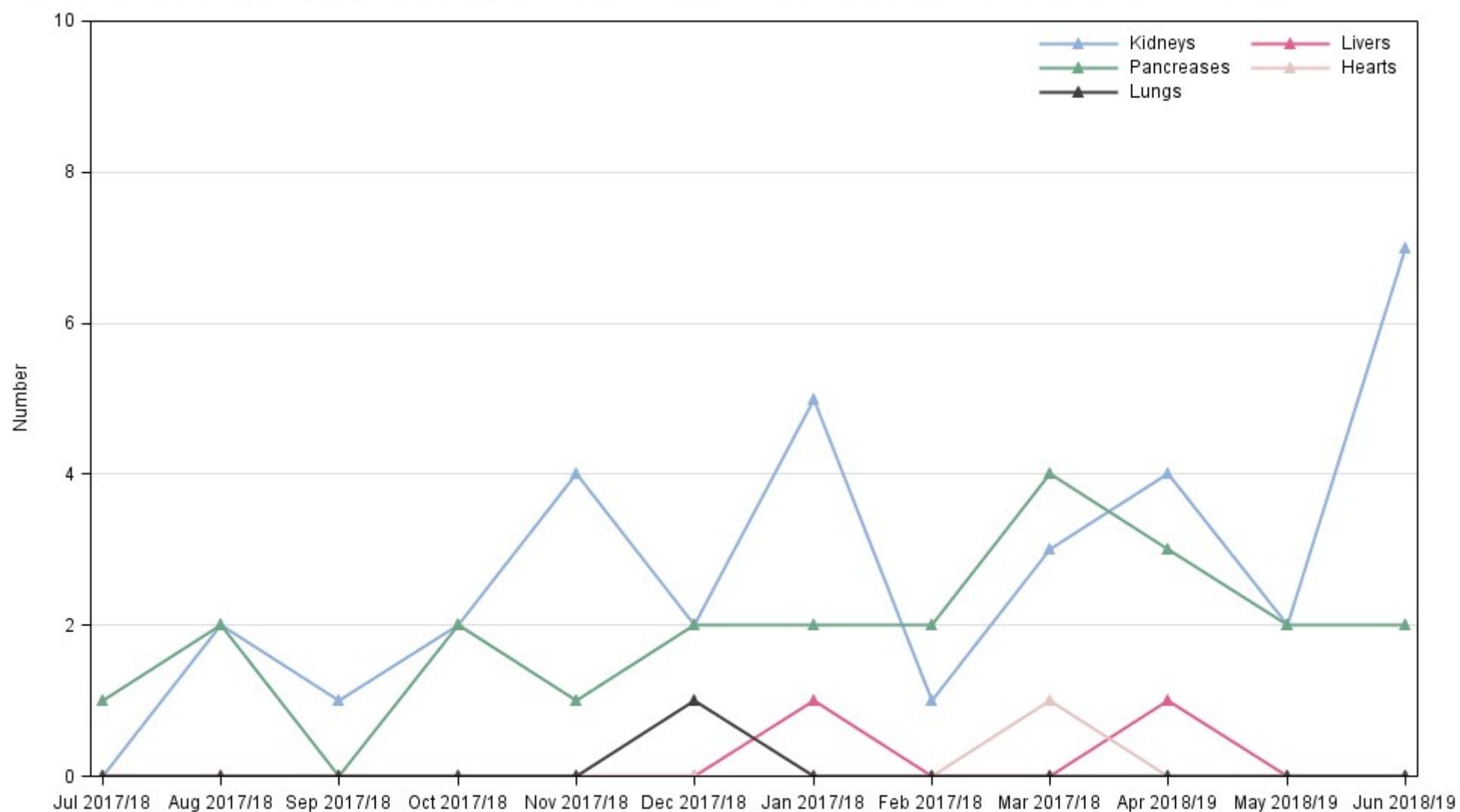
Table 5.2: Abdominal and cardiothoracic organs (DBD and DCD) retrieved and not transplanted due to retrieval damage, by NORS team that retrieved

