

## NHS BLOOD AND TRANSPLANT

### CARDIOTHORACIC ADVISORY GROUP

#### AUDIT OF REASONS FOR DECLINING CARDIOTHORACIC ORGAN OFFERS

#### INTRODUCTION

- 1 It was agreed by CTAG that from 1 December 2017 centres should start maintaining a log of all cardiothoracic organ offers they receive and decline from NHSBT ODT Hub Operations or from a Specialist Nurse in Organ Donation. The aim of this is to gain a greater insight into reasons for non-acceptance of donor organs, ultimately leading to increased organ utilisation.
- 2 Ahead of this, Statistics and Clinical Studies distributed a spreadsheet to be used to record declines, using the new list of reasons developed by the CTAG Core Group (see **Appendix A1**). This paper reports on how many centres have returned information since the start of this initiative and briefly summarises the information that has been reported in the spreadsheets for June to August 2018.
- 3 Declined offers include those that are declined outright and those that are initially accepted but later declined (e.g. at retrieval). Declines for individual patients as well as group offers to centres are included.

#### RESULTS

##### Form return rates

- 4 **Table 1** shows the information that has been returned from each centre, by month, as at 27 September 2018. Centres were asked in early September to submit completed spreadsheets up to the end of August, with all centres except Great Ormond Street returning information. Information is most complete for the period June-August.

Centre	Month									Number of months returned
	Dec 2017	Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	
Birmingham	✓	✓	✓	✓	✓	✓	✓	✓	✓	9
Harefield	✓	✓	✓	✓	✓	✓	✓	✓	✓	9
Glasgow	✓	✓	✓	✓	x	x	✓	✓	✓	7
Great Ormond Street	✓	x	x	x	x	x	x	x	x	1
Manchester	✓	✓	✓	✓	✓	✓	✓	✓	✓	9
Newcastle	x	x	x	x	x	✓	✓	✓	✓	4
Papworth	✓	✓	✓	✓	✓	✓	✓	✓	✓	9

### Decline reasons, June – August 2018

- 5 Between June and August 2018, a total of 1,551 declined cardiothoracic organ offers were recorded by six centres as seen in **Table 2**. Note that as this is on an offer basis; several declines can refer to the one donor. There were 311 unique donors, however 8 offers across all centres had a missing donor ID. There were a small number of single lung declines recorded in the time period and so have been grouped together with bilateral lungs declines for ease of reporting.

Centre	Organ declines			Total
	Heart	Lungs	Heart-lung block	
Birmingham	53	185	40	278
Glasgow	92	-	-	92
Harefield	183	130	32	345
Manchester	99	186	37	322
Newcastle	51	152	22	225
Papworth	88	190	11	289
<b>Total</b>	<b>566</b>	<b>843</b>	<b>142</b>	<b>1551</b>

- 6 **Table 3** summarises the primary reason recorded by all centres combined for declining cardiothoracic organs, by organ. Two declines at Manchester were excluded as they did not have a reason.
- 7 Overall, for lung declines, the most common primary reason was **B26 Poor Function** (24%), followed by **A5 Donor Unsuitable - Past Medical History** (17%) and **D1 No Suitable Recipients** (17%). For hearts, the most common primary reasons were **B26 Poor Function** (23%) and **A5 Donor Unsuitable - Past Medical History** (23%) followed by **C3 HLA Mismatch** (8%). The declines for heart-lung blocks were mostly due to **B26 Poor Function** (26%), **D1 No Suitable Recipients** (19%) and **A5 Donor Unsuitable - Past Medical History** (18%).

**Table 3 Primary reason recorded by centres for declining cardiothoracic organs, by organ offered, 1 June 2018 – 31 August 2018**

Primary reason for decline	Lungs N (%)	Heart N (%)	Heart-Lung Block N (%)
A1 Donor Unsuitable - Age	53 (6)	38 (7)	3 (2)
A2 Donor Unsuitable - Cause of Death	2 (0)	4 (1)	0 (0)
A3 Donor Unsuitable - High Risk Lifestyle	4 (0)	4 (1)	1 (1)
A4 Donor Unsuitable - Medication	1 (0)	0 (0)	0 (0)
A5 Donor Unsuitable - Past Medical History	147 (17)	130 (23)	26 (18)
A6 Donor Unsuitable - Smoking History	19 (2)	0 (0)	3 (2)
A7 Donor Unsuitable - Tumour	3 (0)	2 (0)	0 (0)
A8 Donor Unsuitable - Virology	10 (1)	11 (2)	13 (9)
A9 Donor Unsuitable - DCD	7 (1)	2 (0)	0 (0)
A10 Donor Unsuitable - No Blood for Virology	1 (0)	0 (0)	1 (1)
A98 Other, Please Specify	26 (3)	23 (4)	4 (3)
B1 Coronary Artery Disease	0 (0)	7 (1)	1 (1)
B3 Ventricular Hypertrophy	0 (0)	10 (2)	0 (0)
B11 Aspiration	10 (1)	0 (0)	2 (1)
B12 Atelectasis	1 (0)	0 (0)	0 (0)
B13 Bullous Disease / Emphysema	4 (0)	0 (0)	0 (0)
B21 Anatomical Anomaly	1 (0)	1 (0)	0 (0)
B23 Infection	34 (4)	0 (0)	2 (1)
B24 Organ Trauma – Contusion, Laceration	13 (2)	1 (0)	1 (1)
B26 Poor Function	204 (24)	129 (23)	37 (26)
B98 Other, Please Specify	17 (2)	11 (2)	1 (1)
C1 ABO Mismatch	1 (0)	1 (0)	0 (0)
C2 Age Mismatch	1 (0)	2 (0)	0 (0)
C3 HLA Mismatch	12 (1)	45 (8)	0 (0)
C4 Size Mismatch	33 (4)	41 (7)	6 (4)
C98 Other, Please Specify	1 (0)	5 (1)	0 (0)
D1 No Suitable Recipients	146 (17)	41 (7)	27 (19)
D2 Recipient Died	0 (0)	1 (0)	0 (0)
D3 Recipient Refused	4 (0)	1 (0)	0 (0)
D4 Recipient Travel Time Too Long	1 (0)	1 (0)	0 (0)
D5 Recipient Unavailable	3 (0)	0 (0)	0 (0)
D6 Recipient Unfit	0 (0)	11 (2)	0 (0)
D98 Other, Please Specify	0 (0)	1 (0)	1 (1)
E1 Centre Already Transplanting	62 (7)	13 (2)	11 (8)
E2 Donor Cross Clamp Time Too Imminent	2 (0)	2 (0)	0 (0)
E3 Long Travel Time for Organ	2 (0)	9 (2)	0 (0)
E4 No ICU Beds	9 (1)	5 (1)	0 (0)
E5 No Staff	2 (0)	3 (1)	0 (0)
E6 No Theatre	1 (0)	0 (0)	0 (0)
E7 No Time	1 (0)	0 (0)	0 (0)
E10 Transport Difficulties	0 (0)	5 (1)	1 (1)
E98 Other, Please Specify	4 (0)	5 (1)	1 (1)
<b>Total</b>	<b>842</b>	<b>565</b>	<b>142</b>

8 **Tables 4, 5, and 6** compared the decline reasons across centres for heart, lung, and heart-lung block offers respectively over the three month period. Apart from Harefield, the most common reason for a centre declining a heart was **B26 – Poor Function**, with Harefield's most common reason being **A5 Donor Unsuitable - Past Medical History**. For lungs, Birmingham, Manchester and Newcastle all recorded **B26 – Poor Function** most frequently, while Harefield selected **A5 Donor Unsuitable - Past Medical History** and Papworth selected **D1 No Suitable Recipients** most frequently. For heart-lung offers, again there was some variation across centres but **A5 Donor Unsuitable - Past Medical History**, **B26 – Poor Function** and **D1 – No Suitable Recipients** were reported most often.