Retrieval team	Number of organs (kidneys, livers, pancreases, hearts and lungs) not transplanted due to damage													
	Jul 2017/18	Aug 2017/18	Sep 2017/18	Oct 2017/18	Nov 2017/18	Dec 2017/18	Jan 2017/18	Feb 2017/18	Mar 2017/18	Apr 2018/19	May 2018/19	Jun 2018/19	YTD 2018/19 (Apr-Jun)	YTD % of all organs retrieved*
Abdominal														
Birmingham	0	0	0	0	1	0	1	3	1	1	1	3	5	3.6
Cambridge	0	0	1	2	1	0	1	0	0	1	1	0	2	1.2
Cardiff	0	0	0	0	0	0	0	0	0	0	1	1	2	4.3
Edinburgh	0	0	0	0	1	1	1	0	0	0	0	0	0	0
King's College	1	0	0	1	1	1	0	0	3	3	1	1	5	2.4
Leeds	0	0	0	0	0	1	3	0	1	1	0	1	2	2.8
Manchester	0	0	0	0	0	0	0	0	1	1	0	2	3	3.1
Newcastle	0	3	0	1	0	1	1	0	0	0	0	0	0	0
Oxford	0	1	0	0	0	0	0	0	1	1	0	1	2	1.6
Royal Free	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Cardiothoracic														
Birmingham	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Edinburgh	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glasgow	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Harefield	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manchester	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Newcastle	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Papworth	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*where grade of surgical damage reported (5% missing for reasons such as not received with intent to transplant, transplanted abroad, went for research or genuinely missing).

Objective 5 – Minimise organ retrieval damage (continued)

Fig. 5.1 Number of abdominal and cardiothoracic organs (DBD and DCD) not transplanted due to damage, by organ type



3.3. Objective 6 – Timely dispatch of retrieval teams to donor hospital

Table 6.1: Proportion of times NORS teams left base within the agreed time or within 1 hour of the call to mobilise

Retrieval team	Proportion of donor attendances where team left base within the agreed time or within 1 hour of the call to mobilise*					
	Q1 2017/18	Q2 2017/18	Q3 2017/18	Q4 2017/18	Q1 2018/19	YTD 2018/19 (Apr-Jun)
Abdominal						
Birmingham	69.2	70.9	56.9	65.2	54.7	54.7
Cambridge	61.5	47.8	58.7	52.9	51.5	51.5
Cardiff	87.5	50.0	70.6	70.0	78.3	78.3
Edinburgh	66.7	52.0	72.5	60.4	68.2	68.2
King's College	60.3	64.9	70.6	59.1	70.8	70.8
Leeds	68.6	64.1	79.6	65.1	80.0	80.0
Manchester	68.4	53.1	63.3	64.3	44.4	44.4
Newcastle	81.3	69.6	65.9	78.2	66.7	66.7
Oxford	69.7	70.4	66.7	73.8	70.2	70.2
Royal Free	33.3	40.6	36.4	51.3	56.7	56.7
TOTAL	66.3	59.7	64.6	62.8	63.2	63.2
Cardiothoracic						
Birmingham	65.2	45.5	73.1	76.2	72.2	72.2
Glasgow	28.6	22.2	50.0	50.0	100.0	100.0
Harefield	60.0	45.2	62.2	64.7	56.7	56.7
Manchester	41.4	45.8	66.7	51.4	38.5	38.5
Newcastle	47.6	54.5	50.0	61.9	77.8	77.8
Papworth	69.0	69.8	84.4	65.4	79.3	79.3
TOTAL	55.4	52.1	67.6	62.6	65.9	65.9
TOTAL	63.6	57.8	65.3	62.8	63.8	63.8

*Time not reported in 3% of attendances. Note that a 15 minute margin has been applied to the SN-OD recorded agreed time.

Objective 6 – Timely dispatch of retrieval teams to donor hospital (continued)

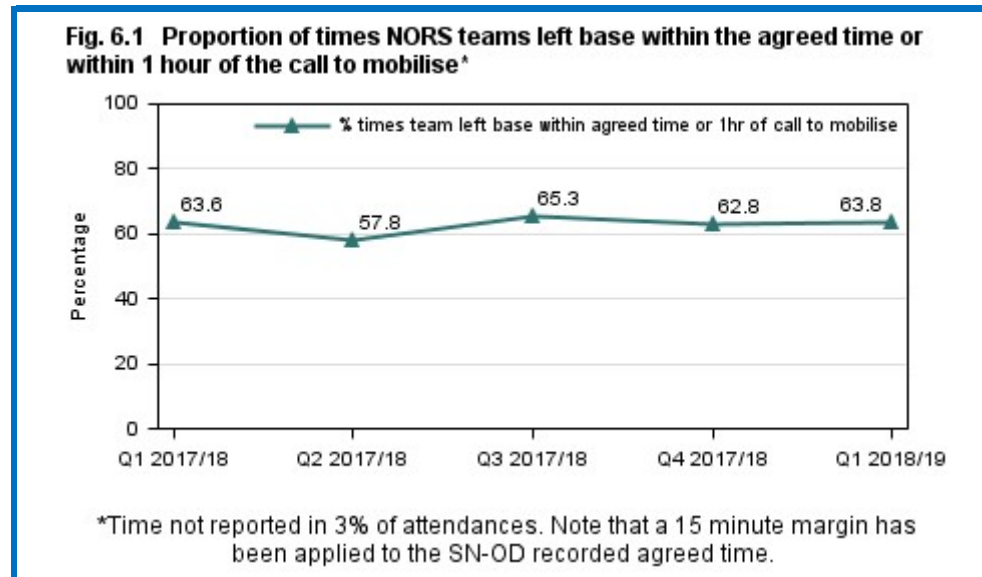


Table 6.2: Proportion of times NORS teams left base within the agreed time or within 1 hour of the call to mobilise, by Organ Donation Services Team

Organ Donation Services Team	Proportion of donor attendances where team left base within the agreed time or within 1 hour of the call to mobilise*					
	Q1 2017/18	Q2 2017/18	Q3 2017/18	Q4 2017/18	Q1 2018/19	YTD 2018/19 (Apr-Jun)
Eastern	58.5	64.8	68.0	63.5	53.1	53.1
London	59.0	56.1	56.2	55.8	60.5	60.5
Midlands	57.4	50.8	57.4	61.1	55.7	55.7
North West	65.9	62.1	61.9	59.7	67.9	67.9
Northern	71.4	38.2	75.9	76.7	72.7	72.7
Northern Ireland	70.0	93.8	82.4	76.9	88.2	88.2
Scotland	61.9	52.2	63.6	55.8	66.7	66.7
South Central	60.5	48.8	58.9	68.3	63.0	63.0
South East	58.5	60.6	70.4	65.5	75.4	75.4
South Wales	92.9	68.2	72.2	60.0	51.7	51.7
South West	67.9	64.1	71.9	71.1	63.8	63.8
Yorkshire	70.2	51.1	70.9	60.3	66.1	66.1
TOTAL	63.6	57.8	65.3	62.8	63.8	63.8

*Time not reported in 3% of attendances. Note that a 15 minute margin has been applied to the SN-OD recorded agreed time.

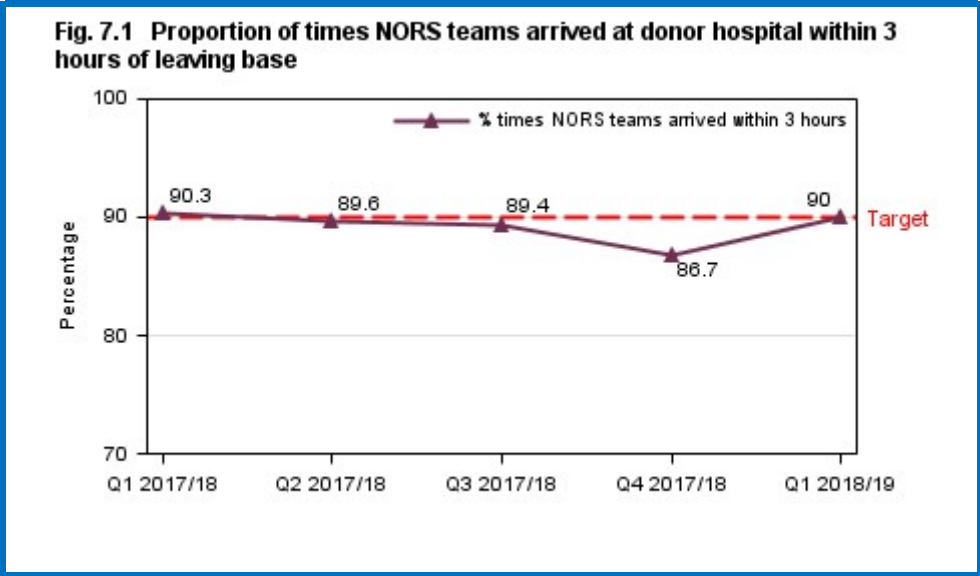
3.4. Objective 7 - Timely arrival of retrieval team at donor hospital

Table 7.1: Proportion of times each team arrived at the donor hospital within 3 hours of leaving base