**Table 4 Primary reason recorded for declining heart offers, by centre, 1 June 2018 – 31 August 2018**

<b>Primary reason for decline</b>	<b>Birmingham N (%)</b>	<b>Glasgow N (%)</b>	<b>Harefield N (%)</b>	<b>Manchester N (%)</b>	<b>Newcastle N (%)</b>	<b>Papworth N (%)</b>
A1 Donor Unsuitable - Age	2 (4)	9 (10)	8 (4)	9 (9)	5 (10)	5 (6)
A2 Donor Unsuitable - Cause of Death	0 (0)	1 (1)	0 (0)	2 (2)	0 (0)	1 (1)
A3 Donor Unsuitable - High Risk Lifestyle	1 (2)	0 (0)	0 (0)	2 (2)	1 (2)	0 (0)
A5 Donor Unsuitable - Past Medical History	3 (6)	16 (17)	69 (38)	19 (19)	4 (8)	19 (22)
A7 Donor Unsuitable - Tumour	0 (0)	0 (0)	2 (1)	0 (0)	0 (0)	0 (0)
A8 Donor Unsuitable - Virology	0 (0)	2 (2)	4 (2)	3 (3)	0 (0)	2 (2)
A9 Donor Unsuitable - DCD	0 (0)	1 (1)	0 (0)	1 (1)	0 (0)	0 (0)
A98 Other, Please Specify	4 (8)	10 (11)	0 (0)	2 (2)	6 (12)	1 (1)
B1 Coronary Artery Disease	1 (2)	3 (3)	0 (0)	1 (1)	0 (0)	2 (2)
B21 Anatomical Anomaly	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)
B24 Organ Trauma – Contusion, Laceration	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
B26 Poor Function	12 (23)	19 (21)	35 (19)	24 (24)	14 (27)	25 (28)
B3 Ventricular Hypertrophy	0 (0)	7 (8)	0 (0)	1 (1)	2 (4)	0 (0)
B98 Other, Please Specify	6 (11)	2 (2)	1 (1)	1 (1)	0 (0)	1 (1)
C1 ABO Mismatch	1 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
C2 Age Mismatch	1 (2)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)
C3 HLA Mismatch	3 (6)	1 (1)	31 (17)	3 (3)	3 (6)	4 (5)
C4 Size Mismatch	3 (6)	5 (5)	21 (11)	8 (8)	3 (6)	1 (1)
C98 Other, Please Specify	1 (2)	1 (1)	0 (0)	1 (1)	2 (4)	0 (0)
D1 No Suitable Recipients	6 (11)	0 (0)	2 (1)	5 (5)	6 (12)	22 (25)
D2 Recipient Died	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)
D3 Recipient Refused	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)
D4 Recipient Travel Time Too Long	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)
D6 Recipient Unfit	0 (0)	1 (1)	2 (1)	8 (8)	0 (0)	0 (0)
D98 Other, Please Specify	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)
E1 Centre Already Transplanting	5 (9)	0 (0)	3 (2)	3 (3)	1 (2)	1 (1)
E10 Transport Difficulties	0 (0)	3 (3)	0 (0)	1 (1)	1 (2)	0 (0)
E2 Donor Cross Clamp Time Too Imminent	0 (0)	1 (1)	0 (0)	1 (1)	0 (0)	0 (0)
E3 Long Travel Time for Organ	1 (2)	4 (4)	0 (0)	0 (0)	0 (0)	4 (5)
E4 No ICU Beds	1 (2)	0 (0)	4 (2)	0 (0)	0 (0)	0 (0)
E5 No Staff	0 (0)	0 (0)	0 (0)	3 (3)	0 (0)	0 (0)
E98 Other, Please Specify	2 (4)	2 (2)	0 (0)	0 (0)	1 (2)	0 (0)
<b>Total</b>	<b>53</b>	<b>92</b>	<b>183</b>	<b>98</b>	<b>51</b>	<b>88</b>

**Table 5 Primary reason recorded for declining lung offers, by centre, 1 June 2018 – 31 August 2018**

<b>Primary reason for decline</b>	<b>Birmingham N (%)</b>	<b>Harefield N (%)</b>	<b>Manchester N (%)</b>	<b>Newcastle N (%)</b>	<b>Papworth N (%)</b>
A1 Donor Unsuitable - Age	17 (9)	6 (5)	16 (9)	8 (5)	6 (3)
A10 No Blood for Virology	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)
A2 Donor Unsuitable - Cause of Death	2 (1)	0 (0)	0 (0)	0 (0)	0 (0)
A3 Donor Unsuitable - High Risk Lifestyle	0 (0)	0 (0)	4 (2)	0 (0)	0 (0)
A4 Donor Unsuitable - Medication	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)
A5 Donor Unsuitable - Past Medical History	26 (14)	44 (34)	16 (9)	29 (19)	32 (17)
A6 Donor Unsuitable - Smoking History	0 (0)	0 (0)	14 (8)	3 (2)	2 (1)
A7 Donor Unsuitable - Tumour	0 (0)	2 (2)	1 (1)	0 (0)	0 (0)
A8 Donor Unsuitable - Virology	1 (1)	3 (2)	4 (2)	0 (0)	2 (1)
A9 Donor Unsuitable - DCD	4 (2)	0 (0)	0 (0)	3 (2)	0 (0)
A98 Other, Please Specify	8 (4)	12 (9)	0 (0)	6 (4)	0 (0)
B11 Aspiration	3 (2)	0 (0)	5 (3)	1 (1)	1 (1)
B12 Atelectasis	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)
B13 Bullous Disease / Emphysema	1 (1)	0 (0)	1 (1)	1 (1)	1 (1)
B21 Anatomical Anomaly	0 (0)	0 (0)	0 (0)	0 (0)	1 (1)
B23 Infection	13 (7)	0 (0)	10 (5)	7 (5)	4 (2)
B24 Organ Trauma – Contusion, Laceration	3 (2)	0 (0)	3 (2)	7 (5)	0 (0)
B26 Poor Function	49 (26)	25 (19)	33 (18)	43 (28)	54 (28)
B98 Other, Please Specify	5 (3)	1 (1)	5 (3)	5 (3)	1 (1)
C1 ABO Mismatch	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)
C2 Age Mismatch	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)
C3 HLA Mismatch	0 (0)	2 (2)	8 (4)	1 (1)	1 (1)
C4 Size Mismatch	15 (8)	6 (5)	7 (4)	5 (3)	0 (0)
C98 Other, Please Specify	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)
D1 No Suitable Recipients	10 (5)	9 (7)	30 (16)	16 (11)	81 (43)
D3 Recipient Refused	0 (0)	0 (0)	4 (2)	0 (0)	0 (0)
D4 Recipient Travel Time Too Long	0 (0)	0 (0)	0 (0)	1 (1)	0 (0)
D5 Recipient Unavailable	0 (0)	0 (0)	3 (2)	0 (0)	0 (0)
E1 Centre Already Transplanting	23 (12)	13 (10)	10 (5)	15 (10)	1 (1)
E2 Donor Cross Clamp Time Too Imminent	2 (1)	0 (0)	0 (0)	0 (0)	0 (0)
E3 Long Travel Time for Organ	1 (1)	0 (0)	1 (1)	0 (0)	0 (0)
E4 No ICU Beds	0 (0)	7 (5)	0 (0)	0 (0)	2 (1)
E5 No Staff	0 (0)	0 (0)	2 (1)	0 (0)	0 (0)
E6 No Theatre	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)
E7 No Time	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)
E98 Other, Please Specify	1 (1)	0 (0)	1 (1)	1 (1)	1 (1)
<b>Total</b>	<b>185</b>	<b>130</b>	<b>185</b>	<b>152</b>	<b>190</b>