Retrieval team	Proportion of donor attendances where team arrived within 3 hours of leaving base*						Proportion of donor attendances where flight involved YTD 2018/19
	Q1 2017/18	Q2 2017/18	Q3 2017/18	Q4 2017/18	Q1 2018/19	YTD 2018/19 (Apr-Jun)	
Abdominal							
Birmingham	86.8	90.9	93.2	84.1	92.6	92.6	1.8
Cambridge	90.8	92.5	87.3	92.0	92.6	92.6	2.9
Cardiff	83.3	71.4	88.2	85.0	91.3	91.3	4.2
Edinburgh	90.9	68.0	92.5	85.4	84.1	84.1	11.4
King's College	93.6	94.9	90.6	87.1	88.5	88.5	0
Leeds	100.0	100.0	95.9	95.3	100.0	100.0	0
Manchester	97.4	93.8	89.8	83.3	97.9	97.9	4.2
Newcastle	87.8	82.6	90.2	89.3	84.6	84.6	34.6
Oxford	97.0	96.3	95.6	88.1	91.5	91.5	0
Royal Free	85.2	93.8	87.9	84.6	96.7	96.7	0
TOTAL	91.5	90.6	91.3	87.8	91.2	91.2	5.9
Cardiothoracic							
Birmingham	91.3	95.2	80.8	95.5	94.4	94.4	0
Glasgow	71.4	55.6	90.0	62.5	55.6	55.6	50
Harefield	93.3	87.5	86.5	94.1	93.5	93.5	3.2
Manchester	93.1	83.3	85.7	75.0	80.8	80.8	14.8
Newcastle	76.2	72.7	58.8	68.2	66.7	66.7	16.7
Papworth	79.3	93.0	90.6	86.8	96.6	96.6	0
TOTAL	86.3	86.4	83.2	83.4	85.5	85.5	10.3
TOTAL	90.3	89.6	89.4	86.7	90.0	90.0	6.8

*Travel time not reported in 2% of attendances.

Objective 7 – Timely arrival of retrieval team at donor hospital (continued)



3.5. Objective 8 – Minimise wait at donor hospital prior to retrieval

Fig. 8.1 Wait at donor hospital to start retrieval - proceeding DBD abdominal team attendances

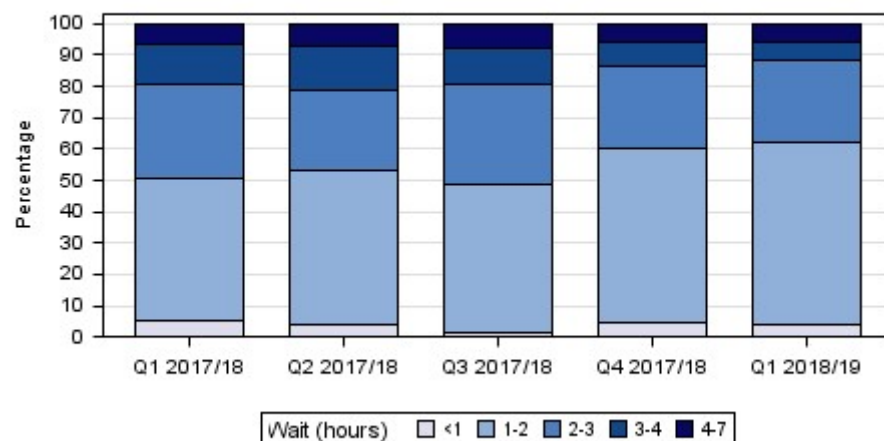


Fig. 8.2 Wait at donor hospital for treatment withdrawal - potential DCD abdominal team attendances

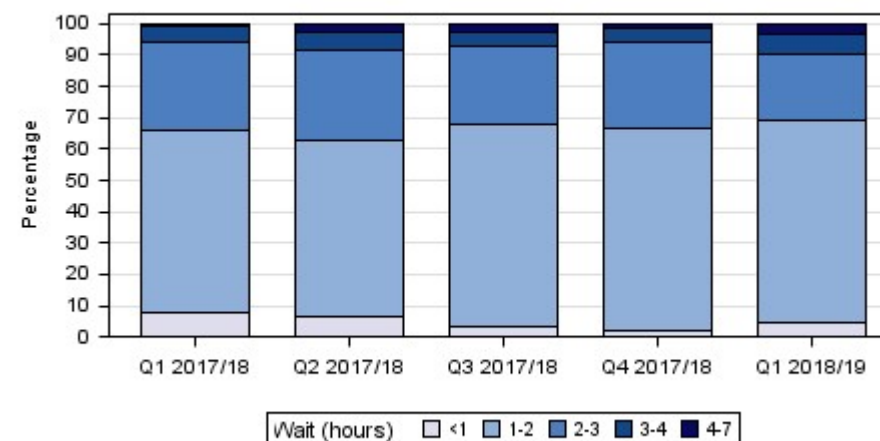


Fig. 8.3 Wait at donor hospital to start retrieval - proceeding DBD cardiothoracic team attendances