**Table 6 Primary reason recorded for declining heart-lung offers, by centre, 1 June 2018 – 31 August 2018**

Primary reason for decline	Birmingham N (%)	Harefield N (%)	Manchester N (%)	Newcastle N (%)	Papworth N (%)
A1 Donor Unsuitable - Age	2 (5)	0 (0)	1 (3)	0 (0)	0 (0)
A10 No Blood for Virology	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
A3 Donor Unsuitable - High Risk Lifestyle	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
A5 Donor Unsuitable - Past Medical History	3 (8)	15 (47)	3 (8)	2 (9)	3 (27)
A6 Donor Unsuitable - Smoking History	1 (3)	0 (0)	1 (3)	1 (5)	0 (0)
A8 Donor Unsuitable - Virology	0 (0)	3 (9)	3 (8)	3 (14)	4 (36)
A98 Other, Please Specify	2 (5)	0 (0)	0 (0)	2 (9)	0 (0)
B1 Coronary Artery Disease	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
B11 Aspiration	1 (3)	0 (0)	0 (0)	1 (5)	0 (0)
B23 Infection	0 (0)	0 (0)	1 (3)	1 (5)	0 (0)
B24 Organ Trauma – Contusion, Laceration	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)
B26 Poor Function	15 (38)	9 (28)	7 (19)	3 (14)	3 (27)
B98 Other, Please Specify	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)
C4 Size Mismatch	4 (10)	0 (0)	2 (5)	0 (0)	0 (0)
D1 No Suitable Recipients	3 (8)	4 (13)	12 (32)	7 (32)	1 (9)
D98 Other, Please Specify	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)
E1 Centre Already Transplanting	5 (13)	1 (3)	3 (8)	2 (9)	0 (0)
E10 Transport Difficulties	0 (0)	0 (0)	1 (3)	0 (0)	0 (0)
E98 Other, Please Specify	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)
<b>Total</b>	<b>40</b>	<b>32</b>	<b>37</b>	<b>22</b>	<b>11</b>

- 9 Secondary reasons were reported for 286 (18%) of declines, and tertiary reasons were reported for 13 (1%) of declines. Free-text reasons were provided for 131 (8%) declines, of which 95 had reported an “Other, please specify” as one of the reasons for decline. Glasgow and Newcastle more often gave free-text reasons than other centres such as Papworth and Birmingham (however Birmingham gave additional comments about the donor/offer which was not common practice amongst other centres).
- 10 The free-text reasons are listed in **Appendix A2**. Recurring comments included lack of ECHO, TOE or cardiac output and abnormal CT scan or chest X-ray. “Size” was occasionally reported as well as “sex mismatch”. High risk behaviour was mentioned in a few cases also.

## CONCLUSIONS

- 11 Most centres are maintaining a log of all cardiothoracic organ offers they decline and are sending this information to the Statistics team for analysis.
- 12 In a recent three month period, the three most common reasons for declining cardiothoracic organs were **B26 Poor Function, A5 Donor Unsuitable - Past Medical History** and **D1 No Suitable Recipients**. Free-text data highlighted the potential need for more codes to be added to the list developed by the CTAG Core Group.
- 13 Members are asked to comment on whether this exercise should continue.

**Appendix A1: List of reasons for declining cardiothoracic organs as developed by CTAG Core Group**

<b>A</b>	<b>Donor Unsuitable</b>
1	DONOR UNSUITABLE - AGE
2	DONOR UNSUITABLE - CAUSE OF DEATH
3	DONOR UNSUITABLE - HIGH RISK LIFESTYLE
4	DONOR UNSUITABLE - MEDICATION
5	DONOR UNSUITABLE - PAST MEDICAL HISTORY
6	DONOR UNSUITABLE - SMOKING HISTORY
7	DONOR UNSUITABLE - TUMOUR
8	DONOR UNSUITABLE - VIROLOGY
9	DONOR UNSUITABLE - DCD
10	NO BLOOD FOR VIROLOGY
98	OTHER, PLEASE SPECIFY
<b>B</b>	<b>Organ Unsuitable</b>
<b>Heart</b>	
1	CORONARY ARTERY DISEASE
2	EXCESSIVE CATECHOLAMINES
3	VENTRICULAR HYPERTROPHY
<b>Lung</b>	
11	ASPIRATION
12	ATELECTASIS
13	BULLOUS DISEASE / EMPHYSEMA
<b>Generic</b>	
21	ANATOMICAL ANOMALY
22	EXTENSIVE ADHESIONS
23	INFECTION
24	ORGAN TRAUMA – CONTUSION, LACERATION
25	ORGAN DAMAGED AT RETRIEVAL
26	POOR FUNCTION
98	OTHER, PLEASE SPECIFY
<b>C</b>	<b>Organ unsuitable for named recipient</b>
1	ABO MISMATCH
2	AGE MISMATCH
3	HLA MISMATCH
4	SIZE MISMATCH
98	OTHER, PLEASE SPECIFY
<b>D</b>	<b>Recipient unsuitable</b>
1	NO SUITABLE RECIPIENTS
2	RECIPIENT DIED
3	RECIPIENT REFUSED
4	RECIPIENT TRAVEL TIME TOO LONG
5	RECIPIENT UNAVAILABLE
6	RECIPIENT UNFIT
98	OTHER, PLEASE SPECIFY
<b>E</b>	<b>Logistic Issue</b>
1	CENTRE ALREADY TRANSPLANTING
2	DONOR CROSS CLAMP TIME TOO IMMINENT
3	LONG TRAVEL TIME FOR ORGAN
4	NO ICU BEDS
5	NO STAFF
6	NO THEATRE
7	NO TIME
8	NO UK RETRIEVAL TEAM AVAILABLE
9	POOR WEATHER
10	TRANSPORT DIFFICULTIES
98	OTHER, PLEASE SPECIFY

**Appendix A2: Free-text reason for decline as reported for 131 out of 1551 cardiothoracic organ declines between 1 June 2018 and 31 August 2018**

Free text reason	Frequency
60yr old, DCD, Asthma, Smoking 15d/40yrs, surgical emphysema	1
Abnormal CT	2
abnormal bronchoscopy	2
Abnormal CT	2
Abnormal CT scan	1
Abnormal CXR	2
abnormal echo	2
Accepted but DCD criteria not achieved	1
adhesions, scarring, bullae on inspection	1
Bronchoscopy result	1
coroner withdrew consent	1
CPR- PEA arrest- accepted another heart tonight	1
CT BILATERAL CONSOLIDATION	1
CT findings	1
CXR	7
CXR FINDINGS	1
DCD HEART	3
DCD Heart	2
DCD heart	1
declined heart only	1
diagnosis - bronchiectasis	1
Differential gases poor in theatre	1
donor deteriorated	1
Donor diagnosed with cardiomyopathy	3
Donor in Rep. of Ireland	1
ECG LVH- GOBALLY IMPAIRED LV	1
Echo	1
EXPRESSED INTEREST IN LUNGS	1
Extensive cannabis use	1
FASTRACK OFFER	1
female to male, distance	1
FOR HEART	1
function	2
Had already been taken by another centre	1
Heavy drug use & hanging	1
High risk	1
high risk behaviour	1
History	1
infection	1
Infiltrates & consolidation on CXR	1
interest registered but accepted by another centre	1
IVST 17mm	1
Knife to skin 13:32	1
Knife to skin 14:57	1
lack of assessment	2
lack of investigations	1
Length of ventilation	1
Logistics	1
Microbiological concerns	1
No cardiac assessment	2
No CXR on EOS	1
No echo	1
no echo	2
no echo available on offer	1
no echo done, snod unable to delay retrieval to allow for echo	1



No echo or cardiac output studies	1
No planes available	2
No recipient on size	1
No suitable recipients	1
no suitable recipients	1
No TOE available	1
Offer withdrawn	1
Out of our DCD protocol	1
paediatric donor	1
PE	2
po2 26 on 100%. PMH asthma	1
Poor CXR	3
Poor CXR/infection	1
Poor function	1
Presenting history	1
Pulmonary nodules on CXR	1
RETRIEVAL FINDINGS	1
Risk of infection	1
Sent wrong donor details by duty office so looked at wrong donor in western general	1
sex mismatch	2
Sex of donor	1
Significantly impaired LV on Echo	1
Size	8
size	2
size - paediatric donor	1
Size & gender	1
Size & sex	1
Size & sex of donor	1
Size and TT	1
size mismatch	2
Southern ireland donor	1
stood down on echo - looks like HCOM	1
Sweden	1
Text message with offer missed	1
Tissue typing	1
trauma	1
unable to perform TOE/Cardiac output	1
Unlikely to meet criteria at withdraw	1
Unlikely to meet criteria at withdrawal	2
used by other centre	1
Virtual XM	1