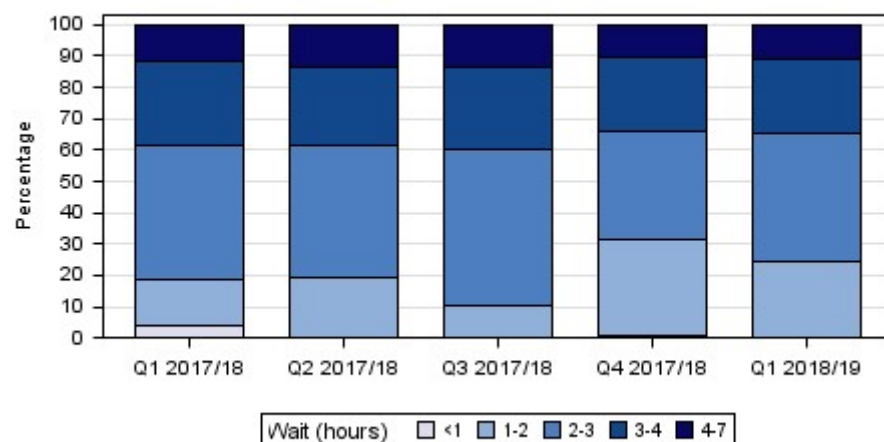
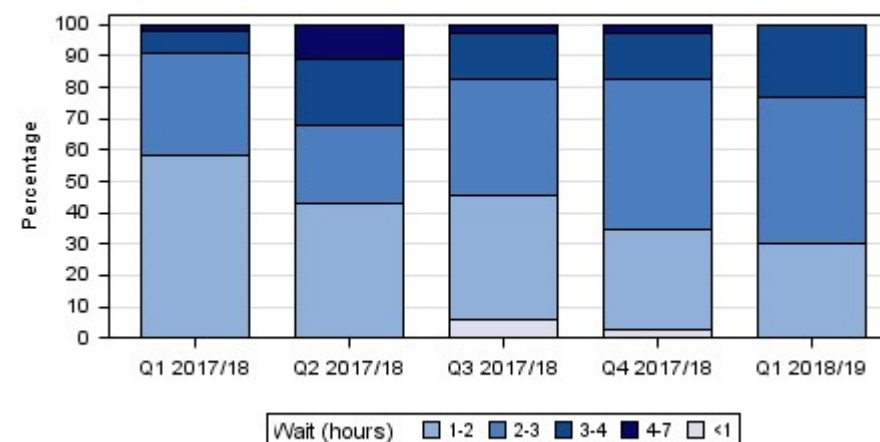


Fig. 8.4 Wait at donor hospital for treatment withdrawal - potential DCD cardiothoracic team attendances



Note: Wait could not be calculated in 5% of attendances. Comments recorded on the Retrieval Team Information form indicate that common causes of delays at the donor hospital include waiting for another retrieval team to arrive, waiting for theatre space or anaesthetists, delays in organ offering, delays caused by use of organ preservation technologies, verification of brain stem death test results and delays in getting recipients ready for transplantation.

Objective 8 – Minimise wait at donor hospital prior to retrieval (continued)

Table 8.1: Extended wait at donor hospital to start the retrieval (DBD) or for treatment withdrawal (DCD)*

	Q1 2017/18	Q2 2017/18	Q3 2017/18	Q4 2017/18	Q1 2018/19	YTD 2018/19 (Apr-Jun)
Proceeding DBD Abdominal						
No. attendances where team waited 2+ hrs	101	103	124	108	94	94
% of attendances	49.3	47	51	40	37.9	37.9
Potential DCD Abdominal						
No. attendances where team waited 2+ hrs	74	66	71	81	69	69
% of attendances	33.6	37.3	32.3	33.5	30.8	30.8
Proceeding DBD Cardiothoracic						
No. attendances where team waited 2+ hrs	57	55	61	60	50	50
% of attendances	81.4	80.9	89.7	68.2	75.8	75.8
Potential DCD Cardiothoracic						
No. attendances where team waited 2+ hrs	18	16	19	26	21	21
% of attendances	41.9	57.1	54.3	65	70	70
TOTAL						
No. attendances where team waited 2+ hrs	250	240	275	275	234	234
% of attendances	46.5	48.8	48.6	43	41.2	41.2

*Wait could not be calculated in 5% of attendances.

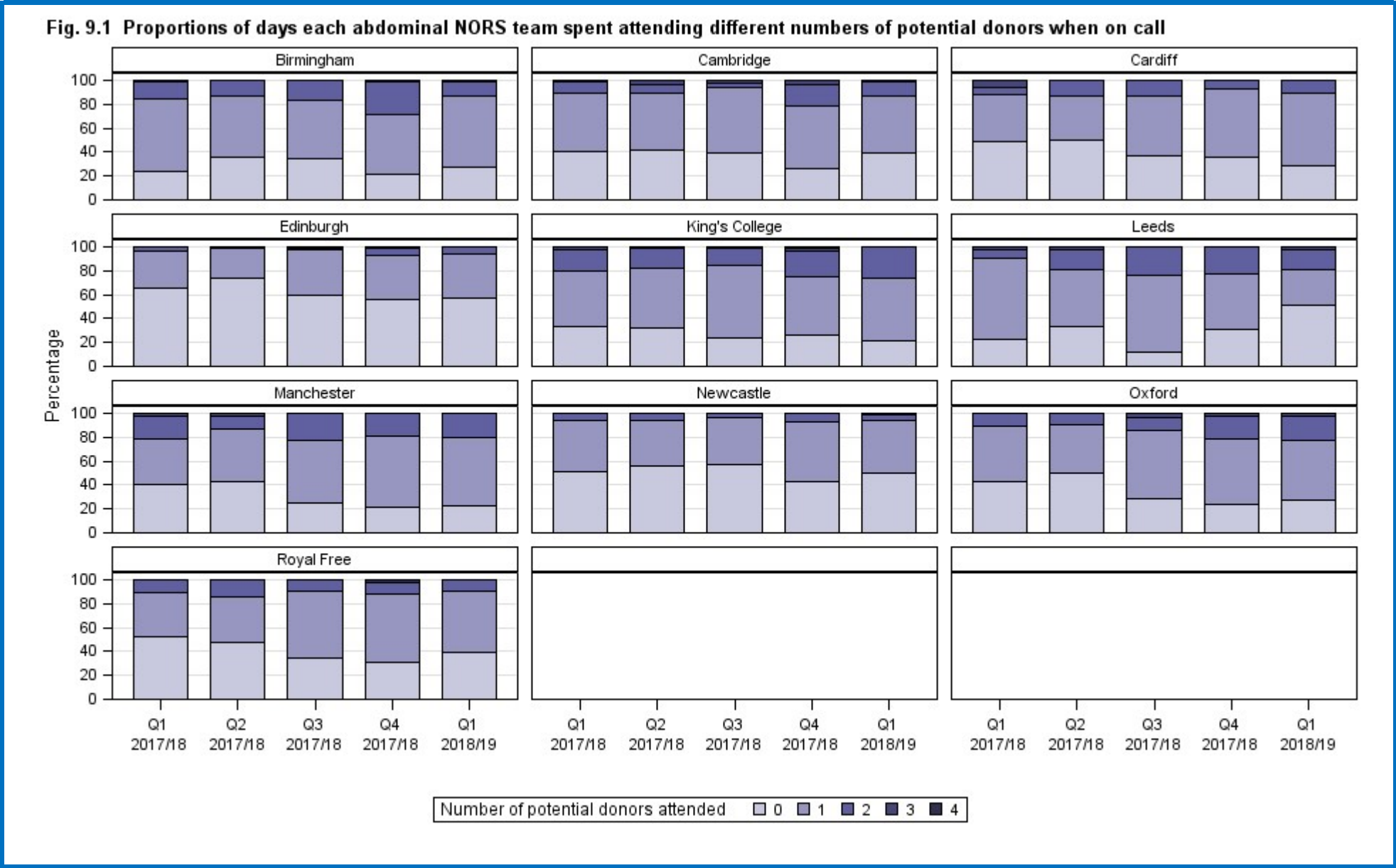
3.6. Objective 9 – Monitor activity across NORS teams

Table 9.1: Proportion of days each NORS team spent attending at least one potential donor when on call*

Retrieval team	Proportion of days spent attending at least one potential donor when on call					
	Q1 2017/18	Q2 2017/18	Q3 2017/18	Q4 2017/18	Q1 2018/19	YTD 2018/19 (Apr-Jun)
Abdominal						
Birmingham	75.9	64.3	65.7	79.0	73.0	73.0
Cambridge	59.3	58.7	60.9	73.3	60.4	60.4
Cardiff	51.5	50.0	63.6	64.3	71.4	71.4
Edinburgh	34.1	26.1	40.2	44.4	42.9	42.9
King's College	67.0	67.4	76.1	74.4	79.1	79.1
Leeds	77.3	66.7	88.4	68.7	48.8	48.8
Manchester	59.6	56.8	75.5	78.6	77.1	77.1
Newcastle	48.4	44.6	42.4	56.7	49.5	49.5
Oxford	57.4	50.0	71.4	76.2	72.9	72.9
Royal Free	47.7	52.1	65.1	68.7	60.5	60.5
OVERALL	56.7	53.0	62.1	67.0	62.2	62.2
Cardiothoracic						
Birmingham	44.7	45.5	49.0	52.4	35.4	35.4
Glasgow	20.5	20.8	25.6	22.9	20.9	20.9
Harefield	51.1	61.4	57.1	64.3	47.9	47.9
Manchester	59.1	41.7	48.8	56.2	51.2	51.2
Newcastle	40.4	29.5	34.7	47.6	37.5	37.5
Papworth	54.5	68.7	48.8	72.9	58.1	58.1
OVERALL	45.1	44.6	44.2	52.6	41.8	41.8

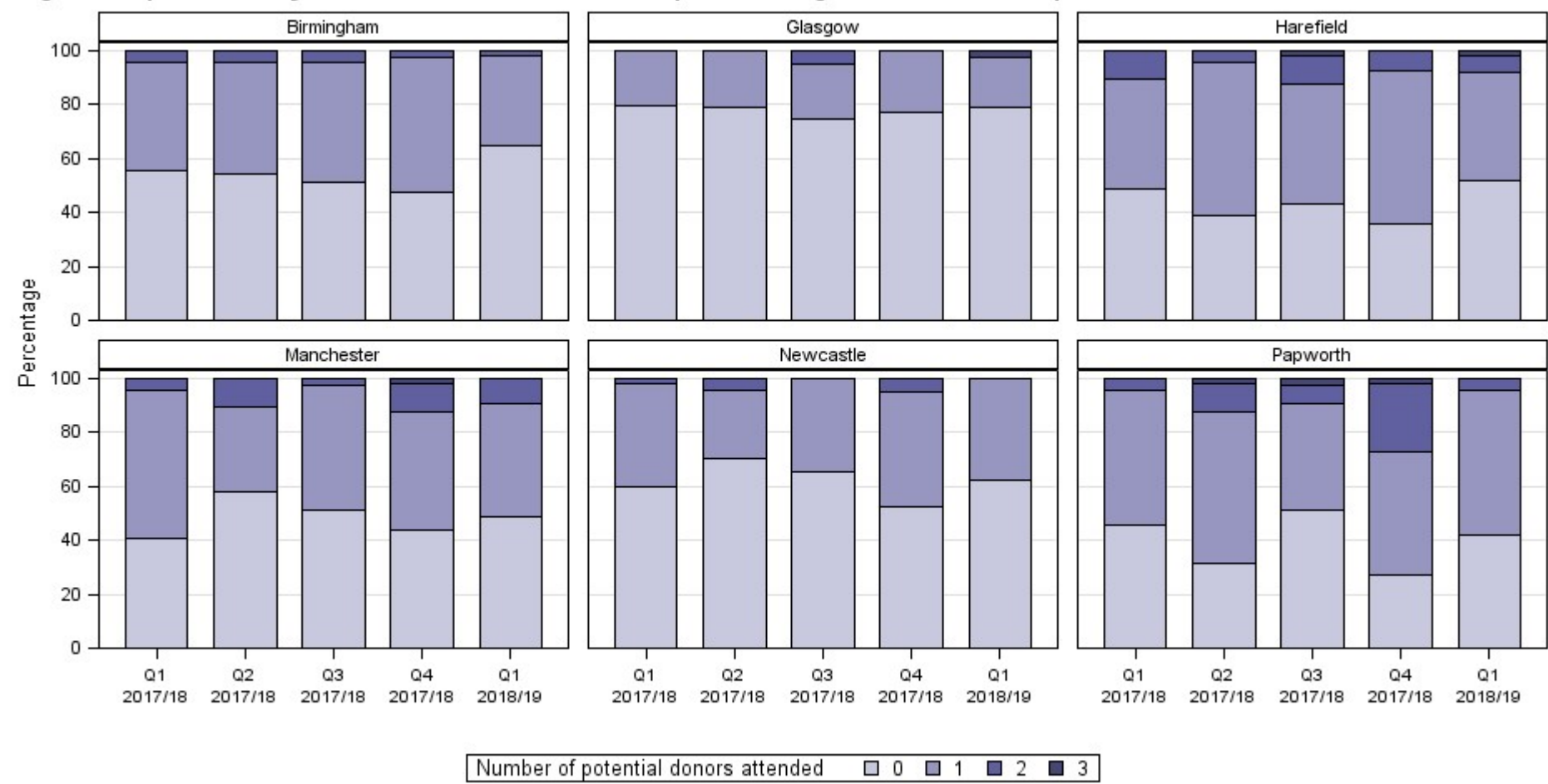
*Only on call donor attendances are included.

Objective 9 – Monitor activity across NORS teams (continued)



Objective 9 – Monitor activity across NORS teams (continued)

Fig. 9.2 Proportions of days each cardiothoracic NORS team spent attending different numbers of potential donors when on call



Objective 10 – Monitor off-duty attendances

Table 10.1: Off-duty attendances by abdominal teams

Donor ID	Donor hospital	NORS team	Agreed departure date	Actual departure date	Theatre departure date	Donor type	Donor age
133017	Cardiff, University Of Wales Hospital	Cardiff	30APR2018: 19:00:00	30APR2018: 19:00:00	30APR2018: 23:30:00	DCD	37
133481	Nottingham, Nottingham University Hospitals Qmc Campus	Manchester	28MAY2018: 07:00:00	28MAY2018: 07:30:00	28MAY2018: 16:25:00	DCD	69
133857	Newcastle, Royal Victoria Infirmary	Leeds	18JUN2018: 07:30:00	18JUN2018: 07:46:00	18JUN2018: 14:40:00	DBD	44

NOTE: Team handover times are assumed to be Monday at 8am for Oxford/Royal Free, Leeds/Manchester, and 8pm for Birmingham/Cardiff.

Objective 10 – Monitor off-duty attendances (continued)

Table 10.2: Off-duty attendances by cardiothoracic teams

Donor ID	Donor hospital	NORS team	Agreed departure date	Actual departure date	Theatre departure date	Donor type	Donor age	Height (cm)	Height <145cm	DCD heart donor
132823	Preston, Royal Preston Hospital	Manchester	18APR2018: 19:00:00	18APR2018: 19:19:00	19APR2018: 00:47:00	DCD	42	187	No	No
133017	Cardiff, University Of Wales Hospital	Harefield	30APR2018: 16:15:00	30APR2018: 16:26:00	30APR2018: 22:10:00	DCD	37	180	No	Yes
133219	Southampton, Southampton University Hospitals	Harefield	12MAY2018: 08:15:00	12MAY2018: 08:42:00	12MAY2018: 13:05:00	DCD	40	190	No	No
133260	Glasgow, Queen Elizabeth University Hospital	Glasgow	15MAY2018: 09:30:00	15MAY2018: 09:30:00	15MAY2018: 18:45:00	DBD	44	184	No	No
133333	Papworth, Papworth Hospital	Papworth	18MAY2018: 04:45:00	18MAY2018: 05:00:00	18MAY2018: 14:20:00	DCD	46	176	No	Yes
133810	Halifax, Calderdale Royal Hospital	Papworth	16JUN2018: 10:30:00	16JUN2018: 10:20:00	16JUN2018: 19:45:00	DCD	30	183	No	No
133877	Chesterfield, Chesterfield And N Derbyshire Royal Hospital	Harefield	19JUN2018: 07:15:00	19JUN2018: 07:50:00	19JUN2018: 14:00:00	DCD	21	172	No	No

Offers highlighted in blue are those where the team attended a paediatric cardiothoracic donor (height < 145cm).
Offers highlighted in purple are those where the team attended a DCD donor and retrieved the heart.
NOTE: Team handover time is Monday at 8pm for all cardiothoracic teams.